

**One Hundred and Nineteenth
Annual Meeting**

**SOUTHERN
ASSOCIATION OF AGRICULTURAL
SCIENTISTS**

2023 Programs

Oklahoma City, Oklahoma
February 2-7, 2023

Omni Oklahoma City Hotel
100 West Oklahoma City Boulevard
Oklahoma City, OK 73109

Group Rate: \$165/night + tax (Single/Double/Triple/Quad rooms)

Overflow hotel added: Fairfield Inn & Suites Oklahoma City Downtown
(0.3 miles, 5 minute walk from Omni)
\$129 to \$139/night + tax



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**



Oklahoma City, Oklahoma

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

**2023 SAAS CONFERENCE PROGRAM
OKLAHOMA CITY
OMNI HOTEL
February 02-07, 2023**

SAAS Registration

Sunday, February 05 - 8:00 am - 4:00 pm

Monday, February 06 - 8:00 am - 4:00 pm

North Prefunction Foyer (Second Floor)

SAAS General Business Meeting

Keynote Speaker – Leon Natker

Director for Institutional Advancement

Sunday, February 05

4:00 pm – 5:00 pm

Oklahoma Station 3 (Second Floor)

SAAS Opening Social

Sponsored by Southern Farm Bureau

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5:00 pm - Sunday, February 05

Scissortail Terrace/Prefunction (Second Floor)

Dinner on your own

Executive Committee Meetings

Sunday, February 05

SAAS Board Meeting

2:30 pm – 3:30 pm

Oklahoma Station 3 (Second Floor)

Tuesday, February 07

SAAS Board Breakfast Meeting

7:30 am – 9:30 am

Red Earth Boardroom (Seventeenth Floor)

**Administrative Heads of Agriculture Section (AHS)
Southern Association of Agricultural Scientists
2023 SAAS CONFERENCE**

**Monday, February 06
11:00 am – 3:00 pm
Administrative Heads of
Agriculture Section (AHS) Meeting**
Red Earth Boardroom (Seventeenth Floor)

Submit agenda items to Eric Young
Lunch will be served

National Agricultural Communications Symposium
2023 AGENDA

Saturday, February 4

9:00 a.m. - 4:00 p.m. **Grant Writing Retreat, Mistletoe**

Sunday, February 5

7:00-7:30 a.m.

Breakfast

7:30 - 8:30 a.m.

Business Session, Oklahoma Station 1

- *Introductions*
- *Program updates*
- *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, Oklahoma Station 1

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

Discussant: TBA

Facilitator: TBA

**Communicating about the Plastic Pollution Crisis in our Food System:
Exploring Interventions to Mitigate Single-use Bottled Water**

Kristin E. Gibson and Alexa J. Lamm

**Soil health motivations and barriers in the context of diffusion of
innovations theory**

Nellie Hill, Katie Starzec, Megan Underwood, Levy Randolph, and Jason
Ellis

**Exploring Identities of Extension Faculty and Educators as Science
Communicators**

Klae D. O'Brien, Carrie N. Baker, Sarah A. Bush, Maggie Elliot, and Kattlyn
J. Wolf

**Growing Pains: Assessing the strategic organizational communication
approaches of an expanding Extension organization**

Anissa Zagonel, Ashley McLeod-Morin, Lauri M. Baker, and Angela B.
Lindsey

10:05 - 10:20 a.m.

Break

10:20 - 11:05 a.m. **Concurrent Paper Session I, Oklahoma Station 1**
(10 min for presentation, 5 min for Q&A)
Discussant: TBA
Facilitator: TBA

New Beginnings: An Exploration of Agricultural Communications Curriculum Development in Ontario

Madison A. Dymont, Annie R. Specht, and Emily B. Buck

Moral Values in Students' Agricultural Communications

Dara Wald and Miguel Diaz

If Nobody Hears Us, Do We Really Make a Sound? An Examination of Agriculture Faculty Members' Science Communication Engagement

Shelli D. Rampold, Taylor Ruth, and Jamie Greig

Concurrent Paper Session II, Mistletoe

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

Discussant: TBA

Facilitator: TBA

The Original FaceTime: Communication Preferences in Agriculture Marketing and Customer Service

Hannah Chambers, Ashlyn Ussery, Jefferson D. Miller, K. Jill Rucker, and Cassandra K. Cox

Better Beef at the Supermarket: Should Animal Welfare Standards be Marketed to the Consumer?

Morgan A. Young, J. Tanner Robertson, Troy Tarpley, Eric Koennecke, and Courtney Coffman

Ohio mothers' social identities and influences on food purchasing

Alyssa Rockers, Joy N. Rumble, Emily B. Buck, Jera Niewoehner-Green, and Cynthia Burack

11:05 a.m. **Lunch (on your own)**

1:00 – 2:00 p.m. **Research in Review/ Roundtable, Oklahoma Station 1**

1. A Discipline Conversation: Creating Undergraduate Research Opportunities in Agricultural and Natural Resources Communication
Cara Lawson and Laura Fischer
2. Communication For Development: What is it and how do we do it right?
Jessica R. Spence and Van Crowder, Virginia Tech

3. How to write for non-academic audiences
Joseph Opoku Gakpo, North Carolina State University
4. Practice What We Teach: Using PEDAL to Revisit Web Best Practices in Higher Education
Carrie Baker University of Florida
5. Supporting International Graduate Students to Navigate Academic Spaces in Agricultural Education Programs in the U.S.
Shuyang Qu and Fallys Masambuka Kanchewa, Iowa State University

2:00 p.m. **Poster set up** – *Five Moons 4*

2:30 p.m. **Poster Session** – *Five Moons 4*

4:00 - 5:00 p.m. **SAAS General Business Meeting** – *Oklahoma Station 3*

5:00 p.m. **SAAS Opening Social** – *Scissortail/OK Station Prefunction*

Monday, February 6

8:00 - 9:00 a.m. **Concurrent Professional Development Session I, Oklahoma Station 1**
(30 minutes each)

Mechanical Turk for Data Collection in Agricultural Communications Research
Kristin Gibson and Alexa Lamm

Use of ROI in evaluating academic programs for planning and for programs of study for students
Kristina M. Boone and Carri Gerber

Concurrent Professional Development Session 2, Mistletoe

Visualizing stakeholders' mental models for communication strategy
Sadie Hundemer

Your class on a timeline: Tips for a high-impact video course
Austin Moore

9:00 – 9:15 a.m. **Break**

9:15 – 10:30 a.m. **Concurrent Paper Session III, Oklahoma Station 1**
(10 min for presentation, 5 min for Q&A)
Discussant: TBA
Facilitator: TBA

Prioritizing Values: Identifying Target Audience Segments for Strategic Climate Change Communications

Ginger Orton, Laura Fischer, Ch'Ree Essary, Cara Lawson, and Maci Loving

An Exploratory Study of Risk Experience and Personal Values on Support for Climate Change Policies

Kiera Dwyer, Cara Lawson, and Laura Fischer

Significance of Science: Introducing a Scale to Measure Perceptions of Science Communication During a Crisis

Ashley McLeod-Morin, Lauri M. Baker, Lisa K. Lundy, Ricky Telg, Angela B. Lindsey

Innovation in Isolation: An Exploratory Study on the Diffusion of Local Foods Purchasing and Innovative Shopping Methods During COVID-19

Cheng-Xian Yang, Lauri M. Baker, Anissa Zagonel, and Hikaru H. Peterson

Risk it for the Brisket: Southeast United States Beef Producer Risk Information Seeking and Processing

Creigh Rourke, Rachel Waggle, Nellie Hill, Jason Ellis, and Katie Starzec

Concurrent Paper Session IV, Mistletoe

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

Discussant: TBA

Facilitator: TBA

A Multi-Method Analysis of Diversity, Equity, and Inclusion Websites of Fortune 500 Agricultural and Food Companies

Garrett M. Steede, Rebecca D. Swenson, and Troy D. McKay

What's on Netflix?: An exploratory content analysis of agriculture and natural resource-related videos on Netflix

Lauren (LaGrande) Chase, Whitney Stone, and Melissa Millhollin

Explicating News Frames: A framing analysis of GMO news coverage

Ch'Ree Essary, Erica Irlbeck, Laura Fischer, Robert M. Peaslee, and Joshue L. Mite

Data Visualizations in Infographics: An Experimental Study Investigating the Type of Data Visualizations Used in Infographics on Participant Recall

Elizabeth M. Schroeder, Laura Fisher, Courtney Gibson, and Amber McCord

**Infographics in Agriculture: A Content Analysis of Infographics from
U.S. Agricultural Organizations**

Elizabeth M. Schroeder, Courtney D. Gibson, Laura Fischer, Amber
McCord, and Kristine Schechinger

10:30 – 11:00 a.m. **Break/ Hotel Checkout**

11:00 a.m. **Business Meeting, Oklahoma Station 1**

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

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

National Agricultural Communications Symposium Poster Session, *Five Moons 4*
Sunday, Feb. 5
2:30 – 4:00 pm

RESEARCH POSTERS

An Empirical Analysis of livestock farmers e-agriculture use intention in the era of the COVID-19 pandemic – *Ayisi Daneil Nyarko & Fallys Masambuka-Kanchewa*

GMO News Coverage Across Beats and Time – *Ch’Ree Essary, Erica Irlbeck, Laura Fischer, Robert Peaslee, & Joshue Lewis Mite*

Media Mindset: Exploring How Media Coverage of Immigration Affects Attitudes Toward Immigrants in the United States – *Sydney Honeycutt, Ashley McLeod-Morin, Angela B. Lindsey, Lauri M. Baker, Ricky Telg, & Dale Pracht*

Relevancy of Print Magazines: A Q Methodological Examination of Generation Z’s Publication Preferences – *Rebekah McCarty & Shannon Norris-Parish*

Plugging into a new age: the impact of social media use on undergraduate students’ perceptions of production agriculture and consumer decisions – *Shannon K. Allen, Josey M. Webb, Allyson K. Moore, Carley C. Morrison, Stephanie M. Lemley, OP McCubbins, & Marina D. Denny*

From down on the farm to Disney+: A content analysis of The Hatcher Family Dairy – *Julia Knaggs, Schelby Beach, Emily Buck, & Annie Specht*

Until we meet again: An analysis of social media fair cancellation posts during the COVID-19 pandemic – *Kelsi Opat, Olivia Robinson, & Claire Eggerman*

Put A Pin In It: Teaching Entomology Using a Virtual Online Pinning Lab – *Fisher EasleySmith, Shannon Norris-Parish, Don Edgar, Scott Bundy, Barbara Chamberlin, Matheus Cezarotto, Pamela Martinez, & Amy Muise*

Have You Herd?: Beef Producer Communication Preferences Regarding Print Magazines – *Megan Underwood, Katie Starzec, Nellie Hill, & Robert Weaver*

Understanding Communication and Information Needs of U.S. Wheat Industry Professionals Using Q Methodology – *Morgan L. Orem, Holli R. Leggette, Maureen Victoria, Jamie Foster, & Jean A. Parrella*

A Qualitative Look at Factors Affecting Persuasive Messaging about Adopting Conservation Easements – *Shane White, Jefferson Miller, Caitlin Cooper, & Lauren Gwaltney*

Landowners' Perceptions of Conservation Easements: Implications for Effective Persuasive Communication – *Caitlin Cooper, Jefferson D. Miller, Lauren Gwaltney, & Shane White*

Let's Talk it Out: Exploring Moment-to-Moment Reactions to Scientific Information By Community Type – *Kylie Farmer, Laura Fischer, Ginger Orton, Shayne White, McKenna Pavelock, Skylar Elmore, & Katelynn Horton*

Taking to TikTok: A Content Analysis on the Dissemination of Beef Production Information on TikTok – *Creigh Rourke & Nellie Hill*

Examining the Demographic Characteristics of Interpersonal Communication Channels for an Extension Health Promotion Project – *Catherine E. Sanders, Kristin E. Gibson, Tatevik Markosyan, & Alexa J. Lamm*

Dialing In On Trust: A Moment-to-Moment Analysis of Reactions To a Scientific Debate – *McKenna Pavelock, Laura Fischer, Ginger Orton, Kylie Farmer, Skylar Elmore, & Katelynn Horton*

Shopping for Information? Exploring Consumer Political Ideology and Local Food Online Shopping Design – *Catherine E. Sanders, Rachel E. Corry, Kristin E. Gibson, Alexa J. Lamm, & Jessica Holt*

The urban and rural divide: An exploration of how varying community types support climate change policy – *D'arcy Ryder, Laura Fischer, Ginger Orton, & Cara Lawson*

Can Cooperative Extension Compete with Consumer Horticulture Social Media Pages? – *Brooklyn Evans, Scarlett Kingsley, Justin Quetone Moss, Lauren Lewis Cline, & Audrey E. H. King*

Examining Recall of Protective Action Content in Graphical Tornado Warning Messages – *Ginger Orton, Laura Fischer, Jeanette Sutton, & David Huntsman*

A Deep Divide: Differences in Rural and Urban Americans' Trust of Scientists – *Ginger Orton, Laura Fischer, Cheng-Xian Yang, & Lauri M. Baker*

Rewriting the Rural Narrative: A Quantitative Media Analysis of Media Regarding Rural Oklahoma – *Anthony C. Caruso, Audrey E. H. King, & Lauren Lewis Cline*

Exploring the Use of Creativity Exercises to Promote Creative Thinking Among Agricultural Communications Students – *Kristine Schechinger & Courtney Gibson*

Encouraging Water Protection Through Donation: Water Conservation Donation Behaviors in Relation to Specialty License Plates – *Olivia M. Erskine, Kristin E. Gibson, & Alexa J. Lamm*

Capturing Credible Communication: Using Focus Groups with Perception Analyzer Dials to Understand the Credibility of Different Video Types – *Arati Joshi, Aly Morrison, Lauri M. Baker,*

Ashley McLeod-Morin, Phillip Stokes, Sydney Honeycutt, Sandra Anderson, Angie Lindsey, Cheng-Xian Yang, Anissa Zagonel, & Ricky W. Telg

Water Conservation and the Politically Polarized Audience: Examining Audience Segmentation through the 2020 U.S. Presidential Election – Authors

A Qualitative Analysis of Blogger Perceptions and Experiences in the Protein Industry – Karli Yarber, Jefferson Miller, Kylie Hackworth, Jill Rucker, & Cassandra Cox

Communicating During a Crisis: A Case Study Evaluating Research-Based Outreach During the COVID-19 Pandemic – Ashley McLeod-Morin, Anissa Zagonel, Sandra Anderson, Sydney Honeycutt, Phillip Stokes, Lauri M. Baker, Angela Lindsey, & Ricky Telg

The Purpose of Junior Livestock Exhibition Related Podcasts – Samantha Morris, Linnea Langusch, Dwayne Cartmell, & Shelly Legg

State Residents Local Food Perceptions, Interpretations, and Sources of Info – Amy Wampler, Quisto Settle, Joy Rumble, & Taylor Ruth

Digital Presence of Central [State] farms – Clare Hancock & James Lindner

INNOVATIVE POSTERS

Communicating with Virtual Learning: Redesigning Food Safety Educational Modules for High School Audiences – Sophia Flores, Shannon Norris-Parish, Tom Dean, Marshal Wilson, Emily Russell, Robert Silver, & Janet Witte

It's Not a Facade: Effective Storytelling is Key to Science Communication – Sarah Harris & Shannon Norris-Parish

Muddy Waters: Leveraging Storytelling to Teach Water Issues in the Desert Southwest – Kathryn Petty & Shannon Norris

Myers-Briggs Type Indicator: A Resource for professional communication self-efficacy enhancement among early-career professionals – Rick D. Rudd, & Cris L. Thompson

Connecting Communication Theory to Practice through Podcasts – Karli Yarber & Jefferson Miller

National Agricultural Communications Symposium Executive Team

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Texas Tech University

Conference Agenda

Southern Agricultural Economics Association (SAEA) 55th Annual Meeting

Date: Saturday, 04/Feb/2023

6:00pm - 8:00pm

Quiz Bowl Orientation
Location: **Automobile Alley C**

Date: Sunday, 05/Feb/2023

- | | |
|-------------------------|--|
| 8:00am - 12:00pm | Quiz Bowl Break/Recruitment Fair
Location: Five Moons Prefunction |
| 9:00am - 2:00pm | SAEA Executive Council Meeting
Location: Myriad |
| 9:00am - 4:00pm | Quiz Bowl Competition
Location: Automobile Alley A - C |
| 12:00pm - 4:00pm | Registration: Registration
Location: North Prefunction |
| 2:00pm - 3:30pm | Graduate Students Networking Reception
Location: Five Moons 8 |
| 2:00pm - 4:00pm | Department Heads' Meeting
Location: Myriad |
| 4:00pm | SAAS General Business Meeting
Location: Oklahoma Station 3 |
| 5:00pm | SAAS Opening Social
Location: Scissortail/OK Station Prefunction
Dinner on your own. |

Date: Monday, 06/Feb/2023

- 7:00am - 5:00pm** **Registration - Monday**
Location: **North Prefunction**
- 8:00am - 12:00pm** **Quiz Bowl Competition**
Location: **Automobile Alley A - C**
- 8:00am - 4:00pm** **Quiz Bowl Break / Recruitment Fair**
Location: **Five Moons Prefunction**
- 8:30am - 9:30am** **SAEA Past Presidents Forum**
Location: **Myriad**
- 8:30am - 10:00am** **JMP: Job Market Paper Competition**
Location: **Five Moons 5**

"How Disparate Government Support for Crops and Livestock Influences Cropland and Pastureland Values"

James D. Davis, Michael K. Adjemian

Department of Agricultural and Applied Economics, University of Georgia, U.S.; jdd92655@uga.edu

Social Stigma and Subsequent Competitive Behavior

Natalia Isabel Valdez Gonzalez

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

Mean Reversion Is Misleading: Estimating the Effect of a CSA Voucher Program on Short-Run Diet-Related Medical Expenditures

Saber Feizy, Steven Buck, Jairus Rossi, Timothy Woods, Shuoli Zhao

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

8:30am - 10:00am **OS01: After the Renewable Fuel Standard 2022: Bioenergy Crop Demands, Agricultural Production, and Agroecosystem Services**

Location: **Oklahoma Station 2**

Session Chair: **Seong Yun**, Mississippi State University

After the Renewable Fuel Standard 2022: Bioenergy Crop Demands, Agricultural Production, and Agroecosystem Services

Seong Yun¹, Edward Yu², Matthew Interis¹, Tongtong Li²

¹Mississippi State University; ²University of Tennessee, Knoxville; seong.yun@msstate.edu

8:30am - 10:00am **OS02: 2023 Southern Crops Economic Outlook**

Location: **Oklahoma Station 3**

Session Chair: **Justin R Benavidez**, Texas A&M AgriLife Extension

Session Chair: **Francisco Abello**, Texas A&M AgriLife Extension

2023 Southern Crops Economic Outlook

Francisco Abello¹, Justin Benavidez¹, Todd Davis¹, Will Maples², Yangxuan Liu³, Wendiam Sawadgo⁴, Aaron Smith⁵, Hunter Biram⁶, Alicia Rihn⁵, Elizabeth Canales²

¹Texas A&M AgriLife Extension; ²Mississippi State University; ³University of Georgia; ⁴Auburn University; ⁵University of Tennessee; ⁶University of Arkansas; fjabello@tamu.edu

8:30am - 10:00am **SP01: Environment & Climate 1**

Location: **Five Moons 8**

Session Chair: **Fan Yang**, Sichuan University

Session Chair: **Tatiana Borisova**, Economic Research Service, ERS

The Role of Carbon Credit on Farmers' Adoption of Climate-Smart Practices in South Dakota

Stephen Cheye, Tong Wang

South Dakota State University, United States of America; Stephen.Cheye@jacks.sdstate.edu

Cover crop non-linear effects on yield resilience to extreme wet and dry weather events

Lawson Connor¹, **Rajan Dhakal**²

¹University of Arkansas; ²Louisiana State University; lconnor@uark.edu

Drought Effects on the Aggregate Economic indicators of US Farm Sector

Tatiana Borisova, **Noah Miller**, **Tia McDonald**, **Clayton Michaud**, **Jonathan Law**

Economic Research Service, ERS, United States of America; tatiana.borisova@usda.gov

USING EYE TRACKING AND EXPERIMENTS TO TEST THE EFFECTIVENESS OF COASTAL FLOODING DECISION SUPPORT SYSTEM: THE IMPORTANCE OF EXPERTISE

Suraj Gurung¹, **Kent Messer**², **Daniel J. Leathers**²

¹University of Florida, United States of America; ²University of Delaware, United States of America; surajgurung@ufl.edu

The implication of carbon market in the US dairy sector

Yuhong Lei

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

Comparing the Economic Efficiency of Payment Structures to Subsidize Carbon Sequestration in the United States Corn Belt

David Robert Mansfield

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

8:30am - 10:00am

SP02: Food Security & Nutrition 1

Location: **Bricktown**

Session Chair: **Carlos Carpio**, Texas Tech

Session Chair: **Samuel Lockhart Priestley**, Texas A&M University

Using Psychographic Data to Study Differences in Food Purchase Behavior Across Income Groups

Samuel Lockhart Priestley, **Pourya Valizadeh**, **Yong Liu**

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

A Comprehensive Study of Raw Sweetener Consumption: Bodyweight Consequences and Policy Implications

Vardges Hovhannisyan¹, **Stephen Devadoss**²

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

Do environmental awareness and food safety nudges enhance the affinity to safer food consumption among youth? Findings from a choice experiment in Nepal

Aditya Raj Khanal¹, **Ram Hari Timilsina**², **Saroj Poudel**³

¹Tennessee State University, United States of America; ²Agriculture and Forestry University, Nepal;

³Sahavagi, Nepal; akhanal1@tnstate.edu

Determinants of Consumption of Different Food Forms: An NHANES Based Study

Suraksha Baral, **Dr. William Secor**

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

Voter Evaluations Regarding the Tradeoffs between Water Quality and Food Production

Marceline Azem¹, Richard T Melstrom¹, Trey Malone²

¹Loyola University Chicago, United States of America; ²University of Arkansas, United States of America; rmelstrom@luc.edu

8:30am - 10:00am

SP03: Forage & Grazing

Location: **Paseo**

Session Chair: **Kent Forrest Kovacs**, University of Arkansas

The positive externalities of conjunctive management of groundwater and runoff recycling for irrigation in the Delta of Mississippi

Nicolas Efrain Quintana Ashwell^{2,1}, Drew M Gholson^{2,3}

¹Agricultural Economics, Mississippi State University, United States of America; ²National Center for Alluvial Aquifer Research, Mississippi State University, United States of America; ³Plant and Soil Sciences, Mississippi State University, United States of America; n.quintana@msstate.edu

Economic Feasibility & Soil Health Implications of Alternative Nutrient Management Strategies on Nutritive Value and Productivity of Annual Warm-Season Forages

IvaNelle Mey¹, Christine Nieman², Michael Popp¹, Ken Coffey¹

¹University of Arkansas, United States of America; ²USDA Agricultural Research Service, Dale Bumpers Small Farms Research Center, Booneville, AR; istubbs@uark.edu

Economic Feasibility of Grazing Stocker Cattle on Bermudagrass, or Sod-Seeded Sorghum Sudangrass With or Without Cowpea

IvaNelle Meyer¹, Christine Nieman², Michael Popp¹, Ken Coffey¹

¹University of Arkansas, United States of America; ²USDA Agricultural Research Service, Dale Bumpers Small Farms Research Center, Booneville, AR; istubbs@uark.edu

Utilizing observational field-level data to estimate yield penalties and profit potential from plant and harvest timing in Arkansas

Kaitlyn Nicole Urban, Terry Griffin, Bill Robertson

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

The substitution between natural capital and other capital: Evidence from a hedonic analysis of groundwater in Arkansas

Kent Forrest Kovacs, Shelby Rider

University of Arkansas, United States of America; kovacs.kent@gmail.com

The Role of Peer Irrigators on the Use and Share of an Irrigated Farm in Irrigation Practices in the Arkansas Delta

Kent Forrest Kovacs

University of Arkansas, United States of America; kovacs.kent@gmail.com

10:00am - 10:15am

Break 1

10:15am - 11:45am

OS03: Introduction to Machine Learning Techniques & Its Application in Business Settings for Applied Economics Graduates – A Workshop

Location: **Five Moons 5**

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

Introduction to Machine Learning Techniques & Its Application in Business Settings for Applied Economics Graduates – A Workshop

Krishna Paudel

USDA ERS, United States of America; krishna.paudel@usda.gov

10:15am - 11:45am **OS04: Preparing for a Career in Extension**
Location: **Oklahoma Station 3**
Session Chair: **Justin R Benavidez**, Texas A&M AgriLife Extension

Preparing for a Career in Extension

Jordan M. Shockley¹, Justin Benavidez²

¹University of Kentucky, United States of America; ²Texas A&M University, United States of America;
jordan.shockley@uky.edu

10:15am - 11:45am **OS05: Creative Classroom Management to Improve Learning Outcomes and Engagement**
Location: **Oklahoma Station 2**
Session Chair: **Jeremy Ross Pruitt**, University of Tennessee at Martin

Creative Classroom Management to Improve Learning Outcomes and Engagement

Hannah Shear¹, J. Ross Pruitt², Misti Sharp³

¹Oklahoma State University; ²University of Tennessee at Martin, United States of America; ³University of Florida; hshear@okstate.edu

10:15am - 11:45am **SP04: International Trade & Development 1**
Location: **Five Moons 8**
Session Chair: **Stephen Devadoss**, Texas Tech University
Session Chair: **Joao Ferreira**, University of Florida

Consequences of Chinese Tariff and U.S. MFP Payments on World Soybean-Complex Markets

Stephen Devadoss¹, Andrii Baryshpolets², Ethan Sabala³

¹Texas Tech University, United States of America; ²PriceWaterhouseCoopers; ³ERS, USDA;
stephen.devadoss@ttu.edu

What is on the menu? Comparing the value chain of restaurants and bars across the world.

Joao Ferreira

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

Does Cellphone Banking Change Lives? Fintech, Poverty, and Remittances in Kenya

Derick Taylor Adu¹, Valentina Hartarska²

¹Auburn University, United States of America; ²Auburn University, United States of America;
dta0009@auburn.edu

Revisiting the Impact of Export Diversification on Economic Growth in Sub-Saharan Africa

Derick Taylor Adu¹, Henry Thompson², Valentina Hartarska³

¹Auburn University, United States of America; ²Auburn University, United States of America; ³Auburn University, United States of America; dta0009@auburn.edu

Consumer Likelihood of Purchasing Fortified Products in India

Ramanjeet Singh Toor, GwanSeon Kim, Jacob Manlove

Arkansas State University, United States of America; ramanjeet.toor@smail.astate.edu

To determine if Large Export Sales Reports move commodity market prices

Andrew M McKenzie, William Johnson

University of Arkansas, United States of America; wci006@uark.edu

Trends and Structure of Global Wood Furniture

Noel Perceval Assogba¹, Daowei Zhang²

¹University of Tennessee, United States of America; ²Auburn University, United States of America; nassogba@utk.edu

10:15am - 11:45am

SP05: Food & Ag Marketing 1

Location: **Bricktown**

Session Chair: **Zgifeng Gao**, University of Florida

Effect of Pandemics on Consumer Food Purchase and Food Security

Sushil Chandra Sapkota, Ram N. Acharya

New Mexico State University; sushilsa@nmsu.edu

Do Consumers Only Look for Environmental Sustainability: Insight from US Consumers

Md Azhar Uddin, Zhifeng Gao

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

Consumer Perceptions of Hazard Labeling Formats in Pesticides - An Eye-Tracking Experiment

Marco Palma¹, Michelle Segovia², Theodoros Skevas³, Shuoli Zhao⁴

¹University of Kentucky, United States of America; ²University of Missouri - Columbia, United States of America; ³University of Missouri - Columbia, United States of America; ⁴Texas A&M University, United States of America; szhao@uky.edu

Consumer Preferences for Gene editing – Influence of Risk and Behavioral Traits

Glory Esohe Okpiaifo¹, Bachir Kassas¹, John Lai¹, Lisa House¹, Rudy Nayga²

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

Voluntary Certification Decision for Labeling: Evidence from the Non-GMO Verification Program

Shuoli Zhao¹, Keehyun Lee², Yuqing Zheng³

¹University of Kentucky, United States of America; ²University of Kentucky, United States of America; ³University of Kentucky, United States of America; khlee0921@uky.edu

Do Consumers Perceive Organic Foods as Less Caloric than Regular Foods? A Behavioral Study of the Organic Health Halo Effect

Ogoudele Simon Codjo¹, Bachir Kassas¹, Hayk Khachatryan¹, Rodolfo M. Nayga Jr.²

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

Do sustainability standards affect consumers WTP? The case of Ghanaian rice

Vera Adabrah-Danquah, Alvaro Durand-Morat, Lawton Lanier Nalley

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

10:15am - 11:45am

SP06: Specialty Crop Marketing

Location: **Paseo**

Session Chair: **Brandon R. McFadden**, University of Arkansas

Session Chair: **Samuel D. Zapata**, Texas A&M University

Understanding Wine Producer Characteristics in Armenia

Gnel Gabrielyan¹, Sona Khojoyan², Aida Grigoryan²

¹Auburn University, United States of America; ²ICARE Armenia; gzg0039@auburn.edu

Preferences among Crafters for Craft Kits with Alligator Hide

Chen Qing^{1,2}, Jerrod Penn¹, Casey Stannard³, J. Matthew Fannin¹

¹Department of Agricultural Economics and Agribusiness, Louisiana State University and LSU Agricultural Center; ²College of Management, Sichuan Agricultural University; ³Department of Textiles, Apparel Design, and Merchandising, Louisiana State University and A&M College;
CQing@agcenter.lsu.edu

The highs and lows of profitability and sustainability for strawberries grown via large-scale controlled environment agriculture

Savannah Lynn Columbia

Agricultural Economics Department, University of Kentucky; savannah.columbia@uky.edu

Using a Choice Experiment to Measure Consumer Confusion about CBD Oil

Brandon R. McFadden¹, Benjamin Campbell², Adam Rabinowitz³, Tyler Mark⁴

¹University of Arkansas; ²University of Georgia; ³Auburn University; ⁴University of Kentucky;
mcfadden@uark.edu

Using sensory analysis and contingent valuation to assess the Willingness to Pay for fresh tomatoes attributes

Xavier Villavicencio, Samuel Zapata

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

Consumer Preferences for Flatheaded Borer Control Measures in Maple Trees, Blueberry Bushes, Apples, and Blueberries

Alicia Rihn, Samuel Gerloff

University of Tennessee, United States of America; sgerlof1@vols.utk.edu

10:15am - 11:45am

SP07: Meat Marketing

Location: **Myriad**

Session Chair: **Senarath Dharmasena**, Texas A&M University

Complex Interactions of Variables Associated with Bone-in and Boneless Ham Price Differential and the Impact on U.S. Pork Exports to Mexico

Hannah Hawkins, Senarath Dharmasena, David Anderson

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

Consumers' Reference Dependency in Labeling: Evidence from Plant-Based Meat Alternatives

Shuoli Zhao¹, Saber Feizy², Wenying Li³

¹University of Kentucky, United States of America; ²University of Kentucky, United States of America; ³Auburn University, United States of America; Saberfeizy@uky.edu

Do consumers' attitudes to ecolabel really matter? Evidence from "dolphin-safe" tunas

Yingkai Fang¹, Lingxiao Wang²

¹University of Arkansas at Pine Bluff; ²University of Wisconsin-Madison; lingxiao.wang@wisc.edu

The Impacts of Covid-19 on the U.S. Meat Industry. A Price Transmission Analysis

Osei Yeboah, Shaik Saleem, Alice Konadu Brenya

North Carolina Agricultural and Technical State University, United States of America;
akbrenya@aggies.ncat.edu

U.S. Retail Meat Prices: Implications of Implementing Scanner Data in Analyses

Jaime R. Luke¹, Glynn T. Tonsor¹, Ted C. Schroeder¹, LaPorchia A. Collins², Danielle Ufer²

¹Kansas State University, United States of America; ²USDA Economic Research Service (ERS);
irluke@ksu.edu

Predicting Seedstock Bull Prices: Does Information Matter?

Seth Huskey Ingram¹, Charley C.. Martinez¹, Christopher N. Boyer¹, Samir Huseynov², Troy N. Rowan¹, Mykel R. Taylor², Elmin Alizada²

¹University of Tennessee, United States of America; ²Auburn University, United States of America;
singra13@vols.utk.edu

Profitability of Differing Genetic Combinations in Wagyu-Influenced Cattle

Grace Avalon Baxter, Kellie Curry Raper

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

12:00pm - 12:45pm

55th SAEA Annual Meeting Luncheon

Location: **Oklahoma Station 4/5**

12:45pm - 1:30pm

Break 2

1:30pm - 3:00pm

3MT: 3 Minute Thesis Competition

Location: **Five Moons 5**

Predicting Seedstock Bull Prices: Does Information Matter?

Seth Huskey Ingram¹, Charley C.. Martinez¹, Christopher N. Boyer¹, Samir Huseynov², Troy N. Rowan¹, Mykel R. Taylor², Elmin Alizada²

¹University of Tennessee, United States of America; ²Auburn University, United States of America;
singra13@vols.utk.edu

A Breakeven Analysis of a Crop and Livestock Insurance Enterprise Internal to an Agricultural Lender

Jenna Rose Bryant, Eric DeVuyst

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

Precision Application of Nitrogen: Making the Economics Work

George Coleman Patterson¹, Barton Wade Brorsen², Emerson Dale Nafziger³

¹Oklahoma State University, United States of America; ²Oklahoma State University, United States of America; ³University of Illinois, United States of America; george.patterson10@okstate.edu

Reducing Recycling Contamination Using an Information Nudge

Mimi Rivette, Jerrod Penn

Louisiana State University, United States of America; mrivet3@lsu.edu

Comparing the Economic Efficiency of Payment Structures to Subsidize Carbon Sequestration in the United States Corn Belt

David Robert Mansfield

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

Analyzing Fortified Products in India: Evidence from Heckman Selection Model

Ramanjeet Singh Toor, GwanSeon Kim, Jacob Manlove

Arkansas State University, United States of America; ramanjee.toor@smail.astate.edu

Utilizing observational field-level data to estimate yield penalties and profit potential from plant and harvest timing in Arkansas

Kaitlyn Nicole Urban

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

Targeting Prime with Wagyu Genetics

Grace Avalon Baxter

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

Factors Affecting Respiratory Vaccination of Beef Calves in Oklahoma

Kristina Marie Harwell, Amy D. Hargerman, Kellie Curry Raper, Hannah E. Shear

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

The Role of Carbon Credit on Farmers' Adoption of Climate-Smart Practices in South Dakota

Stephen Cheve, Tong Wang

South Dakota State University, United States of America; Stephen.Cheve@jacks.sdstate.edu

Assessment of economic returns and farmers adaptation decision of production of mung bean

Satya Tiwari, Prabodh Illukpitiya

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

Designing smart contracts: Examining food buyers' willingness to participate in blockchain system

Devashish Bhandari, Prabodh Illukpitiya

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

1:30pm - 3:00pm

OS06: The Oklahoma Cattle Industry: Legacy and Future

Location: **Oklahoma Station 3**

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

The Oklahoma Cattle Industry: Legacy and Future

Derrell S. Peel, Kellie Curry Raper

Oklahoma State University; derrell.peel@okstate.edu

1:30pm - 3:00pm

OS07: Commercial Poultry in the US – Opportunities and Concerns for Southern Contract Growers

Location: **Oklahoma Station 2**

Session Chair: **Adam Rabinowitz**, Auburn

Commercial Poultry in the US – Opportunities and Concerns for Southern Contract Growers

Dennis Brothers¹, Paul Goeringer², Jada Thompson³, Adam Rabinowitz⁴

¹Auburn University; ²University of Maryland; ³University of Arkansas; ⁴Auburn University;
brothers@auburn.edu

1:30pm - 3:00pm

Quiz Bowl Winners vs Legends

Location: **Automobile Alley C**

1:30pm - 3:00pm

SP08: Management & Risk

Location: **Pinon**

Comparative Period Analysis of Banks' Risk-Taking Behaviors between the Late 2000s and Impending Pandemic-Induced Economic Recession under a Difference-in-Difference Modeling Framework

Maoyong Zheng, Cesar L. Escalante

UNIVERSITY OF GEORGIA, United States of America; mz06144@uga.edu

Determinants of Land Ownership and Lease Choice: Causal Inference using Machine Learning

Roshan Saha, Mykel Taylor, Wenying Li, Kai Ling

Auburn University, United States of America; rzs0133@auburn.edu

Economic Loss of Cross-Pollination in Kentucky Hemp

Hoyeon Jeong¹, Buddhika Patalee¹, Tyler Mark¹, Daniel Mooney², Ming Wang²

¹University of Kentucky, United States of America; ²Colorado State University, United States of America; hje238@uky.edu

Variable rate technology adoption by specialty crop growers in Florida

Kelvin Kofi Koteyfio Amon, Tara Wade

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

Social Comparison and Risk-Taking in Agricultural Production

Wanqi Liang¹, Samir Huseynov², Fariz Huseynov³

¹Huazhong Agricultural University, China; ²Auburn University, US; ³North Dakota State University, US; wanqiliang12@qq.com

Cyclical Investing with Agribusiness Firms

Junior Enrrique Betanco Gunera, Hector O. Zapata

Louisiana State University, United States of America; jbetan4@lsu.edu

The price relationship between the U.S. soybean oil, biodiesel, biodiesel RIN, and diesel

Suhwan Lee, Jarrett Whistance, Wyatt Thompson

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

1:30pm - 3:00pm

SP09: Local Foods & Economies

Location: **Five Moons 8**

Session Chair: **Favour Ekeleoseya Esene**, University of Kentucky

Session Chair: **Ekene Aguegboh**, Auburn University

Willingness-to-Pay for Beef from Local Sources over Supermarket Outlets

Ekene Aguegboh, Adam Rabinowitz, Wendiam Sawadgo, Samir Huseynov

Auburn University, United States of America; esa0013@auburn.edu

Consumer Willingness to Pay for Locally Sourced Dairy Value Products in Kentucky Using Various Definitions of Local

Favour Esene¹, Timothy Woods², Shuoli Zhao³

¹University of Kentucky; ²University of Kentucky; ³University of Kentucky; favour.esene@uky.edu

The impact of government tax credit policy on the local food environment

Ummey Honey, Joel Cuffey

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

Valuation of Oyster Reef Restoration along the Gulf Coast

Freedom Enyetoranye¹, Daniel Petrolia¹, Seong Do Yun¹, Zhenshan Chen²

¹Mississippi State University, United States of America; ²Virginia Tech, United States of America; fe103@msstate.edu

Where Do Growers of Local Fresh Produce Sell? A Systematic Review

Hunter Maxwell Groves, Jean Dominique Gumirakiza

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

The Importance – Or Lack Thereof – of “Localness” for Farmed versus Wild-Caught Seafood in the United States

Trey Malone¹, Richard T. Melstrom², Jack Myers¹, Courtney Fay Cooper¹, Eric Abaidoo³

¹Department of Agricultural Economics and Agribusiness, University of Arkansas, Fayetteville; ²Institute of Environmental Sustainability, Loyola University, Chicago; ³Department of Agricultural, Food, and Resource Economics, Michigan State University; tmalone@uark.edu

The Recreational Value of Grasslands in the Tallgrass Prairie Region of the United States

Kaylee Katherine Wells

University of Illinois at Urbana-Champaign, United States of America; kwells2@illinois.edu

1:30pm - 3:00pm

SP10: Food & Ag Marketing 2

Location: **Bricktown**

Session Chair: **Charles Canuto Martinez**, University of Tennessee

Session Chair: **Shuoli Zhao**, University of Kentucky

The Economics of Multi-Labeling in the Food Industry: Evidence from Certified Organic and Non-GMO Labels

Lingxiao Wang¹, Shuoli Zhao², Wenyong Li³, Yuqing Zheng²

¹University of Wisconsin-Madison, United States of America; ²University of Kentucky; ³Auburn University; lingxiao.wang@wisc.edu

Substitution Effects of Carbon Emission Labeling

Sara Gardner¹, Brandon R. McFadden¹, Lanier Nalley¹, Alvaro Durand-Morat¹, Aaron Shew², Rudy Nayga³

¹University of Arkansas; ²AcreTrader; ³Texas A&M University; sg061@uark.edu

Testing the Effectiveness of Lottery Incentives in Online Experiments: An Application to Criollo Meat

Amelia Ahles¹, Marco A. Palma¹, Andreas C. Drichoutis²

¹Texas A&M University; ²Agricultural University of Athens; aaahles@tamu.edu

My WTP versus Other WTP: Assessing consumers' willingness to pay for potting mix made from Eastern Red Cedar biochar

Pratikshya Silwal, Bailey Norwood, Dayton Lambert

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

Price Determinants of Graded Feeder Cattle Sale

Savannah Taylor Jones, Christopher N. Boyer, Charles Martinez

The University of Tennessee Knoxville; savtjone@vols.utk.edu

Price Determinants of Bred Heifers: Do Reputations Matter?

Allan Pinto

KSU, United States of America; apinto@ksu.edu

1:30pm - 3:00pm

SP11: Natural Resource Economics

Location: **Paseo**

Session Chair: **Daniel Petrolia**, Mississippi State University

Landowner' Preference for Sustainable Forest Management in the Cross-Timbers Region

Haotian Cheng¹, **Omkar Joshi**², **Andres Susaeta**³, **José Soto**¹, **Parag Kadam**²

¹the University of Arizona; ²Oklahoma State University; ³Oregon State University;
haotiancheng@arizona.edu

Estimating Household Willingness to Pay to install a Community Sewage System to Improve Water Quality in Bayou Lafourche

Daniel William Harris¹, **Jerrod Penn**²

¹Louisiana State University, United States of America; ²Louisiana State University Ag Center;
brdwh22@gmail.com

Producers' Willingness to Accept Incentive Payments for Adopting Nutrient and Irrigation Best Management Practices

Fei He¹, **John Lai**¹, **Christa Court**¹, **Tatiana Borisova**², **Kevin Athearn**³

¹Food and Resource Economics Department, University of Florida, Gainesville, FL, USA; ²Farm Economy Branch, Resource and Rural Economics Division, Economic Research Service, US Department of Agriculture, Washington DC, USA; ³North Florida Research & Education Center - Suwannee Valley, University of Florida, Live Oak, USA; johnlai@ufl.edu

Individual Transferable Quota as an Investment: A Case Study of the Gulf of Mexico Red Snapper and Grouper-Tilefish IFQ Programs

Andrew Ropicki, **Jaelyn Kropp**

University of Florida; aropicki@ufl.edu

Regional Economic Impacts of Enterococcus in Mississippi

Jessica Browne¹, **Ayoung Kim**¹, **Seong Yun**¹, **Daniel Petrolia**¹, **Melissa Partyka**²

¹Mississippi State University, United States of America; ²Auburn University, United States of America;
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The Evolution of Water Rights and Institutions in the Southeastern US

Nataly Medina¹, **Mani Rouhi Rad**²

¹Clemson University; ²Texas A&M University; nataly@g.clemson.edu

Residential mobility and the value of water quality improvements in the Milwaukee Estuary Area of Concern

Emma Donnelly, **Richard Melstrom**

Loyola University of Chicago, United States of America; edonnelly4@luc.edu

1:30pm - 3:00pm

SP12: Environment & Climate 2

Location: **Myriad**

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

Managing Energy Futures of Groundwater Irrigation in India

Kuhelika Ghosh¹, **Alok Sikka**², **Mohammad Faiz Alam**², **Shilp Verma**²

¹University of Georgia, United States of America; ²International Water Management Institute, India;
Kuhelika.Ghosh@uga.edu

Prescribed Grazing and Greenhouse Gas Emission Reduction

Edwin Coleman, **Dayton Lambert**, **Bailey Norwood**

OKLAHOMA STATE UNIVERSITY, United States of America; edcolem@okstate.edu

Producer Perceptions of Climate Change and Their Willingness to Adopt Climate-smart Practice: A Case in Missouri

Rui Chen¹, **Ye Su**², **Lan Tran**³

¹Tuskegee University, United States of America; ²Lincoln University; ³University of Missouri-Columbia;
rchen@tuskegee.edu

Irrigation offsets wheat yield reductions from extreme heat in Pakistan

Abdur Rub, **Jesse Tack**, **Andrew Barkley**

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

Perceptions and Farmers' Willingness to Accept Carbon Payments

Pramisha Thapaliya¹, **Deepthi Kolady**¹, **Marzieh Motallebi**², **Mustapha Alhassan**²

¹South Dakota State University, United States of America; ²Clemson University;
Pramisha.Thapaliya@jacks.sdstate.edu

The Economic Impacts of Labor Migration on Climate Change Adaptation, Technology Adoption and Agricultural Profitability in Nepal during the COVID-19 Pandemic

Amrit Shrestha¹, **Sreedhar Upendram**¹, **Seong-Hoon Cho**¹, **Neelam Poudyal**²

¹Department of Agricultural and Resource Economics, University of Tennessee, Knoxville, Tennessee, USA; ²Department of Forestry, Wildlife and Fisheries, University of Tennessee, Knoxville, Tennessee, USA; ashrest3@vols.utk.edu

Climate change and child health outcomes in South Asian region

Prayash Pathak Chalise, **Genti Kostandini**

The University of Georgia, United States of America; pp77398@uga.edu

1:30pm - 3:00pm

SP13: International Trade & Development 2

Location: **Deep Dunce**

Session Chair: **Bhishma Raj Dahal**, University of Tennessee-Knoxville

Measuring Resilience in the Agrifood Supply Chains

Carlos Carpio, **Manuel Garcia**, **Tullaya Boonsaeng**

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

The Global Rise of a Protein: 50 Years of Heterogenous Poultry Production Changes

Elsbeth Hamilton, **Jada Thompson**

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

Stringent GE Regulations and U.S. Trade in GE Processed Animal Products: A Gravity Modeling Approach

Osei Yeboah, **Saleem Shaik**, **Nicholas Mensah Amoah**

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

Impact of COVID-19 on the Brazilian Ethanol Market

Yuri Calil¹, Henrique Carvalho²

¹Texas A&M University, United States of America; ²Federal University of Itajuba, Brazil;
yuri.calil@ag.tamu.edu

Restaurant Willingness to Purchase Rwandan Broiler Chicken Relative to Indigenous Breeds: Evidence from Kigali

Bhishma Raj Dahal¹, Karen L. DeLong¹, Andrew Muhammad¹, Mikayla Prince¹, Regis Nisengwe², Hans S Goertz², Tom Gill²

¹University of Tennessee-Knoxville, United States of America; ²Smith International Centre, University of Tennessee, Knoxville; bdahal1@vols.utk.edu

Impacts of the Trade War on U.S. Wooden Furniture Imports

Bowen Jiang, Andrew Muhammad

University of Tennessee, Knoxville, United States of America; bjiang12@vols.utk.edu

3:00pm - 3:30pm

Break 3

3:30pm - 5:00pm

OS08: Automation, Mechanization & Artificial Intelligence: Challenges and Opportunities for Agribusinesses.

Location: **Five Moons 5**

Session Chair: **Thanos Gentimis**, Louisiana State University Agricultural Center

Automation, Mechanization & Artificial Intelligence: Challenges and Opportunities for Agribusinesses.

Maria Bampasidou¹, Thanos Gentimis¹, Jeb Fields¹, Stephen Devadoss², Jeff Vitale³, Jonathan McFadden⁴

¹Louisiana State University, United States of America; ²Texas Tech University; ³Oklahoma State University; ⁴USDA ERS; mbampasidou@agcenter.lsu.edu, tgentimis@agcenter.lsu.edu, jfields@agcenter.lsu.edu, stephen.devadoss@ttu.edu, jeffrey.vitale@okstate.edu, jonathan.mcfadden@usda.gov

3:30pm - 5:00pm

OS09: Russia war on Ukraine and impacts on Ukraine Agriculture, US and Global Markets and Food Security

Location: **Oklahoma Station 3**

Session Chair: **Andrew Schmitz**, University of Florida

Russia war on Ukraine and impacts on Ukraine Agriculture, US and Global Markets and Food Security

William H. Meyers¹, Andrew Muhammad², Malieka T. Mordigioni³, Svetlana Synkovaka⁴, Brad Campbell⁵, Andrew Schmitz⁶

¹University of Missouri - Columbia, Missouri; ²University of Tennessee, Knoxville, Tennessee; ³University of Nevada, Reno, Nevada; ⁴AGRISS LLS, Dnipro, Ukraine; ⁵Vayda Company, Rock Port, Missouri; ⁶University of Florida, Gainesville, Florida; amuhamm4@utk.edu, maliekal@unr.edu, synkovska@gmail.com, bscampwash@yahoo.com, aschmitz@ufl.edu

3:30pm - 5:00pm

SP14: Food & Ag Marketing 3

Location: **Five Moons 8**

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

Session Chair: **Ryan Loy**, Oklahoma State University

Southern vegetable buyers preferences for cherry tomatoes based on production practice and detailed information on location of production

Vanessa P. Shonkwiler

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

Marketing Strategies at Farmers' Markets in the Post-COVID and Digital Age Era.

Clarissa Anne Mackey, Jean Dominique Gumirakiza

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

The effect of pictorials and recipes on willingness to pay for goat meat

Meri Hambaryan, John Lai, Bachir Kassas

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

Marketing Channel Selection of Small-scale Fruit and Vegetable Growers

Grace Mahamba, Michael Popp, Jennie Popp, Brooke Anderson, Trey Malone

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

Investigating Specialty Crop Farmers' Preferences for Contract Design and Attitudes Towards Blockchain-based Smart Contracts

Esther Mmenaa Agvemang-Duah¹, Elizabeth Canales¹, Alba Collart¹, Matthew Interis¹, Kathryn Boys²

¹Mississippi State University, United States of America; ²North Carolina State University, United States of America; ema222@msstate.edu

Incorporating Flavor in an Oklahoma Wheat Breeding: Does Growing Location Impact Taste?

Ryan Loy, F. Bailey Norwood, Renee Albers-Nelson

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

The Effect of Amazon Prime on Beverage Sales Ranks

Chinonso Ezenwa Etumnu

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

3:30pm - 5:00pm

SP15: Ag Policy 1

Location: **Pinon**

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

Rural veterinary shortage areas: Understanding the problem and potential policy responses

Eden Taylor, Maryfrances {Frannie} Miller

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

Price Pass-Through Comparisons of Different Blends of Soybean Biodiesel in a Southern Fuel Market

Scott Parrott, Joey Mehlhorn, Tommy Cates

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

Seed Use and Pest Management in U.S. Crop Systems in Recent Years: Corn, Cotton, Soybean and Wheat Production.

Richard Nehring, Sam Bailey, Dan Bonin, Andrew Swanson

USDA/ERS, United States of America; Richard.nehring@usda.gov

On the relationship between contract implementation lag and overall compliance

Santosh Pathak, Naveen Adusumilli

Louisiana State University, United States of America; spath11@lsu.edu

RMA projected prices and asymmetric effects on prevented planting claims

Nicolas Alvarez¹, Lawson Connor²

¹Louisiana State University; ²University of Arkansas; nalvar9@lsu.edu

Risk Assessment of Publicly Traded Biofuel Firms

Bishal Bista, Carlos O. Trejo-Pech, James A. Larson, T. Edward Yu

University of Tennessee-Knoxville, United States of America; bbista1@vols.utk.edu

The Future of Public and Private Plant Breeding

Lexie Burris¹, Lawton Lanier Nalley¹, Wei Yang¹, Jayson Lusk², Jesse Tack³

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

³Kansas State University, United States of America; lb022@uark.edu

3:30pm - 5:00pm

SP16: Teaching Communication & Extension

Location: **Oklahoma Station 2**

Session Chair: **Maryfrances (Frannie) Miller**, New Mexico State University

Session Chair: **A. Leann Westbrook**, Oklahoma State University

Who to fund? Identifying strategic collaborations and stimulative policies for dynamic research networks

Syed Fuad, Michael Farmer

Texas Tech University, United States of America; syed.m.fuad@ttu.edu

Undergraduate GPAs and COVID: Impacts and Analysis

Jonathan Andrew Tillinghast, James Mjelde, Anna Yeritsyan

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

Investigating young New Mexicans' perceptions of farming

Sawssan Boufous, Maryfrances "Frannie" Miller

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

Student Background Information: Can It Predict Success in an Agricultural Economics Graduate Program?

A. Leann Westbrook, Eric A. DeVuyst, B. Wade Brorsen, Dayton M. Lambert

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

Nonprofit Agriculture Resilience: A Case Study Analysis of Shemesh Farms & The 2018 Woolsey Fire

Andrew Brown¹, Joey Edward Mehlhorn²

¹Lee University; ²University of Tennessee at Martin, United States of America; jmehlhor@utm.edu

Rational Producers and Risk Diversification: A Case of Urban Gardening

Lila Karki¹, Prem B. Bhandari²

¹University of Maryland Eastern Shore, MD; ²Global Research Institute, MI; lkarki@umes.edu

Extension Readiness to Combat Harmful Algal Blooms; Evidence from South Carolina

George Strickland, Debabrata Sahoo

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

3:30pm - 5:00pm

SP17: Research Methods/Econometrics 1

Location: **Bricktown**

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

Tail Dependence between Investor Sentiments and Ag Commodity Markets

Raghav Goyal¹, Berna Karali²

¹Louisiana State University, United States of America; ²University of Georgia; rgoyal@agcenter.lsu.edu

Optimal transportation of broiler litter for land application as a crop nutrient source: a regional spatial optimization model

Krishna Paudel¹, Keshav Bhattarai², Bhaba Sarker³, Huizhen Niu⁴

¹USDA ERS, United States of America; ²University of Central Missouri; ³Louisiana State University; ⁴LSU Agricultural Center; krishna.paudel@usda.gov

The Effect of Agricultural Taxes on Oklahoma Land Values

Katherine Welch, Dayton M. Lambert

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

Spatial Models for Estimating Systemic Yield Risk: Corn Yield in the Corn Belt, 1951-2019

Sunjae Won¹, Barry K. Goodwin², Sujit Ghosh²

¹Auburn University; ²North Carolina State University; sunjaewon@auburn.edu

Modeling and Forecasting Crop Yield Variability in Response to Weather Information Using Quantile Random Forest Regression

Xingguo Wang, Henry Bryant, Chengcheng Fei

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

Spatial and temporal diffusion of farmland values: detecting dominant and reactive regions

Allan Pinto, Terry Griffin

KSU, United States of America; apinto@ksu.edu

Sensitivity Analysis of USDA's Farm Income Baseline Projections

Madhav Regmi

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

3:30pm - 5:00pm

SP18: Farm Management 1

Location: **Paseo**

Session Chair: **Natalie A Graff**, Texas A&M University

Relative Risk and Profitability of Hand Picking and Mechanical Harvesting of Green Chillies

Dabit Bista, Ram Acharya, Stephanie Walker

new mexico state university, United States of America; dabitraj@nmsu.edu

The Evolution and Effectiveness of Anaerobic Digesters on Dairy Farms

Catherine L. Machado, Joe L. Outlaw, Bart L. Fischer, Justin R. Benvidez, David P. Anderson

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

Recovering from Drought: Strategies for Texas Beef Cattle Producers

Natalie A. Graff, Joe L. Outlaw, Bart L. Fischer, David P. Anderson, Henry L. Bryant

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

Solar Investment Analysis: Effects of Investment Tax Credit, Electricity Rate Structure, and Financial Leverage on Profitability

Morgan King¹, **Michael Popp**¹, **Douglas Hutchings**², **John Anderson**¹

¹University of Arkansas, United States of America; ²Delta Solar, Little Rock, AR; mlk014@uark.edu

The Effect of Grain Alliances on Wheat Basis in Oklahoma

Ashley Beeler, **Dayton Lambert**, **Phil Kenkel**, **Wade Brorsen**

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

Simulating Returns to Using Sex-sorted Semen in Beef Production

Charles C. Martinez, **Christopher Boyer**, **Justin Rhinehart**

University of Tennessee, United States of America; cmart113@utk.edu

In-season Nitrogen Application Decisions for Wheat

Enoch Adom¹, **Dayton Lambert**²

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

3:30pm - 5:00pm

SP19: Food Security & Nutrition 2

Location: **Myriad**

Session Chair: **Wojciech Florkowski**, The University of Georgia

The Association between Food Security and Diet Quality by Income and Program Participation

Vikas Mishra^{1,2}, **Ariun Ishdorj**¹, **Elizabeth Tabares**^{1,2}

¹Texas A&M, United States of America; ²Norman Borlaug Institute of International Agriculture, College station, Texas, United States of America; mishra16vk@tamu.edu

The Past, Present, and Future of Ad Hoc Disaster Aid for Agriculture

Macey M. Hammerstrom, **Joe L. Outlaw**, **Bart L. Fischer**

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

Obesity prevalence and the risk factors in adolescent cohort in Turkey

Abdulkaki Bilgic¹, **Wojciech Florkowski**², **Faruk Urak**³

¹Department of Management Information Systems, College of Economics and Administrative Sciences, Bilecik Şeyh Edeballı University, Bilecik, Turkey; ²The University of Georgia, United States of America;

³Department of Agricultural Economics, College of Agriculture, Atatürk University, Erzurum, Turkey; wojciech@uga.edu

SNAP Benefit Enhancements and Household Hardship During the COVID-19 Pandemic

Xiaohan Wei, **Pourya Valizadeh**, **Rodolfo M. Nayga, Jr.**

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

Empirical Assessment of Sub-Set Probabilistic Graphical Causal Inference Models in a Complex Economic System: An Application to the United States Food Environment

Senarath Dharmasena, **Faith Abigail Parum**

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

Pouring the Paycheck Protection Program into craft beer: Employment effects of the loan program in food and beverage service industries

Aaron Staples¹, **Kristopher {Kit} Deming**¹, **Craig Carpenter**¹, **Trey Malone**²

¹Michigan State University, United States of America; ²University of Arkansas; staple71@msu.edu

3:30pm - 5:00pm

SP20: Livestock Economics

Location: **Deep Dunce**

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

Session Chair: **Amy D Hagerman**, Oklahoma State University

Factors Affecting Respiratory Vaccination of Beef Calves in Oklahoma

Kristina Marie Harwell, **Amy D. Hagerman**, **Kellie Curry Raper**, **Hannah E. Shear**

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

A Whole Different Animal: Characteristics of Fed Cattle Marketed Under Different Transaction Types

Anastasia Thayer¹, **David Anderson**², **Justin Benavidez**²

¹Clemson University, Clemson, SC; ²Texas A&M University, College Station, TX;

awthave@clemson.edu

Community Determinants of Rural Veterinarian Longevity

Andrew Van Leuven, **Courtney Bir**, **Rosslyn Biggs**

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

"Economic risk analysis and control model for bovine viral diarrhea virus in U.S. beef cow-calf production"

Bailey Samper, **Jennifer Koziol**, **Ryan Blake Williams**

Texas Tech University School of Veterinary Medicine, United States of America;

Bailey.Samper@ttu.edu

Assessing the Impact of the COVID-19 Pandemic on Feeder Cattle Prices in Northeast Texas

Kelley Smith, **Jose A Lopez**, **Bob Williams**, **Rafael Bakhtavoryan**

Texas A&M University-Commerce, United States of America; Jose.Lopez@tamuc.edu

5:15pm - 7:00pm

SAEA Business Meeting and Awards Program

Location: **Oklahoma Station 3**

Date: Tuesday, 07/Feb/2023

8:00am - 5:00pm **Registration - Tuesday**
Location: **North Prefunction**

8:30am - 10:00am **SAEA Lifetime Achievement Awards Presentations**
Location: **Oklahoma Station 5**

10:00am - 10:30am **Break 4**

10:30am - 12:00pm **ES: Emerging Scholars**
Location: **Five Moons 1**

Applications and Impacts of Team-Based Learning

Misti Sharp

University of Florida; mistisharp@ufl.edu

Examining small farms and farm households of small and minority communities in the U.S.

Aditya Raj Khanal

Tennessee State University, United States of America; akhanal1@tnstate.edu

The Economic Impacts of the 2022 U.S. Highly Pathogenic Avian Influenza Event

Jada Thompson

University of Arkansas, United States of America; jt074@uark.edu

10:30am - 12:00pm **OS10: 2023 Southern Livestock Economic Outlook**
Location: **Five Moons 2**

Session Chair: **Darrell Peel**, Oklahoma State University

2023 Southern Livestock Economic Outlook

Justin R Benavidez, Francisco Abello

Texas A&M AgriLife Extension, United States of America; benavidezjustin@tamu.edu,
fjabello@tamu.edu

10:30am - 12:00pm **OS11: Barriers and Best Practices to Embedding Research in Undergraduate Agribusiness Curriculum**

Location: **Five Moons 3**

Session Chair: **Michelle Santiago**, University of Central Missouri

Barriers and Best Practices to Embedding Research in Undergraduate Agribusiness Curriculum

Michelle Santiago¹, Sierra Howry², Naveen Musunuru³, Keith Harris⁴, A. Dean Monroe⁵

¹University of Central Missouri; ²University of Wisconsin - River Falls; ³Murray State University; ⁴USDA - National Institute of Food and Agriculture; ⁵TELUS Agriculture and Consumer Goods;
santiago@ucmo.edu, sierra.howry@uwrfl.edu, nmusunuru@murraystate.edu, keith.harris@usda.gov,
dean.monroe@telus.com

10:30am - 12:00pm **SP21: Research Methods/Econometrics 2**

Location: **Five Moons 6**

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

Session Chair: **Haotian Cheng**, the University of Arizona

A Comparison of the Multinomial Logit and Rank Ordered Logit Models for Case 2 Best-Worst Scaling

Haotian Cheng¹, Ryan Feuz², Dayton Lambert³, Yejun Choi⁴

¹the University of Arizona; ²Utah State University; ³Oklahoma State University; ⁴Texas Tech University;
yejun.choi@ttu.edu

Estimating the Effect of Opioids on Agricultural Labor: Application of Bayesian Kriging

Ting Cao, Charles Moss

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

A Monte Carlo Comparison of Willingness-to-Pay Estimators for Mixed Logit Models

Miyeon Son, Dayton M. Lambert

Oklahoma State University, United States of America; son89@purdue.edu

A Bayesian Model Averaging Approach for Determining Economically Optimal Input Rates

Donggeun Han, Wade Brorsen, Dayton Lambert

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

A Certainty Effect for Preference Reversals under Risk: Experiment and Theory

Paul Joseph Feldman¹, Paul Ferraro²

¹Texas A&M University, United States; ²Johns Hopkins University, United States;
paul.feldman@ag.tamu.edu

Stringent GE Regulations and U.S. Trade in GE Live Animals: A Fixed Effects Gravity Model Approach

Osei Yeboah, Saleem Shaik, Terence Wood

North Carolina Agriculture and Technical State University, United States of America;
tjwood@aggies.ncat.edu

10:30am - 12:00pm

SP22: Ag Policy 2

Location: **Five Moons 7**

Session Chair: **Amy D Hagerman**, Oklahoma State University

Session Chair: **Alexis Nicole Ghormley**, Texas A&M University

A Statistical Learning Approach to Pasture, Rangeland, Forage (PRF) Insurance Coverage Selection

Samuel D. Zapata, Xavier Villavicencio

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

Impact of cover crop adoption on farm risk and crop insurance premiums

Rajan Dhakal¹, Lawson Connor²

¹Louisiana State University; ²University of Arkansas; RDhakal1@agcenter.lsu.edu

An Evaluation of Alternatives for Updating Base Acres in the 2023 Farm Bill

Alexis N. Ghormley, Joe L. Outlaw, Bart L. Fischer, David P. Anderson

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

Augmenting the Farm Safety Net with Farmer Savings Accounts

Henry R. Nelson, Bart L. Fischer, Joe L. Outlaw, Henry L. Bryant

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Estimating the Unintended Impact of North American Free Trade Agreement on the U.S. Public Health

Derick Taylor Adu¹, Wenying Li², Wendiam P.M. Sawadgo³

¹Auburn University, United States of America; ²Auburn University, United States of America; ³Auburn University, United States of America; dta0009@auburn.edu

Factors Affecting Crop Insurance Use Among Underserved Farmers

Alicia M. Young¹, [Amy D. Hagerman](#)¹, Andrew Van Leuven¹, Yacob Zereyesus², Franc Tsiboe²

¹Oklahoma State University, United States of America; ²United States Department of Agriculture, Economic Research Service; amy.hagerman@okstate.edu

10:30am - 12:00pm

SP23: Agribusiness

Location: **Five Moons 8**

Session Chair: **Haley Denae Brazel**, Western Kentucky University

Session Chair: **Maria Bampasidou**, Louisiana State University

Grass-fed beef strategic alliances, Producer Interest, Challenges and Opportunities

[Maria Bampasidou](#)¹, [Jerrod Penn](#)¹, [Guillermo Scaglia](#)²

¹Agricultural Economics and Agribusiness, Louisiana State University; ²Animal Sciences, North Dakota State University; mbampasidou@agcenter.lsu.edu

Evolution of the hemp market in New Mexico

[Maryfrances \(Frannie\) Miller](#), [Madhav Regmi](#)

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

Evaluating the impact of Covid-19 supply chain issues on the secondary tractor market in North America

[Robert Christian Ellis](#), [Chris Ortiz](#), [Tyler Mark](#)

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

How Has the Coronavirus Pandemic Affected Farmers' Markets in Kentucky?

[Haley Denae Brazel](#)

Western Kentucky University, United States of America; haley.brazel339@topper.wku.edu

Identifying a Supply Chain for Locally Grown Blueberries: A Case Study of Georgia's Blueberry Producers

[Lixia H. Lambert](#)¹, [Rodney Holcomb](#)¹, [Adeline Yeh](#)², [Brian Adam](#)²

¹Oklahoma State University; ²Economic Research Service, USDA; lixia.lambert@okstate.edu

Agritourism in Tennessee: Visitor Spending in Agritourism Operations and Economic Impact

[Purushottam Dhungana](#)¹, [Aditya Raj Khanal](#)²

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

Managers, Boards, and Principal-Agent Problem in Cooperatives

[Frank Seo](#), [Darren Hudson](#), [Donna McCallister](#), [Phil Johnson](#)

Texas Tech University, United States of America; frank.dw.seo@ttu.edu

12:00pm - 1:30pm

Break 5

1:30pm - 3:00pm

OS12: Advice for Early Career Success from the 2023 SAEA Emerging Scholars

Location: **Five Moons 1**

Session Chair: **Jerrod M Penn**, Louisiana State University & LSU Ag Center

Advice for Early Career Success from the 2023 SAEA Emerging Scholars

[Jerrod M Penn](#)

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

1:30pm - 3:00pm

OS13: Regional and Local food Systems Research and Outreach Initiatives: Challenges and Future Direction

Location: **Five Moons 2**

Session Chair: **Maria Bampasidou**, Louisiana State University

Regional and Local food Systems Research and Outreach Initiatives: Challenges and Future Direction

Maria Bampasidou¹, Marcus Coleman², Quisto Settle³, Dave Lamie⁴, Carl Motsenbocker¹

¹Louisiana State University, United States of America; ²Tulane University; ³Oklahoma State University; ⁴Clemson University; mbampasidou@agcenter.lsu.edu

1:30pm - 3:00pm

SP24: Land Sales/Real Estate

Location: **Five Moons 3**

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

Session Chair: **Eugene Adjei**, Auburn University

Adoption of Environmental and Social Stewardship in Land Leases: An Experimental Approach

Ray Massey¹, Julio Penados¹, Michelle Segovia¹, Mykel Taylor²

¹University of Missouri, United States of America; ²Auburn University, United States of America; jfb78q@umsystem.edu

How risk-diversification for conservation investment is affected by the COVID-19 real estate market shock

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

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

An Impact Analysis of the Transition Incentive Program on Beginning Farmers and Ranchers in Rural United States

Eugene Adjei, Valentina Hartarska

Auburn University, United States of America; eza0033@auburn.edu

Beneficial social impacts of urban green spaces in Knox County, Tennessee

Hannah Elizabeth Williams, Michael L McKinney, Sreedhar Upendram

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

Foreign Interests in U.S. Farmland

Festus Attah¹, Mykel Taylor¹, Wendong Zhang²

¹Auburn University, United States of America; ²Cornell University, United States of America; mrt0055@auburn.edu

A meta-analysis of tree canopy and property values in the United States

Kent Forrest Kovacs, Grant West, Robert Haight

University of Arkansas, United States of America; kovacs.kent@gmail.com

Interrelation of Texas Land Prices to Major Crop and Livestock Farming Practices in Texas Over the Past Twenty Years

Paige Marie Smythe

Texas A&M University; smythep@tamu.edu

1:30pm - 3:00pm

SP25: Consumer Demand

Location: **Five Moons 6**

Session Chair: **Courtney Fay Cooper**, University of Arkansas

Are U.S. Consumers Willing to Pay More for Domestically Produced Vanilla?

Alissa Hevesh, Jaclyn Kropp, Zhifeng Gao

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

Identifying consumer preferences for hemp-based products: A big data approach

Buddhika Patalee, Hoyeon Jeong, Tyler Mark

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

Examining price premium of sustainable label in agricultural products: an empirical study of rice on e-commerce platforms

Xinyu Ma¹, Ziqi Liu¹, Ting Meng¹, Wojciech Florkowski²

¹Academy of Food Policy and Economics (AGFEP), China Agricultural University; ²The University of Georgia, United States of America; wojciech@uga.edu

Assessing the Value of “Wildness” to U.S. Consumers with Application to Farm-Raised and Wild-Foraged Mushroom Demand

Courtney Fay Cooper, Trey Malone

University of Arkansas; cfcoper@uark.edu

AN EMPIRICAL ANALYSIS OF THE EFFECTS OF HOUSEHOLDS’ DEMOGRAPHIC AND SOCIOECONOMIC FACTORS ON THEIR CHOICE OF ETHNIC RESTAURANTS IN THE UNITED STATES

Rafael Bakhtavoryan, Chrystian Suchini, Jose Lopez, Desire Djidonou

Texas A&M University-Commerce, United States of America; Rafael.Bakhtavoryan@tamuc.edu

Factors Affecting Chinese Beef Consumers’ Purchase Frequency

Bhishma R. Dahal¹, Karen L. DeLong¹, Carola Grebitus², Andrew Muhammad¹, Shijun Gao²

¹Department of Agriculture and Resource Economics, University of Tennessee-Knoxville, United States of America; ²Morrison School of Agribusiness, W.P. Carey School of Business, Arizona State University, Mesa, Arizona; bdahal1@vols.utk.edu

1:30pm - 3:00pm

SP26: Farm Management 2

Location: **Five Moons 7**

Session Chair: **Michael Vassalos**, Clemson University

An Economic Estimation of the Root Collar Excavation (RCE) Method in the Peach Industry

Gracie Elizabeth Herrin, Michael Vassalos, Felipe Silva, Anastasia Thayer, Nathan Smith, Gregory Reighard

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

Analysis of Factors Associated with Time to Adopt Irrigation Best Management Practices

Evelyn Osei, Qiuqiong Huang

University of Arkansas, Ghana; osei@uark.edu

Farmer adoption and intensity of use of extreme weather adaptation and mitigation strategies: Evidence from Missouri

Theodoros Skevas, Ray Massey, Jasper Grashuis

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

Estimating the Effect of Farmers’ Perceptions on Adoption of Conservation Tillage (CT)

Macson Ogieriakhi, Richard Woodward

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

A Historical Assessment of the Number of Days Required to Plant the Arkansas Rice Crop.

Bayarbat Badarch, Brad Watkins

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

An Agronomic and Economic Analysis of Annual Ryegrass Management Practices in North-Texas Soybean Production

Henry Flowers, Jose A Lopez, David Drake, Curtis Jones

Texas A&M University-Commerce, United States of America; hflowers1@leomail.tamuc.edu

Factors Influencing the Adoption of Biological Control Methods and Integrated Pest Management by Specialty Crop Growers in Tennessee

Purushottam Dhungana, Aditya Raj Khanal, Kaushalya Amarasekare

College of Agriculture, Tennessee State University, United States of America; purushottamd@tnstate.edu

1:30pm - 3:00pm

SP27: Water Issues

Location: **Five Moons 8**

Session Chair: **Chellie Maples**, Mississippi State University

Session Chair: **Mary Mena Boateng**, Oklahoma State University

Impact of Major Attributing Factors on Irrigation Adoption Decision in Alabama

Tej Gautam

Tuskegee University, United States of America; tgautam@tuskegee.edu

Herbicide Resistance Management in the U.S. Southern Great Plains and Rainfed No-Till Cropping Systems

Chellie Maples¹, Dayton Lambert², Misha Manuchehri²

¹Mississippi State University, United States of America; ²Oklahoma State University, United States of America; ch2780@msstate.edu

Are Rainfed Double Cropping Systems Preferred by Risk-Averse Producers?

Mary Mena Boateng¹, Lixia H. Lambert¹, Dayton M Lambert¹, Curtis D Jones²

¹Oklahoma State University; ²University of Maryland; mary.boateng@okstate.edu

Exploring the role of off-season precipitation and irrigation water use in inter-season changes in well depth to water

Amer Al-Sudani, Nicolas Quintana

National Center for Alluvial Aquifer Research, Delta Research and Extension Center Mississippi state University, United States of America; arashid@ksu.edu

Chemical Trespass Economics of Crop Production in the US

Iretiayo Akinjo, Terry Griffin

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

3:00pm - 3:30pm

Break 6

3:00pm - 3:30pm

OS14: Successful Extension Risk Management Outreach Programming

Location: **Five Moons 1**

Session Chair: **Ron Rainey**, University of Arkansas

Successful Extension Risk Management Outreach Programming

Ron Rainey¹, Megan Leflew², John Bovay³, Angie Martin⁴

¹University of Arkansas, United States of America; ²University of Tennessee Extension, Center for Profitable Agriculture; ³Virginia Polytechnic Institute and State University; ⁴Texas Corn Producers Association; raine@uada.edu, mlbruch@utk.edu, bovay@vt.edu, angie@texascorn.org

3:30pm - 5:00pm

Posters: Poster Session

Location: **Five Moons 4**

Do rice subsidies in Mauritius help alleviate food insecurity?

Lawton Lanier Nalley¹, Roshini Brizmohun-Gopaul², Sophia Ultes¹, Wei Yang¹, Alvaro Durand-Morat¹

¹University of Arkansas, United States of America; ²University of Mauritius, Moka, Mauritius; lnalley@uark.edu

The Impacts of the Covid-19 Pandemic on Food Security in Mauritius

Abigail Burch¹, Lainey Deitrick¹, Sophia Ultes¹, Lexie Burris¹, Juliann Phillips¹, Amy Farmer¹, Roshini Brizmohun-Gopaul², **Lawton Lanier Nalley**¹

¹University of Arkansas, United States of America; ²University of Mauritius, Moka, Mauritius; lnalley@uark.edu

Assessing the Feasibility of a Fresh Milk Market in Mauritius

Abigail Burch¹, Lainey Deitrick¹, Sophia Ultes¹, Juliann Phillips¹, Lexie Burris¹, Roshini Brizmohun-Gopaul², **Lawton Lanier Nalley**¹, Wei Yang¹

¹University of Arkansas, United States of America; ²University of Mauritius, Moka, Mauritius; lnalley@uark.edu

The Marginal Effect of Supplemental Nutrition Assistance Program (SNAP) Benefits on Food Insecurity in the US

Prayash Pathak Chalise, Travis Alan Smith

The University of Georgia, United States of America; pp77398@uga.edu

Evaluating the Economic and Environmental Feasibility of Electrochemical Nutrient and Energy Recovery from Municipal Wastewater

Leah English¹, Karla Morrissey¹, Jennie Popp¹, Greg Thoma¹, Lauren Greenlee²

¹University of Arkansas, United States of America; ²Penn State, United States of America; lae001@uark.edu

Economic impact of COVID-19: a regional analysis of Arkansas' agriculture and forestry sectors

Jennie Popp¹, Leah English¹, Matthew Pelkki², Rebecca Montgomery², Nana Tian²

¹University of Arkansas, Fayetteville, United States of America; ²University of Arkansas, Monticello, United States of America; jhpopp@uark.edu

The impact of COVID-19 on a food pantry in Oklahoma

Jiadong Liu, Franklin Bailey Norwood

Department of Agricultural Economics, Oklahoma State University, United States of America; jiadliu@okstate.edu

Identifying Barriers of Entry for Food Pantry Participants

Alexis Skinner¹, Di Fang², Rudy Nayga³, Lawton Lanier Nalley¹, Wei Yang¹, Shelby Rider¹

¹University of Arkansas, United States of America; ²University of Florida; ³Texas A&M University; aiskinne@uark.edu

A Tool to Help Moderate the “Bullwhip” Effect? The Food and Agricultural Systems Sentiment (FASS) Index

Jose H Quintero¹, **Trey Malone**²

¹Michigan State University; ²University of Arkansas; quinte33@msu.edu

Why has the agricultural use of reclaimed water been declining in Florida

Wen Liu, **Gulcan Onel**, **Pilar Useche**

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

A preliminary study exploring the use of crop growth models to simulate management scenarios for corn in Tennessee

Rachel Davis, **Anthony Delmond**, **Rachna Tewari**, **Isaac Lepcha**, **Joseph Mehlhorn**

The University of Tennessee at Martin; racadavi@ut.utm.edu

Consumer Choice Effects of Confusion Associated with Banning the Word “Milk” on Non-Dairy Beverage Labels

Jack Steven Myers¹, **Trey Malone**¹, **Brandon R. McFadden**¹, **Christopher A. Wolf**²

¹University of Arkansas, United States of America; ²Cornell University, United States of America; jsmyers@uark.edu

Kentucky Produce Auctions and Regional Terminal Markets: an Analysis of Demand Conditions

Thomas Bradley Pierce

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

Feedlot Willingness to Pay for Genomic Tested Feeder Cattle

Aisling Hagan, **Karen DeLong**, **Andrew Griffith**, **Christopher Boyer**, **Charley Martinez**, **Kimberly Jensen**, **Susan Schexnayder**

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

Economic Analysis of Pyric-herbivory Rangeland Management in Oklahoma

Hannah Marie Baker, **Hannah Elizabeth Shear**, **Derrell Peel**

Oklahoma State University, United States of America; hannah.baker10@okstate.edu

US Cattle Producer’s Use of Price Risk Management Tools

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

Estimating Missing NASS Yields from RMA Business Statistics

William HENCE Duncan, **Christopher Boyer**, **Aaron Smith**, **Eunchun Park**, **William Maples**

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

Changing North American Cattle and Beef Trade Flows

Joshua L Strine, **David P Anderson**

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

The Implementation of a Financial Software into an Educational Farm

Yves-Bernard Kacou, Jose A Lopez, Douglas Eborn, Desire Djidonou
Texas A&M University-Commerce, United States of America; Jose.Lopez@tamuc.edu

How Have Corn Yields Have Changed Over Time

George Coleman Patterson¹, Barton Wade Brorsen², Emerson Dale Nafziger³
¹Oklahoma State University, United States of America; ²Oklahoma State University, United States of America; ³University of Illinois, United States of America; george.patterson10@okstate.edu

Reducing Recycling Contamination Using an Information Nudge

Mimi Rivette, Jerrod Penn
Louisiana State University, United States of America; mrivet3@lsu.edu

What Came First the Feed or the Chicken: A Spatio-Temporal Evaluation of the Delmarva Broiler Industry

Elizabeth Anne Thilmany¹, Jada Thompson²
¹University of Maryland; ²University of Arkansas; thilmany@umd.edu

Impact of Rice Production and Environmental Damage on Food Security Challenges in Bangladesh

Tania Islam¹, Lal K Almas², Bridget Guerrero³, Golam Kibria⁴
¹West Texas A&M University, United States of America; ²West Texas A&M University, United States of America; ³West Texas A&M University, United States of America; ⁴Noakhali Science and Technology University, Bangladesh; tislam2@buffs.wtamu.edu

The Economics of PGR Applications on Soybeans

Colton Tuff Johnson, Hannah Elizabeth Shear, Josh Lofton
Oklahoma State University, United States of America; tuff.johnson@okstate.edu

Dual Use Wheat and Risk Management Options for Oklahoma Cattle Producers

Jack Ryan Long, Derrell Peel, Amy Hagerman
Oklahoma State University, United States of America; jack.long10@okstate.edu

Willingness to pay for community-based climate change mitigation efforts: perception of attendees from an agriculture-focused conference

Alexandra Bittel, Lena Hopmann, Katherine Witbeck, Rachna Tewari, Joseph Mehlhorn
The University of Tennessee at Martin, United States of America; katewitb@ut.tn.edu

“Why do I want to work for you?: An Analysis of Job Satisfaction, Laborer Retention, and Recruitment in the Cattle Feeding Industry.”

Baily N. Summers, Dr. Mallory K. Vestal, Dr. Ty E. Lawrence, Dr. Guillermo Marcillo, Dr. Bridget L. Guerrero, Dr. John L. Pipkin
West Texas A&M University, United States of America; bsummers2@buffs.wtamu.edu

Encouraging Participation in Water Utility Assistance Programs

James C. Mingie, Sreedhar Upendram, Seong-Hoon Cho
University of Tennessee, United States of America; jmingie@vols.utk.edu

Factors affecting extreme weather event recovery and resilience among rural communities and agricultural producers in Oklahoma

Teresa Haddock, Andrew VanLeuven, Amy D Hagerman

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

Agronomic and Economic Comparison of Alternative Forage-based Beef Production Systems

Enoch Adom¹, Jon T. Biermacher², Wade B. Brorsen¹, Sindy M. Interrante³, Dayton M. Lambert¹, Twain J. Butler³

¹Oklahoma State University, United States of America; ²North Dakota State University, United States of America; ³Noble Research Institute, United States of America; enoch.adom@okstate.edu

Pollinator contribution to food and non-food crop supply: wild pollinators and honey bees

Sulakshan Neupane, Wojciech Florkowski

The University of Georgia, United States of America; Sulakshan.Neupane@uga.edu

Optimal Wheat, Stocker, and Cow-Calf Operational Decision-Making under Uncertainty

Yuan Zhang¹, Lixia H. Lambert¹, F. Bailey Norwood¹, Dayton M. Lambert¹, Jon Biermacher²

¹Department of Agricultural Economics, Oklahoma State University; ²Department of Agribusiness and Applied Economics, North Dakota State University; aiden.zhang@okstate.edu

The Economic Importance of Agricultural Production in the Ogallala Aquifer Region

Bridget Guerrero¹, Justin Benavidez², Bill Golden³, Donna McCallister⁴, Mallory Vestal¹, Lal Almas¹

¹West Texas A&M University, United States of America; ²Texas A&M AgriLife Extension Service; ³Kansas State University; ⁴Texas Tech University; bguerrero@wtamu.edu

Household Spending Responses to the SNAP Benefit Increase during the COVID-19 Pandemic: Was This Time Different?

Xingguo Wang, Pourya Valizadeh, Henry Bryant, Rodolfo Nayga, Bart Fischer

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

The Impact of Extreme Weather Events on Water Quality in Kentucky, USA

Munib Inam, Steven Buck

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

Alternative crop for small and medium sized farmers: Comparative economic analysis of mung bean production in southeastern US

Satya Tiwari, Prabodh Illukpitiya, Fisseha Tegegne, Sunil Gurung, Dafeng Hui

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

Promoting smart contracts for specialty crops: Examining buyers' attitudes and willingness to participate in blockchain system

Devashish Bhandari, Prabodh Illukpitiya, Kabirat Nasiru

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

A Meta-Analysis on Economic Feasibility and Environmental Sustainability of Organic Fruits and Vegetables Short Supply Chain

Lixia H. Lambert¹, **Rodney Holcomb**¹, **Kayla Van Ruler**¹, **Adeline Yeh**², **Brian Adam**²

¹Oklahoma State University; ²Economic Research Service, USDA; lixia.lambert@okstate.edu

The Effect of Information and Communication Technologies (ICT) on Expanding Agricultural Markets in Developing Countries

Elizabeth Taberes¹, **Ariun Ishdorj**², **Roger Norton**^{1,2}, **Thuy Floyd**², **Vikas Mishra**^{1,2}

¹Borlaug Institute for International Agriculture at Texas A&M University; ²Department of Agricultural Economics, Texas A&M University, United States of America; elizabeth.tabaresvil@ag.tamu.edu

Trends in the H-2A Program Among Various Agricultural Industries in the Delta States

Andrew William Meche, **Maria Bampasidou**

Louisiana State University, United States of America; ameche5@lsu.edu

A Quantile Regression Approach to Analyzing the Effects of Urbanization on Economic Growth in China

Vardges Hovhannisyan¹, **Serhat Asci**², **Armen Khachatryan**¹

¹University of Wyoming, United States of America; ²California State University, Fresno, United States of America; yhovhann@uwyo.edu

Feasibility of a meat processing facility on the Navajo Nation

Bailey Tom, **Maryfrances (Frannie) Miller**

New Mexico State University; Bailey1t@nmsu.edu

Enhancing Risk Management of Small U.S. Farms: Pivotal Factors and Ways

Xuanli Liu, **Nalini Pattanaik**, **Mohammed Ibrahim**

Fort Valley State University, United States of America; liux@fvsu.edu

Profile of Food Entrepreneurs in Missouri

Christi Elizabeth Sudbrock, **Hannah Rockers**

Missouri State University, United States of America; rockers323@live.missouristate.edu

Designing a Contingent Valuation survey for estimating economic value of bird deaths on White Sands Missile Range

Fatima Quiroz, **Maryfrances (Frannie) Miller**, **Sawssan Boufous**

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

Market Value and Potential of Bee Better Certification Program

Harrison Taylor Clark, **Xuqi Chen**

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

Policies Enhancing Agricultural Value Chains in Developing Countries: An Evidence Gap Map

Anna Yeritsyan, **Elizabeth Tabares**, **Ariun Ishdorj**, **James Mjelde**, **Roger Norton**

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

Analysis of Regional Farmers' Markets Brand Goals through Social Media Marketing Strategies

Michelle Santiago, S. Mark Goodwin

University of Central Missouri, United States of America; santiago@ucmo.edu

Demand Forecasting at Alabama Food Pantries Using Machine Learning Methods

Rui Chen¹, Md Kamran Chowdhury Shisher², Thomas Orrison², Yin Sun²

¹Tuskegee University, United States of America; ²Auburn University, United States of America; rchen@tuskegee.edu

Informed but Tempted: Latent Class Analysis of College Students' Food Choices

Pathmanathan Sivashankar, Samir Huseynov, Joshua Duke

Department of Agricultural Economics and Rural Sociology, Auburn University, AL 36849, USA; pzs0077@auburn.edu

Understanding the Role of Irrigation in India's Dairy Intensification: Historical Development, Present Scenarios and Future Prospects

Abhishek Rajan, Olesya Savchenko

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

Economic Impacts of Removing Metaphylaxis in the U.S. Pre-Harvest Beef Cattle Supply Chain

Chellie Maples

Mississippi State University, United States of America; ch2780@msstate.edu

Integrating Economic Analysis into a Decision Support Tool for Improved Sustainability of Manure Management Systems

Erin Elizabeth Scott¹, Sudharsan Varma Vempalli¹, Jacob Hickman¹, Richard Stowell², Teng Lim³, Lauren Greenlee⁴, Greg Thoma¹, Gilbert Miito³, Jennie Popp¹

¹University of Arkansas; ²University of Nebraska-Lincoln; ³University of Missouri; ⁴Pennsylvania State University; erins@uark.edu

3:30pm - 5:00pm

SP28: Environment & Climate 3

Location: **Five Moons 2**

Session Chair: **Allan Pinto**, KSU

Climate change impact on conservation practice adoption: Evidence from U.S. Midwest

Tong Wang, Hailong Jin

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

Benefit-Cost Analysis of Oyster Reef Restoration in Alabama and Mississippi

Barbara Nyarkoa Okai¹, Daniel Petrolia¹, Seong Do Yun¹, Matthew Interis¹, Zhenshan Chen², Judy Haner³

¹Mississippi State University, United States of America; ²Virginia Tech, United States of America; ³The Nature Conservancy, United States of America; bn049@msstate.edu

CO2 emission intensity across the lower 48 states

Allan Pinto, Terry Griffin

KSU, United States of America; apinto@ksu.edu

Agricultural Producer and Citizen Perceptions about Crop Residue Burning: An Examination of the U.S. with a Focus on Arkansas

Jillian Hyink¹, Brandon R. McFadden¹, Ryan Bresnahan², Aaron Shew³

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

³AcreTrader; Jhyink@uark.edu

Environmental Orientation, Ranch Characteristics and Performance: A comparison of ranches under different grazing management practices

Tong Wang¹, Urs Kreuter²

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

tong.wang@sdstate.edu

3:30pm - 5:00pm

SP29: Food Security & Nutrition 3

Location: **Five Moons 3**

Session Chair: **Mphatso Chinsinga**, Mississippi State University

Disentangling Signaling and Budgetary Effects of Price in Consumer Choices

Qi Kang, Carlos Carpio, Chenggang Wang, Tullaya Boonsaeng, Darren Hudson

Texas Tech Univeristy, United States of America; qi.kang@ttu.edu

How does the utilization of extension services affect household food security in Malawi?

Mphatso Chinsinga, Will Davis, Daniel Petrolia, Elizabeth Canales

Mississippi State University, United States of America; mc3351@msstate.edu

A Case Study on the Home Cooking Movement – Legalization, Market, and Competition

Jonathan Ritacco¹, Lijun Angelia Chen¹, John Lai¹, Roya Bagheri²

¹University of Florida; ²COOK Alliance; jon.ritacco@ufl.edu

Food Insecurity and the Valuation of Best if Used by Dates

Lun Luo, Jackie Yenerall

University of Tennessee, United States of America; llo6@vols.utk.edu

An Experimental Sensory Approach to Analyzing how Consumers Utilize Best-if-Used-by Dates as a Cue for Wasting Food

Billie Ray, Karen L. DeLong, Kimberly Jensen

University of Tennessee, United States of America; bray18@vols.utk.edu

3:30pm - 5:00pm

SP30: Human Behavior

Location: **Five Moons 6**

Session Chair: **Austin Landini**, University of Missouri

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

Effect of Social safety Net on School Retention and Child Labor: Evidence from HIES-2016

Sheikh Jafar Emran

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

Consumers' Willingness to Pay for Co-firing Biomass with Coal

Harikrishnan Santhosh, Gregory Colson, Jeffrey D. Mullen

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

Food for Thought: A Laboratory Experiment on the Relationship Between Hunger and Cognitive Ability

Austin Landini¹, Rudy Nayga², Marco Palma², Michelle Segovia¹

¹University of Missouri, United States of America; ²Texas A&M University, United States of America; austin.landini@missouri.edu

Examining the Effect of Allowing an Escape Hatch in Questions Scales Commonly Used in Food Economics Research

Emily Schlichtig¹, Brandon R. McFadden¹, Caroline May², Jayson L. Lusk³

¹University of Arkansas; ²University of Delaware; ³Purdue University; esschlic@uark.edu

3:30pm - 5:00pm

SP31: Farm Survival

Location: **Five Moons 7**

Session Chair: **Nichole Busdieker-Jesse**, Missouri State University

Session Chair: **DeDe L Jones**, Texas A&M AgriLife Extension

Exploring the Importance of Connection in Beginning Farmer Success

Christi Sudbrock, Claire Eggerman, Nichole Busdiker-Jesse, Arbindra Rimal

Missouri State University, United States of America; claire999@live.missouristate.edu

Building an Industry and Breaking Down Barriers: An evaluation of the barriers to government farm program participation

Nichole Busdieker-Jesse, Arbindra Rimal, Christi Sudbrock

Missouri State University, United States of America; nbusdiekerjesse@missouristate.edu

TRANSACTION COSTS ON THE PATHWAYS IMMIGRANT LATINX FARMERS UNDERTAKE TO ENTER THE PRACTICE OF FARMING IN THE MIDWEST

Ervin Leiva, Corinne Valdivia

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

What makes firms survive longer? A survival analysis using a hazard function for Mississippi firms

Sabin Dawadi¹, Ayoung Kim²

¹Mississippi State University; ²Mississippi State University; sd1833@msstate.edu

Economic Impacts and Sustainability of Grazing Beef Cattle in the Great Plains

Merri Elizabeth Day, Phillip Lancaster, Dustin Pendell, Minfeng Tang, Deann Presley, Walter Fick, Adam Ahlers, Drew Ricketts

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

Analyzing the Impact of Declining Farm Income on Texas High Plains Producers

DeDe Jones, Steven Klose

Texas A&M AgriLife Extension, United States of America; dlijones@aq.tamu.edu

3:30pm - 5:00pm

SP32: Socioeconomic Effects on Health and Wellness

Location: **Five Moons 8**

Session Chair: **Yujuan Gao**, University of Florida

Socio-economic Determinants of the Frequency of Rape: Evidence from the United States of America

Harrison Taylor Clark, Xuqi Chen

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

The Effect of Population Density on Covid-19 outbreak in the United States

Md Roknuzzaman

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

Maternal Migration and Early Children Development in Rural China

Yujuan Gao¹, **Yue Ma**²

¹University of Florida; ²Stanford University; yujuan.gao@ufl.edu

Socio-political and Economic Impact on the COVID-19 Vaccination: Southwest Regional Study

Komla Mawuena Koumi, **Soyoung Jeon**, **Yu-Feng Lee**

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

Agenda for Southern Region -AAAE

Saturday, February 4, 2023

4:00-9:00 Registration Foyer

Sunday, February 5, 2023

8:00-12:00 Registration Foyer

Breakfast on your own

9:00-10:00 Ag Ed Opening Session Five Moons 5

10:15-11:45 Research Session I

Session A

Five Moons 1

- The Impact of Advice Networks During COVID-19 on Leading Women in Agriculture's Food Waste Behaviors - Karissa Palmer, Dr. Robert Strong, Dr. Meg Patterson, Dr. & Chanda Elbert
- Is agriculture being implemented in private school classrooms? The impact of teacher willingness and availability of resources—Casey M. Moss, Allyson K. Moore, Josey M. Webb, Carley C. Morrison, Stephanie M. Lemley, & Mariah S. Morgan
- Preferred Gregorc Learning Styles of Preservice SBAE Teachers in an Introductory Course—Emily O. Manuel, Ryan W. Best, Kristopher R. L. Rankin, III, Emily A. Sewell, Bradley M. Coleman, Robert Terry, Jr., & Kathryn L. Teixeira
- Evaluating Heterosexism of Post-Secondary Agricultural Education Students Group Norms—Eric M. Moser & Stacy K. Vincent

Session B

Five Moons 2

- The Effect of Message (Mis)Information on Consumers' Attitudes toward Hemp—Dr. Taylor K. Ruth, Abigail Durham, Dr. Blake C. Colclasure, Dr. Levy G. Randolph, and Dr. Tiffany Rogers-Randolph
- Experts' Views on Poorly Understood Terms used to Market Poultry Eggs: Defining Cage-Free, Free-Range, Pasture-Raised, and Organic Egg Production—Dr. Rexanna Powers Degruy, Dr. Richie Roberts, Dr. Kristin S. Stair
- An Evaluation of U.S. Egg Industry Experts' Perceptions of Alternative Housing Environments: A Hybrid SWOT-Delphi Approach—Dr. Rexanna Powers Degruy, Dr. Richie Roberts, Dr. Kristin S. Stair
- A Comparative Case Study from a Design-Based Research Project to Examine Student Experiences in a Personal Leadership Course—Karly McKenna Anderson, Jewell M. Glover, Ainsley Burns, Jonan Phillip Donaldson, Summer F. Odom

Session C

Deep Deuce

Agenda for Southern Region -AAAE

- The Civic Engagement Skills Needed by Youth: An Assessment of Community Citizens– Taylor Shackelford, Lauren Cline, & J. Shane Robinson
- Psychometric Properties of the Community Viability Indicator–Sarah A. Bush, Rick Rudd, Megan Seibel, & Carrie N. Baker
- Preferred Conflict Styles of Extension Agents by Generation–Megan Cantrell, Dr. Matt Benge, Anne Parrish, & Christy Chiarelli
- Using Poetic Dialogues to Enhance for Community-Based Extension Impact Evaluation– Catherine E. Sanders, Dr. Alexa J. Lamm, Dr. Jori Hall, Dr. Abigail Borron, Dr. Maria Navarro, & Dr. James C. Anderson II

Session D

Five Moons 5

- Exploring the Self-Perceived Needs of School-Based Agricultural Education Teachers– Kayla N Marsh, Dr. Christopher J. Eck, Dr. K. Dale Layfield, & Dr. Joseph L. Donaldson
- Curricular Needs of [State] School-Based Agricultural Education Teachers–Dr. Christopher J. Eck, Nathan A. Smith, Kris Rankin III, & Kayla Marsh
- Identifying School-Based Agricultural Education Teacher Needs and Support Gaps– Kayla N. Marsh, Dr. Christopher J. Eck, Dr. K. Dale Layfield, & Dr. Joseph L. Donaldson
- Impact of a Prolonged Professional Development on Teachers’ Confidence in Using Inquiry-Based Learning in the Classroom–Kasey Harmon, Dr. Taylor Ruth, Dr. Bryan Reiling, Dr. Nathan Conner, & Dr. Christopher Stripling

12:00-1:30 Lunch on Your Own
Grad Student Orientation (Abuelo’s -

1:30-3:00 Research Session II

Session E

Five Moons 1

Agenda for Southern Region -AAAE

- Preservice Teachers' Factors of Perceived Performance While Student Teaching: Development of a Self-Evaluation Instrument–Margaret Reaves, Carla B. Jagger, Bradley M. Coleman, J. C. Bunch, & Glenn D. Israel
- Understanding the Mentorship Experiences of Cooperating Teachers and Student Teachers During the Student Teaching Internship: A Phenomenological Exploration– Heather Nesbitt, & Dr. Debra Barry
- Understanding Teacher Preparation of the Past: A Historical Narrative of the Student Teaching Block in Agricultural Education–Tyler J. Price, Emily A. Sewell, Bradley M. Coleman, & Natalie K. Ferand
- Perceptions of Pre-service Teachers' Ability to Use AET as a Data Management System– Tyler J. Price, Emily O. Manuel, Emily A. Sewell, & J. Shane Robinson

Session F

Five Moons 2

- Investigating the Effects of Cognitive Style on Course Motivation for Students' Enrolled in a Team-Based Learning Formatted Introductory Agricultural Mechanics Course at [State] University–Whitney L. Figland, J. Joey Blackburn; Richie Roberts; & Michael F. Burnett
- Improving Agricultural and Environmental Education through Experiential Learning: An Evaluation of a Statewide STEM Initiative for SBAE Teachers–Dr. Kristin Stair, Dr. Richie Roberts, Dr. K.S.U (Jay) Jayaratne, Jennifer Brown, & Abigail Greer
- Teaching Outside of the Margins: School-Based Agricultural Education Teachers' Perspectives on Globally Competent Teaching During an International Experience - Dr. Richie Roberts, Dr. Kristin S. Stair, Whitney F. Figland, & Dr. K.S. U. Jayaratne
- Are There Differences in Teachers' Agricultural Mechanics Professional Development Needs?–Mark S. Hainline, & Trent Wells

Session G

Deep Deuce

- Tell me how you really feel about the AET–Jillian C. Ford & Dr. Misty D. Lambert
- Making it happen: SAE for All implementation in [State]–Jillian C. Ford & Dr. Misty D. Lambert
- Examining Level of School Garden Integration among Elementary Agriculture Education Teachers in [State] - Jade Frederickson & Dr. Jason Peake
- Understanding the Views of Beef Show Cattle Parents and the Reasons Why Their Children Participate–Matthew M. Schiel, J. Joey Blackburn; Richie Roberts, &Michael F. Burnett

Session H

Five Moons 5

Agenda for Southern Region -AAAE

- The Emotional Duties of an Agricultural Educator: Evaluating the Confidence Levels of Agricultural Educators to Support Students with Adverse Childhood Experiences - Dr. William Norris & Dr. Shannon Norris-Parrish
- What Challenges Will [STATE] School-based Agricultural Education Face Over the Next Decade? Thoughts from the Front Lines—Christopher M. Estep, Bryan D. Rank, Alyssa Johnson, & Trent Wells
- Can the State FFA Degree Be Used as a Career Readiness Indicator in [State]?—Kailee Johnson, Kirk A. Swortzel, & OP McCubbins
- Inclusion for All? Opportunities and Challenges of Including Students with Diverse Needs in FFA Activities—Mary Kate Morgan Lanier, Dr. Joy Morgan, Dr. Wendy Warner, & Dr. Barbara Kirby

2:45-4:00 Innovative Poster Session Five Moons 4

4:00 SAAS General Business Meeting

5:00 SAAS Social

Monday, February 6, 2023

8:00-12:00 Registration Foyer

8:00-9:00 Emerging Research

Emerging 1 Five Moons 1

- Enhancing Learning Through Undisguised Teaching Case Studies: Both Instructor-Facilitated and Student-Written—Dr. Eric Kaufman & Samson Adeoye
- HEARING In Practice—Garrett T. Hancock, Ronald J. Davis, & Dr. Dr. Jason D. McKibben
- The Key Concepts of Agricultural Entrepreneurship: A Scoping Review—Alexis Zickafoose, Matt Baker, & Gary Wingenbach, Ed Price
- Reaching the Indoor Environmentalists: Understanding Generation Z's Perceptions of Hunting and Conservation Efforts in [State]—Hannah Chambers Ferguson, Dr. Tobin Redwine, Dr. Deborah Dunsford, & Dr. K. Jill Rucker

Emerging 2 Five Moons 2

- Examining the use of social media applications by [STATE] agricultural producers—Mikayla Hargis & Dr. Haley Rosson

Agenda for Southern Region -AAAE

- Identifying Barriers to Belonging in School Based Agricultural Education– Logan Layne & Dr. Donna Westfall-Rudd
- Juntos, We Grow: A Culturally-Tailored Youth Program Capitalizing on the Nexus of Agricultural Literacy and Nutrition Education– Sarah Sprayberry & Dr. Robert Strong

9:15-10:45 Research Session III

Session I

Five Moons 1

- Examining Sense of Belonging Among Freshmen College of Agriculture Students–Will Doss, Christopher M. Estep, Sarah James, Lucas M. Simmons, & Donald M. Johnson
- The Effects of Reflection and Transfer on Students' Post-Course Retention While Learning Experientially–Bradley M. Coleman, J.C. Bunch, T. Grady Roberts, Glenn D. Israel, & Allen F. Wysocki
- Evaluating Agricultural Faculty's Virtual Reality Technology Behavioral Intention: Implications for 5G Instructional Technology Adoption–Dr. Robert Strong, John Mark Palmer III, Dr. Jeffrey Wiegert, Dr. Jennifer Zoller, & Dr. Tim Murphy
- Examining Student Retention and Attrition in the [College of Agriculture at University]– James D. Scott & Dr. Eric D. Rubenstein

Session J

Five Moons 2

- Critical Issues Facing the Agriculture, Forestry, and Natural Resources Industries in the State of [STATE]: A Delphi Analysis–Dr. Kevan W. Lamm, Lauren Pike, Dr. Lauren Griffeth, Dr. Jiyea Park, & Andrews Idun
- Mind the skills gap: Understanding limitations new hires according to agricultural industry professionals - Madelaine Giebler, K. Jill Rucker, Hannah Chambers Ferguson, Casandra K. Cox, Jefferson D. Miller, & Steven Chumbley
- Meaningful Skills for the Agricultural Workforce: Assessing the Confidence Levels of Agricultural Educators to Integrate STEM into their Curriculum - Dr. William Norris
- Educational Law: How do Superintendents Perceive the Relevance of Educational Law Issues to Agricultural Educators–Dr. William Norris & Dr. Shannon Norris-Parrish

Session K

Deep Deuce

- Gender Representation and Re-Alignment in Agricultural Education: A Historical Analysis of Structural and Cultural Changes–Alex Tingle, Dr. Rebekah B. Epps, Eric M. Moser

Agenda for Southern Region -AAAE

- Experiences of Graduate Students of Color within Colleges of Agriculture at Land-Grant Institutions—Aaron Golson, Catherine Sanders, Dr. James Anderson II
- Efforts to Be Successful: Case Study of LatinX FFA Leaders—Graciela Barajas & Dr. Stacy K. Vincent
- Rural Gay Men’s Resiliency and Thriving in Agricultural Education—Caleb M. Hickman & Dr. Stacy K. Vincent

11:00 -12:00	AAAE Business Meeting Session	Five Moons 2
Noon-1:30	Luncheon and Distinguished Lecture	OK Station 2
1:45-3:00	Professional Development	Five Moons 2
3:15-4:30	Research Poster Session	Five Moons 4
5:00	Explore the City Tour & Social Activity	Across Oklahoma City

Tuesday, February 7, 2023

8:00-9:00 AM	Business Session	Five Moons 5
9:15-12:00	Distinguished Manuscript Presentations	OK Station 4

Agenda for Southern Region -AAAE

- Preparing Agricultural Education Majors for Racially Diverse Classrooms: Students' Experiences During a Service-Learning Project for Black Youth—Dr. Richie Roberts, Jacob Englin, & Benita Komungeru
- Leadership Competencies Developed During a Short-term Domestic Study Tour: An Exploration of State FFA Officers' Perceptions—Newlin Humphrey, Dr. Lauren Cline, & Dr. Bradley Coleman
- The State of Agricultural Mechanics in the Preparation of School-Based Agricultural Education Teachers—Tyler Granberry, J. Joey Blackburn, & Richie Roberts
- Concerns about Hen Welfare in Poultry Egg Production: Experts' Views on how Consumer Demands Influence the Marking and Communication of Egg Products—Dr. Rexanna Powers Degruy, Dr. Richie Roberts, & Dr. Kristin S. Stair
- Activity Preferences of [State's] Agritourism Clientele—Alexis Turnipseed, Kirk A. Swortzel, Michael E. Newman, & Rebecca Campbell

Brunch
Award Ceremony

SATURDAY, FEBRUARY 4, 2023

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: OMNI OKLAHOMA CITY—FIVE MOONS 4

UNDERGRADUATE STUDENT POSTER COMPETITION - CROPS AND SOILS

1. Planting Date and Seeding Rate Effects on Timing of Corn Emergence.
Solar Tanton, Tifton, GA, US, Amara White, ABAC Agronomy Club, Tifton, GA, Matthew Hood, Abraham Baldwin Agricultural College, Tifton, GA, Alex J. McLemore, Department of Agriculture, Abraham Baldwin Agricultural College, Tifton, GA and Michael J Maw, Department of Agriculture, Abraham Baldwin Agricultural College, Tifton, GA
2. Differences between Foliar Application and Soil Application of Plant Nutrients and Effectiveness against Drought at Different Time Points in Soybean Development.
Gracey Moffitt, Hutson School of Agriculture, Murray State University, Murray, KY, US and Megan Taylor, HSOA, Murray State University, Murray, KY
3. Differences in Absorption and Efficacy of Foliar Applied Boron and Manganese in Corn (*Zea Mays*) and Soybeans (*Glycine Max*).
Alec Fewkes, Hutson School of Agriculture, Murray State University, Murray, KY
4. Foliar Application of Acetic Acid and Effectiveness Against Drought at Different Time Points in Soybean (*Glycine max*) Development.
Miranda Lynn Rudolph, Hutson School of Agriculture, Murray State University, Murray, KY, US and Megan Taylor, HSOA, Murray State University, Murray, KY
5. Differences in Absorption of Foliar Boron and Manganese Solutions Applied to Foliage and Soil in Soybeans.
Kyle Krieger, Murray State University, Murray, IN, US and Megan Taylor, HSOA, Murray State University, Murray, KY
6. Understanding the Effect of Fusarium Head Blight Resistance on Agronomic Characteristics of Soft Red Winter Wheat.
Maggie Gillum, University of Kentucky, Lexington, KY, US and David A. Van Sanford, Department of Plant & Soil Sciences, University of Kentucky, Lexington, KY

GRADUATE STUDENT POSTER COMPETITION – M.S. STUDENTS

7. The Impacts on Yield, Fiber Quality and Net Returns with Mixing Two Cottonseed Cultivars On-Farm in Georgia.
Meredith McGlamory, Crop and Soil Science, University of Georgia, Tifton, GA, US, Camp C Hand, University of Georgia-Tifton, Tifton, GA, US, Bill Tyson, Cooperative Extension Service, Bulloch County, University of Georgia, Statesboro, GA, Tony Barnes, University of Georgia, Tifton, GA, Yangxuan Liu, University of Georgia, Tifton, Colton Moon, University of Georgia Extension, Cochran, Benjamin Reeves, University of Georgia Extension, Nashville and Jeremiah Kichler, Colquitt County Extension, University of Georgia, Moultrie, GA
8. Divergent Selection for Anthesis of Annual Ryegrass (*Lolium multiflorum*).
Prakriti Adhikari, Plant and Soil Science, Mississippi State University, Starkville, MS
9. Salinity Tolerance in Elymus.
Hunter Pegram, Plant and Soil Sciences, Mississippi State University, Starkville, MS
10. Isolation and Culture of Epichloe for Re-Infection of Endophyte-Free Southeastern Wildrye (*Elymus glabriflorus*).
Bryna Haile, Plant and Soil Science, Mississippi State University, Mississippi State, MS, US and Jesse I. Morrison, 117 Dorman Hall, Mississippi State University, Mississippi State, MS
11. Impact of Biostimulants at Variable Nitrogen Rates in Mississippi Corn Production Systems.
Praveen Gajula, Plant and soil sciences, Mississippi State University, Starkville, MS, US, Jagmandeep Singh Dhillon, Plant and Soil Sciences, Mississippi State University, Starkville, MS, US and Corey J Bryant, Mississippi State Delta Research Center, Stoneville, MS, US
12. Pollen Study in Zinnia (*zinnia elagans*) Floral Color and Pollinator Diversity in Western Kentucky.
Laxmi Prasanna Shakamudi, Masters in Agriculture Sciences, Murray State University, Murray, KY, US
13. Use of Sustainability Indicators to Evaluate Differences in Crop Management with Purposes of Environmental Impact Assessment.
Marina Duarte de Val, Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US, Brenda Ortiz, Crop, Soil and Environmental Science, Auburn University, Auburn, Michelle R. Worosz, Agricultural Economics & Rural Sociology, Auburn University, Auburn, AL, Megan Thurmond, Crop, Soil, and Environmental Sciences, Auburn University, Auburn, AL and Audrey V. Gamble, Department of Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US

14. Determining Soil Properties Using Hyperspectral Reflectance.
Shubekshya Shah, Plant and Soil Sciences, University of Florida, Gainesville, FL, US
15. Yield and Economic Response of Peanut to Different Rates of Prohexadione Calcium.
Kulpreet Singh, Agronomy, University of Florida, Jay, FL, US
16. Landscape Variation of Soil Properties under Corn Field in Kentucky.
Sai Neela Kesumala, Agribusiness, Murray State University, Murray, Murray, US
17. The Influence of Planting Date and Harvest Date on Peanut (*Arachis hypogaea* L.) Seed Germination and Vigor.
Savannah Banner, University of Georgia-Tifton, Hahira, GA, US, W. Scott Monfort, Crop and Soil Sciences, The University of Georgia, Tifton, GA, Timothy L. Grey, Crop & Soil Sciences, University of Georgia, Tifton, GA and R. Scott Tubbs, Crop & Soil Sciences, University of Georgia-Tifton, Tifton, GA, US

GRADUATE STUDENT POSTER COMPETITION – Ph.D. STUDENTS

18. Impact of Recent Climate Change on Corn, Rice, and Wheat in Southeastern USA.
Ramandeep Kumar¹, Sunny Kumar², Kamal Vatta², Raju Bheemanahalli³, Jagmandeep Singh Dhillon⁴ and Krishna Reddy⁵, (1) Mississippi State University, Starkville, MS, US, (2) Economics and Sociology, Punjab Agriculture University, Ludhiana, India, (3) 1712 Claflin Road, Kansas State University, Manhattan, KS, (4) Plant and Soil Sciences, Mississippi State University, Starkville, MS, US, (5) USDA ARS, Stoneville, MS.
19. Can Adaptive Nutrient Management Enhance Corn Productivity And Profitability?
Solomon Amissah, University of Georgia, Tifton Campus, GA, Tifton, GA, US, Godfred Ankomah, Agriculture, University of Georgia-Tifton, Tifton, GA, US, Glendon Harris, University of Georgia-Athens, Tifton, GA, Dorcas Franklin, Crop and Soil Sciences, University of Georgia, Athens, GA, Juan Carlos Diaz-Perez, Department of Horticulture, University of Georgia, Tifton, GA, Miguel L. Cabrera, Crop & Soil Sciences, University of Georgia, Athens, GA and Henry Sintim, University of Georgia, Tifton, GA, US
20. Effects of Irrigation, Nitrogen Application Rate, and Plant Growth Regulation on Biomass, Nutrient Uptake, and Lint Yield of Cotton.
Ved Parkash, Crop and Soil Sciences, University of Georgia, Tifton, GA, US, John Snider, Crop and Soil Sciences, University of Georgia, Tifton, GA, Joshua M Lee, University of Georgia, Tifton, GA, Camp C Hand, University of Georgia-Tifton, Tifton, GA, US, Amrit Pokhrel, University of Georgia, Tifton, GA, US and Rebekah Bailey Lawson, Crop and Soil Science, UGA, Tifton, GA, US
21. Modeling Carbon Emissions for Sorghum in the Southern Great Plains.
Donovan Davis, Texas A&M University, College Station, TX, US, Nithya Rajan, Soil and Crop Sciences, Texas A&M University, College Station, TX and Pramod Pokhrel, Department of Soil and Crop Sciences, Texas A&M University, College Station, TX, US

22. Integrative Effect of Tillage, Cover Crop and Organic Amendments on Soil Health and Cotton Productivity.
Godfred Ankomah, Agriculture, University of Georgia-Tifton, Tifton, GA, US,
Solomon Amissah, University of Georgia, Tifton Campus, GA, Tifton, GA, US and
Henry Sintim, University of Georgia, University of Georgia-Tifton, Tifton, GA, US
23. Effect of Integrating Cover Crops and Different Nitrogen Rate on Corn Production.
Namita Sinha, Plant and Soil Sciences, Mississippi State University, Mississippi State,
MS, US, Jac Varco, Plant and Soil Sciences, Mississippi State University, Mississippi
State, MS and Jagmandeep Singh Dhillon, Plant and Soil Sciences, Mississippi State
University, Starkville, MS, US
24. Bibliometric Analysis of Management Practices in US Corn Production.
Namita Sinha, Plant and Soil Sciences, Mississippi State University, Mississippi State,
MS, US and Jagmandeep Singh Dhillon, Plant and Soil Sciences, Mississippi State
University, Starkville, MS, US
25. The Advanced Technique of Biomass and Yield Prediction in Potatoes Using UAV-Lidar
Systems.
Ayush Sharma, Soil and Water Sciences, University of Florida-Soil & Water Sciences,
Gainesville, FL, US
26. Prediction of Greenhouse Gas Emissions from Cotton Fields under Conservation
Cropping Systems in East Central Texas Using the DSSAT Model.
Noriki Miyanaka¹, Nithya Rajan², Steven T. Pires³, Kenneth D. Casey⁴, Sk. Musfiq Us
Salehin¹, Peter J. Tomlinson⁵ and Jaehak Jeong⁶, (1) Texas A&M University, College
Station, TX, US, (2) Soil and Crop Sciences, Texas A&M University, College Station,
TX, (3) Cotton Incorporated, Cary, NC, Cary, NC, (4) Texas Agrilife Research-Amarillo,
Amarillo, TX, US, (5) 2004 Throckmorton Plant Science Center, Kansas State
University, Manhattan, KS, US, (6) Texas A&M AgriLife Research, Texas A&M
AgriLife Research, Temple, TX, US
27. Evaluation of Subsurface Drainage in a Cotton Production System.
Tyler Soignier¹, Brian Pieralisi², Darrin M. Dodds³, Gene Spencer⁴, L. Jason Krutz⁴,
Whitney Crow⁴, William Joseph Rutland⁵, Bradley Norris⁵ and Eli Hobbs⁶, (1)
Mississippi State University, Mississippi State University, MS, US, (2) Dorman Hall,
Mississippi State, MS, US, (3) Plant and Soil Sciences, Mississippi State University,
Mississippi State, MS, (4) Mississippi State University, Stoneville, MS, (5) Mississippi
State University, Mississippi State, MS, US, (6) Mississippi State University, Starkville,
MS, US
28. Breeding Cotton for Determinate Growth Habit: Remobilizing End-of-Season Perennial
Reserves for Increased Fiber Yield and Reduced Regrowth.
Salman Naveed, Plant and Environmental Sciences, Clemson University, Florence, SC,
US

PROFESSIONAL POSTER – CROPS

29. Cotton Variety Performance in Mississippi.
Bradley Norris¹, Brian Pieralisi², William Joseph Rutland¹ and Tyler Soignier³, (1) Mississippi State University, Mississippi State, MS, US, (2) Dorman Hall, Mississippi State, MS, US, (3) Mississippi State University, Mississippi State University, MS, US
30. A DSSAT Crop Model-Based Study on the Feasibility of Double-Cropping Cowpea and Wheat in Texas High Plains.
Prem Woli¹, Gerald R. Smith², Charles R. Long², Jackie C. Rudd³, Qingwu Xue³ and Francis M. Rouquette Jr.², (1) Texas A&M AgriLife Research, Fort Worth, TX, US, (2) Texas A&M AgriLife Research and Extension Center at Overton, Overton, TX, (3) Texas A&M AgriLife Research and Extension Center at Amarillo, Amarillo, TX
31. Cotton Variety Performance in Mississippi.
Brian Pieralisi¹, William Joseph Rutland², Bradley Norris², Eli Hobbs³ and Tyler Soignier⁴, (1) Dorman Hall, Mississippi State, MS, US, (2) Mississippi State University, Mississippi State, MS, US, (3) Mississippi State University, Starkville, MS, US, (4) Mississippi State University, Mississippi State University, MS, US
32. Impact of Defoliant Drift on Late-Planted Cotton in Georgia.
Camp C Hand, University of Georgia-Tifton, Tifton, GA, US, Stanley Culpepper, University of Georgia, Tifton, GA and John Snider, Crop and Soil Sciences, University of Georgia, Tifton, GA
33. Fungicide Application Timing and Efficacy for Controlling Soil-Borne Disease in Peanut.
Brendan Zurweller, Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, US, Jeff Gore, Delta Research and Extension Center, Mississippi State University, Stoneville, MS and Justin May, Mississippi State University, MS
34. A Geospatial Decision-Support System for Mississippi Corn Producers.
Patrick J. English, Delta Research & Extension Center, Mississippi State University, Stoneville, MS, US and Sherri L. DeFauw, Ascend Geospatial LLC, Cleveland, MS

PROFESSIONAL POSTER – SOILS

35. Does Intensifying Forage Cropping Systems Influence Soil Physical and Chemical Properties?
Bronc Finch, Oklahoma, University of Arkansas, Alexander, AR, US
36. Soil Health and Cotton Yields in the “Old Rotation,” Alabama’s Continuous Cotton Experiment (Est. 1896).
Anna Johnson, Crop, Soil and Environmental Sciences, Auburn University, Auburn, AL, US, Dennis P. Delaney, Crop, Soil & Environmental Sciences, Auburn University,

Auburn, AL and Audrey V. Gamble, Department of Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US

37. Contribution of Soil Science Students to Effective Learning Experiences in Sustainable Agriculture.

Lin P. Handayani, Hutson School of Agriculture, Murray State University, Murray, KY, US

SUNDAY, FEBRUARY 5, 2023

Registration: 8:00 AM - 5:00 PM

LOCATION: OMNI OKLAHOMA CITY—FIVE MOONS 3

GRADUATE STUDENT ORAL COMPETITION – M.S. STUDENTS

Moderator: Trent Irby, Mississippi State University

7.55 AM	Opening Remarks
8.00 AM	Assessment of Leguminous Cover Crops for Use in <i>Saccharum</i> . Dylan Hollowell , Mississippi State University, Mississippi State, MS, US and Brian S. Baldwin, Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS
8.15 AM	Effects of Ammonium Thiosulfate and Potassium Thiosulfate on Nitrification in Soils. Lane Galloway , Auburn University, Auburn, AL, US, Audrey V. Gamble, Department of Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US, Beth Guertal, Crop, Soil and Environmental Science, Auburn University, Auburn, AL and Zach Ogles, Tessengerlo Kerley, Inc., Phoenix, AZ
8.30 AM	Evaluating Wide Row Cotton Production Systems in Georgia. Caitlyn Lawton ¹ , John Snider ² , Phillip Roberts ³ , Peng Chee ³ and Camp C Hand ⁴ , (1) Crop and Soil Sciences, University of Georgia, Tifton, GA, US, (2) Crop and Soil Sciences, University of Georgia, Tifton, GA, (3) University of Georgia, Tifton, GA, (4) University of Georgia-Tifton, Tifton, GA, US
8.45 AM	Managing Iron Deficiency Chlorosis (IDC) in Soybean through a Cropping System Approach. Katelin Waldrep ¹ , Mary Love Tagert ¹ , Mark P. Harrison ² and Justin McCoy ² , (1) Agricultural and Biological Engineering, Mississippi State University, Mississippi State, MS, (2) North Mississippi Research and Extension Center, Mississippi State University, Verona, MS
9.00 AM	Evaluating the Impact of Different Biostimulants at Variable Nitrogen Rates in Mississippi Corn Production Systems. Praveen Gajula , Plant and soil sciences, Mississippi State University, Starkville, MS, US, Jagmandeep Singh Dhillon, Plant and Soil Sciences, Mississippi State University, Starkville, MS, US and Corey J Bryant, Mississippi State Delta Research Center, Stoneville, MS, US
9.15 AM	Impact of Row Configuration and Planting Population on Cotton Development and Yield. William Joseph Rutland ¹ , Brian Peralisi ² , Darrin M. Dodds ³ , Whitney Crow ⁴ , Justin McCoy ⁵ , Wes Lowe ⁶ , Bradley Norris ¹ , Tyler Soignier ⁷ and Eli Hobbs ⁸ , (1)

	Mississippi State University, Mississippi State, MS, US, (2) Dorman Hall, Mississippi State, MS, US, (3) Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, (4) Mississippi State University, Stoneville, MS, (5) North Mississippi Research and Extension Center, Verona, MS, (6) Agricultural and Biological Engineering, Mississippi State University, Starkville, MS, (7) Mississippi State University, Mississippi State University, MS, US, (8) Mississippi State University, Starkville, MS, US
9.30 AM	Screening and Selection for Resistance to Gray Leaf Spot (<i>Pyricularia oryzae</i>) in Early Planted Annual Ryegrass. Calyn Adams , Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, US and Jesse I. Morrison, 117 Dorman Hall, Mississippi State University, Mississippi State, MS
9.45 AM	Evaluating the Impact of Row Arrangement and Variety on Yield, Yield Components, and Fiber Quality in Georgia Cotton. Jordon Montana Hall , University of Georgia-Tifton, Moultrie, GA, US, Caitlyn Lawton, Crop and Soil Sciences, University of Georgia, Tifton, GA, US, John Snider, Crop and Soil Sciences, University of Georgia, Tifton, GA, Phillip Roberts, University of Georgia, Tifton, GA and Camp C Hand, University of Georgia-Tifton, Tifton, GA, US
10.00 AM	Break
10.15 AM	Manure Rate and Placement Effects on Gas Emissions and Nutrient Conservations in Semi-Arid Organic Cotton. Nicholas Boogades , Texas A&M AgriLife, College Station, TX, US
10.30 AM	Breeding to Mitigate Secondary Dormancy in Cool-Season Annual Legumes Using Phenotypic Recurrent Selection. Jared McLaurin , Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, US
10.45 AM	Evaluation of Precision Technologies on Planters to Optimize Seeding Depth and Seeding Rate on Cotton Fields. Pablo Roberto Duarte Hernandez , Auburn, AL, US
11.00 AM	Peanut Growth Simulation Modelling to Identify Deficit Irrigation Management Strategies on Sandy Loam Soils of Central Alabama. Marina Duarte de Val ¹ , Brenda Ortiz ² , Franciele Morlin Carneiro ² , Bruno P. Lena ³ , Rishi Prasad ⁴ , Anh T. Nguyen ⁵ , Arpita Sharma ⁶ , Audrey V. Gamble ⁷ and Anna Johnson ⁴ , (1) Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US, (2) Crop, Soil and Environmental Science, Auburn University, Auburn, (3) AL, Auburn University, Auburn, AL, (4) Crop, Soil and Environmental Sciences, Auburn University, Auburn, AL, US, (5) Auburn University, Auburn, AL, US, (6) Crop soil and environmental Sciences, Auburn University, Auburn, AL, US, (7) Department of Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US
11.15 AM	Soil Health Under Different Cover Crop Grazing Periods in the Southeastern United States. Wade Reiter , Auburn University, Auburn, AL, US, Audrey V. Gamble, Department of Crop, Soil and Environmental Science, Auburn University, Auburn, AL, US, Hayley Crowell, Auburn University, Boca Raton, FL, Yucheng

	Feng, Crop, Soil and Environmental Sciences, Auburn University, Auburn, AL and Kipling Balkcom, Agricultural Research Service, United States Department of Agriculture, Soil Dynamics Research Lab, Auburn, AL
11.30 AM	The Effect of Adjuvants on the Efficacy of a New Prohexadione Calcium Formulation in Peanut (<i>Arachis hypogaea</i> L.). Savannah Banner , University of Georgia-Tifton, Hahira, GA, US, W. Scott Monfort, Crop and Soil Sciences, The University of Georgia, Tifton, GA, R. Scott Tubbs, Crop & Soil Sciences, University of Georgia-Tifton, Tifton, GA, US and Timothy L. Grey, Crop & Soil Sciences, University of Georgia, Tifton, GA
11.45 AM	Multi-State Examination of Stand Establishment and Yield Response to in-Furrow Fertilizer Applications on Peanut (<i>Arachis hypogaea</i>). Macie Wheeler , Lenox, GA, US, W. Scott Monfort, Crop and Soil Sciences, The University of Georgia, Tifton, GA, Kris B. Balkcom, Wiregrass Research and Extension Center, Auburn University, Headland, AL, Dan Anco, Department of Plant and Environmental Sciences, Clemson University, Blackville, SC, David L. Wright, University of Florida-North Florida Research & Education Center, Quincy, FL, David L. Jordan, Crop Science, North Carolina State University, Raleigh, NC, Maria Balota, Tidewater Agricultural Research & Extension Center, Virginia Tech, Suffolk, VA and Emi Kimura, Texas A&M AgriLife Extension Service, Vernon, TX

GRADUATE STUDENT ORAL COMPETITION – Ph.D. STUDENTS

Moderator: Jagmandeep Dhillon, Mississippi State University

1.00 PM	Use of Proximal Sensors for Assessing Potassium and Nitrogen Interactions in Potatoes (<i>Solanum tuberosum</i> L.). Simranpreet K Sidhu , University of Florida, Gainesville, FL, US, Ayush Sharma, Soil and Water Sciences, University of Florida, Gainesville, FL, Navdeep Kaur, M.Sc, UF, IFAS, Gainesville, FL, Amanpreet K Sandhu, Soil and Water Sciences, UF, IFAS, Gainesville, FL, Winniefred Griffin, University of Florida, Gainesville, FL, Diego Arruda Huggins de Sa Leitao, Soil, Water, and Ecosystem Sciences, University of Florida, Gainesville, FL, Lincoln Zotarelli, Horticultural Sciences Department, University of Florida, Gainesville, FL and Lakesh Sharma, Cooperative Extension, University of Florida, Gainesville, FL
1.15 PM	Plant Tissue Analyses: Assessing Nutrient Sufficiency Ranges for Corn. Solomon Amissah , University of Georgia, Tifton Campus, GA, Tifton, GA, US, Godfred Ankomah, Agriculture, University of Georgia-Tifton, Tifton, GA, US, Benjamin Agyei, Plant, Soil and Microbial Sciences, Michigan State University, East Lansing, MI, US, Glendon Harris, University of Georgia-Athens, Tifton, GA, Dorcas Franklin, Crop and Soil Sciences, University of Georgia, Athens, GA, Juan Carlos Diaz-Perez, Department of Horticulture, University of Georgia, Tifton, GA, Miguel L. Cabrera, Crop & Soil Sciences, University of Georgia, Athens, GA and Henry Sintim, University of Georgia-Tifton, Tifton, GA, US
1.30 PM	Cotton Lint Yield and Yield Components Response to Yield-Goal Based Fertilizer Application and Plant Growth Management. Ved Parkash , Crop and Soil Sciences, University of Georgia, Tifton, GA, US, John Snider, Crop and Soil Sciences, University of Georgia, Tifton, GA, Camp C

	Hand, University of Georgia-Tifton, Tifton, GA, US and Glendon Harris, University of Georgia-Athens, Tifton, GA
1.45 PM	Crop Rotation and Cover Crop Effects on Soil Moisture in a Transitional Organic System. Lauren Selph , Plant and Soil Sciences, Texas Tech University, Lubbock, TX, Katie L. Lewis, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX and Paul B. DeLaune, Texas A&M AgriLife Research, Vernon, TX
2.00 PM	Quantifying the GHG Impact of Grain Sorghum Production in the Texas High Plains. Donovan Davis ¹ , Nithya Rajan ² and Pramod Pokhrel ¹ , (1)Texas A&M University, College Station, TX, US, (2)Soil and Crop Sciences, Texas A&M University, College Station, TX
2.15 PM	Effect of Cover Crops and Tillage on Soil Bacterial Community Composition and Soil Quality in East-Central Mississippi Soybean Production System. Namita Sinha ¹ , Brett Rushing ² , William L. Kingery ³ , Shankar Ganapathi Shanmugam ⁴ and Michael S. Cox ⁴ , (1)Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, US, (2)Coastal Plain Experiment Station, Mississippi State University, Newton, MS, (3)Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, (4)Plant and Soil Sciences, Mississippi State University, Mississippi State, MS
2.30 PM	Cotton Productivity and Quality As Influenced by Nitrogen Application and Number of Seeds Planted per Hill. Godfred Ankomah , Agriculture, University of Georgia, Tifton, GA, Solomon Amissah, University of Georgia, Tifton Campus, GA, Tifton, GA, and Henry Sintim, University of Georgia, University of Georgia-Tifton, Tifton, GA
2.45 PM	Crop-Climate Link of Corn, Rice, and Wheat in Southeastern USA. Ramandeep Kumar ¹ , Sunny Kumar ² , Kamal Vatta ² , Raju Bheemanahalli ³ , Jagmandeep Singh Dhillon ⁴ and Krishna Reddy ⁵ , (1) Mississippi State University, Starkville, MS, US, (2) Economics and Sociology, Punjab Agriculture University, Ludhiana, India, (3) 1712 Claflin Road, Kansas State University, Manhattan, KS, (4) Plant and Soil Sciences, Mississippi State University, Starkville, MS, US, (5) USDA ARS, Stoneville, MS
3.00 PM	Break
3.15 PM	Using Process-Based Model to Assess the Impact of Climate Change on Maize Production. Lucas Ramon Teixeira Nunes , Auburn University, Auburn, AL, US and Brenda Ortiz, Crop, Soil and Environmental Science, Auburn University, Auburn
3.30 PM	Hyperspectral Vegetation Indices, Correlation, and Regression Models for Estimating Physiological Parameters of Some Winter Crops. Ifekristi Ogunwobi , University of Florida, Gainesville, FL, US
3.45 PM	Does Cleanout Frequency of Broiler Litter Influence Corn Production? Rajveer Singh and Rishi Prasad, Crop, Soil and Environmental Sciences, Auburn University, Auburn, AL, US
4.00 PM	Improving Eastern Grasslands through Native Warm Season Grasses. Megan Berry , University of Tennessee-Knoxville, Knoxville, TN, US

4.15 PM	Effect of Extreme Drought on Growing Degree Days, Irrigation Demand and Cotton Growth in East Central Texas. Chiranjibi Poudyal , Department of Agronomy, Texas A&M University, College Station, TX, US, Nithya Rajan, Soil and Crop Sciences, Texas A&M University, College Station, TX, US, Curtis Adams, USDA-ARS, Walla Walla, WA, US, Steve Hague, 370 Olsen Blvd, Texas A&M University, College Station, TX, Mahendra Bhandari, Soil and Crop Sciences, Texas A&M AgriLife Research, Corpus Christi, TX, US and Robert G. Hardin, Cotton Ginning Research Unit, USDA-ARS, Stoneville, MS
4.30 PM	Development of a Maize-Cowpea Intercrop Model for DSSAT Version 4.8. Jacques Pierre ¹ , Willington Pavan ² and Upendra Singh ² , (1) Technologico Nacional de Mexico, Lexington, KY, US, (2) Research Division, International Fertilizer Development Center, Muscle Shoals, Muscle Shoals, AL

MONDAY, FEBRUARY 6, 2023

OMNI OKLAHOMA CITY—FIVE MOONS 3

PROFESSIONAL ORAL – CROPS

Moderator: Audrey Gamble, Auburn University

7.55 AM	Opening Remarks
8.00 AM	How Fast Can We Plant Soybean? Michael J. Mulvaney ¹ , Wes Lowe ² , Corey J Bryant ³ , Daniel Chesser ⁴ , Brian Mills ⁵ , Noah Harper ² , Parker Dulaney ⁶ and Raju Bheemanahalli ⁷ , (1) Highway 182, Mississippi State University, Mississippi State, MS, US, (2) Agricultural and Biological Engineering, Mississippi State University, Starkville, MS, (3) Mississippi State Delta Research Center, Stoneville, MS, US, (4) College of Agriculture and Life Sciences, Mississippi State University, Starkville, MS, (5) Delta Research and Extension Center, Mississippi State University, Stoneville, MS, (6) Ag Leader Technology, Starkville, MS, (7) Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS
8.15 AM	Harvest Regimens Affect Dry Matter Yields of Warm-Season Annual Forage Varieties in West-Tennessee. Madelyn Holbrook ¹ , Isaac Lepcha ² , Craig Darroch ³ and Clint Ary ³ , (1) Agriculture, Geosciences and Natural Resources, University of Tennessee, Martin, TN, US, (2) Department of Agriculture, Geosciences & Natural Resources, University of Tennessee-Martin, Martin, TN, US, (3) Agriculture, Geosciences and Natural Resources, University of Tennessee Martin, Martin, TN
8.30 AM	Modeling Effects of DSSAT Substor Potato Model on Yield and Quality of Potato Crop with Phosphorus Fertilization in Florida. Uzair Ahmad , Soil, Water and Ecosystem Sciences, University of Florida, Gainesville, FL, US, Amanpreet K Sandhu, Soil and Water Sciences, UF, IFAS, Gainesville, FL, US and Lakesh Sharma, Cooperative Extension, University of Florida, Gainesville, FL, US

8.45 AM	Using Leaf Osmotic Potential to Evaluate Drought Tolerance of Cotton in Southwest Texas. Xuejun Dong , Texas Agrilife Research-Uvalde, Uvalde, TX, US, Dale Mott, Soil and Crop Sciences, Texas A&M AgriLife Extension Service, College Station, TX, Benjamin McKnight, Soil and Crop Sciences, Texas A&M University, College Station, TX, US and Quan Zhou, Department of Statistics, Texas A&M University, College Station, TX
9.00 AM	Break
9.15 AM	Effect of Nitrogen Fertilization on Native Warm-Season Grasses Under Forage Management. Eric Bisangwa , Forestry, Wildlife and Fisheries, University of Tennessee-Knoxville, Maryville, TN, US, Jonathan D Richwine, University of Tennessee-Knoxville, Drummonds, TN, Patrick D Keyser, Center for Native Grasslands Management, Department of Forestry Wildlife and Fisheries, University of Tennessee - Knoxville, Knoxville, TN and Forbes R. Walker, Biosystems Engineering and Soil Science, University of Tennessee, Knoxville, TN
9.30 AM	Corn Yield Prediction Using High-Resolution UAV Multispectral Data and Machine Learning. Chandan Kumar ¹ , Partson Mubvumba ² , Yanbo Huang ³ , Krishna Reddy ⁴ and Jagmandeep Singh Dhillon ¹ , (1) Plant and Soil Sciences, Mississippi State University, Starkville, MS, US, (2) USDA-ARS, Stoneville, MS, (3) USDA-ARS, Mississippi State, MS, US, (4) USDA ARS, Stoneville, MS
9.45 AM	Effect of Split Sulfur Applications on Biomass and Yield of Potato Crop in Florida. Ayush Sharma, Soil and Water Sciences, University of Florida-Soil & Water Sciences, Gainesville, FL, US, Lakesh Sharma , Cooperative Extension, University of Florida, Gainesville, FL, US, Amanpreet K Sandhu, Soil and Water Sciences, UF, IFAS, Gainesville, FL, US, Simranpreet K Sidhu, University of Florida, Gainesville, FL, US and Navdeep Kaur, M.Sc, UF, IFAS, Gainesville, FL, US
10.00 AM	Climate Smart Row Crop Production with Cattle and Perennial Grass Rotations in Florida. Joseph Enye Iboyi ¹ , David L. Wright ² , Sheeja George ² and Ian M Small ³ , (1) University of Florida West Florida Research & Education Center, Jay, FL, US, (2) University of Florida-North Florida Research & Education Center, Quincy, FL, (3) North Florida Research and Education Center, University of Florida, Quincy, FL
10:15 AM	Break

10.30 – 11.30 AM Agronomy Business Meeting and Awards

**119th Meeting of
The Southern Association of Agricultural Scientists
Biochemistry and Biotechnology
Omni Oklahoma City Hotel
Route 66 Room
Oklahoma City, Feb. 6th, 2023**

8:55 Introductory Remarks – Dr. Jeffrey O. Boles, President

9:00 **Jong Hyun Ham** and Rosalie Calderon, “**Artificial microbial community to promote soybean growth and health**” Department of Plant Pathology and Crop Physiology, Louisiana State University Agricultural Center, Baton Rouge, LA.

9:30 **Charles Chen**, “**Optimizing breeding efficiency with functional genomic knowledge**” Department of Biochemistry and Molecular Biology, Oklahoma State University, Stillwater, OK

10:00 **Yinping Jiao**¹, Zhanguo Xin², Doreen Ware^{3,4}, Chad Hayes², “Sorghum mutant populations for the gene function study and breeding” ¹Institute for Genomics of Crop Abiotic Stress Tolerance (IGCAST), Department of Plant and Soil Science, Texas Tech University, Lubbock, TX, ²Plant Stress and Germplasm Development Unit, USDA-ARS, Lubbock, TX, ³Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, ⁴U.S. Department of Agriculture-Agricultural Research Service, NEA Robert W. Holley Center for Agriculture and Health, Cornell University, Ithaca, New York, USA.

10:30 – 10:45 Short Break

10:45 **Alexander Lim**, “**Genome-wide structural variation modulates transcriptional variation in winter wheat**” 355 Noble Research Center, Oklahoma State University, Stillwater, OK.

11:15 **Hong Zhang**, “**Increasing crop yield by increasing crop’s abiotic stress tolerance**” Department of Biological Sciences, Texas Tech University, Lubbock, TX.

11:45 Ramesh Katam, Kundai Chibanguza, Varshini Sridhar, Joseph Bundy, Amber Deets, Sydney Lyda **“Proteomics investigation of disease tolerance and nutraceutical properties in muscadine grapes”** Department of Biological Sciences, Florida A&M University, Tallahassee, FL.

12:15 – 1:15 Lunch Break

1:15 – 1:45 Poster Viewing Location: Omni Hotel 5 Moons 4

1:45 Avinash Shrestha, Puneet Kaur Mangat, Junghyun Shim, Lakhvir Kaur Dhaliwal, Nathaniel Jacob Turner, Rosalyn B. Angeles-Shim **“Genetic variations in the cotton landrace, Hopi, reduces gossypol content”** Department of Plant and Soil Sciences, Davis College of Agricultural Sciences and Natural Resources, Texas Tech University, Lubbock, TX

2:15 Ranjith Ramanathan, Frank Kiyimba, Morgan Denzer, Morgan Pfeiffer, Gretchen Mafi **“Application of metabolomics to understand beef color and limit meat wastage”** Department of Animal and Food Sciences, Oklahoma State University, Stillwater, OK.

2:15-2:30 Short Break

2:30 Bryan Naidenov and Charles Chen **“Convolutional neural networks can predict complex agronomic phenotypes from whole-genome graphic representations”** Department of Biochemistry and Molecular Biology, Oklahoma State University, Stillwater, OK

3:00 Caleb Watkins and Charles Chen **“Interrogation of Drought-Induced Chromatin Structural Variation in Winter Wheat.”** Department of Biochemistry and Molecular Biology, Oklahoma State University, Stillwater, OK

3:30 Felipe Cevallos and Nathan Richard Walker "Transcriptome analysis of the host-pathogen interaction of symptomatic and asymptomatic hosts plants during infection and colonization of *Ophiosphaerella korrae*" Department of Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK

4:00 Nathaniel Turner, Avinash Shrestha, Lakhvir Kaur, Rosalyn B. Angeles-Shim "Elucidating endogenous control of dormancy in Texas wintergrass (*Nassella leucotricha*)" Department of Plant and Soil Sciences, Davis College of Agricultural Sciences and Natural Resources, Texas Tech University, Lubbock, TX

4:30 Concluding Remarks

Poster Presentations

Omni Hotel

Room: 5 Moons 4 Monday, Feb. 6th, 8:00AM – 5:00 PM

Pallavi Dhiman, FNU Pallavi, Vikas Devkar, Gunvant Patil, Yinping Jiao "Deciphering the dynamics of Sugarcane aphid resistance mechanism in Sorghum" Institute for Genomics of Crop Abiotic Stress Tolerance (IGCAST), Department of Plant and Soil Science, Texas Tech University, Lubbock, TX.

Jing Zhang and Charles Chen, "Analyses Interactions Influence Between Environmental Variables and Large-scale Transcriptome Expression in Winter Wheat" 246 Noble Research Center Oklahoma State University Stillwater, OK

PROGRAM
2023 ANNUAL MEETING
Southern Region
American Society for Horticultural Science

FRIDAY

7:00 am -	6:00 pm	Registration Hotel Lobby
9:00 am -	5:00 pm	ASHS Board of Directors Five Moons 1
8:00 am -	5:00 pm	Southern Fruit Workers Five Moons 2
10:00 am -	12:00 pm	ACB Club Share and Networking Five Moons 5
12:00 pm -	5:00 pm	ACB Group Activities, Tour, and Meal Five Moons 5
1:00 pm -	5:00 pm	Watermelon Research Group Five Moons 3
1:00 pm -	5:00 pm	Horticulture Administrators Myriad
5:00 pm -	6:30 pm	Executive Committee Meeting Myriad
5:00 pm -	until	ACB Mixer TBA Five Moons 5

SATURDAY

7:00 am -	6:00 pm	Registration North Prefunction
8:00 am -	10:00 pm	Poster Set Up Room Five Moons 4
8:00 am -	12:00 pm	J. Benton Storey Horticulture Judging Contest Set Up Five Moons 5
8:00 am -	9:30 am	Education Section Myriad
8:00 pm -	12:30 pm	Fruit Crops Section Bricktown
8:00 am -	10:30 am	J. B. Edmond Undergraduate Student Paper Competition. Five Moons 7
8:00 am -	12:45 pm	Norman F. Childers M.S. Graduate Student Paper Competition Five Moons 1
8:30 am -	4:00 pm	Watermelon Research Group Five Moons 3
10:00 am -	3:45 am	Extension Section Myriad
10:00 am -	12:00 pm	Posters Authors Mount Posters Five Moons 5
12:00 pm -	5:00 pm	Poster Section Viewing Five Moons 4
12:00 pm -	5:00 pm	J. Benton Storey Horticulture Judging Contest Five Moons 5
1:00 pm -	6:00 pm	Warren S. Barham Ph.D. Student Paper Competition Five Moons 1
2:00 am -	4:30am	Vegetable Crops Section Bricktown

SUNDAY

7:00 am -	10:45 am	Registration North Prefunction
8:00 am -	10:45 pm	Poster Section Viewing Five Moons 5
8:00 am -	10:45 am	Vegetable Crops Section Paseo
8:00 am -	11:00 am	Floriculture, Ornamentals and Turf Section Pinon
8:00 am -	11:00 am	Fruit Crops Section Bricktown
8:00 am -	11:00 am	Postharvest & Biotechnology Section Route 66
9:00 am -	10:45am	ACB Business Meeting Oklahoma Station 3
11:00 am -	12:30 pm	Annual Business Meeting and Award Program Oklahoma Station
SAAS Program		
2:30 pm -	3:30 pm	SAAS Board Meeting Oklahoma Station 3
4:00 pm -	4:30 pm	SAAS General Business Meeting Oklahoma Station 3
SAAS Social		
5:00l		SAAS Social

REGISTRATION

Friday	7:00 am - 6 pm Hotel Lobby
Saturday	7:00 am - 6 pm North Prefunction
Sunday	7:00 am – 10:45 am North Prefunction

FRIDAY, February 3, 2023

ACB Activities

Room:	Five Moons 5
Time:	10:00 - 12:00 Club Share and Networking 12:00-5:00 Activity/Tour TBA 5:00 – Mixer exact time/place TBA
Presiding:	Emma Lagerhausen, ACB-President Nate Phillips, ACB Advisor

SRASHS Executive Committee

Room:	Myriad
Time:	5:00 - 6:30
Presiding:	Elina Coneva, Chair

ASHS Board of Directors

Room:	Five Moons 1
Time:	9:00 - 5:00

Presiding: Mike Neff, Coordinator

Working Groups

Listed at end of program

SATURDAY, February 4, 2023

J. BENTON STOREY UNDERGRADUATE JUDGING CONTEST

Room: Five Moons 5
Time: 8:00 - 12:00 Contest Set-Up
 12:00-5:00 Judging Contest
 5:00 -until Scoring contest
Presiding: Morgan Brown, ACB Vice-President
 Nate Philips, ACB Advisor

J. B. EDMOND UNDERGRADUATE STUDENT PAPER COMPETITION

Room: Five Moons 7
Presiding: Emma Lagerhausen,
 ACB-President, Moderator
 Matt Chappell, SRASHS President,
 Courtesy Welcome to Undergrads
 Catherine Simpson, 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: catherine.simpson@ttu.edu

8:00-10:30 - Order of Presentations roughly at 15 min intervals

1. **A Modified Cultural Protocol to Evaluate Spinach Germplasm Resistance to Oomycete Exposure in a Vertical Farm System.** River C. Dean^{1*}, Derek A. Dean¹, J. Alejandro Rojas², Garry V. McDonald¹, and Ryan W. Dickson¹, ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²217 Plant Science, Department of Entomology and Plant Pathology, University of Arkansas, Fayetteville, AR 72701 (gmcdonal@uark.edu)
2. **Characterization of Postharvest Phosphorus Dynamics in Peach Trees.** Lexi Coulombe^{1*}, Winfred Nziku², and Juan Carlos Melgar¹, ¹Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29634, ²EARTH University, Las Mercedes, Guacimo, Limon, Costa Rica, 70602. (acoulom@g.clemson.edu)
3. **Consumer and Professional Level Evaluation of *Pentas* Varieties Grown in Louisiana Landscapes.** Baileigh Snow^{1*}, Jeb Fields², Max McKeown², Paul Jackson¹, and Patricia Knight³. ¹School of Agricultural Sciences and Forestry, Louisiana Tech University, ²Hammond Research Station, Louisiana State University Agricultural Center, ³Mississippi State University. (JSFields@agcenter.lsu.edu)
4. **Evaluation of Fruit Quality of Arkansas Fresh-market Blackberries Grown on a Rotating Cross Arm Trellis,** Luke Norman^{1,2*}, Jordon Chenier¹, Renee Threlfall¹, and Amanda McWhirt³, ¹2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, TAMU 2133, College Station, TX 77843, Department of Horticultural Sciences, Texas A&M University, and ²2301 S. University Ave., Cooperative Extension Service, University of Arkansas, Little Rock, AR 72204 (rayman@tamu.edu)
5. **Grafted Pepper Field Production in Oklahoma.** Bryce Waugh*, Bizhen Hu, Izzy Gonzales, and Charles Fontanier, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74075-6027. (bryce.waugh@okstate.edu)
6. **Low-temperature Antimicrobial Intervention for In-shell Pecans.** Hannah Silensky^{1*}, Charles

Fontanier², and Ravi Jadeja¹, Department of Animal & Food Sciences, Oklahoma State University, Stillwater, OK 74078, ²Department of Horticulture & Landscape Architecture, Stillwater, OK 74078 (ravi.jadeja@okstate.edu)

7. **Novel Training Methods for Blackberry on the Rotating Cross Arm Trellis: Effects on Yield and Plant Growth.** Megan Jo Exner¹, Amanda Lay Walters¹, Thomas Zimmerman², Lizzy Herrera³, Aaron Cato³, and Amanda McWhirt^{3*}, 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, ³2301 S. University Ave, Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR 72204. (amcwhirt@uada.edu)
8. **Variation in Snap Bean Yield and Quality for Sequential Picking Windows Across Two Planting Times During Spring Production in Oklahoma.** Taylor Frentz*, Niels Maness, Jessica Richmond, Lynn Brandenberger and Bizhen Hu, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (taylor.frentz@okstate.edu)

NORMAN F. CHILDERS M.S. GRADUATE STUDENT PAPER COMPETITION

Room: Five Moons 1

Presiding: Elina Coneva, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: edc0001@auburn.edu

8::00 – 12:45 Order of Presentations roughly at 15 min intervals

1. **Assessing Blueberry Cultivar Performance in Open-Field and High Tunnel Production Systems.** Emily K. Wismer*, James D. Spiers, Melba R. Salazar-Gutierrez, Sushan Ru, and Elina D. Coneva, Department of Horticulture, Auburn University, Auburn, AL 36849. (ekw0038@auburn.edu)
2. **Comparison of Greenhouse Irrigation Methods on Petunia and Geranium.** Kayla Morrison* and Bruce Dunn, Department of Horticultural Sciences, Oklahoma State University, Stillwater, OK 74078-6027. (kayla.morrison@okstate.edu)
3. **Container Color and Irrigation Scheduling Can be Used to Manage Substrate Temperature for Crop Productivity in *Hydrangea paniculata*.** Ashley R. Edwards* and Jeb S. Fields, Hammond Research Station, Louisiana State University Agricultural Center, Hammond, LA 70403. (AREdwards@agcenter.lsu.edu)
4. **Effect of Different Concentrations of White and Red Kaolin Particle Film on Citrus Plant Water Use Dynamics.** Sharpton Toussaint* and Christopher Vincent, Department of Horticultural Sciences, University of Florida, Lake Alfred, FL 33850. (sharptontoussain@ufl.edu)
5. **Effects of N rate and Musketeer on Performance of ‘777’ Creeping Bentgrass (*Agrostis stolonifera*).** Ashton Franks*, Charles Fontanier, Molly Born, Grace Rembold, Abbie Wooten, and Zoe Protzman, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74075-6027. (ashton.franks@okstate.edu)
6. **Evaluating Broad Mite (*Polyphagotarsonemus latus*) Sampling Techniques in Blackberries.** Jared B. Linn^{1*}, A.J. Cato², and R.F. Keiffer², ¹University of Arkansas, Department of Horticulture, 316 Plant Science, Fayetteville, AR 72701, ²University of Arkansas, Department of Horticulture, 2301 S University Ave, Little Rock, AR 72204. (linn@uark.edu)
7. **Evaluating Nanocellulose Fibrils and Crystals for Use in Freeze Protection on Southern Highbush Blueberry.** Hannah M. E. Cowart^{1*}, Jamal Mohammed¹, Dario J. Chavez¹, Sudhagar Mani², Zach Williams³, Renée M. Holland³, and Rachel A. Itle¹, ¹Department of Horticulture, University of Georgia, Cowart Building, 210 Cowart Street, Griffin, GA 30223, ²College of Engineering, University of Georgia, 110 Riverbend Road, Athens, GA 30602, ³ANR Extension, University of Georgia, 203 S. Dixon Street,

Alma, GA 31510. (hannah.cowart@uga.edu)

8. **Evaluation of Coffee Chaff as a Substrate Component for Nursery Crop Production.** Jacob Rawls* and Anthony Witcher, Department of Agricultural and Environmental Sciences, Otis L. Floyd Nursery Research Center, Tennessee State University, McMinnville, TN 37110. (jrawls5@my.tnstate.edu)
9. **Exploring a Sustainable Approach to Control Salmonella enterica in Recirculating Water Systems for Vegetable Production.** Vania P. Mickos^{1*}, Steven Kitchens², Stuart Price², Daniel Wells¹, and Camila Rodrigues¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849, ²1130 Wire Road, Department of Pathobiology, College of Veterinary Medicine, Auburn University, Auburn, AL 36849. (vpm0003@auburn.edu)
10. **Freeze Protection Strategy in Peach Trees using Nanocellulose.** Deanna Bigio^{1*}, Rachel A. Itle¹, Sudhagar Mani² and Dario J. Chavez¹, ¹1109 Experiment St, 103 Cowart Building, Department of Horticulture, University of Georgia, Griffin Campus, GA 30224, ²110 Riverbend Road, 0155F Riverbend Research Center North, College of Engineering, University of Georgia, Athens, GA 30602. (dchavez@uga.edu)
11. **Impact of Red Blotch Virus on 'Blanc Du Bois'** Justin J. Scheiner^{1*}, Fran Pontasch¹, David Appel², Olufemi Alabi³, Department of Horticultural Sciences, 1 Texas A&M AgriLife Extension Service, HSF, 2134 TAMU, College Station, TX 77843; ²Department of Plant Pathology and Microbiology, Texas A&M AgriLife Extension, 413 Peterson Building, College Station, TX 77843; ³Department of Plant Pathology and Microbiology, Texas A&M AgriLife Extension Service, Weslaco Center, 2104 Business Hwy 83E, Weslaco, TX 78596. (jscheiner@tamu.edu)
12. **Mitigating Salinity Effect on Kale Through Split Root Application.** Dorcas Lukwesa*, Emmanuel Ayipio, Arnold Katende, Daniel E. Wells, and Melba Salazar-Gutierrez, Department of Horticulture, Auburn University, Auburn, AL 36849. (dzl0102@auburn.edu)
13. **Nutrient Competitive Effects in Chrysanthemum Amended with Flue Gas Desulfurization Gypsum.** Austin Lindquist^{1*}, Paul C. Bartley III¹, Kati Kent¹, Dexter Watts², Allen Torbert², ¹101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, ²USDA-ARS National Soil Dynamics Laboratory, 411 S. Donahue Dr., Auburn, AL 36832. (all0091@auburn.edu)
14. **Ornamental Kale and Chrysanthemum Growth Effects by Biochar Supplemental Rates.** Babita Lamichhane^{1*}, Bruce L. Dunn¹, Hardeep Singh², Bailey Norwood³, Angelika Ouedraogo⁴, and Ajay Kumar⁴, ¹342 Agriculture Hall, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078, ²4253 Experiment Dr., Jay, FL, 32565, Department of Agronomy, University of Florida, Gainesville, FL 32611, ³426 Agriculture Hall, Department of Agricultural Economics, Oklahoma State University, Stillwater, OK 74078, ⁴228 Agricultural Hall, Department of Biosystem and Agricultural Engineering, Oklahoma State University, Stillwater, OK 74078. (bruce.dunn@okstate.edu)
15. **Photo-selective Shade Nets Effects on Field Produced Dahlia and Snapdragon Cutflowers.** Harpreet Singh*, Bruce L. Dunn, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74075. (harpreet.singh11@okstate.edu)
16. **Physiological Responses of Bermudagrass Under Drought Stress.** Snigdha Arikilla^{1*}, Justin Quetone Moss¹, Mingying Xiang², Charles Fontanier³, Dennis Martin⁴, and Yanqi Wu⁵, ¹Department of Horticulture and Landscape Architecture Oklahoma State University, 358 Agricultural Hall, Stillwater, Oklahoma, 74078, ²Department of Horticulture and Landscape Architecture Oklahoma State University, Horticulture and Landscape Architecture, 358 Ag Hall, Stillwater, Oklahoma, 74078, ³Department of Horticulture and Landscape Architecture, Oklahoma State University, 355B Agricultural Hall, Stillwater, Oklahoma, 74078, ⁴Department of Horticulture and Landscape Architecture, Oklahoma State University, 356 Agricultural Hall, Stillwater, Oklahoma, 74078, ⁵Department of Plant and Soil Sciences, Oklahoma State University, Plant and Soil Sciences, 371 Ag Hall, Stillwater, OK, 74078. (mossjq@okstate.edu)
17. **Planting Distance Can Increase the Yield of PD Resistant Predominantly Vitis Vinifera Grapevine '502-20'.** Jarrett Price* and Elina Coneva, Department of Horticulture, Auburn University, Auburn, AL 36849. (jdp0068@auburn.edu)
18. **Scheduling Irrigation Events for Watermelon Production in a Coarse-textured Soil.** Paulo

Nakazawa^{1*}, Wheeler Foshee¹, Emmanuel Torres-Quezada², and Andre da Silva¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849, ²33446 Research Drive, Department of Horticulture, Virginia Tech, Painter, VA 23420. (phn0004@auburn.edu)

19. **Strategic Integration of Zero-emissions Landscape Equipment: Results from a Nation-wide Survey.** Kati Kent^{1*}, Paul C. Bartley III¹, Mark A. Hoffman², and Beau Brodbeck¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, ²1301 Shelby Center, Department of Mechanical Engineering, Auburn University, AL 36849. (kek0055@auburn.edu)
20. **Unexploited Potential for Baby Ginger (*Zingiber officinale*) Farming and Consumption in the Mid-Atlantic Region of USA.** Shem Elias* and Gordon Johnson, Department of Plant and Soil Sciences, University of Delaware, 210 South College Ave. Newark, DE 19716. (selias@udel.edu)

WARREN S. BARHAM Ph.D. GRADUATE STUDENT PAPER COMPETITION

Room: Five Moons 1

Presiding: Elina Coneva, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: edc0001@auburn.edu

1:00 – 6:00: Order of Presentations roughly at 15 min intervals

1. **Analysis of Branch Morphology and Tree Architecture among Various Peach Cultivars utilizing TLS Technology.** Jordan Knapp-Wilson^{1*}, Rafael Bohn Reckziegel², Alexander Bucksch³, and Dario J. Chavez⁴, ¹Cowart Building - Rm 214, Institute of Plant Breeding, Genetics, Genomics, University of Georgia, Griffin Campus, Griffin, GA 30223, ²Chair of Forest Growth and Dendroecology, University of Freiburg, Freiburg, Germany 79098, ³Miller Plant Sciences - Rm 2611, Department of Plant Biology, University of Georgia, Athens Campus, Athens, GA 30602, ⁴Physiology Building - Rm 105, Department of Horticulture, University of Georgia, Griffin Campus, Griffin, GA 30223. (jrk88473@uga.edu)
2. **Broccoli Production in Alabama: A Spring and Fall Comparison of Cultivar Performance.** Marcos de Barros^{1*}, Wheeler Foshee¹, Camila Rodrigues¹, Ayanava Majumdar², and Andre da Silva¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849, ²301 Funchess Hall, Department of Entomology, Auburn University, Auburn, AL 36849. (mzl0142@auburn.edu)
3. **Calculating Daily Reactive Nitrogen Emissions in Container Grown Plants.** Forrest J. Brown^{1*}, James S. Owen Jr.², Alex X. Niemiera¹, Ryan D. Stewart¹, Brian D. Strahm³, and James E. Altland², ¹School of Plant and Environmental Sciences, Virginia Tech, 185 Ag-Quad Ln., Blacksburg, VA 24061, ²U.S. Department of Agriculture, Agriculture Research Service, Application Technology Research Unit, 1680 Madison Ave., Wooster, OH 44691, ³ Department of Forest Resources and Environmental Conservation, Virginia Tech, 310 W. Campus Dr., Blacksburg, VA 24061. (fjbrown92@vt.edu)
4. **Consumer Acceptability of New Fresh-Market Muscadine Grapes from the University of Arkansas System Division of Agriculture Fruit Breeding Program,** Jordon Chenier^{1*}, Margaret Worthington², and Renee Threlfall¹, ¹2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, ²316 Plant Science, Horticulture Department, University of Arkansas, Fayetteville, AR 72701. (jchenier@uark.edu)
5. **Crop Phenology-based Application of Microbial Inoculants for Organic Pepper Production.** Asmita Nagila^{1*}, Joshua T. Harvey², and Daniel I. Leskovar², ¹2133 TAMU, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, ²Texas A&M AgriLife Research and Extension Center, 1619 Garner Field Rd., Uvalde, TX 78801. (d-leskovar@tamu.edu)
6. **Differential Gene Expression of Terpenoid Flavor Volatiles in Blueberry Cultivars.** Jamal Mohammed^{1*}, Rion T. Mooneyham¹, Savithri U. Nambeesan², Dario J. Chavez², Tej P. Acharya², Amanda O. Marabesi², Koushik Adhikari², Renée M. Holland³, D. Scott NeSmith¹, Kathleen S. Amaral¹, and Rachel A. Itle¹, ^{1,2}Department of Horticulture, University of Georgia, UGA– Cowart Building, 210 Cowart Street,

Griffin, GA 30223, ²Department of Food Science & Technology, University of Georgia, UGA – Melton Building, 350 Woodroof Drive, Griffin GA, 30223, ²Department of Horticulture, University of Georgia, 1111 Miller Plant Sciences, 120 Carlton Street, Athens, GA 30602, ³ANR Extension, University of Georgia Extension, 203 South Dixon Street, Suite 3, Alma, GA 31510. (jamal.mohammed@uga.edu)

7. **Effect of Cutting Time, Auxin Application Method, and Use of Surfactant on Propagation of *Magnolia grandiflora* ‘Southern Charm’.** Anthony T. Bowden^{1*}, Patricia R. Knight¹, Jenny B. Ryals¹, Christine E.H. Coker¹, Scott A. Langlois¹, Eugene K. Blythe², and Shaun R. Broderick³, ¹Coastal Research and Extension Center, South Mississippi Branch Experiment Station, P.O. Box 193, Poplarville, MS 39470, ²107 Comer Hall, College of Agriculture, Auburn University, Auburn, AL 36849, ³Truck Crops Branch Experiment Station, 2024 Experiment Station Rd., Crystal Springs, MS 39059. (ab1001@msstate.edu)
8. **Effect of X-ray Irradiation on Populations of *Pseudomonas amygdali* pv. *loropetali* pv. nov.** Jenny B. Ryals^{1*}, Patricia R. Knight¹, Rebecca A. Melanson², Anthony T. Bowden¹, Christine E. H. Coker³, Scott A. Langlois¹, Haley N. Williams¹, Jeremy M. Pickens⁴, Ronald C. Stephenson⁵, and Guihong Bi⁶, ¹1711 W North Street, South Mississippi Branch Experiment Station, Mississippi State University, Poplarville, MS 39470, ²Central Research and Extension Center, Mississippi State University, 1320 Seven Springs Road, Raymond, MS 39154, ³Coastal Research and Extension Center, Mississippi State University, 1815 Popp’s Ferry Road, Biloxi, MS 39532, ⁴Ornamental Horticulture Research Center, Auburn University, 411 N McGregor Ave, Mobile, AL 36689, ⁵Department of Agronomy and Horticulture, University of Nebraska, 202 Keim Hall, East Campus, Lincoln, NE 68583, ⁶Department of Plant and Soil Science, Mississippi State University, 32 Creelman Street, Mississippi State, MS 39762. (j.ryals@msstate.edu)
9. **Effects of PGRs on *Humulus lupulus* for Greenhouse Production.** Katie Stenmark*, Wes Rainey, Charles Fontanier, and Bruce L. Dunn, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74075-6027. (katie.stenmark@okstate.edu)
10. **Evaluation of *Citrullus* Genotypes for Resistance to Whitefly Transmitted Viruses.** Swikriti Pandey^{1*}, Alexander Luckew¹, Theodore McAvoy², Geoffrey Meru³ and Cecilia McGregor¹, ¹1111 Miller Plant Sciences Bldg., Institute of Plant Breeding, Genetics and Genomics, University of Georgia, Athens, GA 30602, ²2360 Rainwater Road, Department of Horticulture, University of Georgia, Tifton, GA 31793, ³18905 SW 280th St., Horticultural Sciences Department and Tropical Research Education Center, University of Florida, Homestead, FL 33031. (Swikriti.Pandey@uga.edu)
11. **Evaluation of Hemp (*Cannabis sativa* L.) Exposed to Cadmium: Alterations in Cell Morphology and Anatomy, Metal Accumulation and Localization, and In-Vitro Establishment of Explants.** Amanda O. Marabesi^{1*}, Timothy W. Coolong¹, Samantha Sherman², and Nirmal Joshee², ¹1111 Miller Plant Sciences, University of Georgia, Athens, GA 30602, ²1005 State University Drive, Fort Valley State University, Fort Valley, GA 31030. (aom@uga.edu)
12. **Impact of Nitrogen Rate on Plant Nutrient Content, Yield, and Fruit Quality in Two-Year-Old ‘Ouachita’ Blackberry.** Amanda Lay-Walters¹, Renee Threlfall², Trenton Roberts³, Ryan Dickson¹, and Amanda McWhirt⁴, ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²2650 N. Young Ave., Fayetteville, AR 72704, Department of Food Science, University of Arkansas, Fayetteville, AR 72701, ³1354 W Altheimer Dr., Department of Soil, Crop, and Environmental Sciences, University of Arkansas, Fayetteville, AR 72704, ⁴2301 S University Ave, Little Rock, AR 72204, Department of Horticulture, University of Arkansas, Little Rock, AR 72204. (amlay@uark.edu)
13. **Light Intensity Regulates Interactive Effects between Far-red Light and Temperature on Plant Growth and Morphology in Lettuce and Basil.** Sang Jun Jeong^{1*}, Genhua Niu², and Shuyang Zhen¹, ¹Horticulture/Forest Science Bldg, 495 Horticulture Rd, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, ²Texas A&M AgriLife Research, 17360 Coit Road, Dallas, TX 75252. (sangjun.jeong@ag.tamu.edu)
14. **Monitoring Foodborne Pathogens in Agricultural Water for Vegetable Production.** Zoila R. Chevez^{1*}, Laurel L. Dunn², Andre L.B.R. da Silva¹, and Camila Rodrigues¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, AL 36840, ²100 Cedar Street, Food Science Building, Department of Food Science and Technology, University of Georgia, GA 30602. (zdc0005@auburn.edu)

15. **Peach App: A Smart Irrigation Tool and Its Applicability.** Srijana Thapa Magar^{1*}, Dario J. Chavez¹, George Vellidis², Wesley Porter², Vasileios Liakos³, and Jose H. Andreis⁴, ¹105 Stress Physiology Building, Department of Horticulture, University of Georgia, Griffin Campus, 1109 Experiment Street, Griffin, GA 30223, ²0133 Engineering Building, Department of Crop and Soil Sciences, University of Georgia, Tifton Campus, 2360 Rainwater Road Tifton, GA 31793, ³Department of Agriculture and Agrotechnology, University of Thessaly, School of Agricultural Sciences, Gaiopolis, 41500 Larissa, Greece, ⁴Austn LTDA ME, Avenida Júlio Borella, 1404-Sala 303, Marau-RS 99150-000, Brazil. (st45674@uga.edu)
16. **Re-thinking the Fertilizer Nitrogen Application for Sweet Corn Production in the Southeastern U.S.** Jessica Paranhos^{1*}, Wheeler Foshee¹, Timothy Coolong², and Andre da Silva¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849, ²1111 Miller Plant Sciences, Department of Horticulture, University of Georgia, Athens, GA 30602. (jzg0142@auburn.edu)
17. **Strawberry (*Fragaria* × *ananassa*) Growth and Yield as Influenced by Irrigation Level and Plant Spacing.** Srijana Panta^{1*}, Thayne Montague^{1,2}, Russell W. Wallace², ¹Department 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. (Srijana.Panta@ttu.edu)
18. **The Mechanism of Resistance to Whitefly in Tomato Plants.** Thiago Rutz^{1*}, Alana Jacobson², Edward Sikora², Alvin Simmons³, and Andre da Silva¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849, ²301 Funchess Hall, Department of Entomology and Plant Pathology, Auburn University, Auburn, AL 36849, ³2700 Savannah Highway, USDA, ARS, U.S. Vegetable Laboratory, Charleston, SC 29414. (trd0017@auburn.edu)
19. **Vitamin C Biofortification in Arugula Leafy-greens Through Foliar Application of Ascorbic Acid.** Shivani R. Kathi^{1*}, Haydee E. Laza¹, Sukhbir Singh¹, Leslie D. Thompson², Wei Li³, and Catherine R. Simpson¹, ¹Department of Plant and Soil Science, Box 42122, Texas Tech University, Lubbock, TX, 79409, ²Department of Animal and Food Sciences, Box 42141, Texas Tech University, Lubbock, TX, 79409, ³100 Engineering Center, Box 43103, Department of Chemical Engineering, Texas Tech University, Lubbock, TX, 79409. (skathi@ttu.edu)

POSTERS

Room: Five Moons 4

Presiding: Justin Scheiner, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: jscheiner@tamu.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

Education

- 1G) **Food Bank Community Garden: Guest Usage, Desires, and Obstacles Faced in Providing a Community Garden.** Shelby Mendoza* and Justin Quetone Moss, Department of Horticulture &

Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (shelby.mendoza@okstate.edu)

- 2G) Minority Populations and Community Gardening in Southeastern Louisiana.** Kiarah Craft, School of Plant, Environmental and Soil Sciences, Louisiana State University, Baton Rouge, LA 70803. (kcraft8@lsu.edu)
- 3) Employing Technology to Enhance Fruit Production Extension Education.** Elina Coneva^{1*}, Edgar Vinson² and David Lawrence², ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849, ²Chilton Research and Extension Center, 120 Co. Rd. 756, Clanton, AL 35045. (edc0001@auburn.edu)

Floriculture, Ornamentals and Turf

- 4G) Precision Irrigation to Improve Water and Fertilizer Use Efficiency on Chrysanthemum and Poinsettia.** Kayla Morrison* and Bruce Dunn, Department of Horticultural Sciences, Oklahoma State University, Stillwater, OK 74078-6027. (kayla.morrison@okstate.edu)
- 5G) Container Color and Irrigation Scheduling can be used to Manage Substrate Temperature for Crop Productivity in *Hydrangea paniculata*.** Ashley R. Edwards* and Jeb S. Fields, Hammond Research Station, Louisiana State University Agricultural Center. (aredwards@agcenter.lsu.edu)
- 6G) Plug Substrate Compaction and Hydrology Revealed by X-ray Computed-Tomography.** Austin Lindquist^{1*}, Paul C. Bartley III¹, Andrii Shmatok², and Bart Prorok², ¹Department of Horticulture, Auburn University, AL 36849, ²Department of Material Sciences, Auburn University, AL 36849. (all0091@auburn.edu, paul.bartley@auburn.edu)
- 7G) Interactions Between N and PGR Rates on Dollar spot (*Clariireedia* spp.) Severity in ‘777’ Creeping Bentgrass (*Agrostis stolonifera*).** Ashton Franks*, Charles Fontanier, Molly Born, Grace Rembold, Abbie Wooten, and Zoe Protzman, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74075-6027. (ashton.franks@okstate.edu)
- 8UG) Microclimatic and Edaphic Influences on Species Distribution in a Riparian Park Lawn.** Zoe Protzman*, Charles Fontanier, Grace Rembold, Molly Born, and Abbie Wooten, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74075-6027. (charles.fontanier@okstate.edu)
- 9UG) Variation in Canopy Traits of Nimblewill (*Muhlenbergia schreberi*) Seedlings Derived from Two Locations.** Abbie Wooten*, Charles Fontanier, Grace Rembold, Molly Born, and Zoe Protzman. Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74075-6027. (charles.fontanier@okstate.edu)
- 10UG) Long-term Nitrogen Fertilizer Effects on Bermudagrass (*Cynodon* spp.) Soil Chemistry and Turfgrass Quality.** Molly Born*, Charles Fontanier, Grace Rembold, Abbie Wooten, and Zoe Protzman, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74075-6027. (charles.fontanier@okstate.edu)
- 11G) Soil-specific Calibration Curves for Two Soil Moisture Sensors and Twelve Potting Mixes.** Manveer Singh*, Erika Sweeten, Bruce L. Dunn, and Charles Fontanier, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74075-6027. ²Department of Plant and Soil Science, Mississippi State University, Mississippi State, MS 39762-9555. (charles.fontanier@okstate.edu)
- 12G) Evaluating the Effect of Foliarly Applied Auxin vs Traditionally Applied Auxin on Rooting of Sweetbay Magnolia, *Magnolia virginiana* L., for Use in Commercial Cutting Propagation.** Jenny B. Ryals^{1*}, Patricia R. Knight¹, Anthony T. Bowden¹, Christine E. H. Coker², Scott A. Langlois¹ and Patricia R. Drackett³, ¹Coastal Research and Extension Center, Mississippi State University, Poplarville, MS 39470, ²Coastal Research and Extension Center, Mississippi State University, Biloxi, MS 39532, ³The Crosby Arboretum, Mississippi State University, Picayune, MS 39466. (j.ryals@msstate.edu)
- 13G) Pollen Microscopy in Zoysiagrass Advanced Breeding Selection Lines for use in Haploid Production through Anther Culture.** Kamalpreet K. Dhillon^{1*}, Dario D. Rueda-Kunz², Dario J. Chavez², Mark A. Czarnota², Rachel A. Itle², and Brian M. Schwartz^{3,1}, ¹ Institute of Plant Breeding, Genetics & Genomics, University of Georgia, Tifton, GA, ² Department of Horticulture, University of Georgia, Griffin, GA, ³

Department of Crop and Soil Science, University of Georgia, Tifton, GA 31793.
(kamalpreetKaur.dhillon@uga.edu)

Fruit Crops

- 14G) Survey of Seasonal Variation in Blackberry Leaf and Petiole Nutrient Content in the Southeast.** Amanda Lay-Walters¹, Jayesh Samtani², Gina Fernandez³, John Havlin⁴, Elina Coneva⁵, Eric Stafne⁶, Natalie Bumgarner⁷, David Lockwood⁷, Zilfina Rubio Ames⁸, Amanda McWhirt⁹, ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²1444 Diamond Springs Rd., School of Plant and Environmental Science, Virginia Polytechnic and State University, Virginia Beach, VA 23455, ³270 Kilgore Hall, Department of Horticulture, North Carolina State University, Raleigh, NC 27695, ⁴101 Derieux Place, Department of Crop and Soil Sciences, North Carolina State University, Raleigh, NC 27695-7619, ⁵101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849, ⁶810 Hwy 26 West, Coastal Research and Extension Center, Mississippi State University, Poplarville, MS 39470, ⁷112 Plant Biotech Building, 2505 E J Chapman Dr., Plant Sciences Department, University of Tennessee, Knoxville, TN 37996, ⁸2360 Rainwater Road, Department of Horticulture, University of Georgia, Tifton, GA 31793-5766, ⁹2301 S University Ave, Little Rock, AR 72204, Department of Horticulture, University of Arkansas, Little Rock, AR 72204. (amcwhirt@uada.edu)
- 15G) Developing a Method for Rapid Cordon Establishment and Replacement in Wine Grapes.** Elda Quintana* and Justin Scheiner, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843. (equintana@tamu.edu)
- 16G) Evaluating the Use of Fall Seeded Cover Crops as a Vineyard Floor Management Practice in Texas.** Julia Minter^{1*}, Michael Cook², Julie Howe³, Elizabeth Pierson¹, and Justin Scheiner¹, ¹Department of Horticultural Sciences, Texas A&M University, 2134 TAMU, College Station, TX 77843, ²Texas A&M AgriLife Extension Service, 401 W. Hickory St., Denton, TX 76201, ³Department of Soil and Crop Sciences, Texas A&M University 2474 TAMU, College Station, TX 77843. (jminter@tamu.edu)
- 17G) Rootstock Effects on Yield, Fruit Quality and Labor Input of 'Cresthaven' Peach Trained to a Perpendicular V System.** Jarrett Price* and Elina Coneva., Department of Horticulture, Auburn University, 107 Comer Hall, Auburn, AL 36849. (jdp0068@auburn.edu)
- 18G) Influence of Sequential and Spontaneous Fermentations on Wine Quality of 'MidSouth'.** Haley N. Williams* and Eric T. Stafne, Mississippi State University, MAFES South MS Branch Experiment Station, 711 W. North St., Poplarville, MS 39470. (hnw111@msstate.edu)
- 19G) Development of a Novel Branching Index for Quantifying Branch Density in Peach.** Jordan Knapp-Wilson^{1*}, Rafael Bohn Reckziegel², Alexander Bucksch³, Dario J. Chavez⁴, ¹Cowart Building - Rm 214, Institute of Plant Breeding, Genetics, Genomics, University of Georgia, Griffin Campus, Griffin, GA 30223, ²Chair of Forest Growth and Dendroecology, University of Freiburg, Freiburg, Germany 79098, ³Miller Plant Sciences - Rm 2611, Department of Plant Biology, University of Georgia, Athens Campus, Athens, GA 30602, ⁴Physiology Building - Rm 105, Department of Horticulture, University of Georgia, Griffin Campus, Griffin, GA 30223. (jrk88473@uga.edu)
- 20G) Horticultural Performance of 'MP-29' Rootstock in Different Irrigation Regimes.** Srijana Thapa Magar^{1*}, Dario J. Chavez¹, George Vellidis², Wesley Porter², Vasileios Liakos³, Jose H. Andreis⁴, and Tom Beckman⁵, ¹Department of Horticulture, University of Georgia, Griffin Campus, Griffin, GA 30223, ²Department of Crop and Soil Sciences, University of Georgia, Tifton Campus, Tifton, GA 31793, ³Department of Agriculture-Agrotechnology, University of Thessaly, Larissa, Greece, ⁴Austn LTDA ME, Marau, RS 99150-000, Brazil, ⁵Southeastern Fruit and Tree Nut Research Laboratory, USDA-ARS, Byron, GA 31008. (st45674@uga.edu)
- 21G) Field Trials of Nanocellulose as a Freeze Protection Strategy for Peaches.** Deanna Bigio¹, Rachel A. Itle¹, Sudhagar Mani² and Dario J. Chavez¹, ¹Department of Horticulture, University of Georgia, Griffin Campus, GA 30224. ²College of Engineering, University of Georgia, Athens, GA 30609. (dchavez@uga.edu)
- 22G) Hyperspectral Imaging-based Prediction of Soluble Solid Content (SSC) in 'Vignoles' Grapes.**

Yihong Feng¹*, Amanda Fleming², Renee Threlfall², Dongyi Wang^{1,2}, ¹Department of Biological and Agricultural Engineering, University of Arkansas, 203 Engineering Hall, Fayetteville, AR 72701, ²Department of Food Science, University of Arkansas, 2650 N. Young Avenue, Fayetteville, AR 72704. (dongyiw@uark.edu)

23UG) Water-use Efficiency in Fruit Trees is Influenced by Sapwood to Leaf Area Ratio. Patrick Belk* and Virginia Hernandez-Santana. Plant & Environmental Sciences Department, Clemson University, Clemson, SC 29631 USA, and Institute for Natural Resources and Agrobiological (IRNAS), Spanish National Research Council (CSIC), Seville, ES. (belk2@g.clemson.edu)

24G) Growing Hops (*Humulus lupulus*) in Oklahoma: The Establishment Year. Katie Stenmark*, Charles Fontanier, Niels Maness, and Bruce L. Dunn, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74075-6027. (katie.stenmark@okstate.edu)

25) Delivery of Anti-microbial Compounds to Control Citrus Huanglongbing is Impacted by Compound Chemistry and Delivery Method. Myrtho Pierre*¹, Nabil Killiny², and Christopher Vincent, ¹Horticultural Science Department, University of Florida, Citrus Research and Education Center, 700 Experiment Station Road, Lake Alfred, FL 33850. mypierre@ufl.edu, ²Plant Pathology Department, University of Florida, Citrus Research and Education Center, 700 Experiment Station Road, Lake Alfred, FL 33850. (mypierre@ufl.edu)

26) Harvest Date Impact on Fresh-market Blackberry Quality. Jordon Chenier*, Renee Threlfall, Luke Howard, and Cindi Brownmiller, 2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704. (jchenier@uark.edu)

27) Quality of Wine Made from Chambourcin Grapes Grown in Arkansas Using *Lachancea thermotolerans* Yeast to Modify Acidity. Amanda J. Fleming* and Renee T. Threlfall, 2650 N. Young Avenue, Department of Food Science, University of Arkansas, Fayetteville, AR 72704. (ajflemin@uark.edu)

28) Preliminary Findings Show that Low Tunnel Usage along with Compost-Generated CO₂ Increased Fruit Size and Cull Fruit Weight of ‘Camarosa’ Strawberries (*Fragaria x ananasa* L.). Edgar L. Vinson III*¹, Alvaro Sanz Saez², Elina D. Coneva¹, Melba R. Salazar-Guitierrez¹, E. K. Blythe¹, and M. D. Price², ¹Department of Horticulture, Auburn University, 101 Funchess Hall, Auburn, AL36849, ²Crop, Soil and Environmental Sciences, Auburn University, 201, ³Chilton Research and Extension Center, 120 County Road 756, Clanton, AL35045, (vinsoed@auburn.edu)

29) Effects of 1-MCP Sachets on Storage Longevity and Quality of ‘Camarosa’ and ‘Camino Real’ Strawberry Fruit (*Fragaria x ananasa* L.). Edgar L. Vinson III*¹, Penelope A. Perkins-Veazie², Y. Wang³, and Eugene K. Blythe¹, ¹Department of Horticulture, Auburn University, 101 Funchess Hall, Auburn, AL 36849, ²600 N.C. State University, Laureate Way, Kannapolis, NC 28081, ³Biosystems Engineering, Auburn University, 204 Corley Building, Auburn, AL (vinsoed@auburn.edu)

Vegetable Crops

30G) Growth Response of Container-Grown Radishes Treated with Preemergence Herbicides. Rachel C. Woody-Pumford*, Kayla L. Knepp, and Matthew B. Bertucci, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (rxw025@uark.edu)

31G) Sweet Corn Cultivar Selection for Southeastern U.S. Jessica Paranhos¹*, Wheeler Foshee¹, Timothy Coolong², and Andre da Silva¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849. ²1111 Miller Plant Sciences, Department of Horticulture, University of Georgia, Athens, GA 30602. (azb0207@auburn.edu)

32G) Managing Whiteflies: Strategies of Row Cover and Plastic Mulching on Squash Production. Thiago Rutz¹*, Alana Jacobson², Edward Sikora², Alvin Simmons³, Andre da Silva¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849. ²301 Funchess Hall, Department of Entomology and Plant Pathology, Auburn University, Auburn, AL 36849. ³2700 Savannah Highway, USDA, ARS, U.S. Vegetable Laboratory, Charleston, SC 29414. (azb0207@auburn.edu)

33G) Strategies of Irrigation Scheduling for Organic Tomato Production. Paulo Nakazawa¹*, Wheeler

Foshee¹, Emmanuel Torres-Quezada², and Andre da Silva¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849, ²33446 Research Drive, Department of Horticulture, Virginia Tech, Painter, VA 23420. (azb0207@auburn.edu)

- 34G) The Effect of Composted and Non-Composted Spent Coffee Grounds on Carotenoid Concentration in Basil and Eggplant.** Amanda L. Birnbaum^{1*}, Julie Howe², Benjamin G. Wherley², David W. Reed¹, Amit Dhingra¹, ¹Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133, ²Soil and Crop Sciences Texas A&M University, College Station, TX 77843-2133. (abirnbaum@tamu.edu)
- 35G) Vitamin C Biofortification in Arugula Leafy-greens Through Foliar Application of Ascorbic Acid.** Shivani Kathi^{1*}, Haydee Laza¹, Sukhbir Singh¹, Leslie Thompson², Wei Li³, and 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 Chemical Engineering, Texas Tech University, Lubbock, Tx, 79409. (skathi@ttu.edu)
- 36) Utilizing Insect Monitoring and Economic Thresholds to Sustainably Manage Tomato Fruitworm, *Helicoverpa zea*, in Arkansas.** Ryan F. Keiffer* Aaron J. Cato, Amanda McWhirt, Lizzy Herrera, Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR, 72204. (rkeiffer@uada.edu)
- 37) Evaluation of Jack-o-Lantern Pumpkins in Georgia and Alabama.** Timothy Coolong^{1*}, Kate Cassity-Duffey¹, and Andre da Silva², ¹1111 Miller Plant Sciences, Department of Horticulture, University of Georgia, Athens, GA 30602, ²124 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849. (tcoolong@uga.edu)
- 38) Evaluating Seasonal Yield of Lettuce in Outdoor NFT Hydroponics in the Virgin Islands.** Donald Bayley¹, Donna Gonzalez^{1*} and Henry O. Awika^{1,2}, ¹School of Agriculture, Agricultural Experiment Station, University of the Virgin Islands, 10,000, Kingshill, VI 00850, ²School of Agriculture, Cooperative Extension Service, University of the Virgin Islands, 10,000, Kingshill, VI 00850 (henry.awika@uvi.edu)
- 39) Phenology of Bay Rum (*Pimenta racemose*).** Yasmin Laurencin*, Michael Morgan, and Thomas W. Zimmerman, University of the Virgin Islands School of Agriculture, RR#1 Box 10,000, Kingshill, VI 00850. (mmorgan@uvi.edu)
- 40) Differences in Onion Maggot (*Delia antiqua*) Damage in Thirteen Varieties of Garlic Grown in North Carolina.** Peter Coffey* and Sanjun Gu, Cooperative Extension, North Carolina A&T State University, 1601 E. Market St. Greensboro, NC 27411. (plcoffey@ncat.edu)
- 41) The Influence of Site Selection and Planting Method on Wild-Simulated American Ginseng Life-Stage Transitions and Mortality over Four Growing Seasons in Middle Tennessee.** Nate Phillips*, Ethan Swiggart, and Ying Gao, International Ginseng Institute, School of Agriculture, Middle Tennessee State University, Murfreesboro TN 37132. (nate.phillips@mtsu.edu)
- 42) Effect of Fulvic Acid on Yield Performance of Organic Bell Pepper (*Capsicum annuum* L.) Under Open-Field Conditions in Tennessee.** Pinky Kanabar and Dilip Nandwani*, Department of Agriculture and Environmental Sciences, Tennessee State University, 3500 John A. Merritt Blvd., Nashville, TN 37209 (dnandwan@tnsttae.edu)
- 43) Influence of Photoperiod on Winged Beans.** Milan Philbert*, Daryl Richards Jr, and Thomas W. Zimmerman, University of the Virgin Islands School of Agriculture, RR#1 Box 10,000, Kingshill, VI 00850. (milanphilbert20@gmail.com)
- 44) Soil Health and Fruit Yield as Influenced by Mulch and Fertilization in Watermelon.** Juan C. Diaz-Perez*, and Ted McAvoy, 2360 Rainwater Road, Department of Horticulture, University of Georgia, Tifton, GA 31793. (jcdiaz@uga.edu)

Post-Harvest

- 45G) Estimating Total Flavonoids and Carotenoid Across Carrot Sections by Spectrometry.** Henry O Awika^{1,2}, Yvonilyn Lawrence^{1*} and Jessica Ewer¹, ¹School of Agriculture, Agricultural Experiment Station, University of the Virgin Islands, 10,000, Kingshill, VI 00850, ²School of Agriculture, Cooperative Extension Service, University of the Virgin Islands, 10,000, Kingshill, VI 00850. (henry.awika@uvi.edu)

46) Effectiveness of Single- and Multi-Polysaccharide Edible Coatings with Sustainable Cellulose Nanomaterials and Oregano Essential Oil on Postharvest Strawberry Quality. Danbee Lee^{*1}, David H. Picha², and Qinglin Wu¹, ¹School of Renewable Natural Resources and ²School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803. (dlee112@lsu.edu)

47) Comparison of Compositional Changes in Plantains and Bananas during Ripening. David H. Picha^{*} and Alvaro Pilla, School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803. (dpicha@agcenter.lsu.edu)

Cross-Commodity

48G) Production and Physio-Chemical Characterization of Eastern Red Cedar Biochar. Babita Lamichhane^{1*}, Bruce L. Dunn¹, Hardeep Singh², Bailey Norwood³, Angelika Ouedraogo⁴, and Ajay Kumar⁴, ¹Department of Horticulture and Landscape Architecture, Oklahoma State University, ²Department of Agronomy, University of Florida, ³Department of Agricultural Economics, Oklahoma State University, ⁴Department of Biosystem and Agricultural Engineering, Oklahoma State University. (babita.lamichhane@okstate.edu)

49G) Feasibility of Hoophouse Aquaponics in an Oklahoma Winter. Teal Hendrickson^{1*}, Bruce Dunn¹, and Joshua Dusci², ¹Department of Horticulture and Landscape Architecture Oklahoma State University, Stillwater, OK, 74078. ²Symbiotic Aquaponic, 2105 N 16th St, McAlester, OK 74501. (teal.hendrickson@okstate.edu)

50G) Electric-Powered vs Gas-Powered Landscape Maintenance Equipment. Kati Kent^{1*}, Paul C. Bartley III¹, Mark Hoffman², and Beau Brodbeck¹, ¹Department of Horticulture, Auburn University, AL 36849, ²Department of Mechanical Engineering, Auburn University, AL 36849. (kek0055@auburn.edu, paul.bartley@auburn.edu)

51UG) Effect of Activation and Age on Adsorption of Pesticides by Biochar. Heather Motro^{1*}, María Jesús Calderón², Pilar Velarde², Beatriz Gámiz², ¹167 Poole Agricultural Center, Jersey Ln, Clemson, SC 29634, ²IRNAS.CSIC. Av. de la Reina Mercedes, 10, 41012 Sevilla, Spain. (hmotro@g.clemson.edu)

52) Soil Census of Kentucky High Tunnels Reveals Statewide Distribution of Two Species of Root-knot Nematode (*Meloidogyne* spp.). Victoria Bajek^{*} and Rachel Rudolph, 1100 S. Limestone, N318 Agriculture Science Center, University of Kentucky, Lexington, KY 40506. (rachel.rudolph@uky.edu)

SECTION TITLES

EDUCATION

Room: Myriad

Presiding: Rachel Itle, Chair Education

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: ritle@uga.edu

8:00 Effectiveness of Home Labs Using Lab Kits in an Online Plant Physiology Course. Bodie V. Pennisi^{1*}, Dan Ye², and Leynar Leyton Naranjo¹, ¹1109 Experiment St, UGA-Griffin Campus, Griffin, 30223, ²219 Van Pelt and Opie Library, Michigan Technology University, Houghton, MI 49931. (bpennisi@uga.edu)

8:15 Using Q Methodology to Determine Faculty Opinions on the Implementation of an Online, Non-Thesis Master's Degree in Horticulture. Rebekah C. I. Maynard^{1*}, Leonardo Lombardini¹, and Bodie Pennisi², ¹Department of Horticulture, University of Georgia, 1111 Miller Plant Sciences Bldg., Athens, GA 30602, ²Department of Horticulture, University of Georgia 1109 Experiment St., Griffin, GA 30223. (rebekah.maynard@uga.edu)

- 8:30 Vegetable Crops Students Learn to Grow Food and Provide Local Product to Their Fellow Students.** Carl Motsenbocker*, Isabella Frank, School of Plant, Environmental and Soil Sciences, LSU AgCenter, Baton Rouge, LA 70803.(cmotsenbocker@agcenter.lsu.edu)
- 8:45 The Effectiveness of Interactive Virtual Tours (IVTs) for Distance Learning in Environmental/Agricultural Education.** Catherine Simpson^{1*} and Muntazar Monsur². ¹2911 15th St, Department of Plant and Soil Sciences, Texas Tech University, Lubbock, TX 79409, ²2904 15th St, Department of Landscape Architecture, Texas Tech University, Lubbock, TX 79409. (Catherine.Simpson@ttu.edu)
- 9:00 Grower Education of Food Safety in Hydroponics: New coating technology to reduce risk.** Joseph G. Masabni^{1*}, Mustafa Akbulut², Jose Cisneros³. ¹Department of Horticultural Sciences, Texas A&M University, Dallas, TX 75252, ²Artie McFerrin Department of Chemical Engineering, Texas A&M University, College Station, TX 77843, ³Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843. (jmasabni@ag.tamu.edu)
- 9:15 Landscape Plants for the South-Central United States – An Instructional Resource for Developing Sustainable Built Environments.** Michael A. Arnold^{1*}, Wayne A. Mackaey², Garry V. McDonald², Allen D. Owings³, Michael A. Schnelle⁴, and Galen D. Newman⁵. ¹Texas A&M University, Dept. of Horticultural Sciences, 2133 TAMU, College Station, TX 77843-2133, ²316 Plant Sciences Building, University of Arkansas, Fayetteville, AR 72701, ³Louisiana State University, 101 Efferson Hall, Baton Rouge, LA 70803, ⁴Oklahoma State University, 358 Agricultural Hall, Stillwater, OK 74078, ⁵Texas A&M University, School of Architecture, 3137 TAMU, College Station, TX 77843-3137 (ma.arnold@tamu.edu)

EXTENSION

Room: Myriad

Presiding: Juan Carlos Melgar, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: jmelgar@clmson.edu

- 10:00 Rural Georgia Growing Stronger: A Cooperative Extension Initiative to Address Stress among Growers and Their Families.** Anna Scheyett*, Laura Perry Johnson, Maria Bowie, & Andrea Scarrow, Cooperative Extension, College of Agricultural and Environmental Sciences, University of Georgia, Athens GA 30602. (amscheye@uga.edu)
- 10:15 Offering Landscape Professional Training to Soon to be Released Inmates in South Carolina.** Andrew Jeffers*, and Paul Thompson, Cooperative Extension Service, Clemson University, Clemson, SC 29631. (ajeffe@clemson.edu)
- 10:30 Popularizing Residential Pollinator Gardening: Evidence-based Implications for Extension Professionals.** Colby Silver^{1*}, Laura Warner¹, John Diaz¹, Cody Gusto¹, Rachel Mallinger², ¹Department of Agricultural Education & Communication, 411 Rolfs Hall, 341 Buckman Dr., University of Florida, Gainesville, FL 32611, ²Entomology and Nematology Department, University of Florida, Steinmetz Hall, 1881, Gainesville, FL 32611. (colby.silver@ufl.edu)
- 10:45 Tapping into Arkansas Microbreweries with Arkansas Grown Hops.** Lizzy Herrera¹, Renee Threlfall², Aaron Cato¹, Thomas Zimmerman³, and Amanda McWhirt^{1*}, ¹2301 S. University Ave., Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR 72204, ²2435 N. Hatch Ave., Department of Food Science, University of Arkansas System Division of Agriculture, Fayetteville, AR 72704, ³1749 State Hwy 818, Arkansas Agricultural Experiment Station, Fruit Research Station, Clarksville, AR 72830. (amcwhirt@uada.edu)
- 11:00 Many Drops Will Fill the Bucket: A Social Perspective on Landscape Water Conservation.** Laura Warner*, John Diaz, Dharmendra Kalauni. Department of Agricultural Education & Communication, University of Florida, PO Box 110540, Gainesville, FL 32611. (lsanagorski@ufl.edu)

11:15 Arkansas Discovery Farm Program: Demonstrating Irrigation Best Management Practices for Peach Producers. Lizzy Herrera^{1*}, Mike Daniels², 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 Crop, Soil & Environmental Science, University of Arkansas System Division of Agriculture, Little Rock, AR 72204. (lherrera@uada.edu)

11:30 Break

11:45 Wildlife-Friendly Landscape Maintenance: A Pertinent Opportunity for Public Engagement Across Florida. Dharmendra Kalauni^{1*}, Laura Warner¹, John Diaz¹, Jaret Daniels², Adam Dale³, Emily Marois⁴, ¹Department of Agricultural Education & Communication, University of Florida, 305 Rolfs Hall, PO Box 110540, Gainesville, FL 32611, ²Florida Museum of Natural History & Department of Entomology and Nematology, 3251 Hull Road, Gainesville, FL 32611, ³Department of Entomology and Nematology, 3214 Steinmetz Hall, Gainesville, FL 32611, ⁴UF/IFAS Palm Beach County Extension, 559 N Military Trail, West Palm Beach, FL 33413. (kalauni.d@ufl.edu)

12:00 A Distinctive Digital Direction: Digital Marketing Case Studies with Horticultural Businesses. Lauri M. Baker^{1*}, Trent Blare², and Vanessa Vassilaros³, ¹Department of Agricultural Education and Communications, University of Florida, Gainesville, FL 32611, ²Department of Food and Resource Economics, University of Florida, Homestead, FL 33031, ³UF/IFAS Extension Miami-Dade County, Homestead, FL 33030. (lauri.m.baker@ufl.edu)

12:15 Minority Populations and Community Gardening in Southeastern Louisiana. Kiarah Craft^{*}, School of Plant, Environmental and Soil Sciences, Louisiana State University, Baton Rouge, LA 70803. (kcraft8@lsu.edu)

12:30 Kentucky High Tunnel Grower Perceptions and Understanding of Root-Knot Nematode (*Meloidogyne* spp.). Victoria Bajek^{*} and Rachel Rudolph, 1100 S. Limestone, N318 Agriculture Science Center, University of Kentucky, Lexington, KY 40506. (rachel.rudolph@uky.edu)

12:45 The High Tunnel Farming Guide Helps North Carolina Farmers in Season Extension with High Tunnels. Sanjun Gu^{*}. Cooperative Extension, North Carolina A&T State University. 1601 E. Market St. Greensboro, NC 27411. (sgu@ncat.edu)

1:00 Break

1:15 “Can’t Get No Satisfaction”: Online Extension Programming in Rapidly Changing Times. Cheryl R. Boyer^{1*}, Lauri M. Baker², and Hikaru Peterson³, ¹Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS 66506, ²Department of Agricultural Education and Communications, University of Florida, Gainesville, FL 32611, ³Department of Applied Economics, St. Paul, MN 55108. (crboyer@ksu.edu)

1:30 Arkansas Specialty Crop Growers Seek Produce Safety Training and Technical Assistance While Most Fall Outside of FSMA Regulations Amanda Philyaw Perez^{*}, Gaby Sanders, University of Arkansas Cooperative Extension Service, 2301 S. University Ave., Little Rock, AR 72204. (aperez@uada.edu)

1:45 Identifying as a Gardener: Is it a Matter of Perception? Sheri Dorn^{1*}, Julie Campbell², Heather Kirk-Ballard³, and Natalie Bumgarner⁴, ¹University of Georgia, 1109 Experiment Street, Griffin, GA, 30223, ²University of Georgia, 1111 Miller Plant Sciences, 120 Carlton Street, Athens, GA 30602, ³Louisiana State University Ag Center, School of Plant, Environmental and Soil Sciences, 104 Sturgis Hall, Baton Rouge, LA 70803, ⁴University of Tennessee, Plant Sciences Department, 112 Plant Biotech Building, 2505 EJ Chapman Drive, Knoxville, TN 37996. (sdorn@uga.edu)

2:00 Using Surplus Produce to Expand Farmer’s Opportunities in Northwest Arkansas. Renee Threlfall^{1*}, Rogelio Contreras², Steve Jenkins³, Jeyam Subbiah¹, John Swenson¹, Andrea Myers¹, and Blake Binns², 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. (rthrelf@uark.edu)

- 2:15 Lessons Learned with Value-Added Food Innovation in Rural Communities.** Amanda Philyaw Perez^{1*}, Renee Threlfall², ¹University of Arkansas Cooperative Extension Service, 2301 S. University Ave., Little Rock, AR 72204; ²University of Arkansas, Department of Food Science, 2650 Young Ave, Fayetteville, AR 72704. (aperez@uada.edu)
- 2:30 Break**
- 2:45 On-Farm Sweetpotato (*Ipomoea batatas*) Slip Production for Early Field Planting and Yield Increase in Missouri.** Ramón Arancibia*, Juan Cabrera-Garcia, and Patrick Byers, University of Missouri Extension, Columbia, MO. (raa522@missouri.edu)
- 3:00 Using the Arkansas Quality Wine Program for Consumer and Industry Outreach.** Renee T. Threlfall^{1*}, Amanda J. Fleming¹, and Amanda L. McWhirt², ¹2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, ²2301 S. University Ave. Cooperative Extension Service, University of Arkansas, Little Rock, AR 72204. (rthrelf@uark.edu)
- 3:15 Citrus in South Carolina: Answering Farmers and Niche Market Demands.** Juan Carlos Melgar^{1*}, and Zack Snipes², ¹Department of Plant and Environmental Sciences, Clemson University, 105 Collings St., BRC 218, Clemson, SC 29634, ²Clemson Cooperative Extension Service, Clemson University, 259 Meeting St., Charleston, SC 29401. (jmelgar@clemson.edu)
- 3:30 Utilizing Needs-assessment Findings for Developing Extension Strategy for ‘Operation Grow’ Project Assisting Beginning Veteran Farmers in Alabama.** Ayanava Majumdar*, Harli Willis, Christopher Becker, Andre da Silva, Camila Rodriguez, Jessie Rowan, and Ann Chambliss, Alabama Cooperative Extension System, Auburn University, Auburn, AL 36849. (azm0024@auburn.edu)

FRUIT CROPS

Room: Bricktown

Presiding: Melba Salazar-Gutierrez, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: mrs0146@auburn.edu

- 8:00 Variability of the response of some photosynthetic characteristics to climatic conditions in Southern Highbush blueberries.** Melba R. Salazar-Gutiérrez^{1*}, Ali Zimeri-Gomez¹, and Bernardo Chaves-Cordoba², Department of Horticulture, College of Agriculture, Auburn University, Auburn, AL 36845. (mrs0145@auburn.edu)
- 8:15 Influence of intermittent temperature in peach bloom phenology.** Melba R. Salazar-Gutiérrez^{1*}, Adriana Cifuentes-Carvajal, and Bernardo Chaves-Cordoba², Department of Horticulture, College of Agriculture, Auburn University, Auburn, AL 36845. (mrs0145@auburn.edu)
- 8:30 The fruiting Season Phenology of Strawberries cultivated in an annual hill plasticulture 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 Aronia ‘Viking’ Under Subtropical Conditions: Horticultural Performance and Challenges.** Leynar Leyton Naranjo^{1*}, Bodie Pennisi¹, Nirmal Joshee², and Carol Robacker¹, ¹1109 Experiment St, UGA-Griffin Campus, Griffin, GA 30223, ²College of Agriculture, Family Sciences and Technology, Fort Valley State University, Fort Valley, GA 31030. (leynar@uga.edu)
- 9:00 Identification of CRK Gene Family in Pear and Its Members in Response to Signals of *Valsa pyri*.** LIU He^{*1,2}, DUO Hu¹, ZHAO Dan¹, SUN E¹, MA Fupeng¹, MA Chunling¹, and ZUO Cunwu¹
¹Department of Horticulture, Gansu Agricultural University, Lanzhou 730070, China, ² Visiting scholar, Department of Plant and Soil Sciences, Texas Tech University, Lubbock, TX 79409. (liu84104@ttu.edu)
- 9:15 Break**
- 9:30 Comparing Pesticide Coverage and Efficacy on Rotating Cross Arm (RCA) and T-Trellis Systems in Blackberry.** Aaron J. Cato* Ryan F. Keiffer, and Amanda McWhirt. Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR, 72204. (acato@uada.edu)

- 9:45 Impact of Nitrogen Rate on Plant Nutrient Content, Yield, and Fruit Quality in Two-Year-Old ‘Ouachita’ Blackberry.** Amanda Lay-Walters¹, Renee Threlfall², Trenton Roberts³, Ryan Dickson¹, and Amanda McWhirt⁴, ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²2650 N. Young Ave., Fayetteville, AR 72704, Department of Food Science, University of Arkansas, Fayetteville, AR 72701, ³1354 W Altheimer Dr., Department of Soil, Crop, and Environmental Sciences, University of Arkansas, Fayetteville, AR 72704, ⁴2301 S University Ave, Little Rock, AR 72204, Department of Horticulture, University of Arkansas, Little Rock, AR 72204. (amlay@uark.edu)
- 10:00 Use of photoselective devices in blueberry production systems.** Amit Godara*, Dr. Zilfina Rubio Ames and Dr. Angelos Deltsidis. Department of Horticulture Sciences, University of Georgia, Horticulture Building, 4604 Research Way, Tifton, Georgia 31793. (amit.godara@uga.edu)
- 10:15 Modifying Acidity Using *Lachancea thermotolerans* Yeast during Wine Fermentations of Chambourcin Grapes Grown in Arkansas.** Amanda J. Fleming* and Renee T. Threlfall, 2650 N. Young Avenue, Department of Food Science, University of Arkansas, Fayetteville, AR 72704. (ajflemin@uark.edu)
- 10:30 Characterizing Marketable Attributes of Juice from Noble and a Potential New Processing Muscadine Cultivar,** Renee Threlfall^{1*}, Margaret Worthington², and Jordon Chenier¹, ¹2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, ²316 Plant Science, Horticulture Department, University of Arkansas, Fayetteville, AR 72701. (rthrelf@uark.edu)
- 10:45 Break**
- 11:00 Determining Impact of Skin Contact Time during Wine Production of ‘Noble’ and AM-77 Muscadine Grapes,** Renee Threlfall^{1*}, Margaret Worthington², and Cody Rawls, ¹2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, ²316 Plant Science, Horticulture Department, University of Arkansas, Fayetteville, AR 72701. (rthrelf@uark.edu)
- 11:15 Yield potential of Kaki persimmon cultivars in the South Carolina Piedmont.** Gregory Reighard¹ and David Ouellette¹. 161 Poole Ag Center, Box 340310, Department of Plant & Environmental Sciences, Clemson University Clemson, South Carolina, 29634. (grfhrd@clemson.edu)
- 11:30 Use of plant growth regulators to improve growth of HLB-affected sweet orange.** Tripti Vashisth*¹ and Taylor Livingston¹. Citrus Research and Education Center, University of Florida. 700 Experiment Station Road, Lake Alfred, FL 33850. (tvashisth@ufl.edu)
- 11:45 Impact of Arbuscular Mycorrhizal Fungi Inoculants on Plant Biomass and Root Colonization in Strawberry Plug Plants.** Mataya Duncan^{1*}, Thomas Zimmerman², Lizzy Herrera¹, and Amanda McWhirt¹. ¹Department of Horticulture, University of Arkansas Cooperative Extension Service, 2301 S. University Ave., Little Rock, AR 72204. ²1749 State Hwy 818, Arkansas Agricultural Experiment Station Fruit Research Station, Clarksville, AR 72830. (mduncan@uada.edu)
- 12:00 Nitrogen Adjustment in Recovery of Ice-Storm Damaged Pecan Trees.** Niranjan Pokhre^{1*}, Lu Zhang, Rashmi Kumari, and Yanwei Sun, ¹Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74077. (luzhang@okstate.edu)
- 12:15 Impact of Red Blotch Virus on ‘Blanc Du Bois’** Justin J. Scheiner^{1*}, Fran Pontasch¹, David Appel², Olufemi Alabi³, Department of Horticultural Sciences, ¹ Texas A&M AgriLife Extension Service, HSF, 2134 TAMU, College Station, TX 77843; ²Department of Plant Pathology and Microbiology, Texas A&M AgriLife Extension, 413 Peterson Building, College Station, TX 77843; ³Department of Plant Pathology and Microbiology, Texas A&M AgriLife Extension Service, Weslaco Center, 2104 Business Hwy 83E, Weslaco, TX 78596. (jscheiner@tamu.edu)

VEGETABLE CROPS

Room: Bricktown

Presiding: Heather Kirk-Ballard, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: hkirkballard@agcenter.lsu.edu

2:00 Industrial Hemp Root Length Density and Distribution under Polyethylene Mulch with Drip Irrigation. Gilbert Miller*, Clemson University, Edisto Research and Education Center, 64 Research Road, Blackville, SC 29817. (gmllr@clemson.edu)

2:15 Growing Watermelon under Protected Systems in Missouri to Supply the local Fourth of July Market. Ramon Arancibia*, Kathi Mecham, Joni Harper, and Cheryl Recker, University of Missouri Extension, Columbia, MO. (raa522@missouri.edu)

2:30 Preliminary Trials of 13 Garlic Cultivars for Field and High Tunnel Production in North Carolina. Sanjun Gu* and Peter Coffey. Cooperative Extension, North Carolina A&T State University. 1601 E. Market St. Greensboro, NC 27411. (sgu@ncat.edu)

2:45 Crop Phenology-based Application of Microbial Inoculants for Organic Pepper Production. Asmita Nagila^{1*}, Joshua T. Harvey², and Daniel I. Leskovar², ¹Department of Horticultural Sciences, Texas A&M University, College Station, TX 77840, ²Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801. (d-leskovar@tamu.edu)Feb

3:00 Break

3:15 A Soil Health Survey of Northwest Arkansas Specialty Crop Producers. Matthew B. Bertucci^{1*}, Drew E. Kirkpatrick¹, Amanda L. McWhirt², and Lizzy Herrera², ¹Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²Department of Horticulture, University of Arkansas System Division of Agriculture, Cooperative Extension Service, Little Rock, AR 72204. (bertucci@uark.edu)

3:30 Heat and Water Deficit Stress Responses of *Solanum pennellii* Grafted Tomato Plants. Chungkeun Lee* and Daniel I. Leskovar, Texas A&M AgriLife Research and Extension Center, Uvalde, TX78801. (d-leskovar@tamu.edu)

3:45 Organic Fertilizer Type and Rate Affect Watermelon Seedling Production. Qianwen Zhang, Joseph Masabni, and Genhua Niu*, Texas A&M AgriLife Research and Extension Center, Dallas, TX 75252. (Genhua.Niu@ag.tamu.edu)

4:00 Role of Nitrogen Rate and Irrigation Timing on *Alternaria brassicicola* Infection in Broccoli (*Brassica oleracea* var. *italica*). Timothy Coolong^{1*}, Ted McAvoy¹, Bhabesh Dutta², and Kate Cassity-Duffey¹ ¹1111 Miller Plant Sciences, Department of Horticulture, University of Georgia, Athens, GA 30602, ²2360 Rainwater Road, Department of Plant Pathology, University of Georgia, Tifton, GA 31793. (tcoolong@uga.edu)

Sunday, February 5, 2023

ACB BUSINESS MEETING

Room: Oklahoma Station 3

Time: 9:00 – 10:45

Presiding: Emma Lagerhausen, ACB-President, Nate Philips, ACB Advisor

ANNUAL BUSINESS MEETING AND AWARDS PROGRAM

Room: Oklahoma Station 3

Time: 11:00-12:30

Presiding: Matt Chappell, President

POSTER VIEWING & TAKE-DOWN POSTERS

Room: Five Moons 4

Presiding: Justin Scheiner, Chair

Poster Viewing: Sunday 8:00-10:45
Poster Take-down: Sunday, 1:00 – 3:00

SECTION TITLES

VEGETABLE CROPS

Room: Paseo

Presiding: Heather Kirk-Ballard, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: hkirkballard@agcenter.lsu.edu

- 8:00 Nutrient Content and Bioactive Compounds in Ornamental Sweetpotatoes.** Sandeep Kaur Sran* and David H. Picha, School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803. (ssran1@lsu.edu)
- 8:15 Relative Effect of Sink Manipulation on Cherry and Slicing Tomato Cultivars Pre-fertigated with Aquaculture Effluent.** Emmanuel Ayipio*, Dorcas Lukwesa, Arnold Katende, and Daniel E. Wells. Department of Horticulture, Auburn University, 101 Funchess Hall, Auburn, AL-36849. (eza0035@auburn.edu)
- 8:30 Relative Effect of Sink Manipulation on Cherry and Slicing Tomato Cultivars Fertigated with Aquaculture Effluent with Minimal Nutrient Supplementation.** Emmanuel Ayipio, Arnold Katende*, Dorcas Lukwesa, and Daniel E. Wells. Department of Horticulture, Auburn University, 101 Funchess Hall, Auburn, AL-36849. (azk0169@auburn.edu)
- 8:45 Impact of Light Quality, Nitrogen, and Humic Substance on Growth and Physiology of Spinach.** Seunghyun Choi*, Vijay Joshi, Joshua T. Harvey, and Daniel I. Leskovar, Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801. (d-leskovar@tamu.edu)
- 9:00 Break
- 9:15 Yield and Fruit Quality Results from the Louisiana Fields of the Squash out Hunger Trials.** Kathryn Fontenot* and David H. Picha, School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803. (kkfontenot@lsu.edu)
- 9:30 Evaluating Seasonal Yield of Lettuce in Outdoor NFT Hydroponics in the Virgin Islands.** Donald Bayley¹, Donna Gonzalez¹ and Henry O. Awika^{1,2*}. ¹School of Agriculture, Agricultural Experiment Station, University of the Virgin Islands, 10,000, Kingshill, VI 00850, ²School of Agriculture, Cooperative Extension Service, University of the Virgin Islands, 10,000, Kingshill, VI 00850. (henry.awika@uvi.edu)
- 9:45 New melon cultivars from Texas A&M AgriLife Research.** Kevin M. Crosby^{1*}, Sixto A. Marquez¹, John L. Jifon², Daniel I. Leskovar³, Jashbir Singh¹, and Bhimu S. Patil¹. ¹Texas A&M University, Vegetable and Fruit Improvement Center, 1500 Research Pkwy, Ste. 120, College Station, TX 77845. ²Texas A&M AgriLife Research and Extension Center, 2415 E. Hwy 83, Weslaco, TX 78596. ³Texas A&M AgriLife Research and Extension Center, 1619 Garner Field Rd, Uvalde, TX 78801. (kevin.crosby@ag.tamu.edu)
- 10:00 Vitamin C Biofortified Arugula and Broccoli Microgreens.** Shivani Kathi^{1*}, Haydee Laza¹, Sukhbir Singh¹, Leslie Thompson², Wei Li³, and 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 Chemical Engineering, Texas Tech University, Lubbock, Tx, 79409. (skathi@ttu.edu)

FLORICULTURE, ORNAMENALS AND TURF

Room: Pinon

Presiding: Anthony Witcher, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: awitcher@tnstate.edu

7:45 Breeding and Selection of New Heat Tolerant Crabapple Cultivars. Xiaoji Lu¹, Donglin Zhang^{2*}, Ting Zhou³, Junjun Fan⁴, Wangxiang Zhang^{1,5}, ¹College of Forestry, Nanjing Forestry University, Nanjing, Jiangsu 210037, China, ²Department of Horticulture, University of Georgia, Athens, GA 30602, USA, ³Institute of Botany, Chinese Academy of Sciences (Nanjing Botanical Garden Mem. Sun Yat-Sen), Jiangsu Key Laboratory for the Research and Utilization of Plant Resources, Nanjing, Jiangsu 210014, China, ⁴College of Horticulture, Jinling Institute of Technology, Nanjing, Jiangsu 211169, China, ⁵Yangzhou Crabapple Horticulture Limited Company, Yangzhou, Jiangsu 225200, China. (donglin@uga.edu)

8:00 Comparison of Consumer Media Mixes in Relation to Costs, Physical Properties, Nutrients, and Growth of Greenhouse-grown Potted Tomatoes. Bruce L. Dunn^{1*}, Erika Sweeten², and Charles Fontanier¹, ¹358 Agriculture Hall, Department of Horticulture & L.A., Oklahoma State University, ²32 Creelman St., Department of Plant & Soil Sciences, Mississippi State University. (bruce.dunn@okstate.edu)

8:15 Recent Plant Trends at Bracy's Nursery in Louisiana. Allen Owings*, Bracy's Nursery, 64624 Dummyline Road, Amite, LA 70422. (aowings64@gmail.com)

8:30 Reducing Peat Use in Container Production through Substrate Stratification. Jeb Fields*, Hammond Research Station, Louisiana State University Agricultural Center. (JSFields@agcenter.lsu.edu)

8:45 Oak Tree Growth Parameters in Nursery Containers Influenced by Controlled Release Fertilizer and Fertigation Regimes. Zachary Davis and Edward Bush*, LSU AgCenter, 137 Julian C. Miller Hall, Baton Rouge, LA 70803. (ebush@agcenter.lsu.edu)

9:00 Status on the Impact of the February 2021 Winter Storm Uri on Woody Ornamentals in Texas. David Creech^{1*} and Mengmeng Gu², ¹Stephen F. Austin State University, 2900 Raguet St., Nacogdoches, TX 75965, ²Department of Horticulture and Landscape Architecture, Colorado State University, Box 1173, Fort Collins, CO 80523. (dcreech@sfasu.edu)

9:15 Strategic Integration of Zero-emissions Landscape Equipment: Challenges Facing the Industry. Paul C. Bartley III^{1*}, Kati Kent¹, Mark Hoffman², and Beau Brodbeck¹, ¹Department of Horticulture, Auburn University, AL 36849, ²Department of Mechanical Engineering, Auburn University, AL 36849. (paul.bartley@auburn.edu)

9:30 Break

9:45 Current State and Future Outlook of Soilless Substrates in North America. Brian E. Jackson*, Department of Horticultural Science, NC State University, Raleigh, NC 27695. (brian_jackson@ncsu.edu)

10:00 Minimum Water Requirements of Warm-season Turfgrasses Cultivars and Experimental Selections. Mingying Xiang^{1*}, Justin Q. Moss¹, Shuhao Yu¹, and Yanqi Wu², ¹358 Ag Hall, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078, ²371 Ag Hall, Department of Plant and Soil Sciences, Oklahoma State University, Stillwater, OK 74078. (my.xiang@okstate.edu)

10:15 Genetic Diversity and Population Structure of *Carex* Spp. Collected from Oklahoma and Texas and Their Relationship with Phenotypical Variation. Shuhao Yu*, Charles H. Fontanier, Dennis L. Martin, Mingying Xiang, Manveer Singh, and Abbie Wooten, 358 Ag Hall, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (shuhao.yu@okstate.edu)

10:30 Weed Control Methods for Tree Seedling Liner Production. Anthony Witcher^{1*} and Eugene Blythe², ¹Tennessee State University, Otis L. Floyd Nursery Research Center, McMinnville, TN 37110, ²Department of Horticulture, Auburn University, Auburn, AL 36830. (awitcher@tnstate.edu)

10:45 Seed Priming for Brackish Propagation of Two Wetland Malvaceae Species. Morgan Tomlin^{1*}, Jeffrey Adelberg², and Sarah A. White¹. ¹Department of Plant and Environmental Sciences, Clemson University, E-143 Poole Ag Center, Clemson, SC 29634, ²Department of Plant and Environmental

Sciences, Clemson University, 275 Poole Ag Center, Clemson, SC 29634. (mltomli@clemson.edu)

FRUIT CROPS

Room: Bricktown

Presiding: Melba Salazar-Gutierrez, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: mrs0146@auburn.edu

- 8:00 Pecan Tree Carbohydrate Budget of Cultivars in a Breeding Pool.** Rashmi Kumari^{1*}, Lu Zhang¹, Xingwang Wang², Niels Maness¹, Niranjan Pokhrel¹, and Yanwei Sun¹, ¹Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078, ²USDA ARS, Southern Plain Research Center, Pecan Breeding & Genetics, College Station, TX 77845. (luzhang@okstate.edu)
- 8:15 Preliminary Field Performance of Select Feijoa (*Acca sellowiana*) Fruiting Cultivars in Texas.** Tim Hartmann*, Department of Horticultural Sciences, Texas A&M University, College Station, Texas 77843-2134. (t-hartmann@tamu.edu)
- 8:30 Early Season Harvested Satsuma Cultivar Fruit Quality Comparison.** David H. Picha*, Sandeep Kaur Sran, and Sindhu Priya Bobbili, School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803. (dpicha@agcenter.lsu.edu)
- 8:45 Examining Novel Methods to Extend the Shelf Life of Georgia-grown Muscadine Grapes (*Vitis rotundifolia*).** Ramsey Corn*, Orestis Giannopoulos, Camille Esmel McAvoy, Angelos Deltsidis, Department of Horticulture, University of Georgia, Tifton, GA 31793. (ramsey.corn@uga.edu)
- 9:00 Investigating the Effect of Gaseous Ozone Addition During Cold Storage on Fresh Peach Quality.** Orestis Giannopoulos*, Ramsey Corn, Camille Esmel McAvoy, Dario Chavez, Angelos Deltsidis Department of Horticulture, University of Georgia, Tifton, GA 31793. (orestis.g@uga.edu)
- 9:15 Studying the Possible Causes of Postharvest Quality Disorders of Georgia-Grown Blueberries (*Vaccinium spp.*).** Angelos Deltsidis*, Camille Esmel McAvoy, Zilfina Rubio-Ames, Department of Horticulture, University of Georgia, Tifton, GA 31793. (adeltsidis@uga.edu)
- 9:30 Break**
- 9:45 Assessing Phosphorus Fertilization in Blueberry Production.** Dr. 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)
- 10:00 Sap Nutrient Analysis for Blackberries.** Dr. Zilfina Rubio Ames^{1*}, Dr. Jason Lessl², and James Jacobs³, ¹Department of Horticulture Sciences, University of Georgia, Horticulture Building, 4604 Research Way, Tifton, Georgia 31793, ²Ag & Env. Lab 2400 College Station Rd Athens, GA 30602, ³ANR Extension University of Georgia 705 College Avenue Blackshear, GA 31516. (Zilfina.rubioames@uga.edu)
- 10:15 Shading mitigates citrus huanglongbing** Christopher Vincent ^{*1}, Anirban Guha¹, Nabil Killiny², and Yu Wang³ ¹Horticultural Science Department. University of Florida, Citrus Research and Education Center, 700 Experiment Station Road, Lake Alfred, FL 33850. ² Plant Pathology Department. University of Florida, Citrus Research and Education Center, 700 Experiment Station Road, Lake Alfred, FL 33850. ³ Food Science Department. University of Florida, Citrus Research and Education Center, 700 Experiment Station Road, Lake Alfred, FL 33850. (civince@ufl.edu)
- 10:30 Expanding Preemergence Herbicide Options for Blackberry Production in Arkansas.** Kayla Knepp^{1*}, Rachel C. Woody-Pumford¹, Aaron Cato², Amanda McWhirt², Nilda R. Burgos¹, and Matthew B. Bertucci¹, ¹Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²Department of Horticulture, University of Arkansas System Division of Agriculture, Cooperative Extension Service, Little Rock, AR 72204. (kknepp@uark.edu).
- 10:45 Effects of Aphid (*Myzus Persicae*) Feeding on the Transcriptome and Metabolic Profile of Mature**

Leaf and Fruit Tissue of Tomato (*Solanum lycopersicum* cv. 'Oregon Spring') in Conventional and Organic Agriculture. June Labbancz^{1,2*}, Luke Gustafson¹, Preston Andrews¹, and Amit Dhingra^{1,2},
¹Department of Horticulture, Washington State University, Pullman, WA 99164, ²Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843. (adhingra@tamu.edu)

POSTHARVEST AND BIOTECHNOLOGY

Room: Route 66

Presiding: Renee Threlfall, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: rthrelf@uark.edu

8:00 The Use of Essential Oil Emulsions as Postharvest Sanitizers to Control *Escherichia coli* O157:H7 on Lettuce. Jessica S. Pizzo*, Raira Pelvine, Andre L.B.R. da Silva, and Camila Rodrigues, Department of Horticulture, Auburn University, Auburn, AL 36849 (jzd0148@auburn.edu)

8:15 A Methodology to Evaluate Spinach Germplasm Resistance to Oomycete Exposure in a Vertical Farm System, Derek A. Dean^{1*}, River C. Dean¹, Garry V. McDonald¹, Ryan W. Dickson¹, and J. Alejandro Rojas², ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²217 Plant Science, Department of Entomology and Plant Pathology, University of Arkansas, Fayetteville, AR 72701 (gmcdonal@uark.edu)

8:30 Determining Best Handling Practices for Fresh-market Blackberries to Increase Postharvest Quality, Andrea Myers^{1*}, Renee T. Threlfall¹, 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 (alm028@uark.edu)

8:45 Craft Brewer Preferences for Locally Produced Hop Products in Oklahoma. Katie Stenmark*, Charles Fontanier, Niels Maness, and Bruce L. Dunn, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74075 (katie.stenmark@okstate.edu)

9:00 Sufficient phytochemical concentrations in baby ginger (*Zingiber officinale*) plant parts, Prospect towards sustainable consumption, Shem Elias* and Gordon Johnson., 210 South College Ave., Department of Plant and Soil Sciences, University of Delaware. Newark, DE 1971

9:15 Break

9:30 Survey to Identify Purchasing Habits of Customers at Northwest Arkansas Farmer's Markets, Andrea Myers^{1*}, Renee Threlfall¹, Rogelio Contreras², Steve Jenkins³, Jeyam Subbiah¹, John Swenson¹, and Blake Binns², ¹2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, ¹ University of Arkansas, Sam M. Walton College of Business, University of Arkansas, Fayetteville, AR 72701, ¹ One College Drive, Brightwater, Center for the Study of Food, Northwest Arkansas Community College, Bentonville, AR 72712 (alm028@uark.edu)

9:45 Does Broccoli Yield and Quality Change in Different Spring Plantings in Oklahoma? Jess Richmond*, Niels Maness, Lynn Brandenberger and Bizhen Hu, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74074 (jess.richmond@okstate.edu)

10:00 Changes in Yield and Quality Characteristics for Snap Beans Across Spring and Fall Harvest Seasons in Oklahoma, Taylor Frentz*, Niels Maness, Jessica Richmond, Lynn Brandenberger, and Bizhen Hu, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (taylor.frentz@okstate.edu)

10:15 Bio-based Nanoparticle Suspensions with Lignocellulose Nanofibers as Sprayable Coatings for Maintaining Blueberry Postharvest Quality, Danbee Lee^{*1}, David H. Picha², Qinglin Wu¹, Sandeep Kaur Sran², Sindhu Priya Bobbili², and Alvaro Pilla², ¹School of Renewable Natural Resources and ²School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803 (dlee112@lsu.edu)

10:30 Development of Innovative Tools for Understanding Postharvest Senescence, Tie Liu^{1*}, Utsab

Ghimire¹, Eleni Pliakoni², and Jeffrey Brecht¹, ¹Department of Horticultural Sciences, University of Florida, Gainesville, FL 32611 and ²Kansas State University, College of Agriculture & Life Sciences, Manhattan, KS 66506 (tieliu@ufl.edu)

10:45 Effectiveness of Persimmon Astringency Removal Treatments. David H. Picha*, Sandeep Kaur Sran, and Sindhu Priya Bobbili, School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803 (dpicha@agcenter.lsu.edu)

ANNUAL BUSINESS MEETING AND AWARDS PROGRAM

Room: Scissortail/OK Station Prefunction

Time: 11:00-12:30

Presiding: Amy Wright, President

SAAS Meetings SAAS Board Meeting

Bldg/Room: Oklahoma Station 3

Time: 2:30 PM–3:30 PM

SAAS General Business Meeting

Bldg/Room: Room: Oklahoma Station 3

Time: 4:00 PM–4:30 PM

SAAS Party

Place: Scissortail/OK Station Prefunction

Time: 5:00 PM

WORKING GROUPS

(Contact Chairs for Agenda and order of business meeting and presentations if not given)

Southern Fruit Workers

Presiding: Rachel Itle

ritle@uga.edu

Room: Five Moons 2

Friday: 8:00 am – 5:00 pm

Horticulture Administrators

Presiding: Chris Gunter, Chair

cc.gunter@ufl.edu

Room: Myriad

Friday: 1:00 pm – 5:00 pm

Watermelon Research Group

Presiding: Daniel S. Egel, Chair

egel@purdue.edu

Melissa Acevedo, ViceChair

melissa.acevedo@hmclause.com

Room Five Moons 3

Friday 1:00 – 4:45 pm

Saturday 8:30 am – 4:00 pm

**National Sweet Potato
Collaborators**

Presiding: Michelle McHargue, Chair

Will

not

meet

with

SRASHS

February

2023

2023 Program at a Glance

		Friday, February 3															
		8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00						
Omni Oklahoma City Hotel																	
Hotel Lobby	7:00 open	Registration															
Five Moons 2		Southern Fruit Workers															
Five Moons 3		Watermelon Research Group															
Myriad		Horticulture Administrators															
Five Moons 5		ACB Club Share and Networking					ACB Activities, Tour, Meal or TBA					TBA ACB Mixer					
Five Moons 1		National ASHS Board of Directors															
		Saturday, February 4															
		8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00						
North Prefunction	7:00 open	Registration															
Five Moons 4		Set-up Room			Authors Mount Posters			Poster Viewing		Author at Poster Even Number			Author at Poster Odd Number				
Five Moons 5		Judging Contest Set-Up						J. Benton Storey Horticulture Judging Contest						ACB Scoring			
Five Moons 3		Watermelon Research Group															
Myriad		Education				Extension											
Bricktown		Fruit Crops Section							Vegetable Crops Section								
Five Moons 7		Edmond UG Oral Paper Competition															
Five Moons 1		Childers M.S. Oral Paper Competition							Barham PhD Oral Paper Competition								
		Sunday, February 5															
		8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00						
North Prefunction	7:00 open	Registration															
Five Moons 4		Poster Session Viewing						Poster Take down									
Oklahoma Station 3		ACB Business Meeting				Business Meeting/Awards Prog.											
Paseo		Vegetable Crops Section															
Pinon		Floriculture,Ornamentals & Turf Section															
Bricktown		Fruit Crops Section															
Route 66		Postharvest & Biotechnology Section															
Oklahoma Station 3									SAAS Board Mtg			SAAS Bus.I					
Scissortail/OK Station Prefunction												SAAS Social					

*Southern Rural Sociological Association
Annual Meeting*



*“Social Justice Praxis, Community Development and
Building Resilient Communities in the Rural South”*

*February 5th – 6th, 2023
Oklahoma City, Oklahoma*

Concurrent with the Southern Association of Agricultural Scientists (SAAS)

“Social Justice Praxis, Community Development and Building Resilient Communities in the Rural South”

President Anne Cafer, University of Mississippi

Social justice is a critical and increasingly utilized frame for organizing scholarly endeavors. As such it is important for scholarly communities, such as the Southern Rural Sociological Association, to have meaningful conversations about the implications of social justice activities in their praxis. To pursue a social justice mission, is to, conceptually, level the playing field for society’s participants. This is done by ensuring both good and bad experiences are equally distributed across members of society and that the political processes that dictate these experiences are accessible to all members of the society. This equitable access ensures democratized, or equal, decision-making. While there are many forms of social justice-oriented work, community development (CD) provides a compelling avenue for pursuing social justice in a way that achieves, simultaneously, scholarly and community-derived goals. CD within scholarly arenas is often pursued as a form of participatory action research or community-based participatory research. This type of participatory community research is shaped by numerous critical theories (e.g. Marx, Du Bois), prioritizes community autonomy, agency, authority, and expertise, and works against hegemonic ideologies. The Southern Rural Sociological Association (SRSA) 2023 Annual Meeting calls for all forms of scholarly work, but particularly for those works that examine the role of scholarship in supporting community social change through both empirically and theoretically diverse lenses. Additionally, SRSA anticipates papers and panels that discuss the potential risks to communities by social justice-oriented work and welcomes those works that engage critically with emerging themes in social justice and community development. Understanding the role of scholars in supporting community-driven development through equitable partnership and community-led research process is critical to building stronger, more resilient communities in the rural South.

Program at a Glance

Abbreviations

Rooms: North Prefunction, Five Moons 6, Five Moons 7, Five Moons 4, Oklahoma Station Ballroom 7, Oklahoma Station 3, Scissortail Terrace/Prefunction

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 (see photos end of program):

<https://www.saasinc.org/meeting-room-floor-diagrams>

Sunday, February 5, 2023

Day and Time	Location	Session Number and Title
7:45 am–3:00 pm	North Prefunction	Registration and Poster Set-Up (after 9:00 am for posters)
8:00 am–9:00 am	Five Moons 6	SRSA Executive Committee
9:15 am–10:30 am	Five Moons 6	1: Resource Access and Its Impact on Rural Communities
10:45 am–12:00 pm	Five Moons 6	2: What We Can Do: Action & Development
12:00 pm–1:00 pm		Lunch (on your own)
1:00 pm–2:15 pm	Five Moons 6	Panel 1: Intentional Attention: Elevating Voices to Revitalize Oklahoma's Historical All-Black Towns
	Five Moons 7	3: Fighting for Equity
2:30 pm–3:45 pm	Five Moons 6	Panel 2: Southern SARE (USDA/Sustainable Agriculture Research Education) Workshop
	Five Moons 7	4: Community Health in Rural Populations
	Oklahoma Station 3	SAAS Board Meeting (2:30–3:30pm)
4:00 pm–5:00pm	Oklahoma Station 3	SAAS General Business Meeting
5:00pm	Scissortail Terrace/Prefunction	SAAS Opening Social

Monday, February 6, 2023

Day and Time	Location	Session Number and Title
7:45 am–3:00 pm	North Prefunction	Registration and Poster Set-Up
8:15 am–9:30 am	Five Moons 6	5: Ways of Expansion
	Five Moons 7	6: Restorative Justice
9:45 am–11:00 am	Five Moons 6	Panel 3: Climate Change, Adaption, and Pursuit of Sustainable Possibilities: Interactive Dialogue on Roles for Social Scientists
11:30 am–1:00 pm	Oklahoma Station Ballroom 7	SRSA Awards Luncheon and Presidential Address
1:15 pm–2:30 pm	Five Moons 6	Panel 4: Rural Population Health and Aging: An Introduction and Facilitated Dialogue Session for Collaborative Research
	Five Moons 7	7: Building Better Communities
2:45 pm–3:45 pm	Five Moons 4	Poster session and Presidential Reception
3:45 pm–4:45 pm	Five Moons 6	SRSA Business Meeting (all members encouraged to attend)
4:45 pm–5:30 pm	Five Moons 6	SRSA Executive Council Meeting

Detailed Program

Sunday, February 5, 2023

7:45 am–3:00 pm, North Prefunction: Registration and Poster Set-Up (after 9:00 am for posters)

8:00 am–9:00 am: SRSA Executive Committee, Five Moons 6

9:15 am–10:30 am: Five Moons 6 Session 1 – Resource Access and Its Impact on Rural Communities

Moderator: Russ Garner, Communities Unlimited

Historical and Structural Drivers of Dietary Transition: The Case of Marshallese Migrants
Jin Young Choi, Sam Houston State University

Barriers Faced by Socially Disadvantaged Farmers and Ranchers and Access to Capital and Food Insecurity—Policy Center Research Analyst Update
Kara A. Woods, Ph.D., SDFR Policy Research Center

A Spatial and Historical Analysis of Plumbing Hardship in the United States from 1940 to 2020
Madelyn Verno, The University of Oklahoma; Stephen Gasteyer, Michigan State University; J. Tom Mueller, The University of Oklahoma

Casinos and Land Cover Use Changes in Rural Oklahoma Counties, 2001-2019
Matthew S. Loflin, University of Oklahoma

10:45 am–12:00 pm, Five Moons 6: Session 2 – What We Can Do: Action & Development

Moderator: Buddhi Gyawali, Kentucky State University

Climate Change Perceptions and Agricultural Adaptability Strategies: A Mixed Methods Study in Rural Peru
Rafael Landaverde, Texas A&M University; Mary T. Rodriguez, Jera Niewoehner-Green and Tracy Kitchel, The Ohio State University; Jaqueline Chuquillanqui, Zamorano University

In Search of Community Development in Cooperative Extension: The Case of the Missing Community
Abigail Almendarez, Sam Houston State University; Gene L. Theodori, Sam Houston State University

A Needs Assessment of Rural Youth Civic Leadership and Mentorship in a Southwestern Oklahoma County
Taylor Shackelford, Oklahoma State University; Lauren Lewis Cline, Oklahoma State University; J. Shane Robinson, Oklahoma State University

An Extension Needs Assessment for Improving Food Access to Build Resilient Rural Communities
Catherine E. Sanders, University of Georgia; Tatevik Markosyan, University of Georgia; Alexa J. Lamm, University of Georgia

12:00 pm–1:00 pm: Lunch (on your own)

1:00 pm–2:15 pm, Five Moons 6: Panel 1 – Intentional Attention: Elevating Voices to Revitalize Oklahoma’s Historical All-Black Towns

Facilitators:

Courtney P. Brown, Oklahoma State University

James Arati, Langston University

Lauren L. Cline, Oklahoma State University

1:00 pm–2:15 pm, Five Moons 7: Session 3 – Fighting for Equity

Moderator: Chinonso Etumnu, Kentucky State University

Co-op Member Stress, Problematic Solidarity and Recommendations from Dairy

Thomas Gray, USDA, Program on Co-operatives

Blessings and Hard Work: White Farmers’ Understandings of Success

Kelli Russell, Auburn University

The Interaction of Gender and Region of Residence on Nutrition Among Children Under Five in Nigeria

Aramide Kazeem, The University of West Georgia; John M. Musalia, Western Kentucky University

Silence, Ambiguity, and Consciousness in Brazil’s Racial Capitalism

Ian Carrillo, University of Oklahoma

The Differential Impact of Heirs Property within the City of a Small Southern Town

Obianuju Egiebor, Tuskegee University; Robert Zabawa, Tuskegee University

2:30 pm–3:45 pm, Five Moons 6: Panel 2 – Southern SARE (USDA/Sustainable Agricultural Research Education) Workshop

Facilitators:

Douglas H. Constance, Sam Houston State University

Jeff Jordan, University of Georgia-Griffin

Candance Pollack-Moore, University of Georgia-Griffin

David Redhage-Kerr, Center for Sustainable Agriculture

Brennan Washington, Fort Valley State University

Daramonifah Cooper, University of Georgia-Griffin

2:30 pm–3:45 pm, Five Moons 7: Session 4 – Community Health in Rural Populations

Moderator: Keiko Tanaka, University of Kentucky

The Dark House: The Health Impacts of Heirs’ Property Housing Across the Rural South

Rebecca Mosier, University of Oklahoma; Ryan Thomson, Auburn University

The Travel Independent Contractor and the Impact on Rural Healthcare

Rebecca Mosier, University of Oklahoma

Determining Reach and Uptake of an Extension-Based Health Promotion Project in the Wake of COVID-19

Saher J. Dossani, University of Georgia; Catherine E. Sanders, University of Georgia; Alexa J. Lamm, University of Georgia

Rurality Across the World: An Exploration of Access to Physicians in the Rural United States and Applications Abroad

Edith-Marie Green, University of Mississippi

Using Cognitive Dissonance to Evaluate Impact: Implications for Health Promotion Extension Initiatives in Rural Communities

Tatevik Markosyan, University of Georgia; Catherine E. Sanders, University of Georgia; Alexa J. Lamm, University of Georgia

2:30 pm–3:30 pm Oklahoma Station 3 SAAS Board Meeting

4:00 pm–4:15 pm Oklahoma Station 3 SAAS General Business Meeting

4:30 pm Scissortail Terrace/Prefunction SAAS Opening Social

Monday, February 6, 2023

7:45 am–3:00 pm, North Prefunction: Registration and Poster Set-Up

8:15 am–9:30 am, Five Moons 6: Session 5 – Ways of Expansion

Moderator: Kelli Russell, Auburn University

Increasing Resilient Organic Production in the Mid-South Region

Srivastava Garima, University of Missouri; Stephen Mukembo, University of Missouri; Mary Hendrickson, University of Missouri; Kerry Clark, University of Missouri; and David Redhage, Kerr Center

Community Based Infrastructure Planning

Jillian Morrison, University of Mississippi; Velma Wilson, Quitman County Economic & Tourism Director; Otis Jones, Former Quitman County Administrator, Matthew Hancock, University of Mississippi; Anne Cafer, University of Mississippi

Fuzzy Cognitive Mapping and Community Resilience Among Mississippi Delta Horticultural Farmers

Natalie Minton, The University of Mississippi; Anne Cafer, The University of Mississippi; Meagen Rosenthal, The University of Mississippi

8:15 am–9:30 am, Five Moons 7: Session 6 – Restorative Justice

Moderator: Eleanor M. Green, University of Mississippi

Agricultural Producers Associations as Coping Strategies for the COVID-19 Pandemic in Honduras

Juan Xavier Ulluguari, Zamorano University; Rafael Landaverde, Texas A&M University; Arie Sanders, Zamorano University

Tea Shops In Burma (Myanmar) Society: Case Studies of Street-Level Democracy

Zaw Lin, Auburn University

Collective Agency as Social Justice Praxis: Black Farmer Organizer Perspectives

Nicole Nunoo, Virginia Tech; Kim Niewolny, Virginia Tech

Using Poetic Dialogues as a Focus Group Analysis to Highlight Collective Identity for Culturally responsive Evaluation

Catherine E. Sanders, University of Georgia; Alexa J. Lamm, University of Georgia; Jori Hall, University of Georgia; Abigail Borron, University of Georgia; Maria Navarro, University of Georgia; James Anderson, University of Georgia

9:45 am–11:00 am, Five Moons 6: Panel 3 – Climate Change, Adaption, and Pursuit of Sustainable Possibilities: Interactive Dialogue on Roles for Social Scientists

Facilitators:

John J. Green, Southern Rural Development Center

Gary A. Thompson, Southern Association of Agricultural Experiment Station Directors

11:30 am–1:00 pm, Oklahoma Station Ballroom 7: SRSA Awards Luncheon and Presidential Address: “Social Justice Praxis, Community Development and Building Resilient Communities in the Rural South” Dr. Anne Cafer, University of Mississippi

1:15 pm–2:30 pm, Five Moons 6: Panel 4 – Rural Population Health and Aging: An Introduction and Facilitated Dialogue Session for Collaborative Research

Facilitators:

John J. Green, Southern Rural Development Center

Leif Jensen, The Pennsylvania State University

Shannon Monnat, Syracuse University

1:15 pm–2:30 pm, Five Moons 7: Session 7 – Building Better Communities

Moderator: Marcus Bernard, Kentucky State University

Rewriting the Narrative: A Portrait of Leadership in a Rural Oklahoma Community

Anthony C. Caruso, Oklahoma State University; Lauren Lewis Cline, Oklahoma State University;

Audrey E. H. King, Oklahoma State University

Loopholes of Disadvantage: Heirs' Property and Food Deserts

Jihyun Shin and Ryan Thomson, Auburn University

Smartphones for Smart Agriculture: A Pilot Study with Women Farmers in Uganda

Meikah Dado, Texas A&M University; Ryan Staples, Ford Motor Company; Jack Elliot, Texas A&M

University; Rafael Landaverde, Texas A&M University

Cost Reducing Technologies to Sustain Minority Farmers in Small-Scale Urban Gardening

Lila Karki, University of Maryland Eastern Shore, MD; Prem Bhandari, Global Research Initiative, MI

2:45 pm–3:45 pm, Five Moons 4: Poster Session and Presidential Reception

Title	Author(s)
Extension-based Health Communication: Does Digital Media Reach Rural Populations?	Kristin E. Gibson, University of Georgia; Alexa J. Lamm, University of Georgia
Framing Messages to Improve Health Interventions in Rural Areas: A Fear Appeal Approach	Kristin E. Gibson, University of Georgia; Allison R. Fortner, University of Georgia; Alexa J. Lamm, University of Georgia
Learning Through Growing: Autoethnographic Snapshots from a Small Farm	Eleanor M. Green, University of Mississippi; John J. Green, Southern Rural Development Center
A Community Based Approach to Deter Childhood Obesity in Title 1 Schools	Dreamal Worthen, FAMU; Conchita Newman, FAMU; Saungaylia Randolph, FAMU; Sarah L. Price, FAMU
The Effects of COVID-19 on Asian Food Entrepreneurs in the Bluegrass, Kentucky	Ballengee, Victoria, Nick Clark, Keaton Connor, Jenny Heyn, Jackson Lalonde, Anna Luu, Molly Merchant, Jacquelyn Wilder and Keiko Tanaka, University of Kentucky
Rural Sociology’s Hidden History of Race, Racism, and Social Justice	Julie Zimmerman, University of Kentucky Rural Sociological Society Historian
Technology Use in Small and Medium-Sized Kentucky Farms	B. R. Gyawali*, Sujeet Acharya, Cynthia Rice, Kabita Paudel, Suraj KC, Amrit Nepal, Kentucky State University

3:45 pm–4:45 pm, Five Moons 6: SRSA Business Meeting (all attendees encouraged to attend)

4:45 pm–5:30 pm, Five Moons 6: SRSA Executive Council Meeting

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Abstracts

Presentations and Panel

Resource Access and Its Impact on Rural Communities

Historical and Structural Drivers of Dietary Transition: The Case of Marshallese Migrants
Jin Young Choi, Sam Houston State University

This study is to further our understanding of the historical and structural drivers of dramatic and damaging dietary change by exploring the unique pathways of dietary transition among Marshallese migrants who experienced human-induced and natural disaster, as well as domestic and international migrations. The results of the in-depth interviews with Marshallese elderly who lived in northwest Arkansas showed that they gave up their healthy traditional diet and developed dependency on highly processed industrial foods. The results highlighted that military occupation and nuclear testing, as well as natural disaster played significant roles in dietary transformation and the serious negative health outcomes this has implied.

Barriers faced by Socially Disadvantaged Farmers and Ranchers and Access to Capital and Food Insecurity—Policy Center Research Analyst Update
Kara A. Woods, Ph.D., SDFR Policy Research Center

The Research Analyst from The Socially Disadvantaged Farmers and Ranchers Policy Research Center (The Policy Center) will provide an update on the work on ongoing research projects dealing with access to capital for Black and other SDFRs. Access to capital has a significant impact on potential short-term income and long-term wealth creation among African American socially disadvantaged farmers, landowners, families, and communities. The discussion will provide impactful data highlighting the effects of access to capital on farmers, ranchers, individuals, as well as communities. The discussion will include an overview of the varying research projects methods, data analysis, and recommendations for the 2023 Farm Bill.

A Spatial and Historical Analysis of Plumbing Hardship in the United States from 1940 to 2020
Madelyn Verno, The University of Oklahoma; Stephen Gasteyer, Michigan State University; J. Tom Mueller, The University of Oklahoma

While recent scholarship has drawn attention to inequities in access to water and sanitation in the United States, most research has focused on cross-sectional data from the US Census, where “access to complete plumbing facilities” can be used as a proxy indicator for extreme water access challenges. This paper uses longitudinal census data to place the discussion of access to complete plumbing in spatial and historical context. We present this data over time and assess issues of spatial inequality as it relates to regional variation, rural-urban disparities, and urbanization. Our findings indicate that major government investments in rural infrastructure from the 1940s-1970s played a significant role in diminishing the overall population lacking access to plumbing. But progress toward universal access to plumbing slowed from 1990 onward. Rural areas have always had lower access to plumbing, and urbanization may have played a smaller role in nationwide improvements than may be expected.

Casinos and Land Cover Use Changes in Rural Oklahoma Counties, 2001-2019
Matthew S. Loflin, University of Oklahoma

Casinos are often seen as a means of solving local economic problems. As a result, Oklahoma’s economy and state government have turned to tribal gaming as a method to grow the state’s economy

and expand its tax base without raising taxes. I employ Land Cover Change Analysis and Land Cover Transition Matrices using the National Land Cover Data to to examine how casino development has influenced land cover changes in Oklahoma from 2001-2019. Preliminary analysis indicates that while significant land cover changes have occurred as a result of the development of the casino industry, these counties have experienced a population loss despite the economic opportunity presented by these industries.

What We Can Do: Action & Development

Climate Change Perceptions and Agricultural Adaptability Strategies: A Mixed Methods Study in Rural Peru.

Rafael Landaverde, Texas A&M University; Mary T. Rodriguez, The Ohio State University; Jera Niewoehner-Green, The Ohio State University; Tracy Kitchel, The Ohio State University; Jaqueline Chuquillanqui, Zamorano University

Of all Latin American countries, Peru experiences the most significant impacts of climate change on subsistence agriculture. Subsistence farmers struggle to produce under the new climate scenario and implement adaptability strategies to preserve their production. This concurrent mixed-methods study explored farmers' perceptions of climate change and documented their climate adaptability strategies in Huayhuay, Peru. Thirty farmers participated in semi-structured interviews, and 103 completed a survey questionnaire. Results demonstrated farmers noticed significant changes in rainfall and temperature patterns, extreme weather events, and the frequency of droughts. To cope with these changes, farmers implemented 26 adaptability strategies. Using improved seeds and changing planting and irrigation schedules were among the most frequently implemented strategies. However, not all adaptability strategies led to positive results. Therefore, to improve adaptability strategies, policymakers and practitioners should focus on the efficiency of such strategies rather than farmers' rate of adoption

In Search of Community Development in Cooperative Extension: The Case of the Missing Community
Abigail Almendarez, Sam Houston State University; Gene L. Theodori, Sam Houston State University

From its inception, Extension community development has varied as a programmatic thrust from state-to-state and/or territory-to-territory. We posit that despite recent collaborative efforts to identify community development core competencies for Extension professionals and calls to establish clear strategic directions in Extension community development programming nationally, additional work is warranted. Such work will entail overcoming the paucity of shared theoretical perspectives and operational definitions of the concepts of community and/or community development. In this study, we examined the ways in which the terms "community" and "community development" are used and/or defined on each state's/territory's Extension website(s). Then, using the community capitals model, we sorted each state's/territory's Extension community development programs into one or more of the seven types of capital as determined by the information presented on its website. A brief review of the history of community development in Extension is also presented, as are implications of our findings.

A Needs Assessment of Rural Youth Civic Leadership and Mentorship in a Southwestern Oklahoma County

Taylor Shackelford, Oklahoma State University; Lauren Lewis Cline, Oklahoma State University; J. Shane Robinson, Oklahoma State University

Our county of focus in rural Southwestern Oklahoma exhibits high rates of government subsistence, challenges in citizen health, and insolvent social capital opportunities, with a singular non-profit to carry the burden of civic engagement and leadership. Yet, civics education does not exist in Oklahoma State Standards of Social Studies Curriculum past the 7th grade to inform future civic leaders. This needs assessment sought to understand the necessary knowledge and skills of rural youth and mentors to make

positive changes and decisions in this community. Twelve categories emerged from the data related to youth needs (civics, communications, critical thinking and problem solving, cultural competency, decision-making, and leadership) and mentorship needs (coaching, ethics and values, leadership capacity, level of community engagement, personal behavior, and youth partnerships). We then conducted a participatory symposium in the rural community to discuss findings and develop a future youth civic leadership program to address the identified needs.

An Extension Needs Assessment for Improving Food Access to Build Resilient Rural Communities
Catherine E. Sanders, University of Georgia; Tatevik Markosyan, University of Georgia; Alexa J. Lamm, University of Georgia

Extension strives to build resilient rural communities by improving food access by acting as a bridge between educational, activist, and economic-based actors for food systems change. Being in almost every county in the U.S., Extension is uniquely positioned to assist with community-based food systems change. Needs assessments of desired program resources by priority populations are needed to establish effective food access programs. Through a non-probability opt-in survey, researchers collected data from 780 rural [State] residents to identify barriers to accessing fresh produce and desired Extension program resources. Barriers included prices of produce, low wages/income, and not enough resources for purchasing produce. Desired program resources included free or discounted weekly box of fresh produce, farmers' market coupons, and mobile trucks or food markets. The need for socioeconomic and market-based solutions within the built environment indicated Extension should increase partnerships with economic resource organizations to enhance community resilience related to food access.

Fighting for Equity

Co-Op Member Stress, Problematic Solidarity and Recommendations From Dairy
Thomas Gray, USDA, Program on Co-operatives

This presentation is an analysis of the written comments of a farmer-member survey of a large agricultural cooperatives in the North-west U.S. (confidentiality promises prohibit disclosure of firm names and exact locations). Approximately 1000 written comments are analyzed. A social work "life model" is used to organize the written comments. Nearly all comments express levels of frustration and/or discontent. Frustration and problematic solidarity within the organization are understood the results of: maladaptive transactions--breakdowns in communications, changing and inconsistent expectations, perceived exploitive relationships--as well as general unresponsiveness to meet specific member needs within the organization, and from larger environment. Recommendations are drawn from the analysis.

Blessings and Hard Work: White Farmers' Understandings of Success
Kelli Russell, Auburn University

In this research, I ask how do white farmers understand their positions within racial, class, and geographic hierarchies? Data for this paper come from an ethnographic study of white farmers and agriculture in the rural south. In this paper, I discuss how white farmers use religious language and explanations rooted in the ideology of the American Dream to specifically explain and justify their social positioning.

The Interaction of Gender and Region of Residence on Nutrition Among Children Under Five in Nigeria.

Aramide Kazeem, the University of West Georgia; John M. Musalia, Western Kentucky University.

This research investigates whose claim holds true in Nigeria: Svedberg (1990) and others' findings (see Wamani et al. 2007; Adekanmbi et al. 2013; Demissie and Worku 2013) of a slight pro-girl advantage in anthropometric measures captured through wasting and stunting during early life in sub-Saharan Africa, or Klasen (1996)'s assertion that a pro-girl advantage is not universal across countries in the region, as it depends on the age of the sample, the anthropometric measure used, whether the data is cross-sectional or longitudinal in nature, sample size of the analyzed data, and the country under investigation. It is also unclear whether or not the pro-infant girl advantage that exists in nutrition among children zero to three years old varies by region of the country in which they reside (Svedberg 1990; Wamani et al. 2007; Adekanmbi et al. 2013; Demissie and Worku 2013; Keino et al. 2014). Within the categories of gender, regional variation may explain some of the gender gap in children's nutritional status. The regional gap that is to the detriment of the northern region compared to the southern region in children's nutritional status in Nigeria is explained by geographical and historical reasons. Northern Nigeria has lower rainfall, severe droughts, and remote and inaccessible locations (Kandala et al. 2007; Uthman 2009). Most of the prior research examined the direct association of gender and other individual independent variables on children's nutritional outcomes; the small sample sizes of the primary data that were analyzed prevented the investigation of the interactions of gender with other independent variables, such as region of the country the child resides in on children's nutritional status (Medhin et al. 2010; Babatunde et al. 2011; Olack et al. 2011; Demissie and Worku 2013; Novignon et al. 2015). This research analyzes the 2018 Nigeria Demographic and Health Survey, a nationally representative secondary data set. The question asked is as follows: does the interaction of being a boy and residing in a northern region of Nigeria increase early childhood malnutrition, as measured by weight-for-height z-score, wasting, compared to residence in southern regions of the country?

Silence, Ambiguity, and Consciousness in Brazil's Racial Capitalism
Ian Carrillo, University of Oklahoma

This paper uses a materialist approach to study the relationship between silence and racial democracy ideology in Brazil. I ask: What role does silence play in explanations of racialized processes of work and employment? How do silence, ambiguity, and consciousness relate to the material structures of racial capitalism? To answer these questions, I conducted interviews with rural workers and union leaders in the sugarcane industry, which has historically entrapped people of color in exploitative work. I also conducted ethnographic observations of work routines on mills and plantations. Most respondents obscure the role of racism by engaging in extreme silence and using non-racial discourse to describe racialized structures shaping employment relations. Some respondents acknowledged racial mistreatment, using racially affirmative descriptors and framing racialized structures as colonial legacies. Overall, this article uses a racial capitalism framework to advance debates on the relationship between ideology and employment relations in their local historical-material context.

The Differential Impact of Heirs' Property within the City Limits of a Small Southern Town
Obianuju Egiebor, Tuskegee University; Robert Zabawa, Tuskegee University

The reluctance to write wills and take advantage of estate planning is a leading cause of heirs' property, land passed down across generations without a probated will, particularly among African Americans in the rural South. This study addresses heirs' property from a small city perspective in rural Alabama. This research examines the differential impact of heirs' property in three areas, the ability to add improvements to land: the impact of owner residency on improving the land, and, the overall value of the land. Data was gathered using the County GIS website. Results found that having a secured title to land allows for greater improvement opportunities. In terms of residency, local residency is associated with greater investment opportunities, though its significance varies according to communities. These results have implications for individual landowners as well as the communities where heirs' property impedes wealth accumulation and contributes to land loss among African Americans

Community Health in Rural Populations

The Dark House: The Health Impacts of Heirs' Property Housing Across the Rural South
Rebecca Mosier, University of Oklahoma; Ryan Thomson, Auburn University

Many communities across the southern US have been denied access to capital in the form of mortgages, home loans, and credit due to a clouded title accompanying inherited property. This hinders home improvements and is linked to a variety of community health issues. Accordingly, this study explores the intersection of heirs' property clouded ownership titles and county level health statistics across fourteen Southern states. This exploratory study assesses the relationship between housing and community health using regression techniques to control for issues like population, poverty, and vacant housing. Heirs' property data are derived from parcel level indicators of heirs' property obtained from the CoreLogic Mortgage Database and aggregated at the county level. The total number of heirs' property parcels are then compared along community health indicators drawn from the CDC's National Environmental Public Health Tracking Network.

The Travel Independent Contractor and the Impact on Rural Healthcare
Rebecca Mosier, University of Oklahoma

The Covid-19 pandemic altered the organization of healthcare work in a relatively short period. Healthcare workers were already overworked, and the pandemic exacerbated the problems of staffing shortages, burnout, high-risk labor, and low pay; a drastic shift in the healthcare field was imminent. Short-term contracts with higher pay sparked a shift towards Temporary Independent Contractors (TICs) with greater autonomy and higher pay. Within the context of the Covid-19 pandemic, the following study examines the rationale and personal experiences behind this larger paradigm shift. In-depth interviews of twenty-one healthcare professionals suggest TICs experience increased job satisfaction despite out-grouping by co-workers. The gigification of healthcare work has important implications for rural hospitals as healthcare workers can work for the highest dollar, likely found in urban hospitals.

Determining Reach and Uptake of an Extension-Based Health Promotion Project in the Wake of COVID-19

Saher J. Dossani, University of Georgia; Catherine E. Sanders, University of Georgia; Alexa J. Lamm, University of Georgia

Food insecurity is a significant public health issue in the United States impacting rural areas at high rates. The COVID-19 pandemic exacerbated health disparities such as food insecurity, due to lockdown orders and supply-chain barriers. Extension-based health promotion programs can help decrease food insecurity in rural areas as well as increase physical activity to reduce the occurrence of diet-related chronic disease; however, little is known about the impact of COVID-19. This study examined the impact of an Extension-based health promotion project in four rural counties in [state] to determine if program reach increased, decreased, or stayed the same in the wake of COVID-19. The results indicated the project resource use across the four counties increased from 2021 to 2022, leading to improved food access and increased physical activity. Implications include how Extension-based programs can help increase food access and community resilience in the COVID-19 era.

Rurality Across the World: An Exploration of Access to Physicians in the Rural United States and Applications Abroad

yas Green, University of Mississippi

A sixth of the U.S. population lives in a rural area. Those in rural areas face a disproportionate lack of access to physicians and acute emergency care, along with preventive medicine; one can make the

reasonable assumption that those experiencing rurality in other countries face similar conditions. This paper is a portion of research around this issue; the current analysis relates to rurality and place of death (specifically in a medical versus non-medical setting), along with additional analysis by age cohort. Preliminary follow-up research is being conducted in the international context, with an emphasis on Germany and its rapidly aging population as topics of interest.

Using Cognitive Dissonance to Evaluate Impact: Implications for Health Promotion Extension Initiatives in Rural Communities

Tatevik Markosyan, University of Georgia; Catherine E. Sanders, University of Georgia; Alexa J. Lamm, University of Georgia

Recorded long-term programmatic impacts of community-based health-promotion extension programs, including influencing choices related to consuming nutritious and healthy food, are lacking. New approaches are needed when working in rural communities to identify and communicate holistic evaluation impacts. The current study explored rural community members' experiences with cognitive dissonance in relation to decreased adult obesity and the adoption of healthier food consumption practices related to an extension intervention. Through a qualitative research design using a thematic analysis of focus group data, we found an overall positive association between community members' experiences with cognitive dissonance resulting in the acceptance of healthier food choices over inherited unhealthy practices, increased knowledge and awareness about nutrient-dense food, and increased physical activity. The cognitive dissonance framework revealed positive indicators of long-term programmatic impact. However, the analysis also indicated that while interventions improved access to resources, socio-economic barriers still exist that would ensure sustainability and depth of positive changes leading to long-term behavioral change in the rural communities.

Ways of Expansion

Increasing Resilient Organic Production in the Mid-South Region

Srivastava Garima; Stephen Mukembo; Mary Hendrickson; Kerry Clark; and David Redhage

Organic farming has expanded rapidly in the U.S., but adoption rate of certified organic production is lower in Lower Midwest and Mid-South than other regions. Our research aimed to identify regional-specific challenges, opportunities, and farmer-led innovations contributing to adoption of organic farming in Mid-South, and how they can be supported or expanded. 35 farmers and handlers were purposefully sampled and interviewed. Preliminary findings suggest regional and sector specific motivations and challenges for organic farming adoption. Challenges include difficulty obtaining certification, biophysical factors, market access, infrastructure, and inputs. Farmers were able to manage challenges by reinventing tools and equipment, and adapting resources to biophysical factors. Although lack of markets and infrastructure constrained them, it provided entrepreneurial opportunities. These innovations enhance the adaptive capacity of farmers, allowing opportunities to reinvent and incorporate their local knowledge. Farmer-to-farmer interaction through participatory approaches will likely increase the adoption and development of resilient organic farming systems.

Community Based Infrastructure Planning

Jillian Morrison, University of Mississippi; Velma Wilson, Quitman County Economic & Tourism Director; Otis Jones, Former Quitman County Administrator Matthew Hancock, University of Mississippi; Anne Cafer, University of Mississippi.

This paper presents an illustrative case study of rural strategic planning and best practices for University-Community collaboration in this process. This work presents the specific case of Quitman County, Mississippi. As one of the fastest depopulating counties in Mississippi over the last decade, Quitman County's rebound to "exemplar" status is a result of on the ground work engaged community

work by local stakeholders This momentum has included the recruitment of a regional grocery retailer to locate in the county, the establishment of an Amtrak station in the county, and now a comprehensive county-wide, community-driven strategic plan that focuses on (1) broadband; (2) water & sewer; (3) and housing. During this presentation, we will: (1) outline the process for community driven strategic planning; (2) major considerations when engaging in this type of strategic planning, including funding mechanisms and local context; and (3) provide lessons learned.

Fuzzy Cognitive Mapping and Community Resilience Among Mississippi Delta Horticultural Farmers
Natalie Minton, The University of Mississippi; Anne Cafer, The University of Mississippi; Meagen Rosenthal, The University of Mississippi

In partnership with local non-profits and the Mississippi Delta Council for Farm Worker Opportunities, Inc., the University of Mississippi Community First Research Center (CREW) examined key bottlenecks encountered by Mississippi Delta small-scale horticultural producers in expanding their production. This research utilized a community-based participatory approach with stakeholders collaboratively developing the research question, tailoring the research instrument, and defining the parameters of participant selection. CREW utilizes a novel mixed methods approach, Fuzzy Cognitive Mapping (FCM). FCM allows researchers and participants to ground identified community-level factors within the geographic, political, and socio-economic conditions of the community. FCM also allows the development of maps that articulate the strength and direction of influence of variables on each other. Individual maps from farmers were aggregated to produce a comprehensive community map. The resulting maps highlighted driving factors for horticultural farm expansion, which are strategic planning, sustainability methods, external resources, value-added products, and social media. The most significant prohibitions are human labor, natural conditions, market, equipment, and aging population. Furthermore, this research also provides a collective map for resource and expertise sharing that might benefit small horticultural producers and facilitate production expansion. This local self-organization would contribute to regional food system resiliency.

Restorative Justice

Agricultural Producers Associations as Coping Strategies for the COVID-19 Pandemic in Honduras.
Juan Xavier Ulluguari, Zamorano University; Rafael Landaverde, Texas A&M University; Arie Sanders, Zamorano University

The COVID-19 pandemic has exacerbated many economic and production challenges agricultural producers face in low- and middle-income countries. In Honduras, the government implemented sanitary and social distancing measures that limited national agricultural production. Agricultural producer associations implemented strategies to mitigate the impacts of COVID-19 on rural livelihoods. This qualitative case study explored how agricultural producer associations functioned as coping strategies during the pandemic. Semi-structured interviews were conducted with leaders (n = 4) and members (n = 16) of four agricultural producer associations. Assistance with transportation and supplies, opening safe markets, stable and competitive prices, and managing external donors were several strategies implemented by the associations, which demonstrated the stability associations provided to members' agricultural production and commercialization. Producer associations met their members' needs during the public health crisis. Therefore, results of this study could potentially guide associations activities and priorities during similar crises or external shocks.

Tea Shops In Burma (Myanmar) Society: Case Studies of Street-Level Democracy
Zaw Lin, Auburn University

A multi-ethnic and cultural diversity country, Burma (Myanmar), regardless of its rich, diverse natural resources, the ethnic armed resistance (EAR) conflicts (civil war) over political and cultural rights have

been central to the underachievement of socio-economic development since its independence from Great Britain in 1948. Consequently, this has resulted in a firm root of social injustices with multifaced social problems locally. Additionally, the impacts of recent COVID-19 and the aftermath of the military coup on February 1, 2021, added new social injustices and problems and erased a near decade of poverty reduction progress. The traditionally donor-funded organized conferences, workshops, or training required more time to address such long stands, complicated challenges, and controversial issues. Therefore, an informational approach and alternative social action are needed. The spaces, like tea shops, are abundant over the country and are proposed to investigate and identify their potential role as local institutions through a set sociological theory and concept.

Collective Agency as Social Justice Praxis: Black Farmer Organizer Perspectives
Nicole Nunoo, Virginia Tech; Kim Niewolny, Virginia Tech

Social justice within the food system emerged as a critique of capitalism in food production and access. Politically, it is a response to the longstanding history of settler colonialism, structural racism, and exploitation that undergirds the food system. Focusing on Black farmer organizers in Virginia, this study employs collective agency (CA) theory as a lens in assessing the levels of local impact; the control over the production, distribution, and consumption of food, that Black farmer organizers have locally. CA in this context refers to the intentional mobilization and merger of individuals and groups with specific political, social, and economic leverage to reimagine, create, transform, and cause a change within a system. Using semi-structured interviews, this study explores how Black farmer organizers and their cross-sectoral relationships are actively utilizing collective agency as social justice practice. We share insights from the semi-structured interviews conducted with selected Black farmer organizers in Virginia.

Using Poetic Dialogues as a Focus Group Analysis Method to Highlight Collective Identity for Culturally Responsive Evaluation
Catherine E. Sanders, University of Georgia; Alexa J. Lamm, University of Georgia; Jori Hall, University of Georgia; Abigail Borron, University of Georgia; Maria Navarro, University of Georgia; James Anderson, University of Georgia

Poetic analysis is an arts-based qualitative methodology that helps engage diverse audiences with evaluation results. Poetic interpretations of participant voices emphasize components of social identity, equity, and access to capital/resources, whether cultural, linguistic, or educational. This study examined the use of poetic dialogues, an application of poetic transcriptions to focus group data, to highlight intangible program impacts from Extension-based food access programs. Data were collected through focus groups with community coalitions implementing an Extension-based food access program in four rural [state] counties. Poetic dialogues were crafted to capture intangible and social program impacts and then read at community coalition meetings as a form of member checking and evaluation results dissemination. Merging a user-focused and appreciative evaluation approach with arts-based qualitative analysis allowed the evaluators to capture impacts that were more responsive to community identities. Constructing poetic dialogues will be discussed alongside implications for using the method in community-based research.

Building Better Communities

Rewriting the Narrative: A Portrait of Leadership in a Rural Oklahoma Community
Anthony C. Caruso, Oklahoma State University; Lauren Lewis Cline, Oklahoma State University; Audrey E. H. King, Oklahoma State University

Leadership development efforts in rural communities are often approached from a deficit-based perspective - focusing on what is perceived as wrong or missing in the community, rather than from an

appreciative lens to illuminate the strengths, successes, and leadership processes of the community. Also missing from rural community leadership research are the unfiltered stories and perspectives of rural community members themselves. The purpose of this narrative inquiry project, conducted as appreciative inquiry interviews with 10 rural community members, was to better understand the narrative of rural leadership being told about and by rural Oklahomans. Our aim was to a) explore the narrative of effective leadership in rural Oklahoma by empowering community members to share their stories and b) highlight the unique leadership process in rural communities. Our findings provide valuable insight into why leadership is needed and what leadership looks like particularly related to adaptive challenges in rural Oklahoma.

Loopholes of Disadvantage: Heirs' Property and Food Deserts
Jihyun Shin and Ryan Thomson, Auburn University

Culture of poverty arguments is fairly popular in the United States, especially in the South. There are many correlates of poverty that create a harsh reality in many underdeveloped rural communities. The Black Belt, Mississippi Delta, and the hollows of Appalachia each manifest disadvantage and poverty differently. Accordingly, this study applies negative binomial regression and GIS visualizations to examine the overlap between heirs' property hot spots and food deserts alongside a series of demographic and well-being indicators. The Legacy of Jim Crow cannot be understated in the Deep South. From redlining to poor infrastructure, minimal amenities, and legal discretion of 'best land use'; food deserts and heirs' property hot spots highlight the segregated nature of economic development. This study considers the possibility that quality of life in the form of housing and access to healthy foods are closely linked at the regional scale.

Smartphones for Smart Agriculture: A Pilot Study with Women Farmers in Uganda
Meikah Dado, Texas A&M University; Ryan Staples, Ford Motor Company; Jack Elliot, Texas A&M University; Rafael Landaverde, Texas A&M University

Women smallholder farmers are vital to the agricultural industry in Uganda (Palacios-Lopez et al., 2017). However, a common barrier they face is accessing reliable Extension services (Farnworth et al., 2015). Therefore, in 2022, a pilot program leveraging technology to provide agricultural knowledge to women farmers was launched in Uganda. Smartphones and solar charges were distributed to nine women during the spring growing season. Agricultural videos were recorded in the local dialect and uploaded to their smartphones. Results demonstrated women with smartphones harvested an average of 16.16 harvest bags, whereas those with traditional Extension services only harvested 4.64 bags. In addition, there was a statistically significant difference ($p < .001$) in women's capacity to feed their families for two to four months longer, based on the extension service they received. The pilot program increased women with smartphones' agricultural productivity, and preliminary results indicated promising technology implications for future extension programs.

Cost Reducing Technologies to Sustain Minority Farmers in Small-Scale Urban Gardening
Lila Karki, University of Maryland Eastern Shore, MD; Prem Bhandari, Global Research Initiative, MI

Gardening in urban and semi-urban areas sustainably supplies fresh produce for family consumption, promotes healthy eating habits, physical fitness, a healthy homestead environment, children's garden schooling, and supplement household income. Simultaneously, gardening underpins economic activity in the community via job creation, academic training, farm-business incubation, market expansion, savings on groceries, and increased property values. UMES Extension recently accomplished an educational project with 22 small and minority farmers in Maryland. The results showed that nearly 95% of them gained knowledge in reducing production costs, followed by increased farm revenue (96%), helped lower farm risk (90%), enhanced resource management (95%), and enhanced entrepreneurship skills (95%). Concurrently, they increased greens intake (100%), supplied surplus to neighborhood

markets (100%), and upstretched vegetable production (100%) and household income (100%). These results suggest that indigenous technologies such as rainwater harvesting, compost making, ethnic crop diversification, and intensive intercropping will help sustain minority gardeners.

Panels:

Panel 1: Intentional Attention: Elevating Voices to Revitalize Oklahoma's Historical All-Black Towns

Facilitators:

Courtney P. Brown, Oklahoma State University

James Arati, Langston University

Lauren L. Cline, Oklahoma State University

Oklahoma was home to over 50 African American settlements and towns from 1865-1920. The establishment of these towns would lead to fruitful pursuits of entrepreneurship, education, and economic growth. Today there are only 13 Historical All-Black Towns remaining which has increased interest toward supporting and emboldening efforts to help those communities thrive again. Emerging local conversations and efforts to collectively revive these communities coincides with national priorities for rural community development and sustainability. Community members and leaders throughout Oklahoma are currently strengthening collaborative relationships to develop strategies to combat the present challenges facing these remaining towns. This panel discussion would be representative of current individuals working to encourage action toward revitalizing Oklahoma's Historical All-Black Towns while further advocating for individuals struggling to maintain heirs' property within these spaces. Additionally, this panel would allow authentic voices to significantly contribute to the perspectives often studied within these increasingly scarce African American communities.

Panel 2: Southern SARE (USDA/Sustainable Agriculture Research Education) Workshop

Facilitators:

Douglas H. Constance, Sam Houston State University

Jeff Jordan, University of Georgia-Griffin

Candance Pollack-Moore, University of Georgia-Griffin

David Redhage-Kerr, Center for Sustainable Agriculture

Brennan Washington, Fort Valley State University

Daramonifah Cooper, University of Georgia-Griffin

Representatives from the USDA Southern SARE Grants Program will present an overview of the grant opportunities in the Southern Region. SARE is USDA grant and outreach program for researchers, educators, farmers, ranchers, and NGOs/CBOs who want to develop innovations that improve farm profitability, protect water and land, and revitalize communities. Panel representatives include: Jeff Jordan, Program Director; Candice Pollack-Moore, Assistant Director; David Redhage, Professional

Development Program Manager; Brennan Washington, 1890 Land Grant Liaison and Limited-Resource/Minority Farmer Outreach Specialist; Daramonifah Cooper, Communications Specialist.

Panel 3: Climate Change, Adaption, and Pursuit of Sustainable Possibilities: Interactive Dialogue on Roles for Social Scientists

Facilitators:

John J. Green, Southern Rural Development Center

Gary A. Thompson, Southern Association of Agricultural Experiment Station Directors

Climate change is of ever-increasing concern to community well-being, and there are numerous research paths needed to inform policy and practice, including outreach and extension programming. Although conversations concerning priorities often focus on the physical and natural sciences, there have been important contributions from social scientists as well. Being able to address topics such as attitudes and behaviors, adoption/resistance to new technologies, inequities in access to resources and impacts, and collective action, insights from social scientists are particularly important for informing adaption strategies and pursuing more sustainable possibilities. This session will be a facilitated interactive dialogue with the goal of generating and documenting ideas around important topics of climate change focused research and what can be done within and between our universities and associated organizations to stimulate and support this work. Results from this discussion will be shared with participants and used to inform efforts through the Southern Association of Agricultural Experiment Station Directors, Association of 1890 Research Directors, and the Southern Rural Development Center.

Panel 4: Rural Population Health and Aging: An Introduction and Facilitated Dialogue Session for Collaborative Research

Facilitators:

John J. Green, Southern Rural Development Center

Leif Jensen, The Pennsylvania State University

Shannon Monnat, Syracuse University

Population aging is occurring rapidly in rural areas. There are opportunities and challenges that need attention to inform outreach, extension, and policy. Rural communities are not all the same, so an appreciation of diverse experiences and trajectories is critical. The Interdisciplinary Network for Rural Population Health and Aging (INRPHA) seeks to build capacity to address these issues. Researchers at The Pennsylvania State University, Syracuse University, University of Colorado Boulder, and Southern Rural Development Center are leading this effort with funding from the National Institute on Aging (NIA). The national network facilitates relationship building, provides mentoring, and supports innovative research on the complex exposures involved with health and aging trends among different rural populations and regions in the United States. This workshop will introduce INRPHA, discuss major research questions, provide an overview of NIA and other funding, and offer hands-on experience and feedback for drafting collaborative research ideas.

Posters

Extension-based Health Communication: Does Digital Media Reach Rural Populations?

Kristin E. Gibson, University of Georgia; Alexa J. Lamm, University of Georgia

Many rural areas in the southern U.S. do not have access to broadband, potentially limiting the reach of online Extension-based health related communication messages. This exploratory study sought to determine if rural residents used digital media to obtain health information using a survey sent to 780

rural Georgia residents. Results indicated many had access to a computer with internet every day (79.5%) or a mobile phone with a monthly internet plan (67.3%). Nearly all had some access to email (99.1%). Respondents obtained health information primarily from a health professional (67.7%), websites (53.1%), word of mouth (32.2%), and social media (34.2%). While results were limited to individuals able to respond to an online survey, the findings indicated digital media via websites and social media that incorporates the cultural, social, and geographic context of rural health is likely to reach rural audiences.

Framing Messages to Improve Health Interventions in Rural Areas: A Fear Appeal Approach

Kristin E. Gibson, University of Georgia; Allison R. Fortner, University of Georgia; Alexa J. Lamm, University of Georgia

Many rural areas in the southern U.S. do not have access to broadband, potentially limiting the reach of online Extension-based health related communication messages. This exploratory study sought to determine if rural residents used digital media to obtain health information using a survey sent to 780 rural Georgia residents. Results indicated many had access to a computer with internet every day (79.5%) or a mobile phone with a monthly internet plan (67.3%). Nearly all had some access to email (99.1%). Respondents obtained health information primarily from a health professional (67.7%), websites (53.1%), word of mouth (32.2%), and social media (34.2%). While results were limited to individuals able to respond to an online survey, the findings indicated digital media via websites and social media that incorporates the cultural, social, and geographic context of rural health is likely to reach rural audiences.

Learning through Growing: Autoethnographic Snapshots from a Small Farm

Eleanor M. Green, University of Mississippi; John J. Green, Southern Rural Development Center

Outside of teaching, research, and applied efforts, we also own The Green Garden Twin Gum, a budding market garden with value-added products and a growing flock of St. Croix sheep. This poster is a piece of the larger puzzle encompassing life on the farm, exploring the food system through multiple lenses. It consists of a series of snapshots from the life of our operation, an autoethnography seeking to document the experiences of navigating food systems. Capturing the successes and challenges of a 8.25 acre small farm, we place it within our lives that include maintaining other professional roles. We pursue sustainability and resilience. From design to implementation, we attempt to utilize practices holistically in how we till, plant, water, harvest, package, and distribute products. We explore the intersections between ecology, economy, and community. This poster focuses on major themes concerning efforts to be responsible in a complex world with a set of rural sociological tools.

A Community Based Approach to Deter Childhood Obesity in Title 1 Schools

Dreamal Worthen, FAMU; Conchita Newman, FAMU; Saungaylia Randolph, FAMU; Sarah L. Price, FAMU

Community development is a deliberate effort to build assets that increase the capacity of residence to improve their quality of life. Assets may be physical, human, social, political, and cultural. In some areas, obesity is a significant health risk to individuals and the community in which they live. Overweight children often become overweight adults, facing health and social problems associated with the disease. In 2016/2017, school health screenings showed that 28.3% of first graders, 35.4 % of third graders, and 14.1% of sixth graders in a Florida Panhandle school district were overweight. Further examination of the data revealed an increase in overweight/obese students attending schools with large proportions of Black/minority or low-income students. To intervene, program assistants from a Historically Black College/University (HBCU) extension program, respond to the structural inequality - obesity and education access to health care by offering nutritional education over a 12-month timeframe, to ascertain the possibility of deterring childhood obesity using community-based

programming. The intervention, a multifaceted, evidence-based educational approach, included hands-on activities, nutrition, and physical activity education. Program assistants engaged 45 classes and over 870 students in 3rd - 5th grade at three different Title 1 locations. Pretest/posttest was given, and T-tests results revealed significant behavior changes in the consumption of sugary drinks, days eating fruit as snacks, frequency of vegetable consumption, washing hands before touching food, and physical activity. Community practitioners can offer educational programs to positively impact health behaviors of elementary school age children who are at risk of obesity.

The Effects of COVID-19 on Asian Food Entrepreneurs in the Bluegrass, Kentucky
Ballengee, Victoria, Nick Clark, Keaton Connor, Jenny Heyn, Jackson Lalonde, Anna Luu, Molly Merchant, Jacquelyn Wilder, and Keiko Tanaka

This poster is a product of class research project on the impacts of the COVID-19 pandemic and subsequent rise of anti-Asian violence on Asian food entrepreneurs in the Bluegrass region of Kentucky. In this project, we raised three research questions: (a) How did the COVID pandemic affect the Asian restaurant industry in Lexington/Bluegrass, Kentucky? (b) What types of effects did the industry experience as the number of reported anti-Asian incidents rose across the U.S.? (c) What strategies did the Asian restaurant industry use to overcome the challenges it faced during the COVID pandemic/rise of anti-Asian violence? We completed two one-on-one interviews with restaurant owners/chefs and one focus group interviews with three food entrepreneurs. We found that Asian restaurants suffered greatly from the COVID-19. Take-out/delivery options and reduced labor force kept many of these restaurants afloat. The experience of anti-Asian sentiment during the COVID pandemic varied among individuals. Through this course project, we have derived three lessons. First, authenticity in food is co-produced by the creators and eaters. Second, cooking is intricately personal that embodies both individual and collective memories shared not only by the chef and his/her/their family and friends, but also by the ethnic group with whom the chef identifies. Finally, the COVID pandemic raised stigma surrounding Asian food and Asian/Asian-Americans.

Rural Sociology's Hidden History of Race, Racism, and Social Justice
Julie Zimmerman, University of Kentucky, Rural Sociological Society Historian

When it comes to understanding rural sociology's engagement with race/ethnicity and racism, our past is certainly not without fault. Following on long-standing criticisms of rural sociology's limited attention to race/ethnicity such as Snipp (1996), Kuvelsky (1989) and Coleman (1965), as well as the recent special issue of *Rural Sociology* (Carrillo et al 2021), this is a 3-poster display that was prepared as the Historian's Display for the Rural Sociological Society's 2022 annual conference. Each poster explores an aspect of rural sociology's history. The first poster examines some of the 'forgotten footsteps' focusing on Booker T. Washington, W.E.B. DuBois, and Charles S. Johnson and their linkages to rural sociology. The second poster provides a glimpse into a selection of individuals and their research and work on race/ethnicity including Allen B. Dogget Jr., Minnie Miller Brown, Lewis Wade Jones, and William P. Kuvelsky. The final poster focuses on stories surrounding race and racism in rural sociology and RSS's past including the small role RSS played in research funding for 1890 Land Grant institutions. In addition to the 3 posters, copies of publications will be provided on a table as part of the display. As explained on the center poster "Unearthing and piecing together a neglected and forgotten past is an unending project. These posters only touch the tip of the iceberg of those left out of the collective history of rural sociology. The hope is that this display is but one of many efforts to focus on recovering and re-emplacing these important voices, figures, and scholarship".

Technology Use in Small-and Medium-Sized Kentucky Farms

*B.R. Gyawali**, Kentucky State University; *Sujeet Acharya*, Kentucky State University; *Cynthia Rice*, Kentucky State University; *Kabita Paudel*, Kentucky State University; *Suraj KC*, Kentucky State University; *Amrit Nepal*, Kentucky State University

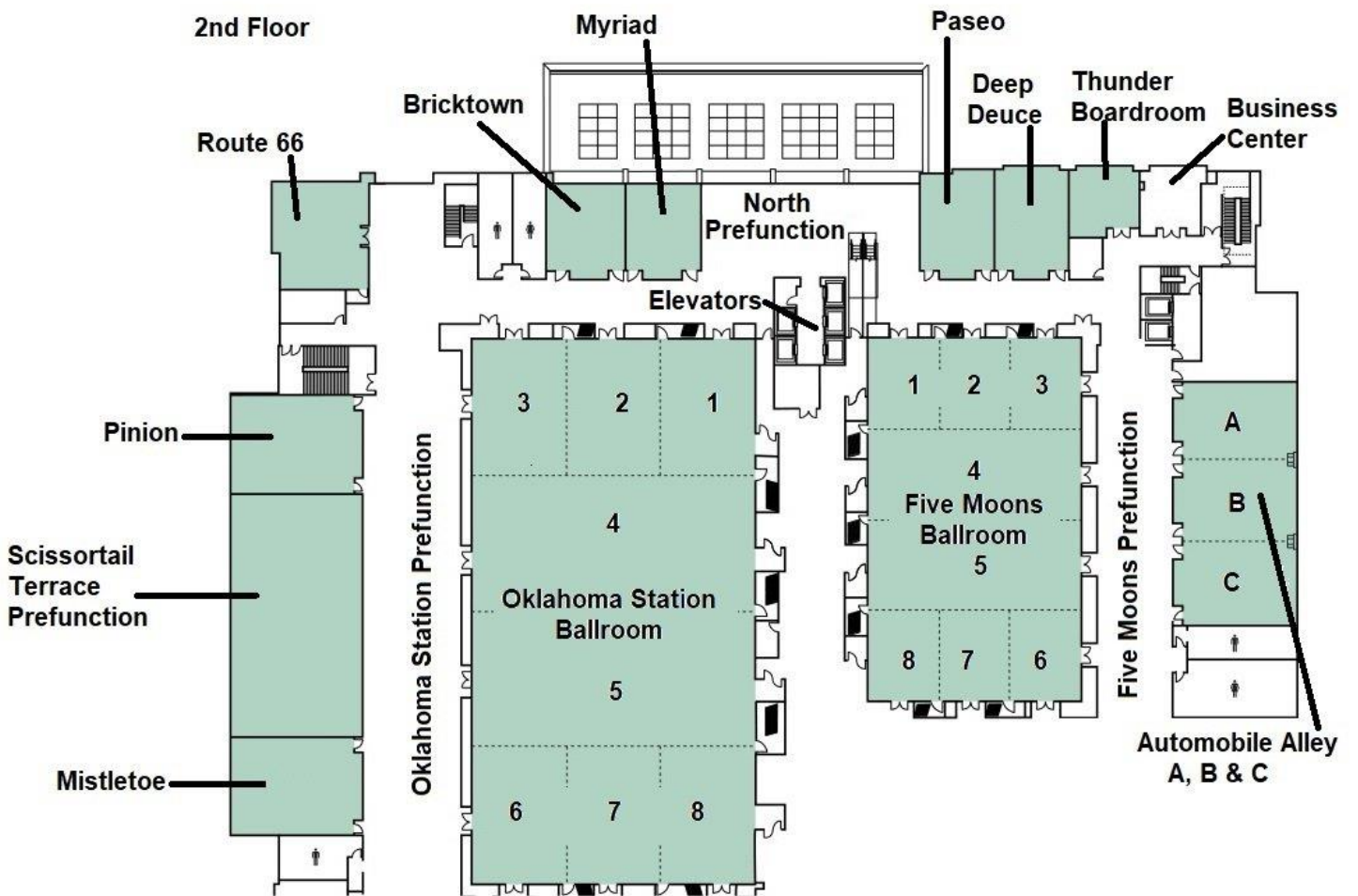
Previous studies suggest that small-scale farmers desire assistance to learn about utilization of recent technologies that are cost-effective and suitable to their needs. Preliminary information suggests that farmers are not taking advantage of technological software, machinery and data such as geospatial and environmental current and historical data. This research conducted a survey to examine: (1) What are the driving factors for adoption/non-adoption of traditional and modern computer-based technology, (2) Does participation in training increase technology adoption? And (3) why do small/medium-sized farmers adopt/not adopt profitable technology? This study analyzed ninety eight survey responses collected from various counties in Kentucky. Among all the respondents, forty seven percent of the respondents were seniors, and 44% were adults. The average years of active farming was 29 years. Majority of the respondents have been farming for 4th generation. The average acreage of farmland owned is 140 acres while the median acreage is 80 acres. The analysis of the additional survey data suggests respondents have limited skills to utilize new technology in farming. Also, the lack of reliable internet is another major concerns about technology use in farming. Few respondents reported they normally would wait to see others' success with new technologies before starting to use new technology. The responses would help Kentucky State University and other institutions to revise their education and outreach approach for integrating innovative technologies into sustainable farm practices in Kentucky.

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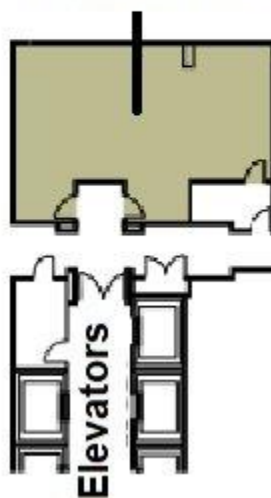
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