

One Hundred and Eighteenth  
Annual Meeting



**SOUTHERN  
ASSOCIATION OF  
AGRICULTURAL  
SCIENTISTS**

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

2022 Program Book

New Orleans, Louisiana  
February 10-15, 2022

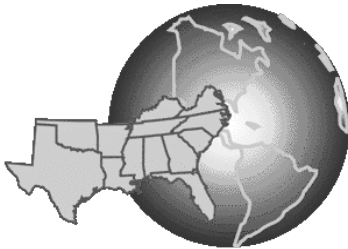


***Conference participants are encouraged  
to thank the sponsor for their support of  
SAAS.***

Sheraton New Orleans Hotel  
500 Canal Street  
New Orleans, LA 70130

# 2022

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



*New Orleans, Louisiana*

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](http://www.saasinc.org)

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### **SAAS 2021-22 Officers**

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## SAAS INFORMATION

### SAAS Registration

Sunday, February 13 - 8:00 am - 4:00 pm  
 Monday, February 14 - 8:00 am - 4:00 pm  
 Tuesday, February 15 - 8:00 am – Noon  
 Napoleon Foyer (Third Floor)

### SAAS General Business Meeting

Sunday, February 13  
 4:00 pm – 5:00 pm  
 Keynote Speaker: Dr. Carrie Castille  
 Director of USDA National Institute of Food and  
 Agriculture  
 Borgne (Third Floor)



### Super Bowl Party

Sponsored by Southern Farm Bureau  
 Life Insurance Co.

Jackson, Mississippi and Affiliates  
 5:00 pm - Sunday, February 13  
 Grand Ballroom A/B/C (5<sup>th</sup> Floor)

### Executive Committee Meetings

Sunday, February 13

#### SAAS Board Meeting

2:30 pm – 3:30 pm  
 Borgne (Third Floor)

Tuesday, February 15

#### SAAS Board Breakfast Meeting

7:30 am – 9:30 am  
 Poydras (Third Floor)

## ASSOCIATION REGISTRATION

**Fees: When you register on-site, a receipt will be provided for reimbursement. Fees are association fees + SAAS fee (\$60 for professionals, \$5 for graduate students & \$0 for undergrads).**

Admin Heads of Agric	Sunday – 8am-4pm Monday – 8am-4pm Tuesday – 8am-Noon Napoleon Foyer – 3 <sup>rd</sup> Floor
Ag Comm	Sunday – 7:30am-1pm Monday – 8am-10:15am Maurepas Room – 3 <sup>rd</sup> Floor
Ag Econ	Sunday - Noon-4pm Monday - 7am-5pm Tuesday – 8am-5pm Napoleon Foyer – 3 <sup>rd</sup> Floor
Ag Educ	Saturday - 4pm-6pm Sunday - 8am-10am Monday - 8am-10am Napoleon Foyer – 3 <sup>rd</sup> Floor
Agron	Saturday – 10m-4pm Sunday - 8am-5pm Napoleon Foyer – 3 <sup>rd</sup> Floor
Biochem	Monday – 8am-4pm Napoleon Foyer – 3 <sup>rd</sup> Floor
Horticulture	Friday - 7am-6pm Hotel Lobby
	Saturday - 7am-6pm Sunday - 7am-10:45am Napoleon Foyer – 3 <sup>rd</sup> Floor
Research Ctr Admins	Sunday – 1:30pm Napoleon Foyer – 3 <sup>rd</sup> Floor
Rural Soc	Sunday – 7:45am-3pm Monday – 7:45am-3pm Napoleon Foyer – 3 <sup>rd</sup> Floor

For ADA assistance or general information, please visit your association registration table or the SAAS registration table. We should all be in the Napoleon Foyer on the Third Floor of the Sheraton. We will be happy to assist you or find someone who can assist you. Hope you have a great meeting.

## ADMINISTRATIVE HEADS OF AGRICULTURE

Southern Association of Agricultural Scientists  
Administrative Heads of Agriculture Section  
(AHS)

Monday, February 14  
11:00 am – 3:00 pm  
Administrative Heads of  
Agriculture Section (AHS) Meeting  
*Poydras (Third Floor)*  
Lunch will be served.

## AGRICULTURAL COMMUNICATIONS

National Agricultural Communications  
Symposium  
Sheraton New Orleans Hotel  
New Orleans, LA | Feb. 13-14, 2022

Sunday, Feb. 13

7:30-8:30 a.m. **Breakfast & Networking**, *Maurepas*

8:30 a.m. **Paper Session I**, *Maurepas*

**Welcome (15 minutes) GMO or GM No?  
Segmenting a Consumer Audience to Examine  
Their Perceptions of Genetically Modified  
Products**

Julia Gibson, Jamie Greig, Shelli D. Rampold, and  
Christopher Stripling – University of Tennessee

**Importance Performance Analysis of Beef  
Consumer Perceptions**

Sarah Al-Mazroa Smith, Greg Miller, and Shuyang  
Qu – Iowa State University

**Covering the Crisis: How Three Agricultural  
Organizations Reached Out via Social Media**

Julia Knaggs and Emily Buck – The Ohio State  
University

**The Pumpkin Queen: Applying Sarah Frey's  
Narrative to Women's Experience in Agriculture**

Alyssa Rockers and Joy Rumble – The Ohio State  
University

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

10:20-11:20 a.m. **Paper Session II**, *Maurepas*

**Show Me and What Will I Remember? Exploring  
Recall in Response to NWS Tornado Warning  
Graphics**

Laura M. Fischer (Texas Tech University), Jeannette  
Sutton (University of Albany, SUNY), and Kayla  
Powers (Texas Tech University)

**Exploring the Impact of Source Credibility When  
Communicating about Agricultural Science on  
Twitter**

Allison R. Fortner, Alexa J. Lamm, Jessica Holt,  
Abigail Borron, and Allen J. Moore – University of  
Georgia

**Give Me Flowers: Measuring Social Media  
Advertising Strategies for Floral Products**

Rachel Corry, William R. Taylor, Jr., Jessica Holt,  
Ben Campbell, and Julie Campbell – University of  
Georgia

## AGRICULTURAL COMMUNICATIONS

- 11:20 – 11:30 a.m. **Southern Region Communicators Consortium**
- 11:30 a.m. **Lunch (on your own)**
- 1:00 p.m. **Open Discussion**
- 2:30 p.m. **Poster Session** (Set up at 2 p.m.) – *Napoleon Foyer*
- 4:00-4:30 p.m. **SAAS General Business Meeting** – *Borgne*
- 5:00 p.m. **SAAS Social Reception and Super Bowl Party**– Grand Ballroom A/B/C (5<sup>th</sup> Floor)

### Monday, Feb. 14

- 8:00-8:45 a.m. **Professional Development Session I, *Maurepas***

**A Statistical Approach to Classification: A guide to hierarchical cluster analysis in agricultural communications research**

Ch'ree Essary, Laura Fischer, and Erica Irlbeck – Texas Tech University

**Avoiding Sampling Limitations in Agricultural Communications Research Without Breaking the Bank**

Quisto Settle – Oklahoma State University

**Paper Session IV, *Maurepas***

**Equine Journalism in a World of Change: Identifying the Technical and Social Skills of American Equine Journalism**

Zoe Bowden, Ricky W. Telg, and Lisa K. Lundy – University of Florida

**Building Buy-In: A Qualitative Study Seeking to Understand Stakeholder Perceptions of University Extension System Through the Lens of External Branding**

Anissa M. Zagonel, Lauri M. Baker, and Ricky W. Telg – Univ of Florida

**A Benchmark Study of Video Technology and Products Employed within Extension Communication Units**

Austin Moore (Abraham Baldwin Agricultural College), Erica Irlbeck, Courtney Meyers, Lindsay Kennedy, Coy Callison, and Ch'ree Essary (Texas Tech University)

## AGRICULTURAL COMMUNICATIONS

**Relational Risk and Resilience: Examining the Influence of Socio-Cultural Demographics on Risk Perceptions and Preparedness Concerns Related to COVID-19**

Sydney Honeycutt, Lauri M. Baker, and Angela B. Lindsey – University of Florida

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

**Paper Session IV, *Maurepas***

**Young Mothers' Trust of Celebrities and Influencers for Food Safety and Nutrition Information**

Linnea Langusch (Oklahoma State University), Taylor Ruth (University of Nebraska – Lincoln), Quisto Settle (Oklahoma State University), and Joy Rumble (The Ohio State University)

**Tempered Trust: Understanding College Students' Trust of COVID-19 Video Content Using Moment-to-Moment Analysis**

Meredith Oglesby, Olivia Doyle, Lauri M. Baker, Valentina Castano, Ashley McLeod-Morin, Alena Poulin, and Lisa Lundy – University of Florida

**Exploring Source Credibility Across Social Media Platforms to Inform Agricultural and Environmental Science Communication**

Allison R. Fortner, Alexa J. Lamm, Jessica Holt, Abigail Borron, and Allen J. Moore – University of Georgia

- 11:15 a.m. **Business Meeting, *Maurepas***

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

**National Agricultural Communications Symposium Poster Session**

**Sunday, Feb. 13  
2:30 – 4:00 pm**

RESEARCH POSTERS

**"It All Goes Back to Trust:" A Qualitative Exploration of Extension Professionals' Perceptions of COVID-19 Vaccines in Rural Florida** – Ashley McLeod-Morin, Lisa Lundy, Angela B. Lindsey, Michaela Kandzer, Ricky Telg, Tracy Irani, Phillip Stokes, Valentina Castano (University of Florida) and Nathalie Santa Maria (Sunnyside Communications)

## AGRICULTURAL COMMUNICATIONS

**Access to Information about Hermetic Storage Technology by Smallholder Farmers in Dormaa, Ghana: The Role of Extension in the Dissemination Process** – Namah Taku Forchu, Shuyang Qu, Misty D. Lambert, Retallick S. Michael (Iowa State University)

**Agricultural Science Podcast Listeners' Perceptions of Science and Trust in Science** – Jacqueline V. Aenlle, Jamie L. Loizzo, Lisa Lundy, James C. Bunch, and Kevin Folta (University of Florida)

**Can You Help?: Determining Motivations and Barriers to Volunteer Behaviors of U.S. Adults during the COVID-19 Pandemic** – Meredith Oglesby (University of Florida), Lauri Baker (University of Florida) Catherine Campbell (University of Florida), Hikaru Peterson (University of Minnesota) Angie Lindsey (University of Florida), and Ricky Telg (University of Florida)

**Communication Preferences Regarding Soil Health Among Kansas Producers** – Megan Underwood, Levy Randolph, and Katie Burke (Kansas State University)

**Comparing Industry and Consumers' Preferred Learning Methods Regarding Conventional, Alternative, and Cultured Meats** – Marlee E. Stollar, Joy N. Rumble, Emily B. Buck, Annie R. Specht, Wuyang Hu, and C. Lynn Knipe (The Ohio State University)

**Examining Emojis: A Content Analysis of Agricultural-related Emoji Definitions** – Lauren LaGrande and Cara Lawson (Oregon State University)

**Exploring Brand Awareness and Loyalty within the GO TEXAN Agricultural Certification Program** – Kayla Powers, Laura Fischer, and Courtney Gibson (Texas Tech University)

**Firing Tweets: An Analysis of Twitter Activity about the 2020 Oregon Wildfires** – Morgan Orem (Texas A&M University) and Cara Lawson (Oregon State University)

**Framing Agricultural Labor Issues: An Analysis of Florida and California H-2A Program News Coverage** – Finn Garrison, Cara Lawson, and Lauren LaGrande (Oregon State University)

## AGRICULTURAL COMMUNICATIONS

**How can I Get my Food?: Survey Research to Understand Consumers Barriers for Acquiring Food in the COVID-19 Pandemic** – Anissa M. Zagonel (University of Florida), Lauri M. Baker (University of Florida), and Hikaru H. Peterson (University of Minnesota)

**Insta-Cowboys: Testing Methods to Explore Western Apparel Instagram Posts** – Austin Moore, Samuel Monarch, Madison Blansett, Makenzie Smith, Ava Jane Teasley (Abraham Baldwin Agricultural College)

**Investigating the Influence of Gender on Secondary Agricultural Science Teacher's Decision-Making and Self-Efficacy: A Pilot Study** – Morgan Orem (Texas A&M University), Jean Parrella (Texas A&M University), Holli Leggette (Texas A&M University), Theresa Murphrey (Texas A&M University), Anna Bates (San Luis Obispo High School)

**Investigating the Relationship Between Agricultural Students' Frequency of Professional Experience Participation and Skill Development** – Jean Parrella (Texas A&M University), Holli Leggette (Texas A&M University), Theresa Murphrey (Texas A&M University), Christi Esquivel (Blinn College), and Peng Lu (Texas A&M University)

**Left to Fend for Ourselves: Reflections of College Students in Hybrid or Online Courses during COVID-19** – Shannon Norris (New Mexico State University), Tiffany Rogers-Randolph (Michigan State University), Rebekah McCarty (New Mexico State University), Katie Messerla (Kansas State University), and Jaclyn Tweeten (Kansas State University)

**Media Frames and Farmers' Support for the U.S. Trade Dispute with China** – Shuyang Qu, Lulu Rodriguez, and Erin Cork - Iowa State University

**Phone Eats First: Pilot of an Online Extension Nutrition Video Production Professional Development Training during COVID-19** – Megan A. Winfree, Jamie Loizzo, [Wendy Dahl](#), and [Lisa Lundy](#) (University of Florida)

**Prioritizing Professional Development: Natural Resources** – Madi Baughman and Katie Burke (Kansas State University)

**Sewing a Strong Brand Community: A Mixed-Methods Content Analysis of Discover Cotton's Instagram Account** – Madalynn Kainer and Holli Leggette (Texas A&M University)

## AGRICULTURAL COMMUNICATIONS

### **Socially Distant: A Study Examining American's Engagement in Social Distancing Behaviors during the Early Stages of the COVID-19 Pandemic**

– Savanna Turner (University of Florida), Shelli D. Rampold (University of Tennessee), and Lauri M. Baker (University of Florida)

### **The Effect of Agricultural Students' Digital Media Use on their Media Writing Self-Perceptions**

– Jean Parrella (Texas A&M University), Holli Leggette (Texas A&M University), Tobin Redwine (Vivayic, Inc), and Morgan Orem (Texas A&M University)

### **The Original Face Time: Characteristics of Face-to-Face Methods in Agricultural Marketing and Communications**

– Hannah Chambers, Jefferson D. Miller, Ashlyn Ussery, K. Jill Rucker, and Casandra K. Cox (University of Arkansas)

### **The Steaks are High: COVID-19's Impact on Direct-to-Consumer Marketing in the Oklahoma Beef Industry**

– Linnea Langusch and Dwayne Cartmell (Oklahoma State University)

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

– Kristin E. Gibson, Catherine E. Sanders, Allison R. Fortner, and Alexa J. Lamm (University of Georgia)

### **Trust in Triage: A quantitative survey investigating rural residents' trust in science**

– Lauri M. Baker (University of Florida), Audrey E. H. King (Oklahoma State University), Cheng-xian Yang (University of Florida), Ashley McLeod-Morin (University of Florida), and Kristina M. Boone (The Ohio State University)

### **What Do They Know? A Quantitative Survey Seeking to Understand Producers' Knowledge of State Regulatory Best Management Practices**

– Valentina Castano, Lauri Baker, Sandra Anderson, Angie Lindsey, and Ricky Telg (University of Florida)

### **What is Hands-On when all Hands are Online? Evaluating Students' Learning Preferences and Satisfaction with Online Instruction**

– Shannon Norris (New Mexico State University), Tiffany Rogers-Randolph (Michigan State University), Rebekah McCarty (New Mexico State University), Katie Messerla (Kansas State University), and Jaclyn Tweeten (Kansas State University)

### **Where on the Web: A Study Examining Social Media Use by Fruit and Vegetable Producers**

– Olivia K. Doyle, Lauri M. Baker, Ricky Telg (University of Florida)

## AGRICULTURAL COMMUNICATIONS

### **Why are They Worried? Utilizing the Cultural Theory of Risk Assessment to Assess Public Perceptions and Knowledge of an Environmental Risk**

– Angela B. Lindsey, Sandra Anderson, Ricky W. Telg, and Christa Court

## INNOVATIVE POSTERS

### **Classification and Clusters: Utilizing Hierarchical Cluster Analysis in Agricultural Communications Research**

– Ch'Ree E.K. Essary, Laura M. Fischer, and Erica Irlbeck (Texas Tech University)

### **Clubhouse: A New Media Technology for Engaging with Practitioners and Stakeholders**

– Jacqueline V. Aenlle (University of Florida)

### **Leadership on the Big Screen: Reinforcing Leadership and Communication Concepts Using Popular Culture Examples**

– Amador Gonzales, Rebekah McCarty, Elizabeth Trevizo, and Shannon Norris (New Mexico State University)

### **Restore the Shore: Development and analysis of a social media campaign to promote a water-focused youth engagement program**

– Megan Winfree, Jamie Loizzo, and Lisa Lundy (University of Florida)

### **Turkey Takeover: A Collaborative Social Media Service-Learning Experience**

– Caitlin Cooper, Jefferson D. Miller, Daniela Medina, K. Jill Rucker, Casandra K. Cox, and Addison Beckham (University of Arkansas)

## National Agricultural Communications Symposium Executive Team

*President* - Shuyang Qu  
Iowa State University

*Vice President* - Ashley McLeod-Morin  
University of Florida

*Secretary* - Taylor Ruth  
University of Nebraska-Lincoln

*Executive Treasurer* - Ricky Telg  
University of Florida

*Past President* - Annie Specht  
The Ohio State University

*Graduate Student Representative*  
Alyssa Rockers  
The Ohio State University

## AGRICULTURAL ECONOMICS

Southern Agricultural Economics Association  
Sheraton New Orleans Hotel  
February 2022  
New Orleans, Louisiana

### Date: Saturday, 12/Feb/2022

**6:00pm - 8:00pm**

Quiz Bowl Orientation  
Location: **Napoleon B1**

### Date: Sunday, 13/Feb/2022

**8:00am - 12:00pm**

Quiz Bowl Break/Recruitment Fair  
Location: **Canal Street Corridor**

**9:00am - 2:00pm**

SAEA Executive Council Meeting  
Location: **Poydras**

**9:00am - 4:00pm**

Quiz Bowl Competition  
Location: **Napoleon D1**

**12:00pm - 4:00pm**

Registration  
Location: **Napoleon Foyer**

**2:00pm - 3:30pm**

Graduate Students Networking Reception  
Location: **Napoleon B1**

**2:00pm - 4:00pm**

Department Heads' Meeting  
Location: **Poydras**

**4:00pm**

SAAS General Business Meeting  
Location: **Borgne**

**5:00pm**

Super Bowl Party  
Location: **Grand Ballroom**

### Date: Monday, 14/Feb/2022

**7:00am - 5:00pm**

Registration - Monday  
Location: **Napoleon Foyer**

**8:00am - 12:00pm**

Quiz Bowl Competition  
Location: **Napoleon D1**

**8:00am - 4:00pm**

Quiz Bowl Break / Recruitment Fair  
Location: **Canal Street Corridor**

## AGRICULTURAL ECONOMICS

**8:30am – 9:30am**

SAEA Past Presidents Forum  
Location: **Napoleon A1**

**8:30am – 10:00am**

JMP 1: Job Market Paper Competition 1  
Location: **Estherwood**

**8:30am – 10:00am**

OS01: The U.S.-China Agricultural Trade  
Relationship: Where Do We Go from Here?  
Location: **Borgne**  
Session Chair: **Mary A. Marchant**, Virginia  
Tech

**8:30am – 10:00am**

SP01: Demand and Price Analysis 1  
Location: **Edgewood A/B**  
Session Chair: **Adam Rabinowitz**, Auburn  
University

**8:30am – 10:00am**

SP02: Farm and Financial Management 1  
Location: **Southdown**  
Session Chair: **Samir Huseynov**, Auburn  
University

**8:30am – 10:00am**

SP03: Specialty Crops and Value-Added  
Products 1  
Location: **Oakley**  
Session Chair: **Jerrod Penn**, LSU AgCenter

**8:30am – 10:00am**

SP04: Natural Resource/Environmental  
Economics 3  
Location: **Napoleon B3**  
Session Chair: **Anastasia Thayer**, Utah  
State University

**10:00am – 10:15am – Break**

**10:15am – 11:45am**

JMP 2: Job Market Paper Competition 2  
Location: **Estherwood**

**10:15am – 11:45am**

OS02: Experience verses Expertise:  
Graduate Student Training in Teaching,  
Extension, & Policy Communication  
Location: **Southdown**  
Session Chair: **Hannah Elizabeth Shear**,  
Oklahoma State University



## AGRICULTURAL ECONOMICS

**10:15am - 11:45am**

OS03: Lessons Learned From Risk Management Extension Programming with Hemp  
Location: **Napoleon B3**  
Session Chair: **Paul Goeringer**, University of Maryland

**10:15am - 11:45am**

SP05: Behavior/Experimental Economics 1  
Location: **Napoleon A1**  
Session Chair: **Michelle Segovia**, University of Missouri

**10:15am - 11:45am**

SP06: Agricultural Policy 1  
Location: **Borgne**  
Session Chair: **Anil Giri**, ERS-USDA

**10:15am - 11:45am**

SP07: Agricultural Production 1  
Location: **Edgewood A/B**  
Session Chair: **Francisco Abello**, Texas A&M AgriLife Extension

**12:00pm - 12:45pm**

54th SAEA Annual Meeting Luncheon  
Location: **Grand Ballroom**

**12:45pm - 1:30pm - Break 2**

**1:30pm - 3:00pm**

3MT: Three Minute Thesis Competition  
Location: **Estherwood**

**1:30pm - 3:00pm**

JMP 3: Job Market Paper Competition 3  
Location: **Oakley**

**1:30pm - 3:00pm**

OS04: Corporate Job Market for Applied Economist: How to Land a Job in the Corporate Sector and be Successful?  
Location: **Oak Alley**  
Session Chair: **Krishna Paudel**, Louisiana State University

**1:30pm - 3:00pm**

OS05: Live Cattle Marketing Discussion: Data, Policy, and Future Research  
Location: **Borgne**  
Session Chair: **Joshua G Maples**, Mississippi State University

**1:30pm - 3:00pm**

SP08: International Trade 1  
Location: **Edgewood A/B**  
Session Chair: **Jada Thompson**, University of Tennessee

## AGRICULTURAL ECONOMICS

**1:30pm - 3:00pm**

SP09: Rural Development/Labor  
Location: **Napoleon A1**  
Session Chair: **Tyler Mark**, University of Kentucky

**1:30pm - 3:00pm**

SP10: Teaching Communication & Extension  
Location: **Southdown**  
Session Chair: **James Barnes**, Mississippi State University Extension Service

**1:30pm - 3:00pm**

SP11: Farm and Financial Management 3  
Location: **Napoleon B3**  
Session Chair: **Karen DeLong**, University of Tennessee

**3:00pm - 3:30pm - Break 3**

**3:30pm - 5:00pm**

OS06: Prospects for Growth of U.S. Agricultural Trade with Cuba  
Location: **Borgne**  
Session Chair: **Luis Ribera**, Texas A&M University

**3:30pm - 5:00pm**

OS07: Regular and Substantive Interaction in Online Agribusiness Programs: Record, Post and Quiz Don't Cut It  
Location: **Napoleon B3**  
Session Chair: **Michelle Santiago**, Murray State University

**3:30pm - 5:00pm**

SP12: Climate Change  
Location: **Oak Alley**  
Session Chair: **Lixia H. Lambert**, Oklahoma State University

**3:30pm - 5:00pm**

SP13: Demand and Price Analysis 2  
Location: **Edgewood A/B**  
Session Chair: **Laxmi Devi Adhikari**, University of Kentucky

**3:30pm - 5:00pm**

SP14: Farm and Financial Management 2  
Location: **Estherwood**

**3:30pm - 5:00pm**

SP15: Natural Resource/Environmental Economics 2  
Location: **Napoleon A1**  
Session Chair: **Seong Yun**, Mississippi State University

## AGRICULTURAL ECONOMICS

### 3:30pm - 5:00pm

SP16: Behavior/Experimental Economics 2  
Location: **Oakley**  
Session Chair: **Hyonyong Kang**, Korea University

### 3:30pm - 5:00pm

SP17: International Development 1  
Location: **Southdown**

### 5:15pm - 7:00pm

SAEA Business Meeting and Awards Program  
Location: **Borgne**

**Date: Tuesday, 15/Feb/2022**

### 8:00am - 5:00pm

Registration - Tuesday  
Location: **Napoleon Foyer**

### 8:30am - 10:00am

SAEA Lifetime Achievement Awards Presentations  
Location: **Bayside 1/2/3**

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

### 10:30am - 12:00pm

ES: Emerging Scholars  
Location: **Napoleon C1**  
Session Chair: **Rodney B. Holcomb**, Oklahoma State University

### 10:30am - 12:00pm

OS08: 2022 Southern Livestock Economic Outlook  
Location: **Napoleon B3**  
Session Chair: **Samuel Zapata**, Texas A&M University

### 10:30am - 12:00pm

SP18: International Trade 2  
Location: **Napoleon A1**  
Session Chair: **Catherine Louise Machado**, Texas A&M University

### 10:30am - 12:00pm

SP19: Agricultural Policy 2  
Location: **Napoleon C2**

### 10:30am - 12:00pm

SP20: Agricultural Production 2  
Location: **Napoleon C3**  
Session Chair: **Michael Popp**, University of Arkansas

### 12:00pm - 1:30pm - Break 5

## AGRICULTURAL ECONOMICS

### 1:30pm - 3:00pm

OS09: 2022 Southern Crops Economic Outlook  
Location: **Napoleon B3**  
Session Chair: **Francisco Abello**, Texas A&M AgriLife Extension

### 1:30pm - 3:00pm

OS10: Advice for Early Career Success from the 2022 SAEA Emerging Scholars  
Location: **Napoleon C1**  
Session Chair: **Jerrod Penn**, LSU AgCenter

### 1:30pm - 3:00pm

SP21: Agribusiness  
Location: **Napoleon C3**  
Session Chair: **Ryan Blake Williams**, Texas Tech University

### 1:30pm - 3:00pm

SP22: Demand and Price Analysis 3  
Location: **Napoleon C2**  
Session Chair: **Laxmi Devi Adhikari**, University of Kentucky

### 1:30pm - 3:00pm

SP23: International Development 2  
Location: **Napoleon A1**  
Session Chair: **Alexis Villacis**, Arizona State University

### 3:00pm - 3:30pm - Break 6

### 3:30pm - 5:00pm

OS11: Successful Extension Risk Management Outreach Programming  
Location: **Napoleon B3**  
Session Chair: **Ronald Lee Rainey**, University of Arkansas

### 3:30pm - 5:00pm - Posters

### 3:30pm - 5:00pm

SP24: Natural Resource/Environmental Economics 1  
Location: **Napoleon C3**

### 3:30pm - 5:00pm

SP25: Risk Management  
Location: **Napoleon C1**

### 3:30pm - 5:00pm

SP26: Specialty Crops and Value-Added Products 2  
Location: **Napoleon A1**

## AGRICULTURAL ECONOMICS

3:30pm - 5:00pm

SP27: Food Insecurity

Location: **Napoleon C2**

Session Chair: **Maria Bampasidou**,

Louisiana State University

### Presentations

#### **JMP 1: Job Market Paper Competition 1**

*Time:* Monday, 14/Feb/2022: 8:30am -

10:00am · *Location:* Estherwood

*Session Chair:* David Anderson, Texas A&M

#### **Combining Cheap Noisy Measurements with Expensive Accurate Measurements to Guide Precision Applications**

**Whoi Cho, Wade Brorsen**

Department of Agricultural Economics at Oklahoma State University, Stillwater, OK 74078, USA;  
[whoi@okstate.edu](mailto:whoi@okstate.edu)

#### **Nearly Optimal Assigned Location Design for Linear Model with Random Spatial Coefficients**

**Davood Poursina, Wade Brorsen**

Oklahoma State University, United States of America; [davood.poursina@okstate.edu](mailto:davood.poursina@okstate.edu)

#### **The Effects of Developed and Developing Countries' Domestic and Trade Policies on Global Agricultural Trade**

**Nathan Fox Holtman, Stephen Devadoss**

Texas Tech University, United States of America;  
[nathan.holtman@ttu.edu](mailto:nathan.holtman@ttu.edu)

#### **Chinese Consumers' Willingness to Pay for a Novel Quality Grading Scheme**

**Shijun Gao**

Arizona State University, United States of America;  
[shijun.gao@asu.edu](mailto:shijun.gao@asu.edu)

#### **OS01: The U.S.-China Agricultural Trade Relationship: Where Do We Go from Here?**

*Time:* Monday, 14/Feb/2022: 8:30am -

10:00am · *Location:* Borgne

*Session Chair:* Mary A. Marchant, Virginia Tech

#### **The U.S.-China Agricultural Trade Relationship: Where Do We Go from Here?**

**Mary A. Marchant<sup>1</sup>, Jason Grant<sup>1</sup>, Charlotte Emlinger<sup>1</sup>, Andrew Muhammad<sup>2</sup>, S. Aaron Smith<sup>2</sup>, Shawn Arita<sup>3</sup>, Sharon Sydow<sup>3</sup>**

<sup>1</sup>Virginia Tech, United States of America; <sup>2</sup>University of Tennessee Institute of Agriculture; <sup>3</sup>Office of the Chief Economist, USDA; [mmarchan@vt.edu](mailto:mmarchan@vt.edu)

## AGRICULTURAL ECONOMICS

### SP01: Demand and Price Analysis 1

*Time:* Monday, 14/Feb/2022: 8:30am -

10:00am · *Location:* Edgewood A/B

*Session Chair:* Adam Rabinowitz, Auburn University

#### **A meta-analysis of U.S. food demand elasticities to detect the impacts of scanner data**

**Younghyeon Jeon<sup>1</sup>, Hoa Hoang<sup>1</sup>, Wyatt Thompson<sup>1</sup>, David Abler<sup>2</sup>**

<sup>1</sup>University of Missouri, United States of America;

<sup>2</sup>Pennsylvania State University, United States of America; [yjeon@mail.missouri.edu](mailto:yjeon@mail.missouri.edu)

#### **A hedonic analysis of retired racehorses starting second careers**

**Madalynn N. Camp<sup>1</sup>, Michelle L. Kibler<sup>1</sup>, Jada M. Thompson<sup>2</sup>, Heather L Winter<sup>2</sup>, Jennie L. Z. Ivey<sup>2</sup>**

<sup>1</sup>Illinois State University; <sup>2</sup>University of Tennessee;

[mncamp@ilstu.edu](mailto:mncamp@ilstu.edu)

#### **COVID-19 and Beef Demand in Mexico**

**Tullaya Boonsaeng<sup>1</sup>, Carlos Carpio<sup>1</sup>, Manuel Garcia<sup>1</sup>, Rafael Casillas<sup>2</sup>**

<sup>1</sup>Texas Tech University, United States of America;

<sup>2</sup>Autonomous University of Aguascalientes, Mexico;  
[manuel.garcia@ttu.edu](mailto:manuel.garcia@ttu.edu)

#### **A Comparison of Bayesian and Frequentist Approaches to Fully Endogenized Finite Mixture Modelling**

**Syed Fuad, Michael Farmer**

Department of Agricultural and Applied Economics, Texas Tech University, USA; [syed.m.fuad@ttu.edu](mailto:syed.m.fuad@ttu.edu)

#### **Consumer demand for certified organic products: the case of Thanksgiving basket**

**Oscar Sarasty, Modhurima Amin**

Texas Tech University, Department of Agricultural and Applied Economics, Lubbock TX;  
[oscar.s.sarasty@ttu.edu](mailto:oscar.s.sarasty@ttu.edu)

#### **Exploring How Different Ways of Shopping Affect the Expenditure Spent in Health/Natural Supermarkets in Different Communities During COVID**

**Azita Varziri, Tim Woods**

University of Kentucky, United States of America;  
[Azita.Varziri@uky.edu](mailto:Azita.Varziri@uky.edu)

## AGRICULTURAL ECONOMICS

### Social Acceptance of CBD Usage

Caitlyn Oldenburg<sup>1</sup>, Adam Rabinowitz<sup>1</sup>, Benjamin Campbell<sup>2</sup>, Brandon McFadden<sup>3</sup>, Tyler Mark<sup>4</sup>

<sup>1</sup>Auburn University; <sup>2</sup>University of Georgia;

<sup>3</sup>University of Delaware; <sup>4</sup>University of Kentucky;  
[cdo0011@auburn.edu](mailto:cdo0011@auburn.edu)

### SP02: Farm and Financial Management 1

*Time:* Monday, 14/Feb/2022: 8:30am - 10:00am · *Location:* Southdown

*Session Chair:* Samir Huseynov, Auburn University

### A Hedonic Model of Corn Seed Prices: Focusing on 2016 Corn Production

Richard Nehring<sup>1</sup>, Dan Bonin<sup>1</sup>, Samuel Bailey<sup>1</sup>, Laura Dodson<sup>1</sup>, Helen Wakefield<sup>2</sup>

<sup>1</sup>Economic Research Service, United States of America; <sup>2</sup>Texas A&M, College Station, Texas;

[Richard.nehring@usda.gov](mailto:Richard.nehring@usda.gov)

### Estimating the Impact of Rice Planting Date and Cultivar Type on Net Economic Returns in Arkansas: Evidence from Field Experimental Data

Tej K Gautam<sup>1</sup>, K. Bradley Watkins<sup>2</sup>, Jarrod T. Hardke<sup>2</sup>

<sup>1</sup>Tuskegee University, United States of America;

<sup>2</sup>University of Arkansas, United States of America;  
[tgautam@tuskegee.edu](mailto:tgautam@tuskegee.edu)

### Utilizing Auction Sale Data to Estimate the Value of Used Combine Harvesters in the US and Canada

Robert Christian Ellis, Tyler Mark

University of Kentucky, United States of America;  
[Robert.Ellis@uky.edu](mailto:Robert.Ellis@uky.edu)

### Farmers and Bakers: The role of Optimism Bias in Price Expectations

Elmin Alizada, Samir Huseynov, Mykel Taylor

Auburn University, United States of America;  
[eza0045@auburn.edu](mailto:eza0045@auburn.edu)

### An Evaluation of Credit Access and Agricultural Productivity: Evidence from Black Belt Region of Alabama

Tej K Gautam, Robert Zabawa

Tuskegee University, United States of America;  
[rzabawa@tuskegee.edu](mailto:rzabawa@tuskegee.edu)

## AGRICULTURAL ECONOMICS

### Researching Cattle Auction Bids with Climate Data: A Study from Cattle Production Areas in the U.S mid-south region

Montana Wright, Rachna Tewari, Joey Mehlhorn  
The University of Tennessee at Martin, United States of America; [moncwrig@ut.tnm.edu](mailto:moncwrig@ut.tnm.edu)

### Concentration and social welfare changes in the U.S. beef packing industry under COVID-19

Yejun Choi, Dayton M. Lambert

Oklahoma State University, United States of America; [yejun.choi@okstate.edu](mailto:yejun.choi@okstate.edu)

### SP03: Specialty Crops and Value-Added Products 1

*Time:* Monday, 14/Feb/2022: 8:30am - 10:00am · *Location:* Oakley

*Session Chair:* Jerrod Penn, LSU AgCenter

### Demographic and Socioeconomic Attributes of Hard Apple Cider Consumers

Kimberly Jensen, Karen DeLong, Hughes David, Trejo-Pech Carlos

University of Tennessee, United States of America;  
[kjensen@utk.edu](mailto:kjensen@utk.edu)

### Consumer Preferences for Attributes of Farmstead Milk

Kimberly Jensen<sup>1</sup>, Dayton Lambert<sup>2</sup>, Alicia Rihn<sup>1</sup>, Elizabeth Eckelkamp<sup>1</sup>, Caitlin Zaring<sup>1</sup>, Billie Ray<sup>1</sup>

<sup>1</sup>University of Tennessee, United States of America;

<sup>2</sup>Oklahoma State University, United States of America; [kjensen@utk.edu](mailto:kjensen@utk.edu)

### Grass-fed beef strategic alliances: what motivates producer participation?

Maria Josee Reyes, Jerrod Penn, Maria Bampasidou, Guillermo Scaglia

Louisiana State University AgCenter, United States of America; [MReyes@agcenter.lsu.edu](mailto:MReyes@agcenter.lsu.edu)

### Factors influencing farm's decision on the adoption of agritourism: findings from Tennessee

Reginald Holland<sup>1</sup>, Aditya Raj Khanal<sup>2</sup>

<sup>1</sup>Graduate student, College of Agriculture, Tennessee State University; <sup>2</sup>Associate Professor, College of Agriculture, Tennessee State University;  
[rhollan4@tnstate.edu](mailto:rhollan4@tnstate.edu)

## AGRICULTURAL ECONOMICS

### **Demand System Analysis of Beer in the U.S. Market**

**Laxmi Adhikari, Yuqing Zheng**

University of Kentucky, United States of America;  
[laxmi.adhikari@uky.edu](mailto:laxmi.adhikari@uky.edu)

### **Evaluating the Role and Channels of Consumer Learning in the Expansion of New Products: The Case of Plant Based Milk**

**Yizao Liu<sup>1</sup>, Lu Huang<sup>2</sup>, Pei Zhou<sup>1</sup>**

<sup>1</sup>Pennsylvania State University; <sup>2</sup>Kean University;  
[yul459@psu.edu](mailto:yul459@psu.edu)

### **Marketing Local Meats in South Carolina post COVID-19**

**Steven Richards<sup>1</sup>, Michael Vassalos<sup>2</sup>**

<sup>1</sup>Clemson University, United States of America;  
<sup>2</sup>Clemson University, United States of America;  
[stricha@clemson.edu](mailto:stricha@clemson.edu)

### **SP04: Natural Resource/Environmental Economics 3**

*Time:* Monday, 14/Feb/2022: 8:30am - 10:00am · *Location:* Napoleon B3

*Session Chair:* Anastasia Thayer, Utah State University

### **Praying for rain: considering the impacts of multi-year droughts**

**Anastasia Thayer<sup>1</sup>, Justin Benavidez<sup>2</sup>**

<sup>1</sup>Utah State University, Logan, Utah, USA; <sup>2</sup>Texas A&M University, College Station, Texas, USA;  
[anastasia.thayer@usu.edu](mailto:anastasia.thayer@usu.edu)

### **Measuring the economic abatement cost of sea turtle by-catch in the Northwest Atlantic Commercial Pelagic Longline Fishery**

**Daniel Solis<sup>1</sup>, Kathryn Bisack<sup>2</sup>, John Walden<sup>2</sup>, Paul Richards<sup>3</sup>, Juan Agar<sup>3</sup>**

<sup>1</sup>Agribusiness Program, Florida A&M University;  
<sup>2</sup>Northeast Fisheries Science Center, National Oceanic and Atmospheric Administration; <sup>3</sup>Southeast Fisheries Science Center, National Oceanic and Atmospheric Administration; [daniel.solis@famu.edu](mailto:daniel.solis@famu.edu)

### **Identifying the downside of not accounting for the diminishing marginal return in the modern portfolio theory for conservation investments**

**Nawon Kang<sup>1</sup>, Paul Armsworth<sup>2</sup>, Charles Sims<sup>3</sup>, Gengping Zhu<sup>4</sup>, Seong-Hoon Cho<sup>1</sup>**

<sup>1</sup>Department of Agricultural and Resource Economics, University of Tennessee, United States

## AGRICULTURAL ECONOMICS

of America; <sup>2</sup>Department of Ecology and Evolutionary Biology, University of Tennessee, United States of America; <sup>3</sup>Department of Economics, University of Tennessee, United States of America; <sup>4</sup>Department of Entomology, Washington State University, United States; [nkang3@vols.utk.edu](mailto:nkang3@vols.utk.edu)

### **Water Quality and Farm Profitability Outcomes for Alternative Policy Designs: Crop Mix and Nutrient Management Choices**

**Fei He<sup>1</sup>, Dogil Lee<sup>2</sup>, Tatiana Borisova<sup>1</sup>, Wendy Graham<sup>2,4</sup>, Kevin Athearn<sup>3</sup>, Robert Hochmuth<sup>3</sup>, Charles Barrett<sup>3</sup>, Michael Dukes<sup>2,5</sup>, Jason Merrick<sup>2</sup>**

<sup>1</sup>Food and Resource Economics Department, University of Florida; <sup>2</sup>Department of Agricultural and Biological Engineering, University of Florida; <sup>3</sup>North Florida Research & Education Center - Suwannee Valley, University of Florida; <sup>4</sup>Water Institute, University of Florida; <sup>5</sup>Center for Land Use Efficiency, University of Florida; [he.fe@ufl.edu](mailto:he.fe@ufl.edu)

### **Improved modeling using an integrated approach for water policy evaluation in Texas**

**Randall Strickmeyer<sup>1</sup>, Bridget Guerrero<sup>1</sup>, Bill Golden<sup>2</sup>, Ali Ghaseminejad<sup>3</sup>, Venki Uddameri<sup>3</sup>**

<sup>1</sup>West Texas A&M University; <sup>2</sup>Kansas State University; <sup>3</sup>Texas Tech University;  
[rjstrickmeyer@buffs.wtamu.edu](mailto:rjstrickmeyer@buffs.wtamu.edu)

### **How much do we value the river? Estimating South Carolina residents' willingness-to-pay for the improvement of streams and rivers' water quality.**

**J. Carl Ureta<sup>1</sup>, Marzieh Motallebi<sup>2</sup>**

<sup>1</sup>Department of Forestry and Environmental Conservation, College of Agriculture and Life Sciences, Clemson University, South Carolina; <sup>2</sup>Baruch Institute of Coastal Ecology and Forest Science, Clemson University, Georgetown, South Carolina; [jureta@clemson.edu](mailto:jureta@clemson.edu)

### **Adoption of Multiple Conservation Agriculture Practices in South Dakota**

**Stephen Cheye, Tong Wang**

South Dakota State University, United States of America; [Stephen.Chey@sdstate.edu](mailto:Stephen.Chey@sdstate.edu)

### **JMP 2: Job Market Paper Competition 2**

*Time:* Monday, 14/Feb/2022: 10:15am - 11:45am · *Location:* Estherwood

*Session Chair:* David Anderson, Texas A&M

## AGRICULTURAL ECONOMICS

**The nexus between political pluralism, agricultural structural transformation, and Food Security in Sub-Saharan Africa**

**Vitalis Omondi Othuon**

Texas Tech University, United States of America;  
[vitaliso.othuon@ttu.edu](mailto:vitaliso.othuon@ttu.edu)

**Agricultural commercialization and nutrition; evidence from smallholder coffee farmers**

**Joanna van Asselt, Pilar Useche**

University of Florida, United States of America;  
[joannavanasselt@ufl.edu](mailto:joannavanasselt@ufl.edu)

**Contract Non-compliance and Moral Hazard in US Working Lands Programs**

**Santosh Pathak**

Louisiana State University, United States of America;  
[spath11@lsu.edu](mailto:spath11@lsu.edu)

**How farmers adapt to the impact of extreme heat? Evidence from Nigeria**

**Joaquin Mayorga, Ashok K. Mishra, Alexis Villacis**

Morrison School of Agribusiness at WP Carey School of Business, Arizona State University, United States of America; [jmayorg1@asu.edu](mailto:jmayorg1@asu.edu)

**OS02: Experience versus Expertise: Graduate Student Training in Teaching, Extension, & Policy Communication**

*Time: Monday, 14/Feb/2022: 10:15am - 11:45am · Location: Southdown*

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

**Experience versus Expertise: Graduate Student Training in Teaching, Extension, & Policy Communication**

**Hannah Elizabeth Shear<sup>1</sup>, Chelsea Jewel Arnold<sup>2</sup>, Mykel R. Taylor<sup>3</sup>, Amy Hagerman<sup>1</sup>, Mallory Vestal<sup>4</sup>**

<sup>1</sup>Oklahoma State University; <sup>2</sup>Kansas State University; <sup>3</sup>Auburn University; <sup>4</sup>West Texas A & M University; [hshear@okstate.edu](mailto:hshear@okstate.edu)

## AGRICULTURAL ECONOMICS

**OS03: Lessons Learned From Risk Management Extension Programming with Hemp**

*Time: Monday, 14/Feb/2022: 10:15am - 11:45am · Location: Napoleon B3*

*Session Chair: Paul Goeringer, University of Maryland*

**Lessons Learned From Risk Management Extension Programming with Hemp**

**Charley Martinez<sup>1</sup>, Paul Goeringer<sup>2</sup>, Tyler Mark<sup>3</sup>, Aaron Smith<sup>1</sup>, Dawn Thilmany<sup>4</sup>, Elizabeth Thilmany<sup>2</sup>, Jennifer Zwagerman<sup>5</sup>**

<sup>1</sup>University of Tennessee; <sup>2</sup>University of Maryland, United States of America; <sup>3</sup>University of Kentucky; <sup>4</sup>Colorado State University; <sup>5</sup>Drake University; [Cmart113@utk.edu](mailto:Cmart113@utk.edu)

**SP05: Behavior/Experimental Economics 1**

*Time: Monday, 14/Feb/2022: 10:15am - 11:45am · Location: Napoleon A1*

*Session Chair: Michelle Segovia, University of Missouri*

**Economic implications for disjunctive marking in country-of-origin labels**

**Kristiina Ala-Kokko, Lawton Lanier Nalley, Alvaro Durand-Morat, Wei Yang**

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

**Effect of Mood on Food Calorie Content Perception among Restrained and Unrestrained Eaters**

**Ogoudele Simon Codjo<sup>1</sup>, Bachir Kassas<sup>1</sup>, Hayk Khachatryan<sup>1</sup>, Rodolfo M. Nayga Jr.<sup>2</sup>**

<sup>1</sup>University of Florida, United States of America; <sup>2</sup>Texas A&M University, United States of America; [ocodjo@ufl.edu](mailto:ocodjo@ufl.edu)

**Does a beginning farmer's gender and race influence consumer decisions?**

**Michelle Segovia<sup>1</sup>, Shuoli Zhao<sup>2</sup>, Marco Palma<sup>3</sup>, Rodolfo Nayga<sup>3</sup>, Ron Rainey<sup>4</sup>**

<sup>1</sup>University of Missouri, United States of America; <sup>2</sup>University of Kentucky, United States of America; <sup>3</sup>Texas A&M University, United States of America; <sup>4</sup>University of Arkansas, United States of America; [segoviam@missouri.edu](mailto:segoviam@missouri.edu)

## AGRICULTURAL ECONOMICS

### Appealing to Generosity to Reduce Food Calorie Intake: A Natural Field Experiment

Jennifer Kee<sup>2</sup>, Michelle Segovia<sup>1</sup>, Piruz Saboury<sup>3</sup>,  
Marco Palma<sup>2</sup>

<sup>1</sup>University of Missouri, United States of America;

<sup>2</sup>Texas A&M University; <sup>3</sup>University of Houston;  
[segoviam@missouri.edu](mailto:segoviam@missouri.edu)

### Effect of Trust and Knowledge on the Preferences for Sustainable Coffee

Katherine Fuller, Carola Grebitus

Arizona State University, United States of America;  
[kramir28@asu.edu](mailto:kramir28@asu.edu)

### Consumer preference regarding new corn varieties: A willingness to pay study

Trevor Dane Johnson<sup>1</sup>, Donna McCallister<sup>1,2</sup>,  
Wenwei Xu<sup>1,2</sup>

<sup>1</sup>Texas Tech University, Lubbock, Texas; <sup>2</sup>Texas  
A&M AgriLife Research, Lubbock, Texas;

[trevor.d.johnson@ttu.edu](mailto:trevor.d.johnson@ttu.edu)

### Evaluating Consumers' Willingness to Support for Beginning Farmers

Shuoli Zhao<sup>1</sup>, Michelle Segovia<sup>2</sup>, Marco Palma<sup>3</sup>,  
Rodolfo Nayga<sup>3</sup>, Ron Rainey<sup>4</sup>

<sup>1</sup>University of Kentucky, United States of America;

<sup>2</sup>University of Missouri - Columbia, United States of  
America; <sup>3</sup>Texas A&M University, United States of  
America; <sup>4</sup>University of Arkansas, United States of

America; [szhao@uky.edu](mailto:szhao@uky.edu)

### SP06: Agricultural Policy 1

*Time:* Monday, 14/Feb/2022: 10:15am -

11:45am · *Location:* Borgne

*Session Chair:* Anil Giri, ERS-USDA

### Does United State Sugar Policy Affect Sugar-Containing-Product Prices?

Karen DeLong, Carlos Trejo-Pech

University of Tennessee, United States of America;  
[kdelong39@utk.edu](mailto:kdelong39@utk.edu)

### Damage Assessment of Extreme Weather Events using Loss Assessment Reports and Crop Insurance Claims

James D Nichols, Adam Rabinowitz

Auburn University, United States of America;  
[jdn0017@auburn.edu](mailto:jdn0017@auburn.edu)

## AGRICULTURAL ECONOMICS

### Impact of CFAP and PPP on U.S. producers

Anil Giri<sup>1</sup>, Dipak Subedi<sup>2</sup>

<sup>1</sup>ERS-USDA, United States of America; <sup>2</sup>ERS-USDA,  
United States of America; [anil.giri@usda.gov](mailto:anil.giri@usda.gov)

### Analysis of the Florida Citrus Fruit Crop Actual Production History Crop Insurance Policy

Faith Aiya, Ariel Singerman

University of Florida, United States of America;  
[faith.aiya@ufl.edu](mailto:faith.aiya@ufl.edu)

### Resisting Resistance: The Veterinary Feed Directive and the Impact on Antimicrobial Resistance

Clinton L. Neill<sup>1</sup>, Shamar Stewart<sup>2</sup>

<sup>1</sup>Cornell University, United States of America;

<sup>2</sup>Virginia Tech, United States of America;  
[cln64@cornell.edu](mailto:cln64@cornell.edu)

### Ad hoc programs: are they new normal?

Dipak Subedi, Anil Giri

Economic Research Service, USDA;  
[dipak.subedi@usda.gov](mailto:dipak.subedi@usda.gov)

### SP07: Agricultural Production 1

*Time:* Monday, 14/Feb/2022: 10:15am -

11:45am · *Location:* Edgewood A/B

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

### Forecasting Farm Level Beef-Cattle Prices in the Southern United States: A Model Selection Framework

Erdal Erol<sup>1</sup>, Kenneth H. Burdine<sup>2</sup>, Nicholas Pates<sup>3</sup>

<sup>1</sup>Department of Agricultural Economics, University of  
Kentucky; <sup>2</sup>Department of Agricultural Economics,  
University of Kentucky; <sup>3</sup>Department of Agricultural  
Economics, University of Kentucky; [eer224@uky.edu](mailto:eer224@uky.edu)

### Economic Analysis on Organic Transition of a Dual-purpose Wheat System in the Southern Great Plains

Francisco Abello<sup>1</sup>, Yubing Fan<sup>2</sup>, Curtis Adams<sup>3</sup>,  
William Pinchak<sup>2</sup>, Philip Hinson<sup>4</sup>

<sup>1</sup>Texas A&M AgriLife Extension, United States of  
America; <sup>2</sup>Texas A&M AgriLife Research, United  
States of America; <sup>3</sup>Texas A&M AgriLife Research,  
United States of America / USDA-Agricultural  
Research Service; <sup>4</sup>Texas A&M University;  
[fjabello@tamu.edu](mailto:fjabello@tamu.edu)

## AGRICULTURAL ECONOMICS

**Comparisons of the Time Required to Plant Mid-South Soybean Crops Using a Conceptual Approach Applied in Previous Mid-West Corn Crop Planting Studies**

**Charles Robert Stark**

University of Arkansas at Monticello, United States of America; [stark@uamont.edu](mailto:stark@uamont.edu)

**Florida Farmers' Multi-BMPs Adoption: A Survey Analysis**

**Sawssan Boufous, Tara Wade**

University of Florida, United States of America; [boufous.sawssan@ufl.edu](mailto:boufous.sawssan@ufl.edu)

**Nearly Optimal Assigned Location Design for Linear Model with Random Spatial Coefficients**

**Davood Poursina, Wade Brorsen**

Oklahoma State University, United States of America; [davood.poursina@okstate.edu](mailto:davood.poursina@okstate.edu)

**Corn Ethanol Price Pass-Through Behavior in a Southeastern Fuel Market**

**Scott D. Parrott, Joseph E. Mehlhorn, Tommy Cates**

Univ of Tennessee at Martin, United States of America; [sparrott@utm.edu](mailto:sparrott@utm.edu)

**How innovation changes industry dynamics: Model and application to the blueberry industry**

**Kuan-Ming Huang, Zhengfei Guan**

Gulf Coast Research and Education Center, University of Florida, United States of America; [khuang2@ufl.edu](mailto:khuang2@ufl.edu)

**3MT: Three Minute Thesis Competition**

*Time:* Monday, 14/Feb/2022: 1:30pm - 3:00pm · *Location:* Estherwood

*Session Chair:* Jim Larson, University of Tennessee

**Analysis of the Florida Citrus Fruit Crop Actual Production History Crop Insurance Policy**

**Faith Aiya, Ariel Singerman**

University of Florida; [faith.aiya@ufl.edu](mailto:faith.aiya@ufl.edu)

**Are Drought and Excess Moisture Crop Insurance Indemnities to Tennessee Corn Producers Increasing or Decreasing Over Time?**

**Jordan Peterson**

University of Tennessee Knoxville, United States of America; [jpeter61@vols.utk.edu](mailto:jpeter61@vols.utk.edu)

## AGRICULTURAL ECONOMICS

**Consumption of Fruits and Vegetables in the Mississippi Delta and the Role of the Food Environment**

**Shannon Shavonie Giscombe, Elizabeth Canales, Davis William, Ayoung Kim, David Buys**

Mississippi State University, United States of America; [ssg204@msstate.edu](mailto:ssg204@msstate.edu)

**Demand System Analysis of Beer in the U.S. Market**

**Laxmi Devi Adhikari, Yuqing Zheng**

University of Kentucky, United States of America; [laxmi.adhikari@uky.edu](mailto:laxmi.adhikari@uky.edu)

**Footprint of Farm to School Programs in Louisiana**

**Whitney R McKinzie**

Louisiana State University, United States of America; [wmckin3@lsu.edu](mailto:wmckin3@lsu.edu)

**Resilience of Grain Storage Markets to Upheaval in Futures Markets**

**Emma Renee Hayhurst, Wade Brorsen**

Oklahoma State University, United States of America; [emma.hayhurst@okstate.edu](mailto:emma.hayhurst@okstate.edu)

**Profitability of No-Till and Cover Crops When Grazing Wheat Pasture**

**Jacob R. Sestak<sup>1</sup>, B. Wade Brorsen<sup>1</sup>, Jon T. Biermacher<sup>2</sup>, James K. Rogers<sup>2</sup>**

<sup>1</sup>Oklahoma State University, United States of America; <sup>2</sup>Noble Research Institute, United States of America; [jacob.sestak@okstate.edu](mailto:jacob.sestak@okstate.edu)

**JMP 3: Job Market Paper Competition 3**

*Time:* Monday, 14/Feb/2022: 1:30pm - 3:00pm · *Location:* Oakley

*Session Chair:* David Anderson, Texas A&M

**The Effects of Values and Information on the Willingness to Pay for Sustainability Credence Attributes for Coffee**

**Katherine Fuller**

Arizona State University, United States of America; [kramir28@asu.edu](mailto:kramir28@asu.edu)



## AGRICULTURAL ECONOMICS

### Learning by Exporting and from Exporters in Chilean Manufacturing

**Jingfang Zhang<sup>1</sup>, Emir Malikov<sup>2</sup>**

<sup>1</sup>Auburn University, United States of America;

<sup>2</sup>University of Nevada, Las Vegas;  
[jzz0080@auburn.edu](mailto:jzz0080@auburn.edu)

### Do Regional Differences Matter in the Effectiveness of Broadband Policy

**Hyun Ji Lee**

Texas Tech University, United States of America;  
[hyun-ji.lee@ttu.edu](mailto:hyun-ji.lee@ttu.edu)

### OS04: Corporate Job Market for Applied Economist: How to Land a Job in the Corporate Sector and be Successful?

*Time:* Monday, 14/Feb/2022: 1:30pm - 3:00pm · *Location:* Oak Alley

*Session Chair:* Krishna Paudel, Louisiana State University

### Corporate Job Market for Applied Economist: How to Land a Job in the Corporate Sector and be Successful?

**Krishna Paudel<sup>1</sup>, Basanta Dhungana<sup>2</sup>, Irfan Tareen<sup>3</sup>, Danyi Qi<sup>4</sup>, Laxmi Paudel<sup>5</sup>**

<sup>1</sup>USDA ERS; <sup>2</sup>Agilant Technology; <sup>3</sup>Equifax; <sup>4</sup>Amazon; <sup>5</sup>Fannie Mae; [KPaudel@agcenter.lsu.edu](mailto:KPaudel@agcenter.lsu.edu)

### OS05: Live Cattle Marketing Discussion: Data, Policy, and Future Research

*Time:* Monday, 14/Feb/2022: 1:30pm - 3:00pm · *Location:* Borgne

*Session Chair:* Joshua G Maples, Mississippi State University

### Live Cattle Marketing Discussion: Data, Policy, and Future Research

**Joshua G Maples<sup>1</sup>, Charles Martinez<sup>2</sup>, Christopher Boyer<sup>2</sup>, Justin Benavidez<sup>3</sup>, Kenneth Burdine<sup>4</sup>, James L. Mitchell<sup>5</sup>, Glynn T. Tonsor<sup>6</sup>, Lee L. Schulz<sup>7</sup>, Ted C. Schroeder<sup>6</sup>**

<sup>1</sup>Mississippi State University; <sup>2</sup>University of Tennessee; <sup>3</sup>Texas A&M University; <sup>4</sup>University of Kentucky; <sup>5</sup>University of Arkansas; <sup>6</sup>Kansas State University; <sup>7</sup>Iowa State University;  
[josh.maples@msstate.edu](mailto:josh.maples@msstate.edu)

## AGRICULTURAL ECONOMICS

### SP08: International Trade 1

*Time:* Monday, 14/Feb/2022: 1:30pm -

3:00pm · *Location:* Edgewood A/B

*Session Chair:* Jada Thompson, University of Tennessee

### Examining the Spillover Effects of Innovation on Agricultural Trade

**Hyunju Jeong, Dong Hee Suh**

Korea University, Korea, Republic of (South Korea);  
[operaskdy@korea.ac.kr](mailto:operaskdy@korea.ac.kr)

### U.S. County Level Impact of China's Demand for Agricultural Exports

**Yichuan Cheng, Michael Adjemian**

University of Georgia, United States of America;  
[yc71790@uga.edu](mailto:yc71790@uga.edu)

### US-Mexico competition in the Strawberry market: Free trade or fair trade?

**A. Malek Hammami, Zhengfei Guan**

University of Florida/IFAS Gulf Coast Research and Education Center, United States of America;  
[ahammami@ufl.edu](mailto:ahammami@ufl.edu)

### Sick Meat: The Global Trade Costs of a Human Pandemic

**Mary Lynn Marks, Jada Thompson, Sreedhar Upendram, Edward yu**

University of Tennessee, United States of America;  
[jthom207@UTK.edu](mailto:jthom207@UTK.edu)

### "Information Uncertainty in a Media Driven World: The Influence of Information in US Swine Markets"

**Tori Marshall<sup>1</sup>, Amy Hagerman<sup>2</sup>, Dayton Lambert<sup>2</sup>, Ruth Inman<sup>2</sup>**

<sup>1</sup>University of Tennessee; <sup>2</sup>Oklahoma State University; [tmarsh21@utk.edu](mailto:tmarsh21@utk.edu)

### SP09: Rural Development/Labor

*Time:* Monday, 14/Feb/2022: 1:30pm - 3:00pm · *Location:* Napoleon A1

*Session Chair:* Tyler Mark, University of Kentucky

### Determinants of Financial Literacy: Does Urban-Rural Residency Matter?

**Mckenzie Carvalho<sup>1</sup>, Ayoung Kim<sup>1</sup>, Rebecca Smith<sup>1</sup>, John Green<sup>1,2</sup>**

<sup>1</sup>Mississippi State University; <sup>2</sup>Southern Rural Development Center; [mlc960@msstate.edu](mailto:mlc960@msstate.edu)

## AGRICULTURAL ECONOMICS

**Comparison of Affordability Indices for Water Infrastructure Upgrades in Tennessee**

**Mary Lynn Marks, Sreedhar Upendram, Jada Thompson, Edward Yu**

University of Tennessee at Knoxville, United States of America; [mmarks7@vols.utk.edu](mailto:mmarks7@vols.utk.edu)

**What Makes Hemp Economically Attractive: A Case of Kentucky Hemp Farmers**

**Buddhika Patalee Mallika Appuhamilage, Hoyeon Jeong, Tyler Mark**

University of Kentucky, United States of America; [pataleema@uky.edu](mailto:pataleema@uky.edu)

**Did the Opioid Epidemic Change Farm Production Decisions: Application of the Differential Multiproduct System**

**Ting Cao, Charles B. Moss**

University of Florida, United States of America; [ting.cao@ufl.edu](mailto:ting.cao@ufl.edu)

**Modeling the impact of COVID-19 on local economies using data derived from Airbnb**

**Abdelaziz Lawani**

Tennessee State University; [abdelawani@gmail.com](mailto:abdelawani@gmail.com)

**How Bureaucracy Harms Farmers: A Lesson from the H-2A Program**

**Kuan-Ming Huang, Zhengfei Guan**

University of Florida, United States of America; [quanz@ufl.edu](mailto:quanz@ufl.edu)

**SP10: Teaching Communication & Extension**

*Time: Monday, 14/Feb/2022: 1:30pm - 3:00pm · Location: Southdown*

*Session Chair: James Barnes, Mississippi State University Extension Service*

**Extension Agents and Agricultural Lenders Impressions of Farmer Well-Being**

**Mykel R. Taylor, Adam Rabinowitz, Caroline Hudon, Samir Huseynov, April Smith**

Auburn University, United States of America; [mrt0055@auburn.edu](mailto:mrt0055@auburn.edu)

**Do Intentional Team Formation and Teaching Delivery Method Matter in Team-Based Learning Outcomes?**

**Misti Dawn Sharp, Edgar Marcillo Yopez**

University of Florida, United States of America; [mistisharp@ufl.edu](mailto:mistisharp@ufl.edu)

## AGRICULTURAL ECONOMICS

**Analyzing Exam Formatting and Its Impact on Student Performance in Agricultural/Applied Economics Courses**

**Juan David Pachon, Bachir Kassar. PhD, John Lai. PhD**

University of Florida, United States of America; [juanpachon1@ufl.edu](mailto:juanpachon1@ufl.edu)

**Factors Affecting Students' Teaching Evaluations: A Survey Experiment**

**Bradi Noelle Harral, Carlos Carpio, Manuel Garcia, Amy Boren-Alpizar, Marty Middleton**

Texas Tech University, United States of America; [bradi.harral@ttu.edu](mailto:bradi.harral@ttu.edu)

**How to Launch a Podcast to Grow An Extension Program**

**James Barnes**

Department of Agricultural Economics, Mississippi State University; [james.barnes@msstate.edu](mailto:james.barnes@msstate.edu)

**SP11: Farm and Financial Management 3**

*Time: Monday, 14/Feb/2022: 1:30pm - 3:00pm · Location: Napoleon B3*

*Session Chair: Karen DeLong, University of Tennessee*

**The Impact on Banks' Risk-Taking Behaviors of FOMC Monetary Policy under COVID-19 Pandemic**

**Maoyong Zheng, Cesar L. Escalante**

UNIVERSITY OF GEORGIA, United States of America; [mz06144@uga.edu](mailto:mz06144@uga.edu)

**Hidden Insights Discovered Spatial Diagnostic Testing of Farmland Values and Rental Rates in the Corn Belt Region**

**Allan Pinto, Terry Griffin**

Kansas State University, United States of America; [apinto@ksu.edu](mailto:apinto@ksu.edu)

**Producer Preferences Towards Adopting Feeder Cattle Genomic Tests**

**Karen DeLong, Kim Jensen, Chris Boyer, Andrew Griffith, Charley Martinez**

University of Tennessee, United States of America; [kdelong39@utk.edu](mailto:kdelong39@utk.edu)

## AGRICULTURAL ECONOMICS

### Stocker Industry Production and Marketing Flexibility to Enhance Beef Industry Competitiveness

**Michael Ethan McGill, Derrell S. Peel**

Oklahoma State University, United States of America; [mimcgil@okstate.edu](mailto:mimcgil@okstate.edu)

### The Impact of Days Weaned on Feeder Calf Prices in Oklahoma

**Amadeo Fosu Panyi, Kelly Raper**

OKLAHOMA STATE UNIVERSITY, United States of America; [apanyi@okstate.edu](mailto:apanyi@okstate.edu)

### Value of Igenity Panel Scores in a Cow-Calf Operation

**Greg L. Garrison<sup>1</sup>, B. Wade Brorsen<sup>1</sup>, Jon T. Biermacher<sup>1</sup>, Evan Whitley<sup>2</sup>**

<sup>1</sup>Oklahoma State University, United States of America; <sup>2</sup>Choctaw Nation; [greg.garrison@okstate.edu](mailto:greg.garrison@okstate.edu)

### A Study on THC Level of Industrial Hemp in Kentucky: Agronomic and Economic Factors

**Hoyeon Jeong<sup>1</sup>, Buddhika Patalee Mallika Appuhamilage<sup>2</sup>, Tyler B Mark<sup>3</sup>**

<sup>1</sup>University of Kentucky, United States of America; <sup>2</sup>University of Kentucky, United States of America; <sup>3</sup>University of Kentucky, United States of America; [hje238@uky.edu](mailto:hje238@uky.edu)

### OS06: Prospects for Growth of U.S. Agricultural Trade with Cuba

*Time:* Monday, 14/Feb/2022: 3:30pm - 5:00pm · *Location:* Borgne

*Session Chair:* Luis Ribera, Texas A&M University

### Prospects for Growth of U.S. Agricultural Trade with Cuba

**Sidney Beamon<sup>1</sup>, Parr Rosson<sup>1</sup>, Luis Ribera<sup>1</sup>, Raymond Robertson<sup>1</sup>, Ricardo Torres<sup>2</sup>**

<sup>1</sup>Texas A&M University, United States of America; <sup>2</sup>American University; [sydney20beamon@tamu.edu](mailto:sydney20beamon@tamu.edu)

### OS07: Regular and Substantive Interaction in Online Agribusiness Programs: Record, Post and Quiz Don't Cut It

*Time:* Monday, 14/Feb/2022: 3:30pm - 5:00pm · *Location:* Napoleon B3

*Session Chair:* Michelle Santiago, Murray State University

## AGRICULTURAL ECONOMICS

### Regular and Substantive Interaction in Online Agribusiness Programs: Record, Post and Quiz Don't Cut It

**Michelle Santiago<sup>1</sup>, Joseph Mehlhorn<sup>2</sup>, Jessica Crews Garcia<sup>2</sup>, Diane Friend<sup>3</sup>**

<sup>1</sup>Murray State University, United States of America; <sup>2</sup>University of Tennessee at Martin; <sup>3</sup>Texas A&M University - Kingsville; [msantiago1@murraystate.edu](mailto:msantiago1@murraystate.edu)

### SP12: Climate Change

*Time:* Monday, 14/Feb/2022: 3:30pm - 5:00pm · *Location:* Oak Alley

*Session Chair:* Lixia H. Lambert, Oklahoma State University

### Influence of a Climate Narrative on the Stated Preferences for Groundwater Management

**Kent Kovacs, Grant West, Rodolfo Nayga**

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

### Multi-State Contribution and Impact Analysis of the Oklahoma-McClellan-Kerr Arkansas River Navigation System: A Case Study of Disruption Due to the 2019 Spring Flood Event

**Katie Welch, Lixia H. Lambert, Dayton M. Lambert, Dave Shideler**

Oklahoma State University, United States of America; [katwelc@okstate.edu](mailto:katwelc@okstate.edu)

### Soil carbon markets as a means to mitigate greenhouse gas emissions: perceptions of agricultural producers in the U.S mid-south

**Tamara Sterrett, Rachna Tewari, Joey Mehlhorn, Isaac Lepcha**

The University of Tennessee at Martin, United States of America; [tamester@ut.utm.edu](mailto:tamester@ut.utm.edu)

### ~~Examining the Effects of Household Structure Transition on Electricity Consumption and Carbon Dioxide Emissions~~

**Jia Yu Xie, Dong Hee Suh**

Korea University, Korea, Republic of (South Korea); [ivy-wsns@korea.ac.kr](mailto:ivy-wsns@korea.ac.kr)

### How does the Coastal Housing Market View Flood Zone -A Risk Signal or Mandatory Costs?

**Zhenshan Chen<sup>1</sup>, Charles Towe<sup>2</sup>**

<sup>1</sup>Mississippi State University, United States of America; <sup>2</sup>University of Connecticut, United States of America; [zc352@msstate.edu](mailto:zc352@msstate.edu)

## AGRICULTURAL ECONOMICS

Relevance and accuracy in baseline data collection for estimating direct agricultural losses of hazard events: Florida and tropical cyclones

Xiaohui Qiao<sup>1</sup>, Christa D. Court<sup>1</sup>, Tony H. Grubestic<sup>2</sup>, Edward Helderop<sup>2</sup>, Vincent Lecours<sup>3</sup>

<sup>1</sup>Food and Resource Economics Department, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, FL 32611, USA; <sup>2</sup>Geoinformatics & Policy Analytics Laboratory, School of Information, University of Texas-Austin, Austin, TX 78701, USA; <sup>3</sup>School of Forest, Fisheries, and Geomatics Sciences, University of Florida, Gainesville, FL 32611, USA; [xiaohui.qiao@ufl.edu](mailto:xiaohui.qiao@ufl.edu)

Profitability and climate risk mitigation of low carbon innovations for livestock farms in Mexico, Honduras, and Costa Rica

Felipe Peguero, Cristobal Villanueva, Muhammad Ibrahim, Edwin Garcia, Alejandra Martinez, Jose Jimenez, Andres Vega, Francisco Casasola, Claudia Sepulveda  
CATIE, Costa Rica; [Felipe.peguero@catie.ac.cr](mailto:Felipe.peguero@catie.ac.cr)

### SP13: Demand and Price Analysis 2

*Time:* Monday, 14/Feb/2022: 3:30pm - 5:00pm · *Location:* Edgewood A/B

*Session Chair:* Laxmi Devi Adhikari, University of Kentucky

Recall Information Heterogeneity and Perceived Health Risk: The Impact of Food Recall on Fresh Meat Market in the U.S.

Pei Zhou, Yizao Liu

Pennsylvania State University; [puz42@psu.edu](mailto:puz42@psu.edu)

Household Demand Analysis of Greek Yogurt in the United States

Oral Capps. Jr., Vikas Mishra, Ruixin Jia, Macson Ogieriakhi

Texas A&M University, United States of America; [rjia@tamu.edu](mailto:rjia@tamu.edu)

Demand and Marketing Strategies of Florida Orange Juice

Sungeun Yoon, Yan Heng, Lisa House

University of Florida, United States of America; [sungeunyoona@ufl.edu](mailto:sungeunyoona@ufl.edu)

## AGRICULTURAL ECONOMICS

US Sweetener Consumption: Trends, Drivers, and Health Perspectives

Vardges Hovhannisyan<sup>1</sup>, Rafael Bakhtavoryan<sup>2</sup>, Christopher Bastian<sup>3</sup>

<sup>1</sup>University of Wyoming, United States of America;

<sup>2</sup>Texas A&M, Commerce, United States of America;

<sup>3</sup>University of Wyoming, United States of America;

[vhovhann@uwyo.edu](mailto:vhovhann@uwyo.edu)

Is There a Market for Texas Branded Beef Steak in China?

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

Texas Tech University, United States of America; [qi.kang@ttu.edu](mailto:qi.kang@ttu.edu)

The Long-Term Effects of “Redlining” Maps on Grocery Store Locations in US

Ummey Honey, Joel Cuffey

Auburn University, United States of America; [uzh0003@auburn.edu](mailto:uzh0003@auburn.edu)

Consumer Beef Preferences and Risk Mitigation in the Beef Supply Chain in Response to COVID-19 Pandemic: A Willingness to Pay Study

Shalynn Elizabeth Sumrow

Texas Tech University, United States of America; [shalynn.sumrow@ttu.edu](mailto:shalynn.sumrow@ttu.edu)

### SP14: Farm and Financial Management 2

*Time:* Monday, 14/Feb/2022: 3:30pm - 5:00pm · *Location:* Estherwood

*Session Chair:* Courtney Bir, Oklahoma State University

Factors Affecting Solar System Profitability for Southeastern Broiler Growers

Dennis L Brothers, Adam Rabinowitz, Jose Gamez, Joshua Duke

Auburn University, United States of America; [dlb0018@auburn.edu](mailto:dlb0018@auburn.edu)

An Economic and Environmental Evaluation of Furrow Irrigated Rice in the Arkansas Delta

Francis Tisboe<sup>1</sup>, Aaron Shew<sup>2</sup>, Lawton Lanier Nalley<sup>2</sup>, Alvaro Durand-Morat<sup>2</sup>, Joe Massey<sup>3</sup>, Ranjan Parajuli<sup>2</sup>

<sup>1</sup>USDA Economic Research Service; <sup>2</sup>University of Arkansas, United States of America; <sup>3</sup>USDA Agricultural Research Service; [amshew@uark.edu](mailto:amshew@uark.edu)

## AGRICULTURAL ECONOMICS

**Wringing out Farm Income with Quail Birds**  
**Pratikshya Silwal**, Courtney Bir, Lixia Lambert  
Oklahoma State University, United States of  
America; [psilwal@okstate.edu](mailto:psilwal@okstate.edu)

### **A Cost Benefit Analysis of Small-Scale Chicken and Quail Production**

**Enoch Adom**, Courtney Bir, Lixia H. Lambert  
Oklahoma State University, United States of  
America; [enoch.adom@okstate.edu](mailto:enoch.adom@okstate.edu)

### **Farm-Scale Economic Analysis of Cotton Experiments in Tifton, Georgia**

**Rachel M Judd**<sup>1</sup>, Yangxuan Liu<sup>1</sup>, Ritesh Karki<sup>3</sup>,  
**Amanda Smith**<sup>1</sup>, Latif Kalin<sup>3</sup>, Unmesh Koirala<sup>2</sup>,  
**Damian Adams**<sup>2</sup>

<sup>1</sup>University of Georgia; <sup>2</sup>University of Florida; <sup>3</sup>Auburn  
University; [rachel.judd@uga.edu](mailto:rachel.judd@uga.edu)

### **Custom Heifer Raising vs Raising on Dairy: Considerations for Southern Producers**

**Catherine Louise Machado**, Joe L Outlaw, David  
**P Anderson**, Bart L Fischer  
Texas A&M University, United States of America;  
[cmachado@tamu.edu](mailto:cmachado@tamu.edu)

### **Effects of Regenerative Agriculture on Producer Profitability**

**Harlea A Hoelscher**, Joe L Outlaw, Bart L Fischer  
Texas A&M University, United States of America;  
[hahoelscher17@tamu.edu](mailto:hahoelscher17@tamu.edu)

### **SP15: Natural Resource/Environmental Economics 2**

*Time:* Monday, 14/Feb/2022: 3:30pm -  
5:00pm · *Location:* Napoleon A1  
*Session Chair:* Seong Yun, Mississippi State  
University

### **Environmental Threats and the Natural Capital Value of Blue Crab in the Gulf of Mexico**

**Shelby Leigh Brewer**<sup>1</sup>, Seong Yun<sup>1</sup>, Daniel  
**Petrolia**<sup>1</sup>, Sean Powers<sup>2</sup>

<sup>1</sup>Mississippi State University; <sup>2</sup>University of South  
Alabama; [slb928@msstate.edu](mailto:slb928@msstate.edu)

## AGRICULTURAL ECONOMICS

**Discrete Choice Experiment for Water  
Conservation Practices in Mejia, Ecuador**  
**Cristhian Alonso Ortiz Cuenca**<sup>1</sup>, Jorge Jair Ávila  
**Santamaría**<sup>1</sup>, Adan L. Martinez-Cruz<sup>2</sup>

<sup>1</sup>Universidad San Francisco de Quito (USFQ),  
Ecuador; <sup>2</sup>Swedish University of Agricultural  
Sciences (SLU), Sweden; [cortiz1@estud.usfq.edu.ec](mailto:cortiz1@estud.usfq.edu.ec)

### **Preserving water quality in the U.S mid-south: producer perceptions and willingness to adopt alternative agricultural practices**

**Erin Barnes**, Rachna Tewari, Anthony Delmond,  
**Joey Mehlhorn**  
University of Tennessee at Martin, United States of  
America; [erimbarn@ut.utm.edu](mailto:erimbarn@ut.utm.edu)

### **Farmers' adoption of enhanced-efficiency nitrogen fertilizers in the Northern Great Plains** **Yubing Fan**<sup>1</sup>, Tong Wang<sup>2</sup>, Hailong Jin<sup>2</sup>, Curtis B. **Adams**<sup>3</sup>

<sup>1</sup>Texas A&M AgriLife Research, Vernon, TX; <sup>2</sup>South  
Dakota State University, Brookings, SD; <sup>3</sup>USDA  
Agricultural Research Service, Pendleton, OR;  
[yubingfan27@gmail.com](mailto:yubingfan27@gmail.com)

### **Stochastic economic analysis of agricultural BMP adoption in the presence of government support programs**

**Unmesh Koirala**, Damian C. Adams  
University of Florida, United States of America;  
[ukoirala@ufl.edu](mailto:ukoirala@ufl.edu)

### **Can recreational water users help to stop the spread of aquatic invasive species (AIS)?**

**Yingkai Fang**  
University of Arkansas at Pine Bluff, United States of  
America; [fangy@uapb.edu](mailto:fangy@uapb.edu)

### **Assessing county-wide effects of adopting tile drainage for a two-crop season in the MS Delta: an application of PMP**

**Nicolas Efrain Quintana Ashwell**<sup>1,2</sup>  
<sup>1</sup>Mississippi State University, United States of  
America; <sup>2</sup>National Center for Alluvial Aquifer  
Research, United States of America;  
[n.quintana@msstate.edu](mailto:n.quintana@msstate.edu)

### **SP16: Behavior/Experimental Economics 2**

*Time:* Monday, 14/Feb/2022: 3:30pm -  
5:00pm · *Location:* Oakley  
*Session Chair:* Hyonyong Kang, Korea university

## AGRICULTURAL ECONOMICS

**Can a Sustainability Facts Label reduce the “halo” effect of organic labels?**

**Zachary T Neuhofer<sup>1</sup>, Jayson L Lusk<sup>1</sup>, Sofia Villas-Boas<sup>2</sup>**

<sup>1</sup>Purdue University, United States of America;  
<sup>2</sup>University of California, Berkeley, United States of America; [zneuhofe@purdue.edu](mailto:zneuhofe@purdue.edu)

**Perceptions and Attitudes towards COVID 19 Vaccines Among US Households in 2021**

**Jianhui Liu, Bachir Kassas, John Lai, Jaclyn Kropp, Zhifeng Gao**

University of Florida, United States of America;  
[jianhui@ufl.edu](mailto:jianhui@ufl.edu)

**Consumer Preferences for Healthy Snacking in the United States**

**Glory Esohe Okpiaifo<sup>1</sup>, Bertille Dormoy<sup>2</sup>, Zhifeng Gao<sup>1</sup>, Bachir Kassas<sup>1</sup>**

<sup>1</sup>University of Florida, United States of America;  
<sup>2</sup>École Supérieure d'Agricultures d'Angers;  
[g.okpiaifo@ufl.edu](mailto:g.okpiaifo@ufl.edu)

**Factoring public perceptions into willingness to pay for H2A labeling**

**Ruojin Zhao, John Lai, Bachir Kassas**

Food and Resource Economics Department,  
University of Florida, United States of America;  
[ruojinzhao@ufl.edu](mailto:ruojinzhao@ufl.edu)

**Medicaid Expansion and its Impact on Low Income Adults Health Care Access by Chronic Disease Status**

**Samuel Uche<sup>1</sup>, Janani Rajbhandari-Thapa<sup>2</sup>, Conrad Lyford<sup>1</sup>**

<sup>1</sup>Texas Tech University, Lubbock, TX; <sup>2</sup>University of Georgia, Athens, GA; [samuel.uche@ttu.edu](mailto:samuel.uche@ttu.edu)

**Consumers' Willingness to Pay for Environmental labels**

**Md Azhar Uddin<sup>1</sup>, Zhifeng Gao<sup>1</sup>, Derek Farnsworth<sup>1</sup>, Tatiana Borisova<sup>1</sup>, Alejandro Bolques<sup>2</sup>**

<sup>1</sup>University of Florida, United States of America;  
<sup>2</sup>Florida Agricultural and Mechanical University;  
[mdazharuddin@ufl.edu](mailto:mdazharuddin@ufl.edu)

**Respondent experience and willingness to pay: Reconciling stated preference data with scientific evidence**

**Zhenyu Yao, Klaus Moeltner**

Virginia Tech, United States of America;  
[izhenyu@vt.edu](mailto:izhenyu@vt.edu)

## AGRICULTURAL ECONOMICS

**SP17: International Development 1**

*Time: Monday, 14/Feb/2022: 3:30pm - 5:00pm · Location: Southdown*

*Session Chair: Amy Hagerman, Oklahoma State University*

**Do Agricultural Subsidies Reduce Gendered Dietary Diversity Gaps? Evidence from Zambia**  
**Rebecca N. Kiwanuka-Lubinda<sup>1</sup>, Chewe Nkonde<sup>1</sup>, John N. Ng'ombe<sup>1,2</sup>**

<sup>1</sup>University of Zambia, Zambia; <sup>2</sup>North Carolina A&T State University, United States of America;  
[ngombe@okstate.edu](mailto:ngombe@okstate.edu)

**Potential socio-economic impact of the frosty pod (Moniliophthora roreri) in the Dominican Republic cocoa value chain**

**Felipe Peguero<sup>1</sup>, Enelvi Brito Sosa<sup>1</sup>, Luis Orozco Aguilar<sup>2</sup>, Mariela Leandro<sup>1</sup>, Falguni Guharay<sup>3</sup>, Eduardo Somarriba<sup>1</sup>, Rolando Cerda<sup>1</sup>**

<sup>1</sup>CATIE, Costa Rica; <sup>2</sup>Lutheran World Relief; <sup>3</sup>World Cocoa Foundation; [Felipe.peguero@catie.ac.cr](mailto:Felipe.peguero@catie.ac.cr)

**How do repeated violent shocks affect a country's agricultural transformation? The case of Colombia.**

**Edgar Marcillo**

University of Florida, United States of America;  
[emarcillo@ufl.edu](mailto:emarcillo@ufl.edu)

**Analysis of African Swine Fever Consequences to Rural Economies and Small Swine Producers in Haiti**

**Ralph Jean-Pierre, Amy Hagerman, Karl Rich**  
Oklahoma State University, United States of America; [ralph.jean-pierre@okstate.edu](mailto:ralph.jean-pierre@okstate.edu)

**The effects of large-scale mining on local communities: Evidence from Peru**

**Joaquin Mayorga, Ashok K. Mishra, Alexis Villacis**

Morrison School of Agribusiness at WP School of Business, Arizona State University, United States of America; [jmayorg1@asu.edu](mailto:jmayorg1@asu.edu)

**Adoption of Good Agricultural Practices (GAPs) among Sweet Orange Growers of Nepal**

**Bhishma Raj Dahal<sup>1</sup>, Arjun Kumar Shrestha<sup>2</sup>, Jada Marie Thompson<sup>1</sup>**

<sup>1</sup>University of Tennessee, United States of America;  
<sup>2</sup>Agriculture and Forestry University, Chitwan, Nepal;  
[bdahal1@vols.utk.edu](mailto:bdahal1@vols.utk.edu)

## AGRICULTURAL ECONOMICS

### SAEA Lifetime Achievement Awards Presentations

*Time:* Tuesday, 15/Feb/2022: 8:30am - 10:00am · *Location:* Bayside 1/2/3

SAEA recognizes significant and enduring contributions in scholarship or public service to Southern agricultural economics. This award recognizes individual distinguished contributions to the profession over a career. The award winners for 2021 will be recognized at this session and each award recipient will make a short presentation on the highlights of their career and their perspectives on agricultural economics as a professional home

#### **Jim Mjelde**

Texas A&M University, United States of America

#### **James Larson**

University of Tennessee, United States of America

### ES: Emerging Scholars

*Time:* Tuesday, 15/Feb/2022: 10:30am - 12:00pm · *Location:* Napoleon C1  
*Session Chair:* Rodney B. Holcomb, Oklahoma State University

### Moving the conversation from “Can we grow it?” to “SHOULD we grow it?”

Trey Malone, Michigan State University

### New challenges and opportunities in farm management

Courtney Bir, Oklahoma State University

### A Survey of Extreme Negative Financial Positions in Farming with Implications for Extension Programming

Adam Rabinowitz, Auburn University

### OS08: 2022 Southern Livestock Economic Outlook

*Time:* Tuesday, 15/Feb/2022: 10:30am - 12:00pm · *Location:* Napoleon B3  
*Session Chair:* David Anderson, Texas A&M University

## AGRICULTURAL ECONOMICS

### 2022 Southern Livestock Economic Outlook **Samuel D. Zapata<sup>1</sup>, Francisco J. Abello<sup>1</sup>, David Anderson<sup>1</sup>, James Mitchell<sup>2</sup>, Tyler Cozzens<sup>3</sup>, Dennis Brothers<sup>4</sup>, Andrew Griffith<sup>5</sup>, Justin Benavidez<sup>1</sup>, Kenny Burdine<sup>6</sup>**

<sup>1</sup>Texas A&M University, United States of America; <sup>2</sup>University of Arkansas; <sup>3</sup>Livestock Marketing Information Center; <sup>4</sup>Auburn University; <sup>5</sup>University of Tennessee; <sup>6</sup>University of Kentucky;  
[samuel.zapata@ag.tamu.edu](mailto:samuel.zapata@ag.tamu.edu)

#### **Beef Outlook for 2022**

James Mitchell, University of Arkansas

#### **Pork Outlook for 2022**

Tyler W. Cozzens, Livestock Market Information Center

#### **Poultry Outlook for 2022**

Dennis Brothers, Auburn University

#### **Hay and Forage Outlook for 2022**

Andrew Griffith, University of Tennessee

#### **Sheep and Goat Outlook for 2022**

Justin Benavidez, Texas A&M University

#### **Dairy Outlook for 2022**

Kenny Burdine, University of Kentucky

### SP18: International Trade 2

*Time:* Tuesday, 15/Feb/2022: 10:30am - 12:00pm · *Location:* Napoleon A1  
*Session Chair:* Catherine Louise Machado, Texas A&M University

### Economic Assessment of Foot-and-Mouth Disease Outbreaks in Brazil

#### **Tais Cristina de Menezes<sup>1</sup>, Amanda M. Countryman<sup>2</sup>, Joaquim Bento de Souza Ferreira Filho<sup>1</sup>, Fernando Ferreira<sup>3</sup>**

<sup>1</sup>Luiz de Queiroz College of Agriculture, University of Sao Paulo, Brazil; <sup>2</sup>Colorado State University, United States; <sup>3</sup>School of Veterinary Medicine and Animal Science, University of Sao Paulo, Brazil;  
[tatacristinamenezes@hotmail.com](mailto:tatacristinamenezes@hotmail.com)

### A Disaggregated Analysis of Beef Import Demand in Japan

#### **Christina Dian Greer, Andrew Muhammad, Karen Lewis Delong**

University of Tennessee, United States of America;  
[cgreer12@vols.utk.edu](mailto:cgreer12@vols.utk.edu)

## AGRICULTURAL ECONOMICS

### Economic, Developmental, and International Political Economy Perspectives on the Governance of Agricultural Trade

**Wanki Moon**

Southern Illinois University Carbondale, United States of America; [wmoon@siu.edu](mailto:wmoon@siu.edu)

### Agri-food Firm's investment in quality and export competitiveness

**Charlotte Emlinger<sup>1</sup>, Karine Latouche<sup>2</sup>**

<sup>1</sup>Virginia Tech, United States of America; <sup>2</sup>INRAE LERECO; [emlinger@vt.edu](mailto:emlinger@vt.edu)

### Chinese Retaliatory Tariffs and the Export demand for U.S Pistachios

**Abraham Olakunle Ajibade**

University of Kentucky, United States of America; [aoaj222@uky.edu](mailto:aoaj222@uky.edu)

### Production, trade, and cross-hauling: examining the complexity of trade related to agricultural commodities

**Joao Ferreira, Christa Court**

Food and Resource Economics Department, University of Florida; [joao.ferreira@ufl.edu](mailto:joao.ferreira@ufl.edu)

### SP19: Agricultural Policy 2

*Time:* Tuesday, 15/Feb/2022: 10:30am - 12:00pm · *Location:* Napoleon C2

*Session Chair:* Bart Fisher, Texas A&M

### Can Policy Measures Help to Increase the Sustainability of Fertilization Practices? Analysis of Struvite Use for Row Crop Production in the Mississippi Delta

**Leah English, Jennie Popp, Kristofor Brye, Niyi Omidire**

University of Arkansas, United States of America; [lae001@uark.edu](mailto:lae001@uark.edu)

### Government Payment Impacts on Bankruptcy Filings Across Farm Operations

**Adrian Joseph Turrisi, Adam N. Rabinowitz, Will Secor**

Auburn University, United States of America; [ajt0024@auburn.edu](mailto:ajt0024@auburn.edu)

## AGRICULTURAL ECONOMICS

### Analysis of Suggested Improvements to Livestock Forage Disaster Program

**Allison Wilton, Bart Fischer, Joe Outlaw**

Texas A&M University; [allison.wilton@tamu.edu](mailto:allison.wilton@tamu.edu)

### Evaluating ARC-IC as an Alternative for Southern Producers

**Natalie A Graff, Joe L Outlaw, Bart L Fischer, Henry L Bryant, J Marc Raulston, George M Knapke**

Texas A&M University, United States of America; [graffn@tamu.edu](mailto:graffn@tamu.edu)

### Evaluating the Impact of the Wildfires and Hurricanes Indemnity Program-Plus (WHIP+) on the Southern United States

**Henry Nelson, Joe Outlaw, Bart Fischer, Henry Bryant, J. Marc Raulston, George Knapke**

Texas A&M University, United States of America; [henryrognenelson@tamu.edu](mailto:henryrognenelson@tamu.edu)

### Evaluating the Effects of Regenerative Agriculture on Crop Insurance Premiums

**Colton R. Russell, Joe L. Outlaw, Bart L. Fischer**

Texas A&M University, United States of America; [Colton1998@tamu.edu](mailto:Colton1998@tamu.edu)

### Evaluating the impact of off-farm decisions on federal government program utilization and financial success for Missouri's Beginning Farmers

**Nichole Busdieker-Jesse, Lyndsey Parker, Christi Sudbrock**

Missouri State University, United States of America; [nbusdiekerjesse@missouristate.edu](mailto:nbusdiekerjesse@missouristate.edu)

### SP20: Agricultural Production 2

*Time:* Tuesday, 15/Feb/2022: 10:30am - 12:00pm · *Location:* Napoleon C3

*Session Chair:* Michael Popp, University of Arkansas

### 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, Laura Dodson**

Economic Research Service, United States of America; [Richard.nehring@usda.gov](mailto:Richard.nehring@usda.gov)



## AGRICULTURAL ECONOMICS

**Policy intervention and economic profitability of grazing summer cover crops in an intercropped winter wheat system**

**Yubing Fan<sup>1</sup>, Tong Wang<sup>2</sup>, Partson Mubvumba<sup>3</sup>, Paul B. DeLaune<sup>1</sup>, Seong C. Park<sup>4</sup>**

<sup>1</sup>Texas A&M AgriLife Research, Vernon, TX; <sup>2</sup>South Dakota State University, Brookings, SD; <sup>3</sup>USDA Agricultural Research Service, Stoneville, MS; <sup>4</sup>Tennessee Tech University, Cookeville, TN; [yubingfan27@gmail.com](mailto:yubingfan27@gmail.com)

**Profit-Maximizing Potassium Fertilizer Recommendations for Row Crops**

**Kimberly Oliver<sup>1</sup>, Michael Popp<sup>1</sup>, Nathan Slaton<sup>2</sup>, Gerson Drescher<sup>2</sup>, Trenton Roberts<sup>2</sup>**

<sup>1</sup>University of Arkansas, Department of Agricultural Economics and Agribusiness, Fayetteville, AR, USA; <sup>2</sup>University of Arkansas, Department of Crop, Soil, and Environmental Science, Fayetteville, AR, USA; [kboliver@uark.edu](mailto:kboliver@uark.edu)

**The Effect of Warming Temperatures on the Queen of Forages: Alfalfa**

**Francis Tsiboe<sup>1</sup>, Hannah Elizabeth Shear<sup>2</sup>**

<sup>1</sup>Economic Research Service, USDA; <sup>2</sup>Oklahoma State University, Agricultural Economics; [hshear@okstate.edu](mailto:hshear@okstate.edu)

**What is the Value of Screening for Herbicide Resistance in Arkansas?**

**Bailey Peterson-Wilhelm, Alvaro Durand-Morat, Lawton Lanier Nalley, Jason Norsworthy**

University of Arkansas, United States of America; [bep011@uark.edu](mailto:bep011@uark.edu)

**Potential for Enhancing Profitability of Beekeeping in Nepal**

**Dabit Bista, Dikshya Sapkota, Ram Acharya**

New Mexico State University, United States of America; [dabitraj@nmsu.edu](mailto:dabitraj@nmsu.edu)

**On-Farm Decisions and Outcomes: How Management Practices Affect Soil Health and Crop Yields**

**Alex McLain, Deepthi Kolady**

South Dakota State University, United States of America; [Alex.McLain@sdstate.edu](mailto:Alex.McLain@sdstate.edu)

## AGRICULTURAL ECONOMICS

**OS09: 2022 Southern Crops Economic Outlook**

*Time:* Tuesday, 15/Feb/2022: 1:30pm - 3:00pm · *Location:* Napoleon B3

*Session Chair:* John Robinson, Texas A&M University

**2022 Southern Crops Economic Outlook**

**Francisco Abello<sup>1</sup>, Samuel Zapata<sup>1</sup>, John Robinson<sup>1</sup>, Brian Mills<sup>2</sup>, Will Maples<sup>2</sup>, Wendiam Sawadgo<sup>3</sup>, Mark Welch<sup>1</sup>, Aaron Smith<sup>4</sup>, Alicia Rihn<sup>4</sup>**

<sup>1</sup>Texas A&M AgriLife Extension, United States of America; <sup>2</sup>Mississippi State University; <sup>3</sup>Auburn University; <sup>4</sup>University of Tennessee; [fjabello@tamu.edu](mailto:fjabello@tamu.edu)

**Rice Outlook for 2022**

Brian Mills, Mississippi State University

**Cotton Outlook for 2022**

Will Maples, Mississippi State University

**Peanut Outlook for 2022**

Wendiam Sawadgo, Auburn University

**Corn Outlook for 2022**

Mark Welch, Texas A&M University

**Soybean Outlook for 2022**

Aaron Smith, University of Tennessee

**Wheat and Sorghum Outlook for 2021**

Francisco Abello, Texas A&M University

**Greenhouse/Turf Outlook for 2022**

Alicia Rihn, University of Tennessee

**Specialty Crops Outlook for 2022**

Samuel Zapata, Texas A&M University

**OS10: Advice for Early Career Success from the 2022 SAEA Emerging Scholars**

*Time:* Tuesday, 15/Feb/2022: 1:30pm - 3:00pm · *Location:* Napoleon C1

*Session Chair:* Jerrod Penn, LSU AgCenter

**Advice for Early Career Success from the 2022 SAEA Emerging Scholars**

**Jerrod Penn**

LSU AgCenter, United States of America; [jpenn@agcenter.lsu.edu](mailto:jpenn@agcenter.lsu.edu)

## AGRICULTURAL ECONOMICS

### SP21: Agribusiness

Time: Tuesday, 15/Feb/2022: 1:30pm -

3:00pm · Location: Napoleon C3

Session Chair: Ryan Blake Williams, Texas Tech University

#### **A Fulfilling Marketplace? An Analysis of Amazon's Sales Strategies** **Chinonso Ezenwa Etumnu**

South Dakota State University, United States of America; [ecetumnu@yahoo.com](mailto:ecetumnu@yahoo.com)

#### **Good Coops, Bad Coops : Financing Cooperatives in Asymmetric Information**

**Julien Cadot<sup>1</sup>, Arnaud Feral<sup>2</sup>**

<sup>1</sup>Virginia Tech, United States of America; <sup>2</sup>ISG International Business School; [juliencadot@vt.edu](mailto:juliencadot@vt.edu)

#### **“Contracting for Companion Animal Euthanasia and Cadaver Donation Programs”**

**Ryan Blake Williams, Joshua A. Rowe, Bailey Samper**

Texas Tech University; [bailey.samper@ttu.edu](mailto:bailey.samper@ttu.edu)

#### **Growing An Agribusiness Brand with Digital Marketing Strategies: A Case Study**

**James Barnes, Kalyn Coatney**

Department of Agricultural Economics, Mississippi State University; [james.barnes@msstate.edu](mailto:james.barnes@msstate.edu)

#### **Feasibility of a Small Fruit Processing Center in Middle Tennessee**

**Justin Gardner, Tony Johnston, Utki Sheth**

Middle Tennessee State University, United States of America; [justin.gardner@mtsu.edu](mailto:justin.gardner@mtsu.edu)

#### **A Comparative Cost Analysis of Ginning Technologies Using Simulated Data**

**Sushil C Sapkota<sup>1</sup>, Ram N Acharya<sup>1</sup>, Carlos Armijo<sup>2</sup>**

<sup>1</sup>New Mexico State University, United States of America; <sup>2</sup>USDA-ARS Southwestern Cotton Ginning Research Laboratory; [sushilsa@nmsu.edu](mailto:sushilsa@nmsu.edu)

#### **The Impact of U.S. Dairy Supply Chain Disruption during COVID-19**

**Miyeon Son, Dayton Lambert**

Oklahoma State University, United States of America; [mson@okstate.edu](mailto:mson@okstate.edu)

## AGRICULTURAL ECONOMICS

### SP22: Demand and Price Analysis 3

Time: Tuesday, 15/Feb/2022: 1:30pm -

3:00pm · Location: Napoleon C2

Session Chair: Laxmi Devi Adhikari, University of Kentucky

#### **IDENTIFYING THE EFFECTS OF ECONOMIC AND DEMOGRAPHIC CHARACTERISTICS ON THE PROPENSITY TO PURCHASE PASTURED EGGS**

**Rafael Bakhtavoryan**

Texas A&M University-Commerce, United States of America; [Rafael.Bakhtavoryan@tamuc.edu](mailto:Rafael.Bakhtavoryan@tamuc.edu)

#### **Wholesale demand for pork primal cuts: Updating past estimates to better describe product-level demand heterogeneity**

**Jaime R. Luke, Glynn T. Tonsor**

Kansas State University, United States of America; [jrluke@ksu.edu](mailto:jrluke@ksu.edu)

#### **Pricing the Competition: A Hedonic Analysis of Sport Horses Sold at Online Auctions**

**Heather L. Winter<sup>1</sup>, Jada M. Thompson<sup>1</sup>, Michelle L. Kibler<sup>2</sup>, Madalynn Camp<sup>2</sup>, Jennie L. Z. Ivey<sup>1</sup>**

<sup>1</sup>University of Tennessee; <sup>2</sup>Illinois State University; [hwinter3@vols.utk.edu](mailto:hwinter3@vols.utk.edu)

#### **Modeling the U.S. Sweet Potato Market and the Impact of Supply Shocks**

**Ariel Soto-Caro<sup>1,2</sup>, Tianyuan Luo<sup>1</sup>, Zhengfei Guan<sup>1</sup>, Feng Wu<sup>1</sup>**

<sup>1</sup>University of Florida, United States of America; <sup>2</sup>Universidad de Concepcion, Chile; [asotocar@ufl.edu](mailto:asotocar@ufl.edu)

#### **Vertical Price Transmission in the U.S. Fresh Banana Market with Focus on the COVID – 19 Pandemic**

**Solomon Odiase, Sayed Saghaian**

University of Kentucky, United States of America; [odiase.solomon@uky.edu](mailto:odiase.solomon@uky.edu)

#### **The Impact of Logo Visibility on Brand Recognition, Willingness to Pay and Consumption**

**Gnel Gabrielyan<sup>1</sup>, David Just<sup>2</sup>**

<sup>1</sup>Auburn University, <sup>2</sup>Cornell, University; [gnel.gabrielyan@auburn.edu](mailto:gnel.gabrielyan@auburn.edu)

## AGRICULTURAL ECONOMICS

**Influence of Price Shock on Food at Home Expenditure Patterns: Evidence from the U.S. Consumers**

**Clement Olivier Codjia, Yuqing Zheng**

University of Kentucky, United States of America;  
[codjia.clement.ol@uky.edu](mailto:codjia.clement.ol@uky.edu)

### SP23: International Development 2

*Time:* Tuesday, 15/Feb/2022: 1:30pm - 3:00pm · *Location:* Napoleon A1

*Session Chair:* Alexis Villacis, Arizona State University

**A Broken Market: Can Increased Access to Broken Rice Decrease Food Insecurity in Haiti?**

**Matthew Richardson<sup>1</sup>, Lawton Lanier Nalley<sup>1</sup>, Alvaro Durand-Morat<sup>1</sup>, Phil Crandall<sup>1</sup>, Andrew Scruggs<sup>2</sup>, Lesly Joseph<sup>2</sup>, Jerome Chouloute<sup>2</sup>**

<sup>1</sup>University of Arkansas, United States of America;

<sup>2</sup>University of Fondwa, Haiti; [lnalley@uark.edu](mailto:lnalley@uark.edu)

**Persistence of an agribusiness policy intervention: An analysis of the effect of SPREAD on income in Rwanda's rural population in Rwanda**

**Dongso Lee<sup>1</sup>, Charles B. Moss<sup>1</sup>, Aimable Nsabimana<sup>2</sup>**

<sup>1</sup>University of Florida, United States of America;

<sup>2</sup>University of Rwanda; [dongso.lee@ufl.edu](mailto:dongso.lee@ufl.edu)

### Paper

**Le Wen<sup>1</sup>, Krishna Paudel<sup>2</sup>, Youhua Chen<sup>1</sup>, Qinying He<sup>1</sup>**

<sup>1</sup>South China Agricultural University; <sup>2</sup>Louisiana State University; [wellerwen009@163.com](mailto:wellerwen009@163.com)

**The Spatial Spillover Effect of Violent Conflicts on Food Insecurity in Sub-Saharan Africa**

**James Muriuki, Darren Hudson**

Texas Tech University, United States of America;  
[James.muriuki@ttu.edu](mailto:James.muriuki@ttu.edu)

**Welfare impact of high-yield technologies on the cocoa market in West Africa**

**Felipe Silva<sup>1</sup>, Hamza Husain<sup>2</sup>, David Zilberman<sup>3</sup>**

<sup>1</sup>Clemson University, United States of America;

<sup>2</sup>University of California, Berkeley; <sup>3</sup>University of California, Berkeley; [fdsilva@clemson.edu](mailto:fdsilva@clemson.edu)

## AGRICULTURAL ECONOMICS

**The Economic and Environmental Impacts of Income Diversification on the Pastoral Community, Evidence from the Tibetan Plateau**

**Qi Kang<sup>1</sup>, Chenggang Wang<sup>1</sup>, Zeng Tang<sup>2</sup>**

<sup>1</sup>Texas Tech University, United States of America;

<sup>2</sup>Lanzhou University, China; [qi.kang@ttu.edu](mailto:qi.kang@ttu.edu)

**Reducing Food Insecurity by Boosting Agricultural Productivity: Evidence from Nigerian Panel Data**

**Alexis Villacis, Joaquin Mayorga, Ashok Mishra**

Arizona State University, United States of America;  
[alexis.villacis@asu.edu](mailto:alexis.villacis@asu.edu)

**OS11: Successful Extension Risk Management Outreach Programming**

*Time:* Tuesday, 15/Feb/2022: 3:30pm - 5:00pm · *Location:* Napoleon B3

*Session Chair:* Ronald Lee Rainey, University of Arkansas

**Successful Extension Risk Management Outreach Programming**

**Ronald Lee Rainey<sup>1</sup>, Laurence Crane<sup>2</sup>, Cameron Farlow<sup>3</sup>, Kim Niewolny<sup>4</sup>**

<sup>1</sup>University of Arkansas, United States of America;

<sup>2</sup>National Crop Insurance Services; <sup>3</sup>Organic Growers School; <sup>4</sup>Virginia Tech University; [rrainey@uada.edu](mailto:rrainey@uada.edu)

### Posters

*Time:* Tuesday, 15/Feb/2022: 3:30pm - 5:00pm · *Location:* Napoleon Foyer

**A Profile of Beginning Farm Households in Missouri**

**Arbindra Rimal, Nichole Busdieker, Christine Sudbrock**

Missouri State University, United States of America;  
[arbindrarimal@missouristate.edu](mailto:arbindrarimal@missouristate.edu)

**Consumption of Fruits and Vegetables in the Mississippi Delta and the Role of the Food Environment**

**Shannon Shavonie Giscombe, Elizabeth Canales, Davis William, Ayoung Kim, David Buys**

Mississippi State University, United States of America; [ssg204@msstate.edu](mailto:ssg204@msstate.edu)

## AGRICULTURAL ECONOMICS

**Does Rice Production Increase Greenhouse Gas Emissions in the U.S.?**

**GwanSeon Kim<sup>1</sup>, Seokhyun Hong<sup>2</sup>, Jacob Manlove<sup>3</sup>**

<sup>1</sup>Arkansas State University, United States of America; <sup>2</sup>Arkansas State University, United States of America; <sup>3</sup>Arkansas State University, United States of America; [gkim@astate.edu](mailto:gkim@astate.edu)

**Economic Impacts of Mississippi Beach Closures by E. Coli and HAB**

**Macy Leach, Seong Yun, Ayoung Kim**

Mississippi State University; [ml1881@msstate.edu](mailto:ml1881@msstate.edu)

**Estimating the Effects of Generic Advertising on Market Demand: An ADL Approach**

**Abhipsita Das<sup>1</sup>, Henry W. Kinnucan<sup>2</sup>**

<sup>1</sup>Auburn University, United States of America; <sup>2</sup>Auburn University, United States of America; [azd0083@auburn.edu](mailto:azd0083@auburn.edu)

**Evaluation and Investigation of Trespass in Agriculture**

**Elizabeth Anne Thilmany, Paul Goeringer**

University of Maryland, United States of America; [thilmany@umd.edu](mailto:thilmany@umd.edu)

**Incorporating Flavor in an Oklahoma Wheat Breeding Program**

**Ryan Matthew Loy, F. Bailey Norwood**

Oklahoma State University, United States of America; [rlroy@okstate.edu](mailto:rlroy@okstate.edu)

**Rainwater harvesting as an alternative water supply: A feasibility study at Morehead State University**

**Hannah R. Clatos, Erica L. Tanksley, Vijay Subramaniam**

Morehead State University, United States of America; [hclatos@moreheadstate.edu](mailto:hclatos@moreheadstate.edu)

**Should phosphorus fertilizer recommendations for wheat production be based on sufficiency or on a build-maintenance approach?**

**Whoi Cho<sup>1</sup>, Wade Brorsen<sup>1</sup>, Brian Arnall<sup>2</sup>**

<sup>1</sup>Department of Agricultural Economics at Oklahoma State University, Stillwater, OK 74078, USA;

<sup>2</sup>Department of Plant and Soil Science at Oklahoma State University, Stillwater, OK 74078, USA; [whoi@okstate.edu](mailto:whoi@okstate.edu)

## AGRICULTURAL ECONOMICS

**The impact of water availability on land values in Kansas.**

**Kevyn B Thompson<sup>1</sup>, Mallory Kay Vestal<sup>1</sup>, Bridget Guerrero<sup>1</sup>, Bill Golden<sup>2</sup>**

<sup>1</sup>West Texas A&M University, United States of America; <sup>2</sup>Kansas State University, United States of America; [kbthompson1@buffs.wtamu.edu](mailto:kbthompson1@buffs.wtamu.edu)

**Bio-saline Agriculture: Wheat Production in Egypt and Its Impact on Imports**

**Lal Khan Almas<sup>1</sup>, Muhammad Usman<sup>2</sup>, Muhammad El-Sayed<sup>3</sup>, Muhammad Hazman<sup>4</sup>, Ali Shams El-Din<sup>5</sup>, Steven Burian<sup>6</sup>, Mike McFarland<sup>7</sup>**

<sup>1</sup>West Texas A&M University, United States of America; <sup>2</sup>PMAS Arid Agriculture University-Pakistan; <sup>3</sup>Soil, Water and Environmental Research Institute-Egypt; <sup>4</sup>Agricultural Genetic Engineering Research Institute-Egypt; <sup>5</sup>Benha University-Egypt; <sup>6</sup>University of Alabama, USA; <sup>7</sup>Utah State University, USA; [lalmas@wtamu.edu](mailto:lalmas@wtamu.edu)

**Capital, Risk, and Bankruptcy on small and medium-sized farms**

**Kishor Luitel, Justin Gardner**

Middle Tennessee State University, United States of America; [kishor.luitel@mtsu.edu](mailto:kishor.luitel@mtsu.edu)

**Carbon Emissions Comparisons of No-till and Conventional Management Practices in Tennessee**

**Anna Gafford, Rachna Tewari, Joey Mehlhorn**

University of Tennessee at Martin, United States of America; [annlgaff@ut.utm.edu](mailto:annlgaff@ut.utm.edu)

**Do You Consent to be Recorded? Virtual Manager Interviews as an Engagement Tool for Online and Hybrid Agribusiness Classes**

**Michelle Santiago<sup>1</sup>, Kathleen Brooks<sup>2</sup>, J. Ross Pruitt<sup>3</sup>**

<sup>1</sup>Murray State University, United States of America;

<sup>2</sup>University of Nebraska -Lincoln; <sup>3</sup>University of Tennessee at Martin; [msantiago1@murraystate.edu](mailto:msantiago1@murraystate.edu)

**Does perishability affect market prices: the case of dairy products**

**Anna M Klepacka<sup>1</sup>, Wojciech Jan Florkowski<sup>2</sup>, Cesar Revoredo-Giha<sup>3</sup>**

<sup>1</sup>Warsaw University of Life Sciences, Institute of Economics and Finance; <sup>2</sup>University of Georgia, United States of America; <sup>3</sup>Scotland's Rural College; [wojciech@uga.edu](mailto:wojciech@uga.edu)

## AGRICULTURAL ECONOMICS

### Economic and Agronomic Comparisons of 2019 Arkansas Soybean Research Verification Fields with Existing Extension Yield and Planting Date Guidelines

**Charles Robert Stark**

University of Arkansas at Monticello, United States of America; [stark@uamont.edu](mailto:stark@uamont.edu)

### EFFECTS OF EURASIAN ECONOMIC UNION ACCESSION ON DAIRY PRICE AND CONSUMER WELFARE IN ARMENIA

**Vardges Hovhannisyan**<sup>1</sup>, **Vardan Urutyan**<sup>2</sup>

<sup>1</sup>University of Wyoming, United States of America;

<sup>2</sup>Armenian National Agrarian University;  
[vhovhann@uwyo.edu](mailto:vhovhann@uwyo.edu)

### INPUT-OUTPUT ANALYSIS: THE CASE OF FOOT-AND-MOUTH DISEASE IN BRAZIL

**Tais Cristina de Menezes**<sup>1</sup>, **Marcelo Pereira da Cunha**<sup>2</sup>

<sup>1</sup>University of Sao Paulo, Brazil; <sup>2</sup>University of Campinas, Brazil; [tatacristinamenezes@hotmail.com](mailto:tatacristinamenezes@hotmail.com)

### Local Value-Added Marketing: Evidence from Tennessee Consumers

**Anthony Ryan Delmond**, **Garrett Dudley**, **Margaret Elizabeth Ann Drake**, **Joseph Mehlhorn**, **Scott Parrott**

University of Tennessee at Martin, United States of America; [gardudl@ut.utm.edu](mailto:gardudl@ut.utm.edu)

### Long-term economic feasibility of crop growth stage-based deficit irrigation strategies for cotton production in the Southern High Plains of Texas

**Yubing Fan**<sup>1</sup>, **Sushil Kumar Himanshu**<sup>1</sup>, **Srinivasulu Ale**<sup>1</sup>, **James Bordovsky**<sup>2</sup>, **Seong C. Park**<sup>3</sup>

<sup>1</sup>Texas A&M AgriLife Research, Vernon, TX; <sup>2</sup>Texas A&M AgriLife Research, Plainview, TX; <sup>3</sup>Tennessee Tech University, Cookeville, TN;  
[yubingfan27@gmail.com](mailto:yubingfan27@gmail.com)

### Make or break: An Exploration of the Role of Farm Business Decisions in Addressing Financial Challenges for Missouri's Farmers

**Nichole Busdieker-Jesse**, **Lucas Paloschi**

Missouri State University, United States of America;  
[nbusdiekerjesse@missouristate.edu](mailto:nbusdiekerjesse@missouristate.edu)

## AGRICULTURAL ECONOMICS

### Pluvial and irrigation runoff recycling to stop aquifer depletion in the Mississippi Delta

**Nicolas Efrain Quintana Ashwell**<sup>1,2</sup>

<sup>1</sup>Mississippi State University, United States of America; <sup>2</sup>National Center for Alluvial Aquifer Research, United States of America;  
[n.quintana@msstate.edu](mailto:n.quintana@msstate.edu)

### Market Power in the World Soybean Market: An Empirical Dominant-Duopoly Competitive-Fringe Model

**Sunil Dhoubhadel**<sup>1</sup>, **Azzeddine Azzam**<sup>2</sup>

<sup>1</sup>Prairie View A&M University, United States of America; <sup>2</sup>University of Nebraska-Lincoln, United States of America; [spdhoubhadel@pvamu.edu](mailto:spdhoubhadel@pvamu.edu)

### How are US beef imports used?

**Sarah Spradlin**, **F. Bailey Norwood**

Oklahoma State University, United States of America; [sarah.spradlin@okstate.edu](mailto:sarah.spradlin@okstate.edu)

### How Nutritious are Lunches Brought from Home to School by Elementary and Intermediate School Children?

**Siwan Song**<sup>1</sup>, **Ariun Ishdorj**<sup>1</sup>, **Jayna Dave**<sup>2</sup>

<sup>1</sup>Department of Agricultural Economics, Texas A&M University, United States of America; <sup>2</sup>USDA/ARS Children's Nutrition Research Center, Baylor College of Medicine; [ptswsong@tamu.edu](mailto:ptswsong@tamu.edu)

### Impacts of Energy and Ethanol Price Shocks on U.S. Agriculture: a Partial Equilibrium Approach

**Chenyang Hu**, **Darrell Bosch**, **Wei Zhang**

Virginia Tech, United States of America;  
[huchenyang@vt.edu](mailto:huchenyang@vt.edu)

### Drivers Influencing Adoption of Value-Added Agricultural Practices among Small Farmers in North Carolina: Preliminary Findings of Farmer Focus Group Discussion

**Roger Vorsah**, **Obed Quaicoe**, **Kenrett Jefferson-Moore**, **John Owens**, **Jarvetta Bynum**, **Samaya Brooks**

North Carolina A&T State University, United States of America; [rvvorsah@aggies.ncat.edu](mailto:rvvorsah@aggies.ncat.edu)

### Economic Contribution of Arkansas Agriculture as Explained Using both Hypothetical Extraction and Export Base Methods

**Leah English**, **Jennie Popp**

University of Arkansas, United States of America;  
[lae001@uark.edu](mailto:lae001@uark.edu)

## AGRICULTURAL ECONOMICS

### **Economic Implications of Combining Poultry Litter with Wood Chips for Bio-based Energy Production in the United States: A Regional Approach**

**Krishna Paudel, Huizhen Niu**

Louisiana State University, United States of America;  
[KPaudel@agcenter.lsu.edu](mailto:KPaudel@agcenter.lsu.edu)

### **Economic potential for production of biomass sorghum as a bioenergy feedstock in southeastern U.S.**

**Kabirat Nasiru, Prabodh Illukpitiya, Steven Kennedy**

Tennessee State University, United States of America; [knasiru@tnstate.edu](mailto:knasiru@tnstate.edu)

### **Educating the Future: An Analysis of F2S Programs in Louisiana**

**Whitney R McKinzie, Maria Bampasidou, Carl Motsenbocker, Crystal Besse**

Louisiana State University, United States of America;  
[wmckin3@lsu.edu](mailto:wmckin3@lsu.edu)

### **Evaluating the Investment Decision of Variable Rate Practice Adoption in Alabama Corn and Soybean Production**

**Hunter Whatley, Adam Rabinowitz**

Auburn University, United States of America;  
[shw0015@auburn.edu](mailto:shw0015@auburn.edu)

### **Examining the Southeastern US Beef Industry through Economic Base Analysis**

**Jennie Sheerin Popp<sup>1</sup>, Leah English<sup>1</sup>, Greg Alward<sup>2</sup>**

<sup>1</sup>University of Arkansas, United States of America;  
<sup>2</sup>The Alward Institute; [jhpopp@uark.edu](mailto:jhpopp@uark.edu)

### **Farm-Level Productivity Impacts of Enterprise Diversification**

**Godfrey Ejimakor, Emmanuela Maduakor, Terrence Thomas**

North Carolina A&T University, Greensboro, NC, United States of America;  
[enmaduakor@aggies.ncat.edu](mailto:enmaduakor@aggies.ncat.edu)

### **Food Insecurity Determinants Amidst The COVID-19 Pandemic: An Insight from Huntsville, Texas.**

**Peter Temitope Agboola, Lawrence Art Wolfskill**

Sam Houston State University, United States of America; [teetop32000@gmail.com](mailto:teetop32000@gmail.com)

## AGRICULTURAL ECONOMICS

### **Funding Sustainable Agriculture Research and Education: Evidence from Southern SARE**

**Maria Bampasidou<sup>1</sup>, Janie Chapin<sup>2</sup>**

<sup>1</sup>Louisiana State University AgCenter, United States of America; <sup>2</sup>Louisiana State University, United States of America; [jchapi1@lsu.edu](mailto:jchapi1@lsu.edu)

### **Factors Determining Adoption of New Agricultural Technologies by Farmers in Uganda and Malawi**

**Andrew Akeil Miller, Michée Arnold Lachaud**

Florida Agricultural and Mechanical University, United States of America; [andrew2.miller@famu.edu](mailto:andrew2.miller@famu.edu)

### **Developing Region Prevented Planting Coverage Factors by Crop and Coverage Level**

**Jacob Eicher, Christopher N. Boyer, Eunchun Park, S. Aaron Smith, William Maples, Chad Hellwinckel**

University of Tennessee, United States of America;  
[jacmeich@vols.utk.edu](mailto:jacmeich@vols.utk.edu)

### **Dynamic Relationships between Stock and Agricultural Commodity Markets: Do Crises Matter?**

**Junior Enrique Betanco Gunera**

Louisiana State University, United States of America;  
[jbetan4@lsu.edu](mailto:jbetan4@lsu.edu)

### **Economic Analysis of Furrow Irrigated Rice (FIR) and Flooded Rice Production System in Arkansas**

**Ranjitsinh Mane<sup>1</sup>, Digvijay Mohite<sup>2</sup>**

<sup>1</sup>University of Arkansas at Pine Bluff, United States of America; <sup>2</sup>University of Arkansas at Pine Bluff, United States of America; [mohited2468@uapb.edu](mailto:mohited2468@uapb.edu)

### **Precise Nitrogen Recommendations Improve Economic and Environmental Outcomes in Arkansas Rice Production**

**Cris Roberts, Lawton Lanier Nalley, Alvaro Durand-Morat, Aaron Shew**

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

### **Prevented plant and regional variations in moral hazard incentives and climate change implications**

**Nicolas Enrique Alvarez**

Louisiana State University, United States of America;  
[nalvar9@lsu.edu](mailto:nalvar9@lsu.edu)

## AGRICULTURAL ECONOMICS

### **Profitability of Bermudagrass Stockpiling and Planted Pasture in Cow-Calf Operations**

**Jacob R. Sestak<sup>1</sup>, B. Wade Brorsen<sup>1</sup>, Jon T. Biermacher<sup>2</sup>, James K. Rogers<sup>2</sup>**

<sup>1</sup>Oklahoma State University, United States of America; <sup>2</sup>Noble Research Institute, United States of America; [jacob.sestak@okstate.edu](mailto:jacob.sestak@okstate.edu)

### **The Effect of Cooperatives and Farmer Organizations on Farmers Outcomes: A Systematic Review and Meta-Analysis**

**Elizabeth Tabares<sup>1</sup>, Ariun Ishdorj<sup>2</sup>, Roger Norton<sup>1</sup>**

<sup>1</sup>Borlaug Institute for International Agriculture, Texas A&M University, United States of America; <sup>2</sup>Department of Agricultural Economics, Texas A&M University, United States of America; [elizabeth.tabaresvil@ag.tamu.edu](mailto:elizabeth.tabaresvil@ag.tamu.edu)

### **The Effect of Practice Testing, Distributed Practice, and Attendance on Exam Scores**

**Nathan Kemper**

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

### **The Effect of SNAP Benefit-Decrease on Time Use in Grocery Shopping by Low-Income Women**

**Ummey Honey**

Auburn University, United States of America; [uzh0003@auburn.edu](mailto:uzh0003@auburn.edu)

### **The Effects of Egoism, Altruism, and Information on the Willingness to Pay for Sustainability Credence Attributes for Coffee**

**Katherine Fuller, Carola Grebitus**

Arizona State University, United States of America; [kramir28@asu.edu](mailto:kramir28@asu.edu)

### **The Impact of the United States and Colombia Free Trade Agreement (FTA) on crime growth in Colombia**

**Edgar Marcillo**

University of Florida, United States of America; [emarcillovepez@ufl.edu](mailto:emarcillovepez@ufl.edu)

### **The Implications of COOL on Chinese Consumer's Perception of Domestic and Imported Beef Products**

**Paulina Aceves<sup>1</sup>, Ally Finkbeiner<sup>1</sup>, Karen DeLong<sup>2</sup>, Shijun Gao<sup>1</sup>, Carola Grebitus<sup>1</sup>, Graciela Martinez<sup>1</sup>, Andrew Muhammad<sup>2</sup>**

<sup>1</sup>Arizona State University, United States of America; <sup>2</sup>University of Tennessee, United States of America; [shijun.gao@asu.edu](mailto:shijun.gao@asu.edu)

## AGRICULTURAL ECONOMICS

### **The Potential Economic Effects of COVID-19 on the Texas Horse Show Industry**

**Dean Alexander McCorkle<sup>1</sup>, Chelsie Huseman<sup>1</sup>, Neely Walker<sup>2</sup>, Dan Hanselka<sup>1</sup>, Melissa Carter<sup>2</sup>, Jennifer Zoller<sup>2</sup>**

<sup>1</sup>Texas A&M University, United States of America; <sup>2</sup>Louisiana State University, United States of America; [d-mccorkle@tamu.edu](mailto:d-mccorkle@tamu.edu)

### **To be a relief veterinarian, is it a relief?**

**Charlotte Hansen**

American Veterinary Medical Association; [chansen@avma.org](mailto:chansen@avma.org)

### **Understanding the Determinates of Female Empowerment in Mozambique**

**Sara Gardner, Sarah Brasche, Lexi Burris, Juliann Phillips, Amy Farmer, Lawton Nalley**  
University of Arkansas, United States of America; [sg061@uark.edu](mailto:sg061@uark.edu)

### **University of Tennessee Agribusiness Academy: Developing Tennessee Secondary Teachers' Agribusiness Content Knowledge**

**Christopher N. Boyer, Christopher T. Stripling, Karen L. DeLong, Kendall Martin**

University of Tennessee, United States of America; [cboyer3@utk.edu](mailto:cboyer3@utk.edu)

### **Using Timely Assessment to Improve Agribusiness Program Outcomes**

**Joey Mehlhorn, Rachna Tewari, Anthony Delmond, J. Ross Pruitt, Scott Parrott**

University of Tennessee at Martin, United States of America; [mehlhorn@utm.edu](mailto:mehlhorn@utm.edu)

### **Utilizing QuickBooks Financial Accounting Software to Improve Producer Decision Making**

**DeDe Jones, Will Keeling**

Texas A&M AgriLife Extension, United States of America; [dlijones@ag.tamu.edu](mailto:dlijones@ag.tamu.edu)

### **Whole Farm Economic Analysis of Herbs Grown in Southeastern United States**

**Naila L. McCraney, Michee Lachaud**

Florida A&M University, United States of America; [naila1.mccraney@famu.edu](mailto:naila1.mccraney@famu.edu)

## AGRICULTURAL ECONOMICS

### SP24: Natural Resource/Environmental Economics 1

*Time:* Tuesday, 15/Feb/2022: 3:30pm - 5:00pm · *Location:* Napoleon C3

Session Chair, Naveen Adusumilli, Louisiana State University

### Sectoral Electricity Demand Dynamic Evolution in Louisiana: A Time-Varying Parameter Approach

**Tej Gautam<sup>1</sup>, Krishna Paudel<sup>2</sup>, Tan Ying<sup>3</sup>**

<sup>1</sup>Tuskegee University; <sup>2</sup>Louisiana State University (LSU) and LSU Agricultural Center; <sup>3</sup>South China Agricultural University; [tejgtm1@gmail.com](mailto:tejgtm1@gmail.com)

### Can Biomass Save Coal and the Environment?

**Chong Zhao<sup>1</sup>, Gregory Colson<sup>1</sup>, Michael Wetzstein<sup>1,2</sup>**

<sup>1</sup>Department of Agricultural and Applied Economics, University of Georgia, United States of America;

<sup>2</sup>Department of Agricultural Economics, Purdue University, United States of America; [cz45245@uga.edu](mailto:cz45245@uga.edu)

### Impacts of Energy and Ethanol Price Shocks on U.S. Agriculture: a Partial Equilibrium Approach

**Chenyang Hu, Darrell Bosch, Wei Zhang**

Virginia Tech, United States of America; [huchenyang@vt.edu](mailto:huchenyang@vt.edu)

### Moral Hazard in Agricultural Conservation Programs

**Santosh Pathak, Hua Wang, Naveen Adusumilli**

Louisiana State University, United States of America; [spath11@lsu.edu](mailto:spath11@lsu.edu)

### Assessing the Impact of Sustainable Aviation Fuel Grand Challenge on U.S. Agricultural Market

**T. Edward Yu, Chad Hellwinckel, Burton C. English**

University of Tennessee, United States of America; [tyu1@utk.edu](mailto:tyu1@utk.edu)

### Impact of Forest Harvesting Schemes on Woody Biomass Supply Chains for Sustainable Aviation Fuel Production in Tennessee

**Luis Vizcaya, T. Edward Yu, Burton C. English, James A. Larson, Carlos Trejo-Pech**

University of Tennessee, United States of America; [tyu1@utk.edu](mailto:tyu1@utk.edu)

## AGRICULTURAL ECONOMICS

### Techno-economic analysis of two woody biomass preprocessing technologies for biofuel production

**Carlos Omar Trejo-Pech, T. Edward Yu, James A. Larson, Burton C. English**

The University of Tennessee, United States of America; [ctrejope@utk.edu](mailto:ctrejope@utk.edu)

### SP25: Risk Management

*Time:* Tuesday, 15/Feb/2022: 3:30pm - 5:00pm · *Location:* Napoleon C1

*Session Chair:* Aaron Smith, University of Tennessee

### Crop Insurance, Fertilizer Use and Crop Yields

**Ekene Aguegboh<sup>1</sup>, Joel Cuffey<sup>1</sup>, Ruiqing Miao<sup>1</sup>, Adam Rabinowitz<sup>1</sup>, Chaoqun Lu<sup>2</sup>**

<sup>1</sup>Auburn University; <sup>2</sup>Iowa State University; [esa0013@auburn.edu](mailto:esa0013@auburn.edu)

### Are Drought and Excess Moisture Crop Insurance Indemnities to Tennessee Corn Producers Increasing or Decreasing Over Time?

**Jordan Peterson, S. Aaron Smith, Charley Martinez, Christopher N. Boyer, Jada M. Thompson**

University of Tennessee Knoxville, United States of America; [jpeter61@vols.utk.edu](mailto:jpeter61@vols.utk.edu)

### Does Government Funding Reduce Nonpoint Source Pollution from Agriculture?

**Amer Al-Sudani, Krishna Paudel, Lawson Connor, Huizhen Niu**

Louisiana State University Agricultural center, United States of America; [aalsudani@agcenter.lsu.edu](mailto:aalsudani@agcenter.lsu.edu)

### Can cover crops reduce drought-induced crop yield losses? A crop insurance indemnity approach.

**Rajan Dhakal, Lawson Connor**

Louisiana State University, United States of America; [rdhakal1991@gmail.com](mailto:rdhakal1991@gmail.com)

### Resilience of Grain Storage Markets to Upheaval in Futures Markets

**Emma Hayhurst, Wade Brorsen**

Oklahoma State University, United States of America; [emma.hayhurst@okstate.edu](mailto:emma.hayhurst@okstate.edu)



## AGRICULTURAL ECONOMICS

**Risk Analysis of Agricultural Food Companies and Comparison of Capital Asset Pricing Model and Fama-French Model: An Empirical Evidence**

**Bishal Gaire<sup>1</sup>, Yangxuan Liu<sup>1</sup>, Michael Langemeier<sup>2</sup>, Greg Colson<sup>1</sup>**

<sup>1</sup>University of Georgia, United States of America;

<sup>2</sup>Purdue University, United States of America;

[bg83761@uga.edu](mailto:bg83761@uga.edu)

**Rainfed Wheat Production and Crop Insurance Choices**

**A. Leann Westbrook, Dayton M. Lambert, Amy D. Hagerman, Lixia H. Lambert, Eric A. DeVuyst**

Oklahoma State University, United States of America; [leann.westbrook@okstate.edu](mailto:leann.westbrook@okstate.edu)

**SP26: Specialty Crops and Value-Added Products**  
2

*Time:* Tuesday, 15/Feb/2022: 3:30pm - 5:00pm · *Location:* Napoleon A1

Session Chair: Sreedhar Upendram, University of Tennessee

**Consumer's willingness to pay premium for goat and sheep meat: A case from Florida**

**Meri Hambaryan, Bachir Kassas, John Lai**

University of Florida, United States of America; [m.hambaryan@ufl.edu](mailto:m.hambaryan@ufl.edu)

**Texas Consumers' Preferences and Willingness to Pay for locally Grown Tomatoes**

**Samuel D. Zapata**

Texas A&M University, United States of America; [samuel.zapata@ag.tamu.edu](mailto:samuel.zapata@ag.tamu.edu)

**Factors Affecting Mobile Farmers' Market Sales Performance**

**Alejandro Bernal, Ram Acharya**

New Mexico State University- Las Cruces, United States of America; [abernal@nmsu.edu](mailto:abernal@nmsu.edu)

**How Far is Local? Tennessee Consumer Perceptions About Travel Distance for Milk and Dairy Products**

**Kimberly Jensen, Karen DeLong, Sreedhar Upendram, Liz Eckelkamp, Samuel Gerloff**

University of Tennessee, United States of America; [kjensen@utk.edu](mailto:kjensen@utk.edu)

## AGRICULTURAL ECONOMICS

**What Makes CSAs Special?: An Analysis of What Makes Customers Choose to Join Community Supported Agriculture**

**Frank Seo, Darren Hudson**

Texas Tech University, United States of America; [frank.dw.seo@ttu.edu](mailto:frank.dw.seo@ttu.edu)

**Factors affecting the farmers' decisions on marketing channels: A case from small farmers in Tennessee**

**Aditya Raj Khanal<sup>1</sup>, Isaac Sitienei<sup>2</sup>, Reginald Holland<sup>3</sup>**

<sup>1</sup>Tennessee State University, Nashville, TN.; <sup>2</sup>Austin Peay State University, Clarksville, TN.; <sup>3</sup>Tennessee State University, Nashville, TN.; [sitieneii@apsu.edu](mailto:sitieneii@apsu.edu)

**~~On-Farm Decisions and Outcomes: How Management Practices Affect Soil Health and Crop Yields~~**

**Alex McLain, Deepthi Kolady**

South Dakota State University, United States of America; [Alex.McLain@sdstate.edu](mailto:Alex.McLain@sdstate.edu)

**SP27: Food Insecurity**

*Time:* Tuesday, 15/Feb/2022: 3:30pm - 5:00pm · *Location:* Napoleon C2

*Session Chair:* Maria Bampasidou, Louisiana State University

**Are There Racial Disparities of Diabetes Control among SNAP Participants**

**Saber Feizy<sup>1</sup>, Shuoli Zhao<sup>1</sup>, Joel Cuffey<sup>2</sup>, Bhagyashree Katare<sup>3</sup>**

<sup>1</sup>University of Kentucky, United States of America;

<sup>2</sup>Auburn University, United States of America;

<sup>3</sup>Purdue University, United States of America;

[Saberfeizy@uky.edu](mailto:Saberfeizy@uky.edu)

**Agricultural commercialization and nutrition: evidence from smallholder coffee farmers**

**Joanna van Asselt**

University of Florida, United States of America; [joannavanasselt@ufl.edu](mailto:joannavanasselt@ufl.edu)

**Factors Affecting Food Insecurity in the South**  
**Macey M. Hammerstrom, Pourya Valizadeh, Joe L. Outlaw, Bart L. Fischer**

Texas A&M University, United States of America; [maceyhammerstrom@tamu.edu](mailto:maceyhammerstrom@tamu.edu)

## AGRICULTURAL ECONOMICS

### Financial Liquidity Constraint and Food Insecurity

**Abhipsita Das**<sup>1</sup>, **Joel Cuffey**<sup>2</sup>

<sup>1</sup>Auburn University, United States of America;

<sup>2</sup>Auburn University, United States of America;  
[azd0083@auburn.edu](mailto:azd0083@auburn.edu)

### Empirical Assessment of Sub-Set Probabilistic Graphical Models in a Complex Economic System: An Application to the U.S. Food Environment

**Senarath Dharmasena**

Texas A&M University, United States of America;  
[sdharmasena@tamu.edu](mailto:sdharmasena@tamu.edu)

### Feeding Schools: F2S Producer Participation and Perceptions

**Whitney R McKinzie**, **Maria Bampasidou**

Louisiana State University, United States of America;  
[wmckin3@lsu.edu](mailto:wmckin3@lsu.edu)

### Effects of Scarcity and Cognitive Load on Economic Decision-Making

**Shuoli Zhao**<sup>1</sup>, **Michelle Segovia**<sup>2</sup>, **Rodolfo Nayga**<sup>3</sup>

<sup>1</sup>University of Kentucky, United States of America;

<sup>2</sup>University of Missouri - Columbia, United States of America; <sup>3</sup>Texas A&M University, United States of America; [szhao@uky.edu](mailto:szhao@uky.edu)

## AGRICULTURAL EDUCATION

### SOUTHERN REGION CONFERENCE OF THE AMERICAN ASSOCIATION FOR AGRICULTURAL EDUCATION (AAAE)

**Saturday, February 12, 2022**

4:00-6:00 Registration

Napoleon Foyer

**Sunday, February 13, 2022**

8:00-10:00 Registration - Breakfast on your own

Napoleon Foyer

9:00-10:00 Ag Ed Opening Session

Nottoway

10:15-11:45 Research Session I

#### **Napoleon B2 – Session A**

The Intersection of Gender, Media, and Policy: An Analysis on Thai Newspaper Coverage of Women in Agriculture, Dr. Morgan A. Richardson Gilley, Dr. Richie Roberts, Dr. Kristin S. Stair, Dr. J. Joey Blackburn

Troubling the Discourse on Global Agricultural Extension: A Feminist Critique of Gender Inequalities in Southeast Asia and Sub-Saharan Africa, Dr. Morgan A. Richardson Gilley, Dr. Richie Roberts, Dr. J. Joey Blackburn, Dr. Kristin S. Stair

From Privilege to Advocacy: The Cultural Growth Experienced by Secondary Agricultural Education Teachers During an International Experience to Costa Rica, Abigail Greer, Nicholas P. Uzee, Korie A. Burgess, Dr. Richie Roberts, Dr. Kristin Stair, Dr. Joey Blackburn

The One-Way (Agri)Cultural Mirror: A Case Study of How Young Agricultural Leaders Understand and Experience Culture, Janiece M. Pigg, Dr. Kristin S. Stair, Dr. Richie Roberts, Dr. Joey Blackburn

#### **Oak Alley – Session B**

Selected Factors Influencing College of Agriculture Student Retention, Tyler Granberry, J. Joey Blackburn, H. Eric Smith, Kristin S. Stair, Richie Roberts

Relationships among Achievement Goal Orientation and Self-Efficacy in College of Agriculture Courses, Christopher M. Estep, Addison Beckham, Alyssa J. Rohr, Henry O. Akwah, Donald M. Johnson

## AGRICULTURAL EDUCATION

A Ten-Year View of Georgia Agriculture Teacher Attrition and Mobility, Dr. Jason Peake, Dr. Eric Rubenstein, Dalton Green

Critical Issues Facing Georgians: An Application of the Delphi Technique and Community Capitals Framework, Alyssa Powell, Dr. Kevan W. Lamm

### **Napoleon B1 – Session C**

Qualitative Analysis of South Carolina 4-H Programming during COVID-19 Pandemic, Lauren B. Hood, Christopher J. Eck, K. Dale Layfield, Joseph L. Donaldson

To Stay or Leave: Job Embeddedness among Cooperative Extension Agents, Megan Wells, Anika Parks, Jefferson D. Miller, Donna Graham, Casandra Cox

Defining Work-Life Balance of Work-Linked Spouses in Agricultural and Extension Education: A Pilot Study in Qualitative Content Analysis, Dr. Travis Park, Alyssa Spence

Storying Outdoor Youth Education: A Historical Narrative of the [State] 4-H Camping Movement, Adam M. O'Malley, Dr. Richie Roberts

12:00-1:30 Lunch on Your Own

1:30-3:00 Research Session II

### **Edgewood A/B – Session D**

First Steps Toward Developing the Multicultural Autonomous Agricultural Educator, Stacy K. Vincent

Examining Ethnic Identity of Undergraduate Agriculture Majors, Steven Boot Chumbley, Leslie Dominguez, Tyson Sorensen

The Effect of Two Reflective Strategies on Student Multicultural Competency Development during an Online Multicultural Course, Dr. Lauren Lewis Cline, Dr. Penny Pennington Weeks, Dr. William G. Weeks, Dr. J. Shane Robinson, Dr. Karen Hickman

The Relationship of Teacher Expectancy and Secondary Student Performances in Single Sex and Coeducational Classrooms, Stacy K. Vincent & Brett M. Wasden

## AGRICULTURAL EDUCATION

### **Estherwood – Session E**

Personal and Contextual Factors Predicting Agriscience Teaching Self-Efficacy, Dr. Millicent A. Oyugi, Dr. Amy Boren-Alpizar, Dr. David Lawver, Dr. Rudy Ritz, Kamau O. Siwatu, Dr. Alexa J. Lamm

Defining Programmatic Balance: A Modified Delphi Study, Dr. Keith J. Frost, Dr. John Rayfield, Dr. Maggie R.P. Salem, Dr. Will Doss

ESL and ELL Challenges Presented by Early Career Teachers in a Phenomenological Investigation, Dr. Maggie R.P. Salem, Dr. Keith J. Frost, Dr. Will Doss

-  
Investigating the Impacts of a Preservice Agriculture Teacher Recruitment Program using Kirkpatrick's Program Evaluation Model, Hur, G., Barry, D. M., Jagger, C. B., Alford, K. R., Roberts, T. G.

### **Napoleon C3 – Session F (Emerging research)**

The State of Agricultural Mechanics in the Preparation of School-based Agricultural Educators – Tyler Granberry, Louisiana State University

Forecasting the Future Trends of Agricultural Mechanics Education: A Q Methodology Study – Tyler Granberry, Louisiana State University

School-Based Welding Course Learning and Self-Determination Support Interventions for Students with Developmental Disabilities - Maureen Victoria, Texas A&M University

Determining the professional development needs of students using augmented reality welding systems – Brad Borges, Texas State University

Student Perspectives in Agricultural Leadership Education: A Q Methodology Study - Caitlin Dreher, Oklahoma State University

### **Napoleon B3 – Session G (Emerging research)**

Effects of Message Framing and Source of Information About an Alternative Meat Curing System on Information Recall, Trust, and Anticipated Purchase Behavior, Matt Baker, Texas A&M University

Exploring the Mentoring and Advising Experiences of Black Women Doctoral Candidates in AgLS Disciplines, Torrie Cropps, University of Texas at Dallas

## AGRICULTURAL EDUCATION

Best Practices for Mentoring: Cooperating Teacher & Student Teacher Perspectives, Deb Barry, University of Florida

Examining High School Senior FFA Members College and Career Readiness, James Scott, University of Georgia

Pronoun Preparedness of Preservice School-Based Agricultural Education Teachers: Analysis of Their Knowledge and Preparedness Regarding Gender Pronouns, Tyler Price, Oklahoma State University

2:45-4:00 Innovative Poster Session  
Napoleon Foyer

4:00 SAAS General Business Meeting  
Borgne

5:00 Super Bowl Party – Grand Ballroom  
A/B/C (5<sup>th</sup> Floor) – Sheraton

### **Monday, February 14, 2022**

8:00-10:00 Registration  
Napoleon Foyer

7:30-9:00 Grad Student Breakfast  
Napoleon C3

9:00-10:30 Research Session III

### **Napoleon B1 – Session H**

Purposeful STEM Integration in School-Based Agricultural Education Programs, Christopher J. Eck, Kristopher Rankin III, and J. Shane Robinson

Effects of an Instructional Treatment on the Interest, Self-Efficacy, and Knowledge of Novice Arduino Users, G. T. Hood, D. M. Johnson, M. L. Pate, C. M. Estep, & G. W. Wardlow

Internal Vs External Locus of Control's Effect On Learning Type In Agricultural Mechanics, Jason D. McKibben, Kelly Holler, Christopher A Clemons, James R Lindner

School-Based Agricultural Education Teachers' Current Level of STEM Integration, Christopher J. Eck and Nathan Smith

## AGRICULTURAL EDUCATION

### **Napoleon B2 – Session I**

Was #EndSpeciesism a Fumble? An Investigation of the Public's Perceptions of PETA's Message Framing Strategy During Super Bowl LIV, Rexanna Powers, Dr. Richie Roberts, Dr. Taylor K. Ruth

A Historical Examination of Food Labeling Policies and Practices in the United States: Implications for Agricultural Communications, Rexanna Powers, Dr. Richie Roberts

Predicting Agricultural Sciences Students' Media Literacy in a Post-Truth Era, Abigail Durham, Kasey Harmon, Dr. Taylor Ruth, Dr. Nathan Conner, & Dr. Cara Lawson

Perception of Alabama and Georgia Local CTE Administration on Integration of Employability Skills into Agricultural Education, Dr. John William Norris, Dr. Kirk A. Sworzel

### **Oak Alley – Session J**

Perceptions of an Agricultural Literacy Professional Development Program for Teachers, Shannon K. Allen, Casey M. Moss, Carley C. Morrison, Stephanie M. Lemley

Exploring the Culture of the Agriculture Industry, Maegan Meredith

Female Agriculture Teachers Lived Experiences and Perceived Professional Development Needs when Teaching Students with Special Needs, Ms. Raegan Ramage, Dr. Kristin Stair, Dr. Richie Roberts, Dr. J. Joey Blackburn

Secondary Agricultural Education Instructors Perceived Importance and Ability when Accommodating Students with Special Needs, Ms. Raegan Ramage, Dr. Kristin Stair, Dr. J. Joey Blackburn, Dr. Richie Roberts

10:45-11:45 AAEE Business Meeting Session  
Napoleon B2

Noon-1:30 Luncheon and Distinguished Lecture  
Bayside ABC

1:30-3:00 Research Poster Session  
Napoleon Foyer

3:15-4:30 Professional Development Panel  
Napoleon B2

## AGRICULTURAL EDUCATION

Engaging with Research Participants in a Time of Crisis: How can we be thoughtful and strategic?

5:00 Explore the City Tour & Social Activity  
Across New Orleans

### Tuesday, February 15, 2022

8:00-9:00 AM Business Session  
Napoleon A2/A3

9:15-12:00 Brunch  
Distinguished Manuscript Presentations  
Napoleon A2/A3  
Award Ceremony

The Effects of Single-Sex Classrooms Compared to Coeducational Classrooms on Secondary Student Career Interest, Brett M. Wasden, Stacy K. Vincent, Eric M. Moser – University of Kentucky

The Effects of Survey Response Mode and Incentives on Response Rates, Dr. Will Doss, Dr. John Rayfield, Dr. David Lawver, Dr. Scott Burris – Texas A&M University-Commerce, Texas Tech University

Identifying Challenges Faced by School-Based Agricultural Education Teachers, Dr. Will Doss, Dr. John Rayfield, Dr. David Lawver – Texas A&M University-Commerce, Texas Tech University

Evaluation of Cultural Diversity in Secondary Agricultural Textbooks, Tara E. Rojas & Stacy K. Vincent – University of Kentucky

Casting a Critical Lens on Thailand's Higher Education System: A Case Study of Women's Experiences as Agricultural Extension Faculty, Dr. Morgan A. Richardson Gilley, Dr. Richie Roberts, Dr. Kristin S. Stair, Dr. J. Joey Blackburn – Louisiana State University

## AGRONOMY

### Southern ASA Annual Meeting Program 2022

#### SATURDAY, FEBRUARY 12, 2022

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: Napoleon Foyer – Third Floor

#### UNDERGRADUATE STUDENT POSTER COMPETITION - CROPS AND SOILS

1. Evaluating Soil Quality Indicators in Non-Organic and Organic Farming Systems.  
**Matthew Fowler**, Murray State Agronomy Club, Lebanon, KY and Iin P. Handayani, Hutson School of Agriculture, Murray State University, Murray, KY
2. Capturing NDVI Using GreenSeeker and UAS to Identify How N Fertility and Seeding Rate Differences Impact Yield in Late-Planted Corn.  
**Luther Dunlap Altman**, Department of Agriculture, Abraham Baldwin Agricultural College, Tifton, GA, United States
3. Optimal Nitrogen Fertilizer Rates between Various Planting Populations in Late-Planted Corn.  
**Amara White**, Abraham Baldwin Agricultural College, Tifton, GA
4. Teffgrass Tolerance to Post-Emergence Herbicide Applications.  
**Brody Hamm**, Mississippi State University, Mississippi State, MS and Rocky W. Lemus, Mississippi State University, Mississippi State, MS

#### GRADUATE STUDENT POSTER COMPETITION – M.S. STUDENTS

5. Grazing and tillage effect on cover crop and soybean performance in an integrated crop-livestock system.  
**Forrest Davis**, Coastal Plain Branch Experiment Station, Mississippi State, MS and Brett Rushing, Coastal Plain Experiment Station, Mississippi State University, Newton, MS
6. Eliminating the Effects of Secondary Dormancy in Leguminous Cover-Crops.  
**Jared McLaurin**, Plant and Soil Sciences, Mississippi State University, Mississippi State, MS

## AGRONOMY

7. Breeding for Tolerance to Blast (*Pyricularia oryzae*) on Early Planted Annual Ryegrass.  
**Calyn Adams**, Plant and Soil Sciences, Mississippi State University, Mississippi State, MS
8. Impact of Nitrogen and Sulfur Application to Yield and Quality of Mississippi Corn.  
**Ramandeep Kumar**, Mississippi State University, Starkville, MS, Camden Oglesby, Plant and Soil Sciences, Mississippi State University, Starkville, MS, James Dew, Plant and Soils Science, Mississippi State University, Shannon, MS, Krishna Reddy, USDA ARS, Stoneville, MS, Xiaofei Li, Agricultural Economics, Mississippi State University, Mississippi State, MS, Gurpreet Kaur, Delta Research and Extension Center, Mississippi State University, Stoneville, MS and Jagmandeep Singh Dhillon, Plant and Soil Sciences, Mississippi State University, Mississippi State, MS
9. Soil Carbon and Nitrogen Mineralization Are Affected by Tillage and Cover Cropping in an Organic Cotton System in Texas.  
**Parker Murphree**, Texas A&M University, Weatherford, TX and Jake E. Mowrer, Soil and Crop Sciences, Texas Agrilife Extension Service, College Station, TX
10. Post Flowering Heat and Drought Stress Effects on Yield and Quality in Corn.  
**Ranadheer Reddy Vennam**, Department of Plant and Soil Sciences, Mississippi State, MS, Raju Bheemanahalli, Mail Stop 9555, Mississippi State University, Mississippi State, MS, Sadikshya Poudel, Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, David Brand, Room 117, Dorman Hall, Mississippi State University, Mississippi State, MS and K. Raja Reddy, Department of Plant & Soil Sciences, Mississippi State University, Mississippi State, MS
11. Drought Stress Effects on Soybean Pollen Germination, Physiology, and Yield.  
**Sadikshya Poudel**, Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, Raju Bheemanahalli, Mail Stop 9555,

## AGRONOMY

- Mississippi State University, Mississippi State, MS, Ranadheer Reddy Vennam, Department of Plant and Soil Sciences, Mississippi State, MS and K. Raja Reddy, Department of Plant & Soil Sciences, Mississippi State University, Mississippi State, MS
12. Effect of Cover Crops and Grazing on Soil Microbial Community Composition, Function, and Soil Health in East-Central Mississippi Row Crop Production Systems.  
**Namita Sinha**<sup>1</sup>, Brett Rushing<sup>2</sup>, William Kingery<sup>3</sup>, Michael S Cox<sup>1</sup> and Shankar Ganapathi Shanmugam<sup>4</sup>, (1) Plant and Soil Sciences, Mississippi State University, Starkville, MS, (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
  13. Genetic and Phenotypic Diversity in Bermudagrass (*Cynodon* spp.).  
**Lovepreet Singh**<sup>1</sup>, Yanqi Wu<sup>2</sup>, James D McCurdy<sup>3</sup>, Barry R. Stewart<sup>3</sup>, Brian S. Baldwin<sup>3</sup> and Hongxu Dong<sup>3</sup>, (1) Mississippi State University, Mississippi State, MS, (2) Department of Plant and Soil Sciences, Oklahoma State University, Stillwater, OK, (3) Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS
  14. Effects of Drought Treatments on Arthropod Populations in Floral Hemp over the Reproductive Cycle.  
**Gary Wayne Morgan Jr.**, Auburn University, Auburn, AL
  15. Managing Iron Deficiency Chlorosis (IDC) through a Cropping System Approach.  
**Katelin Waldrep**<sup>1</sup>, Mary Love Tagert<sup>1</sup>, Justin McCoy<sup>2</sup>, Mark P. Harrison<sup>2</sup> and Andy R. Taylor<sup>2</sup>, (1) Agricultural and Biological Engineering, Mississippi State University, Mississippi State, MS, (2) North Mississippi Research and Extension Center, Mississippi State University, Verona, MS

## AGRONOMY

### GRADUATE STUDENT POSTER COMPETITION – Ph.D. STUDENTS

16. Designing Efficient Organic Grain Rotation Systems for Soil Health and Crop Productivity in Tennessee.  
**Ravi Teja Kumar Neelipally**, University of Tennessee-Knoxville, Louisville, TN, Debasish Saha, Biosystems Engineering and Soil Science, University of Tennessee-Knoxville, Knoxville, TN, Shawn A. Hawkins, Biosystems Engineering and Soil Science, University of Tennessee – Knoxville, Knoxville, TN, Song Cui, Middle Tennessee State University, Murfreesboro, TN and Sindhu Jagadamma, 2506 E.J. Chapman Drive, University of Tennessee-Knoxville, Knoxville, TN
17. Influence of Organic Grain Production Systems on Soil Nitrous Oxide Gas Emissions.  
**Arjun Chhetri**, Biosystems Engineering and Soil Science, University of Tennessee, Knoxville, Knoxville, TN, Debasish Saha, Biosystems Engineering and Soil Science, University of Tennessee-Knoxville, Knoxville, TN and Sindhu Jagadamma, 2506 E.J. Chapman Drive, University of Tennessee-Knoxville, Knoxville, TN
18. Cover Crops for Weed Management in Cotton.  
**Yogendra Upadhyaya**, Highway 182, University of Florida, Milton, FL, Pratap Devkota, West Florida Research and Education Center, Jay, FL, Michael J. Mulvaney, Highway 182, University of Florida West Florida Research & Education Center, Jay, FL, William Hammond, Agronomy, University of Florida, Gainesville, FL and Haimanote Bayabil, Agricultural and Biological Engineering, University of Florida, Homestead, FL
19. Lint Yield and Fiber Quality as Affected by Various Physiological Parameters and within Yield Components in Advanced Cotton Genotypes.  
**Gurpreet Virk**<sup>1</sup>, John Snider<sup>1</sup>, Peng Chee<sup>2</sup>, Simerjeet Virk<sup>3</sup>, Navneet Kaur<sup>4</sup> and Ved Parkash<sup>4</sup>, (1) University of Georgia-Tifton, Tifton, GA, (2) University of Georgia, Tifton, GA, (3) Crop and Soil Sciences, University of Georgia-Tifton, Tifton, GA, (4) University of Georgia, Tifton, GA

## AGRONOMY

20. Impact of Cotton Leafroll Dwarf Virus on Photosynthetic Processes and Yield of Cotton.  
**Ved Parkash**<sup>1</sup>, Divya Bhanu Sharma<sup>2</sup>, John Snider<sup>3</sup>, Sudeep Bag<sup>2</sup>, Phillip Roberts<sup>2</sup>, Afsha Tabassum<sup>2</sup>, Dalton West<sup>2</sup>, Sameer Khanal<sup>4</sup>, Nelson Dias Suassuna<sup>2</sup> and Peng Chee<sup>2</sup>, (1) University of Georgia, Tifton, GA, (2) University of Georgia, Tifton, GA, (3) University of Georgia-Tifton, Tifton, GA, (4) Crop and Soil Science, University of Georgia, Athens, GA
21. Winter Cash Cover Crop Effects on Subsequent Summer Crop Production and Vice Versa.  
**Joseph Enye Iboyi**, University of Florida, Milton, FL, Michael J. Mulvaney, Highway 182, University of Florida West Florida Research & Education Center, Jay, FL, Kipling S. Balkcom, USDA-ARS, Auburn, AL, Ramon G. Leon, Crop and Soil Sciences, North Carolina State University, Raleigh, NC, Mahesh Bashyal, Bldg 4900, University of Florida, Milton, FL, Pratap Devkota, West Florida Research and Education Center, Jay, FL and Ian M Small, North Florida Research and Education Center, University of Florida, Quincy, FL
22. Carinata C and N Mineralization Dynamics Under Different Residue Loads and Tillage Practices.  
**Mahesh Bashyal**, University of Florida, Milton, FL, Michael J. Mulvaney, Highway 182, University of Florida West Florida Research & Education Center, Jay, FL, Ramdeo Seepaul, North Florida Research and Education Center, North Florida Research & Education Center, Quincy, FL, Joseph Enye Iboyi, University of Florida, Milton, FL, Sheeja George, North Florida Research and Education Center, University of Florida, Quincy, FL, Gabriel Maltais-Landry, Soil and Water Sciences Department, University of Florida, Gainesville, FL, Ramon G. Leon, Crop and Soil Sciences, North Carolina State University, Raleigh, NC, Chris H. Wilson, Department of Agronomy, University of Florida, Gainesville, FL and Kenneth J. Boote, Agric. and Biol. Engr. Dept., University of Florida, Gainesville, FL

## AGRONOMY

### PROFESSIONAL POSTER – CROPS

23. Evaluation of Teffgrass Cultivars as a Fall Forage in Mississippi.  
Brody Hamm, Mississippi State University, Mississippi State, MS and **Rocky W. Lemus**, Mississippi State University, Mississippi State, MS
24. Changing the Look of Row Crop Extension Winter Programs; Life during Covid in 2021.  
**Ethan Carter**, UF/IFAS Extension, Marianna, FL, Libbie Johnson, Escambia County Extension, Cantonment, FL, Jennifer Bearden, UF/IFAS Extension, Crestview, FL and Danielle Sprague, UF/IFAS Extension, Monticello, FL
25. Winter Fallow to Cover Crops: Local Farmers Transition to Test Theories on-Farm.  
Libbie Johnson, Escambia County Extension, Cantonment, FL, **Ethan Carter**, UF/IFAS Extension, Marianna, FL, Michael J. Mulvaney, Highway 182, University of Florida West Florida Research & Education Center, Jay, FL, Yogendra Upadhyaya, Highway 182, University of Florida, Milton, FL and Drew Schrimsher, Auburn University, Auburn, AL
26. Influence of Management and Climate on Carbon Balance and Its Seasonality across.  
**Dorothy Menefee**, Agronomy, USDA-ARS Grassland Soil & Water Research Lab, Temple, TX, Russell Scott, USDA-ARS, Southwest Watershed Research Center, Tuscon, Joseph G Alfieri, Bldg 007, Rm 104, BARC-W, USDA-ARS, Beltsville, MD, Pradeep Wagle, USDA-ARS Grazinglands Research Laboratory, El Reno, OK, Michael Abraha, Kellogg Biological Station, Michigan State University, East Lansing, MI, Andrew E. Suyker, University of Nebraska, Lincoln, NE, Eric S. Russell, Department of Civil and Environmental Engineering, Washington State University, Pullman, WA, John M. Baker, 439 Borlaug, USDA-ARS, St Paul, MN, Paul White, Soil and Water Management Research Unit, USDA-ARS, St. Paul, MN, Gretchen Miller, Civil Engineering, Texas A & M, College Station, TX, Mark A. Liebig, PO Box 459, USDA-ARS, Mandan, ND and Nicanor Saliendra, USDA-ARS, Mandan, ND

## AGRONOMY

27. Corn and Soybean Seeding Rate Evaluation in North Mississippi.  
**Mark P. Harrison**<sup>1</sup>, Justin McCoy<sup>2</sup> and Andy R. Taylor<sup>1</sup>, (1) North Mississippi Research and Extension Center, Mississippi State University, Verona, MS, (2) North Mississippi Research and Extension Center, Mississippi State University, Columbus, MS
28. Evaluation of Nutrient Availability to Cash Crops Following Cover Crops in Mississippi Production Systems.  
**Andy R. Taylor**<sup>1</sup>, Justin McCoy<sup>2</sup>, Mark W. Shankle<sup>3</sup>, Bill Burdine<sup>4</sup> and Mark P. Harrison<sup>1</sup>, (1) North Mississippi Research and Extension Center, Mississippi State University, Verona, MS, (2) North Mississippi Research and Extension Center, Mississippi State University, Columbus, MS, (3) Plant and soil Sciences, Mississippi State University, Pontotoc, MS, (4) North Mississippi Research and Extension Center, Mississippi State University, Mississippi State, MS
29. Winter Grazing Impacts Soil Health and Crop Productivity in Coastal Plain Soils.  
Audrey V. Gamble<sup>1</sup>, **Chris Parker**<sup>2</sup>, Hayley Crowell<sup>3</sup> and Anna Johnson<sup>1</sup>, (1) Crop, Soil and Environmental Sciences, Auburn University, Auburn, AL, (2) Wiregrass Research and Extension Center, Auburn University, Headland, AL, (3) Auburn University, Boca Raton, FL
30. Corn Growth, Leaf Pigments, and Canopy Reflectance Properties in Response to Cover Cropping.  
**Raju Bheemanahalli**<sup>1</sup>, Ardeshir Adeli<sup>2</sup>, Nisarga Kodadinne Narayana<sup>3</sup>, Daniel McCraine<sup>4</sup>, Amrit, Shrestha<sup>4</sup>, Sathish Samiappan<sup>4</sup>, Joby Prince Czarneck<sup>4</sup>, K. Raja Reddy<sup>5</sup> and Robert Moorhead<sup>4</sup>, (1)Mail Stop 9555, Mississippi State University, Mississippi State, MS, (2)Genetics and Sustainable Agriculture Research Unit, USDA-ARS, Mississippi State, MS, (3)Mississippi State University, Mississippi State University, Starkville, MS, (4)Geosystems Research Institute, Mississippi State University, Mississippi State, MS, (5)Department of Plant & Soil Sciences, Mississippi State University, Mississippi State, MS



## AGRONOMY

31. Drought and Heat Stress Effects on Physiology, Pollen Germination, and Leaf Reflectance Properties of Corn.  
**Purushothaman Ramamoorthy**, Geosystems Research Institute, Mississippi State University, Starkville, MS, UNITED STATES, Raju Bheemanahalli, Mail Stop 9555, Mississippi State University, Mississippi State, MS, Nuwan K Wijewardane, Biological Systems Engineering, University of Nebraska Lincoln, Starkville, MS, Sathish Samiappan, Geosystems Research Institute, Mississippi State University, Mississippi State, MS, David Brand, Room 117, Dorman Hall, Mississippi State University, Mississippi State, MS and K. Raja Reddy, Department of Plant & Soil Sciences, Mississippi State University, Mississippi State, MS
32. A Geospatial Decision-Support System for Mississippi Corn Producers.  
**Patrick J. English**, Delta Research & Extension Center, Mississippi State University, Stoneville, MS and Sherri L. DeFauw, Ascend Geospatial LLC, Cleveland, MS
33. Morpho-Physiological Responses of Cotton Cultivars to Reniform Nematode and Soil Phosphorus.  
**Bhupinder Singh**, Mississippi State University, Stoneville, MS, Daryl Chastain, United States Department of Agriculture, Agriculture Research Service, Stoneville, MS and Gurbir Singh, Delta Research and Extension Center, Mississippi State University, Stoneville, MS
34. Assessing Interaction of Row and Irrigation Patterns for Maximizing Water Productivity in Soybean.  
**Bhupinder Singh**, Delta Research and Extension Center, Mississippi State University, Stoneville, MS, Gurbir Singh, Delta Research and Extension Center, Mississippi State University, Stoneville, MS, and Gurpreet Kaur, Delta Research and Extension Center, Mississippi State University, Stoneville, MS.

## AGRONOMY

35. Student Experiential Learning Opportunities with a New Forage Nutrition Laboratory to Expand Research and Outreach in Livestock Communities.  
Isaac Lepcha, Department of Agriculture, Geosciences & Natural Resources, University of Tennessee-Martin, Martin, TN, **Madelyn Holbrook**, Agriculture, Geosciences and Natural Resources, University of Tennessee Martin, Martin, TN, Craig Darroch, University of Tennessee at Martin, Martin, TN, Clint Ary, Agriculture, Geosciences and Natural Resources, University of Tennessee, Martin, TN and Harley D. Naumann, 700 Hitt St, University of Missouri, Columbia, MO
36. Long-Term Cotton Based Crop Rotations Effects on Crop Yields in the Mississippi Delta.  
**Akanksha Sehgal**<sup>1</sup>, Gurbir Singh<sup>2</sup>, Gurpreet Kaur<sup>2</sup>, Jagman Dhillon<sup>3</sup> and M. Wayne Ebelhar<sup>4</sup>, (1) Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, (2) Delta Research and Extension Center, Mississippi State University, Stoneville, MS, (3) Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, (4)82 Stoneville Road, Mississippi State University, Stoneville, MS
37. Understanding and Determining the Impacts of Soybean Taproot Decline (TRD) Disease Severity in Mississippi Delta Farms.  
**Nisarga Kodadinne Narayana**, Mississippi State University, Mississippi State University, Starkville, MS, Daniel Prevost, Southern Ag Consulting, Starkville, William L. Kingery, Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS and Shankar Ganapathi Shanmugam, Plant and Soil Sciences, Mississippi State University, Mississippi State, MS

### **PROFESSIONAL POSTER – SOILS**

38. Impact of Grazing on Soil Health in Integrated Crop-Livestock Systems.  
**Jason Brett Rushing**, Mississippi State University, Newton, MS and Bronson Bass, Mississippi State University, Newton

## AGRONOMY

39. Phosphorus Solubility in Traditional Versus Gypsum Treated Poultry Litter.  
**Debolina Chakraborty**, 201 Funchess Hall, Auburn University, Auburn, AL and Rishi Prasad, Crop, Soil and Environmental Sciences, Auburn University, Auburn, AL
40. Soil Organic Carbon and Fertility in a 17-Year Agroforestry Site.  
**Amanda J. Ashworth**<sup>1</sup>, Helen Amorim<sup>2</sup>, Thomas J. Sauer<sup>3</sup>, Andrew Thomas<sup>4</sup>, Phillip R. Owens<sup>5</sup>, Mary Cathleen Savin<sup>6</sup>, Yuri Zinn<sup>2</sup>, Sérgio Henrique Godinho Silva<sup>7</sup>, Teotonio Soares de Carvalho<sup>8</sup> and Nilton Curi<sup>9</sup>, (1) USDA-ARS PPSRU, Fayetteville, AR, (2) Universidade Federal de Lavras, Brazil, Lavras, Brazil, (3) USDA-ARS National Laboratory for Agriculture and the Environment, Ames, IA, (4) University of Missouri, Mt. Vernon, MO, (5) USDA-ARS, Booneville, AR, (6) Crop, Soil and Environmental Sciences, University of Arkansas, Fayetteville, AR, (7) Soil Science, Universidade Federal de Lavras, Lavras, Brazil, (8) Soil Science, Federal University of Lavras, Lavras, Brazil, (9) Federal University of Lavras, Lavras, Brazil
41. Short-Term Mineralization of Nutrients in Poultry Litter Under Laboratory Incubation.  
**Hanxiao Feng**, Department of crop soil and environmental sciences, Auburn University, Auburn, AL
42. Fertilizer Application Method for Potato Yields and Quality on Sandy Loam Soils in the Mid-Atlantic.  
**Mark S. Reiter** and John Mason, Eastern Shore AREC, Virginia Tech, Painter, VA
43. Coupling the Incidence of Pharmaceuticals in Surface Water with Organic Carbon in East Fork Stones River.  
**Ravneet Kaur**<sup>1</sup>, Anonya Akuley Amenyenu<sup>1</sup>, Karnita Garner<sup>2</sup> and Samuel O. Dennis<sup>1</sup>, (1) Department of Agricultural and Environmental Sciences, Tennessee State University, Nashville, TN, (2) Alabama Cooperative Extension System, Alabama A&M University, Normal, AL

## AGRONOMY

44. Functional Soil Maps to Improve Efficiency in Agroforestry Systems.  
**Phillip R. Owens**, USDA-ARS, Booneville, AR
45. Soil Carbon Sequestration Associated with Common Cropping Systems.  
**Lin P. Handayani**, Presley Woodrum, Corey Haley, Alyx Shultz, Brian Parr and Mallorie Snider, Hutson School of Agriculture, Murray State University, Murray, KY

### SUNDAY, FEBRUARY 13, 2022

Registration: 8:00 AM - 5:00 PM

LOCATION: Napoleon A 2/3 – Third Floor

### GRADUATE STUDENT ORAL COMPETITION – M.S. STUDENTS

7.55 AM - Opening Remarks

8.00 AM Evaluating the Response of Late Planted Corn (*Zea mays* L.) to Different Nutrient Management Schemes in Mississippi.

**Patterson P Hilaire**, Department of Plant Soil Sciences, Mississippi State University, Mississippi State, MS

8.15 AM Impact of Cover Crop Species Diversity on Soil Nutrient Availability and Crop Productivity.

**Amanda Kramer**, Environmental and Soil Science, University of Tennessee - Knoxville, Knoxville, TN and Sindhu Jagadamma, 2506 E.J. Chapman Drive, University of Tennessee-Knoxville, Knoxville, TN

8.30 AM Cover crops in *Saccharum* for Nitrogen and Weed Control.

**Dylan Hollowell**, Mississippi State University, Mississippi State, MS

8.45 AM Evaluation of Soybean (*Glycine max*) Varietal Response to Prophylactic Fungicide Application.

**Ben Stoker**<sup>1</sup>, J. Trenton Irby<sup>2</sup>, Angus L. Catchot<sup>1</sup>, Brian Peralisi<sup>3</sup>, Thomas W. Allen<sup>4</sup>, William Maples<sup>5</sup> and Alanna B. Scholtes<sup>2</sup>, (1) Mississippi State University, Mississippi State, MS, (2) Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, (3) Mississippi State Delta Research Center, Greenville, MS, (4) Biochemistry, Molecular Biology, Entomology, and Plant Pathology, Mississippi State University, Mississippi State, MS, (5) Agricultural Economics, Mississippi State University, Mississippi State, MS

## AGRONOMY

9.00 AM Comparing First Year Energycane Yields at Two Locations in Starkville, MS.

**Wyatt Eason**, Mississippi State University, Mississippi State, MS

9.15 AM Weed Suppression by Cotton Chromosome Substitution Lines within Different Cover Crop Production Systems.

**Alyssa Lea Miller**, Plant & Soil Science, Mississippi State University, Mississippi State, MS, UNITED STATES

9.30 AM Evaluation of New Prohexadione Calcium Formulation for Plant Growth Regulation in Peanut (*Arachis hypogaea* L.).

**Savannah Banner**, University of Georgia-Tifton, Tifton, GA and W. Scott Monfort, Crop & Soil Sciences, University of Georgia-Tifton, Tifton, GA

9.45 AM Interactive Effects of Heat and Drought Stress on Soybean Physiology, Pollen Germination, and Yield.

**Sadikshya Poudel**, Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, Raju Bheemanahalli, Mail Stop 9555, Mississippi State University, Mississippi State, MS, Ranadheer Reddy Vennam, Department of Plant and Soil Sciences, Mississippi State, MS and K. Raja Reddy, Department of Plant & Soil Sciences, Mississippi State University, Mississippi State, MS

10.00 AM Water Deficit Effects on Corn Physiology and Early-Season Vigor.

**Ranadheer Reddy Vennam**, Department of Plant and Soil Sciences, Mississippi State, MS, Purushothaman Ramamoorthy, Geosystems Research Institute, Mississippi State University, Starkville, MS, UNITED STATES, Sadikshya Poudel, Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, Raju Bheemanahalli, Mail Stop 9555, Mississippi State University, Mississippi State, MS and K. Raja Reddy, Department of Plant & Soil Sciences, Mississippi State University, Mississippi State, MS

10.15 AM Impact of Planting Pattern and Planting Population on Cotton Development, Fruit Distribution, Yield, and Fiber Quality.

**William Joseph Rutland**<sup>1</sup>, Brian Pieralisi<sup>2</sup>, Darrin Dodds<sup>1</sup>, Wes Lowe<sup>3</sup>, Justin McCoy<sup>4</sup>, Whitney Crow<sup>5</sup>, Tyler Soignier<sup>6</sup>, Eli Hobbs<sup>6</sup> and Bradley Norris<sup>7</sup>, (1) Mississippi State University, Mississippi State, MS, (2) Mississippi State Delta Research Center, Greenville, MS, (3) Agricultural and Biological Engineering, Mississippi State University, Starkville,

## AGRONOMY

MS, (4) North Mississippi Research and Extension Center, Mississippi State University, Columbus, MS, (5) Mississippi State University, Stoneville, (6) and (7), Mississippi State University, Starkville, MS

10.30 AM Evaluation of Cover Crop Influence on Potassium Uptake Dynamics in the Southeastern Cotton Belt.

**Eli Hobbs**, Mississippi State Univ., Starkville, MS

10.45 AM An Evaluation on the Effects of Additions and Deletions of Specific Nutrient Management Strategies on Corn Yield at Different Plant Densities.

**James Dew**<sup>1</sup>, Jagmandeep Singh Dhillon<sup>2</sup>, Amelia A. Fox<sup>2</sup>, Gurbir Singh<sup>3</sup>, Justin McCoy<sup>4</sup>, Camden Oglesby<sup>5</sup> and Ramandeep Sharma<sup>6</sup>, (1)Plant and Soils Science, Mississippi State University, Shannon, MS, (2)Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, (3)Delta Research and Extension Center, Mississippi State University, Stoneville, MS, (4)North Mississippi Research and Extension Center, Mississippi State University, Columbus, MS, (5)Plant and Soil Sciences, Mississippi State University, Starkville, MS, (6)Mississippi State University, Starkville, MS

11.00 AM ADJOURN

### GRADUATE STUDENT ORAL COMPETITION – Ph.D. STUDENTS

1.00 PM Evaluation of Drain Tile Performance When Used in Cotton Production.

**Tyler Soignier**<sup>1</sup>, Brian Pieralisi<sup>2</sup>, Darrin M. Dodds<sup>3</sup>, L. Jason Krutz<sup>4</sup>, Eli Hobbs<sup>1</sup>, William Joseph Rutland<sup>5</sup> and Bradley Norris<sup>6</sup>, (1) Mississippi State University, Starkville, MS, (2) Mississippi State Delta Research Center, Greenville, MS, (3) Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, (4) Mississippi State University, Stoneville, MS, (5) Mississippi State University, Mississippi State, MS, (6) Mississippi State University, Starkville

1.15 PM PATCH-Burn and Rotational Grazing Effects on Performance of Beef Heifers and Pasture Productivity.

**Megan Berry**, University of Tennessee-Knoxville, Knoxville, TN

1.30 PM Screening Sweet Potato Varieties for Their Allelopathic Effects on Growth of Different Weed Species Under Field Conditions.

**Varsha Singh**, Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, Isabel Werle, Plant & Soil Sciences, Mississippi State University,

## AGRONOMY

Mississippi State, MS, Mark W. Shankle, Plant and soil Sciences, Mississippi State University, Pontotoc, MS, Stephen L. Meyers, Horticulture and Landscape Architecture, Purdue University, West Lafayette, IN and Te-Ming Paul Tseng, Plant and Soil Sciences, Mississippi State University, Starkville, MS

1.45 PM Animal Performance and Pasture Productivity of Weaned Steers Grazing Native Warm-Season Grass Pastures with and without Interseeded Native Forbs and Legumes.

**Jessica L Prigge**<sup>1</sup>, Eric Bisangwa<sup>2</sup> and Patrick D Keyser<sup>1</sup>, (1) Center for Native Grasslands Management, Department of Forestry Wildlife and Fisheries, University of Tennessee - Knoxville, Knoxville, TN, (2) Forestry, Wildlife and Fisheries, University of Tennessee, Maryville, TN

2.00 PM Assessing the Role of Plant-Growth Promoting Microbial Species from Cow Manure-Based Organic Formulations.

**Ravi Teja Kumar Neelipally**<sup>1</sup>, Wilson Ouma<sup>2</sup>, Bonnie H Ownley<sup>2</sup> and Sindhu Jagadamma<sup>3</sup>, (1) University of Tennessee-Knoxville, Louisville, TN, (2) Department of Entomology and Plant Pathology, The University of Tennessee, Knoxville, TN, (3)2506 E.J. Chapman Drive, University of Tennessee-Knoxville, Knoxville, TN

2.15 PM Effects of Thatch Depth on Native Warm-Season Grass (NWSG) Establishment.

**Keagan Swilling**<sup>1</sup>, Eric Bisangwa<sup>2</sup>, Jennifer Mansfield<sup>3</sup>, Chad Bitler<sup>3</sup> and Patrick D Keyser<sup>1</sup>, (1) Center for Native Grasslands Management, Department of Forestry Wildlife and Fisheries, University of Tennessee - Knoxville, Knoxville, TN, (2) Forestry, Wildlife and Fisheries, University of Tennessee, Maryville, TN, (3) Greenacres Foundation, Cincinnati, OH

2.30 PM Cereal Rye Biomass and PRE-Herbicides for Weed Management in Cotton.

**Yogendra Upadhyaya**, Highway 182, University of Florida, Milton, FL, Pratap Devkota, West Florida Research and Education Center, Jay, FL, Michael J. Mulvaney, Highway 182, University of Florida West Florida Research & Education Center, Jay, FL, William Hammond, Agronomy, University of Florida, Gainesville, FL and Haimanote Bayabil, Agricultural and Biological Engineering, University of Florida, Homestead, FL

2.45 PM Determining an Irrigation Management Plan in a Furrow Irrigated Rice Production System.

**Anna Smyly**, Mississippi State Delta Research

## AGRONOMY

Center, MS State, MS and Dr. Drew Gholson, Delta Research and Extension Center, Mississippi State University, Stoneville, MS

3.00 PM Land Use Affects Hydraulic Conductivity Dynamics in Shrink-Swell Soils.

**Geeta Kharel**, Thorsten Knappenberger, Joey N. Shaw, Audrey V. Gamble and Yaniv Olshansky, Crop, Soil and Environmental Sciences, Auburn University, Auburn, AL

3.15 PM Identification of Optimum Side Dress Nitrogen Rate for Dryland Corn and Cotton Using Broiler Litter as Starter Fertilizer.

**Rajveer Singh**<sup>1</sup>, Rishi Prasad<sup>1</sup>, Dexter B. Watts<sup>2</sup> and H. Allen Torbert<sup>3</sup>, (1) Crop, Soil and Environmental Sciences, Auburn University, Auburn, AL, (2)411 S Donahue Dr, USDA-ARS, Auburn, AL, (3) National Soil Dynamics Laboratory, USDA-ARS, Auburn, AL

3.30 PM Switchgrass Stand Vigor Under Repeated Harvests.

**Eric Bisangwa**, Forestry, Wildlife and Fisheries, University of Tennessee, Maryville, TN

3.45 PM Melatonin As a Safener in Cotton Against Sublethal Doses of 2,4-D.

**Josiane Argenta**, Mississippi State University, Starkville, MS and Te-Ming Paul Tseng, Plant and Soil Sciences, Mississippi State University, Starkville, MS

4.00 PM Cotton Chromosome Substitution Lines, a Possible Weed Management Strategy.

**Worlanyo Segbefia**, Mississippi State University, Mississippi State, MS

4.15 PM Predicting Peanut Maturity Using Degree Day Indices in Mississippi.

**Joseph Bryan Whittenton**<sup>1</sup>, Brendan Zurweller<sup>1</sup>, Jagmandeep Singh Dhillon<sup>1</sup>, Connor Ferguson<sup>2</sup>, Amelia A. Fox<sup>1</sup> and Jeff Gore<sup>3</sup>, (1) Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, (2) Sesaco Corporation, Yukon, OK, (3) Delta Research and Extension Center, Mississippi State University, Stoneville, MS

4.30 PM Root Morphological Traits That Improve Soybean Germination Under Water Stress.

**Jyoti Prasad Kakati**, Clemson University, Clemson, SC, Sruthi Narayanan Kutty, Clemson University, Clemson University, Clemson, SC and Benjamin Fallen, Research Scientist, USDA, Soybean & Nitrogen Fixation Unit, Raleigh, NC

## AGRONOMY

4.45 PM Variation in NUE Among *Brassica Carinata* Genotypes Grown in a Controlled Environment.

**Joseph Enye Iboyi**<sup>1</sup>, Michael J. Mulvaney<sup>2</sup>, Ramdeo Seepaul<sup>3</sup>, Ian M Small<sup>4</sup>, Mahesh Bashyal<sup>5</sup>, Ramon G. Leon<sup>6</sup>, Pratap Devkota<sup>7</sup>, Kipling S. Balkcom<sup>8</sup>, Sheeja George<sup>4</sup> and David L. Wright<sup>4</sup>, (1) University of Florida, Milton, FL, (2) Highway 182, University of Florida West Florida Research & Education Center, Jay, FL, (3) North Florida Research and Education Center, North Florida Research & Education Center, Quincy, FL, (4) North Florida Research and Education Center, University of Florida, Quincy, FL, (5) Bldg 4900, University of Florida, Milton, FL, (6) Crop and Soil Sciences, North Carolina State University, Raleigh, NC, (7) West Florida Research and Education Center, Jay, FL, (8) USDA-ARS, Auburn, AL

5.00 PM Can the Use of Prohexadione Calcium Increase Peanut Peg Strength and Yield in North Florida?.

**Mahesh Bashyal**, Bldg 4900, University of Florida, Milton, FL, Michael J. Mulvaney, Highway 182, University of Florida West Florida Research & Education Center, Jay, FL and Pratap Devkota, West Florida Research and Education Center, Jay, FL

5.15 PM Temperature Extremes Influence on Growth and Photosynthetic Performance of Advanced Cotton Genotypes.

**Gurpreet Virk**<sup>1</sup>, John Snider<sup>1</sup>, Peng Chee<sup>2</sup>, Navneet Kaur<sup>3</sup> and Alessandro Ermanis<sup>4</sup>, (1) University of Georgia-Tifton, Tifton, GA, (2) University of Georgia, Tifton, GA, (3) University of Georgia, Tifton, GA, (4) University of Georgia-Tifton, Tifton, GA

5.30 PM Impact of Nitrogen Deficiency on Physiological Processes in Cotton.

**Ved Parkash**<sup>1</sup>, John Snider<sup>2</sup>, Amrit Pokhrel<sup>2</sup>, Gurpreet Virk<sup>2</sup>, Henry Sintim<sup>3</sup>, Camp Campbell Hand<sup>2</sup> and Cristiane Pilon<sup>4</sup>, (1) University of Georgia, Tifton, GA, (2) University of Georgia-Tifton, Tifton, GA, (3) Crop and Soil Sciences, University of Georgia, Tifton, GA, (4) Crop & Soil Sciences, University of Georgia, Tifton, GA

5.45 PM ADJOURN

### **MONDAY, FEBRUARY 14, 2022**

LOCATION: Napoleon A 2/3 – Third Floor

### **PROFESSIONAL ORAL – CROPS**

7.55 AM - Opening Remarks

## AGRONOMY

8.00 AM Evaluating the Impact of Diuron on Regrowth Control Following Cotton Defoliation.

**Camp C Hand**<sup>1</sup>, Caitlyn Lawton<sup>2</sup> and John Snider<sup>1</sup>, (1) University of Georgia-Tifton, Tifton, GA, (2) Crop and Soil Sciences, University of Georgia, Tifton, GA

8.15 AM Evaluation of Cover Crop Monocultures and Mixtures for Soil Health.

**Anna Johnson**<sup>1</sup>, Hannah Decker<sup>1</sup>, Kip Balkcom<sup>2</sup> and Audrey V. Gamble<sup>1</sup>, (1) Crop, Soil and Environmental Sciences, Auburn University, Auburn, AL, (2) USDA/ARS, Auburn, AL

8.30 AM Evaluation of a Rapid Method for Assessing Corn Nitrogen Management in-Season.

**Justin McCoy**<sup>1</sup>, Jason Bond<sup>2</sup>, Corey J Bryant<sup>3</sup>, Mark P. Harrison<sup>4</sup> and Andy R. Taylor<sup>4</sup>, (1) North Mississippi Research and Extension Center, Mississippi State University, Columbus, MS, (2) Delta Research and Extension Center, Mississippi State University, Stoneville, MS, (3) Delta Research and Extension, Mississippi State University, Stoneville, MS, (4) North Mississippi Research and Extension Center, Mississippi State University, Verona, MS

8.45 AM Impact of Management on Bermudagrass Stem Maggot Damage.

**Lisa Baxter**, University of Georgia-Tifton, Omega, GA, William F. Anderson, Crop Genetics and Breeding Research Unit, USDA-ARS, Tifton, GA and William Hudson, Entomology, University of Georgia, Athens, GA

9.00 AM Interaction Effects of Genotype-By-Environment Morphology and Physiology of SIX Modern and Obsolete Cotton Cultivars across Southern Cotton BELT.

**Akanksha Sehgal**<sup>1</sup>, Gurpreet Kaur<sup>2</sup>, Daryl Chastain<sup>3</sup>, John Snider<sup>4</sup>, Haydee E Laza<sup>5</sup>, Wenxuan Guo<sup>6</sup> and Gurbir Singh<sup>2</sup>, (1) Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, (2) Delta Research and Extension Center, Mississippi State University, Stoneville, MS, (3) United States Department of Agriculture, Agriculture Research Service, Stoneville, MS, (4) University of Georgia-Tifton, Tifton, GA, (5) Plant and Soil Sciences, Texas Tech University, Lubbock, TX, (6) Plant and Soil Science, PO Box 42122, Texas Tech University, Lubbock, TX

9.15 AM Native Forbs Persist in Native Warm-Season Grass Pastures Following Grazing.

**Jonathan D Richwine**, University of Tennessee-Knoxville, Drummonds, TN, UNITED STATES, Patrick D Keyser, Center for Native Grasslands

## AGRONOMY

Management, Department of Forestry Wildlife and Fisheries, University of Tennessee - Knoxville, Knoxville, TN and John M Zobel, Department of Forest Resources, University of Minnesota, St. Paul, MN

9.30 AM Correlation and Calibration of Soil-Test-Based Potassium Fertilizer Recommendations for Louisiana Soybean.

**Rasel Parvej**, Tidewater Agricultural Research and Extension Center, LSU Ag Center, Winnsboro, LA, Brenda Tubana, School of Plant, Environmental, and Soil Sciences, Louisiana State University AgCenter, Baton Rouge, LA, Syam K. Dodla, Agricultural Center, Red River Research Station, Louisiana State University, Bossier City, LA and David O. Moseley, Dean Lee Research Station, LSU Agricultural Center - Dean Lee Resarch Station, Alexandria, LA

9.45 AM Optimum Cover Crop Seeding Rates in Semi-Arid Cotton Cropping Systems.

**Paul B. DeLaune**, Texas A&M AgriLife Research, Vernon, TX, Emi Kimura, Texas A&M AgriLife Extension Service, Vernon, TX and Francisco Abello, Texas A&M AgriLife Extension, Vernon, TX

10.00 AM Adjourn

**10.15 – 11.15 AM Agronomy Business Meeting and Awards**

## BIOCHEMISTRY AND BIOTECHNOLOGY

**118<sup>th</sup> Meeting of  
The Southern Association of Agricultural  
Scientists  
Biochemistry and Biotechnology  
Sheraton New Orleans Convention Complex  
Sheraton Evergreen Room  
New Orleans, LA, February 14<sup>th</sup>, 2022**

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

**9:00 Jong Hyun Ham**, Rosalie Calderon, Jobelle Bruno and John Ontoy “**Development of seed treatment technology based on fundamental research of plan pathology and microbiology**”  
Department of Plant Pathology and Crop Physiology, 302 Life Sciences Building, Louisiana State University, Baton Rouge, LA 700803.

**9:30 Natasha R. Soares<sup>1</sup>**, Jose Hugueta-Tapia<sup>2</sup>, Christopher A. Clark<sup>1</sup>, Kuei-Ting Yang<sup>1</sup>, Jonathan H. Badger<sup>3</sup> and Gregg Pettis<sup>1</sup> “**Comparative genomics of the sweet potato pathogen *Streptomyces ipomoeae* reveal novel genome content and organization**” <sup>1</sup>Louisiana State University, Department of Biological Sciences, Baton Rouge, LA, <sup>2</sup>University of Florida, Plant Pathology, Gainesville, FA and <sup>3</sup>Center for Cancer Research, National Cancer Institute, NIH.

**10:00 Seung-Joon Ahn** “**Xenobiotics detoxification by glucose conjugation in the adapted insect pests**” Department of Biochemistry, Molecular Biology, Entomology and Plant Pathology, Mississippi State University, MS.

**10:30 Zhi-Yuan Chen** “**RNA interference and its application in plant disease management**”  
Department of Plant Pathology and Crop Physiology, 302 Life Science Building, Louisiana State University Agricultural Center, Baton Rouge, LA

**11:00 Priyadarshini Chakrabarti Basu<sup>1</sup>** and Ramesh R. Sagili<sup>2</sup> “**Using an omics approach to studying bee physiology and nutrition**”  
<sup>1</sup>Department of Biochemistry, Molecular Biology, Entomology and Plant Pathology, Pollinator Health and Apiculture, Mississippi State University, Mississippi State, MS and <sup>2</sup>Department of Horticulture, Oregon State University, Corvallis, OR.

## BIOCHEMISTRY AND BIOTECHNOLOGY

11:30 Debarati Basu and Paul South “**Design and analysis of native photorespiration gene motifs in promoter UTR combinations under short term abiotic stress conditions**” Department Biological Sciences, Louisiana State University, Baton Rouge, LA.

12:00 Closing Remarks

## HORTICULTURE

2022 Annual Meeting  
February 11-13, 2022  
New Orleans, LA

86<sup>th</sup> Year  
Southern Region  
American Society for Horticultural Science

102<sup>nd</sup> Year  
Horticulture Section  
Southern Association of Agricultural Scientists

### **History of the Southern Region of ASHS and the Horticulture Section of SAAS**

In 1899, the State Commissioners of Agriculture in several southern states founded “The Cotton States Association of the Commissioners of Agriculture”, which had horticulture involved in its very beginning. This is the founding organization that evolved into the modern-day Southern Association of Agricultural Scientists (SAAS). In 1920, SAAS (which at that time was called Association of Southern Agricultural Works, ASAW) formalized the affiliation with horticulture by founding the Horticulture Section. In 1936, the American Society for Horticultural Sciences approved the Southern States Section, which is now termed the Southern Region of ASHS. In 1937, SAAS accepted the affiliation between the Southern States Section of ASHS with the Horticulture Section of SAAS. Thus, the Southern Region jointly has been a part of both ASHS (with a founding date of 1936) and SAAS (with a founding date 1920). This rich history is detailed in publications by Andy Anderson, 1982, and Paul Seal, 1999 (available at [srashs.org](http://srashs.org)). The Southern Region encompasses the 14 southern states of Texas, Louisiana, Oklahoma, Arkansas, Mississippi, Georgia, Alabama, Florida, South Carolina, North Carolina, Virginia, West Virginia, Kentucky and Tennessee. Membership varies over the years from about 200 to 500 active members. Membership is composed of professors, research scientists, teachers and extension specialists from Universities, State, Federal and private research organizations, and industry. The Southern Region also contains a student section, the Association of Collegiate Branches, which is composed of student clubs from departments of horticulture and plant science across the region. The focus of the Southern Region is the Annual Meeting, which is held every February in conjunction with the Southern Association of Agricultural Scientists (SAAS). The Annual Meeting consists of presentations of scientific papers, student papers and judging competition, commodity group meetings, and awards presentations

## HORTICULTURE

### Goals:

- Encourage and facilitate the mutual exchange of ideas and information concerning horticultural research, extension, education, and industry in the south.
- Promote stronger bonds among horticulturists throughout the southern regions.
- Encourage participation in the national society of the American Society for Horticultural Science.

Join us and become a part of the Tradition.

<b>President</b> <b>Amy Wright</b> College of Agriculture Auburn University 107 Comer Hall Auburn, AL 36849 Phone: 334-844- 3254 wriham@auburn .edu	<b>President- Elect</b> <b>Matt Chappell</b> Virginia Tech University Tidewater Agricultural Research & Extension Center (AREC) Suffolk, VA 23437-0099 chappell@vt. edu	<b>Secretary- Treasurer</b> <b>David Wm. Reed</b> Dept. of Horticultural Sciences Texas A&M University TAMU 2133 College Station, TX 77843 Phone: 979- 777-2750 dwreed@tamu. edu
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Web Site [srashs.org](http://srashs.org) Visit It

**PROGRAM**  
**2022 ANNUAL MEETING**  
**Southern Region**  
**American Society for Horticultural Science**  
**February 11-13, 2022**  
**New Orleans, LA**

<b>FRIDAY</b> 7:00 am - 6:00 pm	<b>Registration</b> Hotel Lobby
9:00 am - 5:00 pm	<b>ASHS Board of Directors</b> Napoleon B1
8:00 am - 5:00 pm	<b>Southern Fruit Workers</b> Napoleon B2
10:00 am - 12:00 pm	<b>ACB Club Share and Networking</b> Napoleon C2
12:00 pm - 5:00 pm	<b>ACB Group Activities, Tour, and Meal</b> Napoleon C2

## HORTICULTURE

1:00 pm - 4:45 pm	<b>Watermelon Research Group</b> Napoleon A 2/3
1:00 pm - 5:00 pm	<b>Horticulture Administrators</b> Poydras
5:00 pm - 6:30 pm	<b>Executive Committee Meeting</b> Poydras
5:00 pm - until	<b>ACB Mixer</b> Napoleon C2 or announced at meeting
<b>SATURDAY</b>	
7:00 am - 6:00 pm	<b>Registration</b> Napoleon Foyer
8:00 am - 10:00 pm	<b>Poster Set Up Room</b> Napoleon Foyer
8:00 am - 12:00 pm	<b>J. Benton Storey Horticulture Judging Contest Setup</b> Napoleon C3
8:00 am - 8:30 am	<b>Education Section</b> Napoleon C2
8:30 am - 5:00 am	<b>Extension Section</b> Napoleon C2
8:00 pm - 11:15 pm	<b>Fruit Crops Section</b> Napoleon B1
8:00 am - 10:30 am	<b>J. B. Edmond Undergraduate Student Paper Competition.</b> Napoleon C1
8:30 am - 4:00 pm	<b>Watermelon Research Group</b> Napoleon A 2/3
10:00 am - 12:00 pm	<b>Posters Authors Mount Posters</b> Napoleon Foyer
10:45 am - 3:15 pm	<b>Norman F. Childers M.S. Student</b> Napoleon D2
12:00 pm - 5:00 pm	<b>Poster Session Viewing</b> Napoleon Foyer
12:00 pm - 5:00 pm	<b>J. Benton Storey Horticulture Judging Contest</b> Napoleon C3
1:00 am - 3:30am	<b>Vegetable Crops Section</b> Napoleon B1
3:30 pm - 5:15 pm	<b>Warren S. Barham Ph.D. Student Paper Competition</b> Napoleon C1



## HORTICULTURE

### SUNDAY

7:00 am - 10:45 am **Registration**  
Napoleon Foyer

8:00 am - 10:45 pm **Poster Session Viewing**  
Napoleon Foyer

8:00 am - 10:15 am **Vegetable Crops Section**  
Oakley

8:00 am - 11:00 am **Floriculture,  
Ornamentals and Turf  
Section**  
Edgewood A/B

8:00 am - 10:45 am **Fruit Crops Section**  
Estherwood

8:00 am - 10:45 am **Postharvest &  
Biotechnology Section**  
Napoleon A1

9:00 am - 10:45am **ACB Business Meeting**  
Borgne

11:00 am - 12:30 pm **Annual Business  
Meeting and Award  
Program**  
Borgne

1:00 pm - 3:00 pm **Poster Session Take  
Down**  
Napoleon Foyer

### SAAS Program

2:30 pm - 3:30 pm **SAAS Board Meeting**  
Borgne

4:00 pm - 4:30 pm **SAAS General Business  
Meeting**  
Borgne

### SAAS Super Bowl Party

5:00 - until **SAAS Super Bowl Party**  
Grand Ballroom A/B/C  
(5<sup>th</sup> Floor) Sheraton

### REGISTRATION

Friday 7:00 am - 6 pm  
Hotel Lobby

Saturday 7:00 am - 6 pm  
Napoleon Foyer

Sunday 7:00 am - 10:45 am  
Napoleon Foyer

## HORTICULTURE

### FRIDAY, February 11, 2022

**ACB Activities**

Room: Napoleon C2

Time: 10:00 - 12:00 Club Share and  
Networking  
12:00-5:00 Activity/Tour TBA  
5:00 – Mixer exact time/place TBA

Presiding: Elizabeth Clippard, ACB-President  
Nate Phillips, ACB Advisor

**SRASHS Executive Committee**

Room: Poydras

Time: 5:00 - 6:30

Presiding: Mengmeng Gu, Chair

**ASHS Board of Directors**

Room: Napoleon B1

Time: 9:00 - 5:00

Presiding: Mike Neff, Coordinator

**Working Groups**  
Listed at end of program

### SATURDAY, February 12, 2022

#### J. BENTON STOREY UNDERGRADUATE JUDGING CONTEST

Room: Napoleon C3

Time: 8:00 - 12:00 Contest Set-Up  
12:00-5:00 Judging Contest  
5:00 -until Scoring contest

Presiding: TBA, ACB Vice-President  
Nate Philips, ACB Advisor

#### J. B. EDMOND UNDERGRADUATE STUDENT PAPER COMPETITION

Room: Napoleon C1

Presiding: Elizabeth Clippard, ACB-President,  
Moderator  
Amy Wright, SRASHS President,  
Courtesy Welcome to Undergrads  
Jeb Fields, 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:  
JFields@agcenter.lsu.edu

## HORTICULTURE

8:00-11:15 - Order of Presentations roughly at 15 min intervals

1. **Carbohydrate Budget of Pecan Trees during 2021 Fruiting Season.** Wendy Gong\*, Srijana Panta and Lu Zhang. Department of Horticulture & Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (luzhang@okstate.edu) #
2. **Carbohydrate content of rhizomes as potential indicator of sod tensile strength in *Cynodon spp.*** Abigail Hobbs\*, Charles Fontanier, Niels Maness, and Shehbaz Singh, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078-6027. (abigail.hobbs@okstate.edu)
3. **Cut Flower Carnation Photoluminescence.** Abby Pace<sup>1\*</sup>, Bruce L. Dunn<sup>1</sup>, Charles Fontanier<sup>1</sup>, Carla Goad<sup>2</sup>, and Hardeep Singh<sup>31</sup>, 358 Ag Hall, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078, <sup>2</sup>301F MSCS Bldg., Department of Statistics, Oklahoma State University, Stillwater, OK 74078, <sup>3</sup>2002 Throckmorton Plant Science Center, Kansas State University, Manhattan, KS 66506 (bruce.dunn@okstate.edu)
4. **Discovery of Natural Agents for the Control of Ball Moss (*Tillandsia recurvate*) on Ornamental Landscape Plants.** Brianna Slade\*, Heather Kirk-Ballard and Zhijun Liu, School of Plant, Environmental and Soil Sciences, Louisiana State University, Baton Rouge, LA. 70803. (bslade1@lsu.edu).
5. **Effects of Nitrogen, Potassium, and Musketeer® Turf Growth Regulator on Dollar Spot Disease Severity of Creeping Bentgrass.** Ashton Franks\* and Charles Fontanier. Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078-6027. (ashton.franks@okstate.edu)
6. **Effects of Paper and Plastic Mulch on Tomato and Okra Production.** Izzy Gonzales<sup>1\*</sup>, Bizhen Hu<sup>2</sup>, Lynn Brandenberger<sup>2</sup>, Matthew Beartrack<sup>2</sup>, and Charles Fontanier<sup>2</sup>, <sup>1</sup>Department of Environmental Science, Oklahoma State University, Stillwater, OK 74078, <sup>2</sup>Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (bizhen.hu@okstate.edu)

## HORTICULTURE

7. **Effects of Trellising Systems on Spotted-Wing *Drosophila* in Blackberries in Arkansas.** Mataya Duncan <sup>1\*</sup>, Sarah Cato <sup>2</sup>, Lizzy Herrera <sup>2</sup>, Aaron Cato <sup>2</sup>, and Amanda McWhirt <sup>2, 1</sup> Department of Biology, University of Arkansas at Little Rock, 2801 S. University Ave., Little Rock, AR 72204, <sup>2</sup> Department of Horticulture, University of Arkansas Cooperative Extension Service, 2301 S. University Ave., Little Rock, AR 72204. (msduncan@ualr.edu)
8. **Influence of Flue Gas Desulfurization Gypsum on Phosphorus Loss in Pine Bark Substrates.** Landon Erbrick<sup>1\*</sup>, Paul Bartley<sup>1</sup>, Dexter Watts<sup>2</sup>, and Allen Torbert<sup>2</sup>, <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849. <sup>2</sup>USDA-ARS National Soil Dynamics Laboratory, Auburn, AL 36832. (pcb0004@auburn.edu)
9. **Quality and Yield Responses of Louisiana Tea to Nitrogen Fertilizer Treatments.** Harrison Steudlein<sup>1\*</sup>, Yan Chen<sup>1</sup>, Zhijun Liu<sup>2</sup>, and Lisa Fultz. <sup>1</sup>School of Plant, Environmental and Soil Sciences, Louisiana State University, <sup>2</sup>School of Renewable Natural Resources. Baton Rouge, LA 70803. <sup>1</sup> (yachen@agcenter.lsu.edu)
10. **Scalable Extraction and Purification of an Anti-Cancer Drug Precursor from Oklahoma Eastern Red Cedar.** Gwen Reilly<sup>\*1</sup>, Niels Maness<sup>2</sup>, John Nickel<sup>2</sup>, and Katie Stenmark<sup>2</sup>, <sup>1</sup>Department of Nutritional Sciences, <sup>2</sup>Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (greilly@okstate.edu)
11. **School gardens: why they are important, who benefits, and how they can be supported.** Shelley Mitchell and Genny Harris\*, OSU Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, Oklahoma 74078. (shelley.mitchell@okstate.edu)
12. **Tea Leaf Chemical Composition Altered by Temporary Shade in Louisiana.** Javen Little<sup>1\*</sup>, Yan Chen<sup>1</sup>, Harrison Steudlein<sup>1</sup>, Zhijun Liu<sup>2</sup>, and Lisa Fultz<sup>1</sup>. <sup>1</sup>School of Plant, Environmental and Soil Sciences, Louisiana State University, <sup>2</sup>School of Renewable Natural Resources, 227 Renewable Natural Resources Bldg. Baton Rouge, LA 70803. (yachen@agcenter.lsu.edu)

## HORTICULTURE

13. **Using Iron and Sulfur to Correct Iron Deficiency in Potted Petunias.** Alexandria Thompson\* and Bruce L. Dunn. 358 Ag Hall, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater OK, 74078 (bruce.dunn@okstate.edu)

**NORMAN F. CHILDERS  
M.S. GRADUATE STUDENT  
PAPER COMPETITION**

**Room:** Napoleon D2  
**Presiding:** Matt Chappell, Chair

**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: chappell@vt.edu

**8:30-12:00, 12:30-3:00 Order of Presentations roughly at 15 min intervals**

- 1. A public-private partnership to uncover genetic treasures in *Rubus*.** Katelyn Sheehan-Lust<sup>1\*</sup>, Gina Fernandez<sup>1</sup>, Hamid Ashrafi<sup>1</sup>, Cherie Oschenfeld<sup>2</sup>, Abraham Corrales<sup>3</sup>, Margaret Worthington<sup>4</sup>, Erika Henderson<sup>4</sup>, Courtney Weber<sup>5</sup>, Jill Bushakra<sup>6</sup> and Michael Dossett<sup>7</sup>. <sup>1</sup> Department of Horticultural Science, NCSU Raleigh NC, <sup>2</sup> Pairwise, Durham, NC, <sup>3</sup> Plant Sciences Inc., Watsonville, CA, <sup>4</sup> Department of Horticulture, University of Arkansas Fayetteville, AR, <sup>5</sup> Department of Horticulture, Cornell University Ithaca, NY, <sup>6</sup> USDA, Corvallis, OR, <sup>7</sup> BC Berry Cultivars, Agassiz, British Columbia, Canada. (kesheeha@ncsu.edu)
- 2. Alleviating dormancy: The effect of temperature, gibberellic acid, and cool-moist stratification on select carex species.** Godwin Shokoya<sup>\*</sup>, Dr. Charles Fontanier, Dr. Bruce Dunn and Dr. Dennis Martin. Department of Horticulture, Oklahoma State University, Stillwater, Oklahoma, OK 74078. (godwin.shokoya@okstate.edu)
- 3. An overview: Current state of knowledge of *Cannabis sativa* propagation by cuttings.** Samuel des Bordes<sup>\*</sup>, Babitha Jampala, Heather Kirk-Ballard, Kathryn Fontenot and Gerald Myers. School of Plant, Environmental and Soil Sciences, Louisiana State University, Baton Rouge, LA 70803. (sdesbo1@lsu.edu)
- 4. Delayed pruning as a tool to prevent frost damage on grapevines in the Southeast Region (*Vitis vinifera* L.).** Jack Bobo<sup>1</sup>, Shane Breeden<sup>1</sup>, Savithri Nambeesan<sup>1</sup>, Mark Hoffman<sup>2</sup>, Cain Hickey<sup>3</sup> and Leonardo Lombardini<sup>1</sup>. <sup>1</sup> Department of Horticulture, University of Georgia, Athens, GA 30606, <sup>2</sup> Department of Horticulture, North Carolina State University, Raleigh, NC 27607, <sup>3</sup> Department of Plant Science, Penn State University, University Park, PA 16802. (jbobo@uga.edu)
- 5. Effect of different colored shade nets on quality and production of ornamental plants.** Harpreet Singh<sup>\*</sup> and Bruce L. Dunn. Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74075. (harpreet.singh11@okstate.edu)
- 6. Determining quality, volatile, and aroma sensory attributes of Arkansas-grown hops.** Jordan P. Chenier<sup>1\*</sup>, James O. McClellan<sup>1</sup>, Renee T. Threlfall<sup>1</sup>, Amanda L. McWhirt<sup>2</sup>, Aaron Cato<sup>2</sup>, Luke R. Howard<sup>1</sup> and Cindi R. Brownmiller<sup>1</sup>. <sup>1</sup> 2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, <sup>2</sup> 2301 S. University Ave., Cooperative Extension Service, University of Arkansas, Little Rock, AR 72204. (jchenier@uark.edu)
- 7. Effects of pumpkin spacing on fruit yield, size, and uniformity.** Kim Heagy<sup>\*</sup><sup>1</sup>, Travis Birdsell<sup>2</sup> and Jonathan Schultheis<sup>1</sup>. <sup>1</sup> Raleigh, NC, Department of Horticultural Science, NC State University, <sup>2</sup> Jefferson, NC, Ashe County Center, North Carolina Cooperative Extension Service. (kkheagy@ncsu.edu)
- 8. Evaluating effects of chemical pinching during early vegetative stages on 'Sunfinity' sunflower for potted plant production.** Mason Marshall<sup>1\*</sup>, Terri Starman<sup>1</sup>, H. Brent Pemberton<sup>2</sup> and Calvin Trostle<sup>3</sup>. <sup>1</sup> Department of Horticultural Sciences, Texas A&M University, College Station, TX, <sup>2</sup> Texas A&M AgriLife Research, Texas A&M AgriLife Research and Extension Center, Overton, TX, <sup>3</sup> Texas A&M AgriLife Research and Extension, Lubbock, TX, USA. (masonmarshall@tamu.edu)

## HORTICULTURE

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9. **Evaluation of shipping potential on marketability of North Carolina-grown muscadine grapes.** J. Cody Rawls<sup>1\*</sup>, Renee T. Threlfall<sup>1</sup> and Margaret L. Worthington<sup>2</sup>. <sup>1</sup> 2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, <sup>2</sup> 316 Plant Science, Horticulture Department, University of Arkansas, Fayetteville, AR 72701. (rawls@uark.edu)
10. **Evaluation of sweetpotato varieties in an organically managed system in North Carolina.** Alyssa J. Woodard<sup>1\*</sup>, Jonathan Schultheis<sup>1</sup> and David Suchoff<sup>2</sup>. <sup>1</sup> Department of Horticultural Sciences, North Carolina State University, Raleigh, NC 27695, <sup>2</sup> Department of Crop and Soil Sciences, North Carolina State University, Raleigh, NC 27695. (ajwooda2@ncsu.edu)
11. **Flowering in 'Natchez' crepe myrtle (*Lagerstroemia xfauriei* 'Natchez') in relation to crepe myrtle bark scale (*Acanthococcus lagerstroemiae*) and sooty mold (*Capnodium* sp.) incidence.** Beatriz Ruiz<sup>\*</sup>, P. Alvarez, J. Parsons and Derald A. Harp. Texas A&M University-Commerce, Commerce, TX 75429. (bruiz2@leomail.tamuc.edu)
12. **Genetic diversity of wild and cultivated muscadine grape (*Vitis rotundifolia*) Populations.** Kenneth Buck<sup>\*</sup> and Margaret Worthington. 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (kb013@uark.edu)
13. **Harvest attributes of 3-year-old Arkansas-grown hops with different fertility rates.** James O. McClellan<sup>1\*</sup>, Renee T. Threlfall<sup>1</sup>, Amanda L. McWhirt<sup>2</sup>, Aaron Cato<sup>2</sup>, Luke R. Howard<sup>1</sup> and Cindi R. Brownmiller<sup>1</sup>. <sup>1</sup> 2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, <sup>2</sup> 2301 S. University Ave., Cooperative Extension Service, University of Arkansas, Little Rock, AR 72204. (jomcclel@uark.edu)
14. **Heat stress responses of tomato plants grafted onto wild relative rootstocks *S. pennellii* and *S. peruvianum*.** Chungkeun Lee<sup>\*</sup> and Daniel I. Leskovar. Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801. (d-leskovar@tamu.edu)

## HORTICULTURE

15. **Higher nitrogen pre-plant rates are not associated with improved yield of June bearing strawberry in North Carolina.** Amanda Lay-Walters<sup>1\*</sup>, Michelle Schroeder-Moreno<sup>2</sup>, Alex Woodley<sup>2</sup> and Mark Hoffmann<sup>1</sup>. <sup>1</sup> Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, <sup>2</sup> Department of Crop and Soil Science, North Carolina State University, Raleigh, NC 27695. (amlay@ncsu.edu)
16. **Investigating acquisitional nitrogen source preference in southern highbush blueberry.** John Doyle<sup>1\*</sup>, Anish Malladi<sup>1</sup> and Miguel Cabrera<sup>2</sup>. <sup>1</sup> 1111 Plant Sciences Building, Department of Horticulture, University of Georgia, Athens, GA 30601, <sup>2</sup> 4119 Plant Sciences Building, Department of Crop and Soil Sciences, University of Georgia, Athens, GA 30601. (doylejw@uga.edu, malladi@uga.edu)
17. **Investigating optimal irrigation of *Vitis vinifera* 'Roussanne' vines grown on the Texas High Plains.** Kyle Lauterbach<sup>1\*</sup>, Thayne Montague<sup>1,2</sup>, Pierre Helwi<sup>2</sup> and Ed Hellman<sup>1</sup>. <sup>1</sup> Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409, <sup>2</sup> Texas A&M AgriLife Research and Extension Center, Lubbock, TX 79403, <sup>3</sup> Department of Plant and Soil Science, Texas Tech University, Fredericksburg, TX 78624. (klauterb@ttu.edu)
18. **Investigation of methyl bromide replacements: Controlling soil pests through steam in combination with alternative chemicals.** Emma Volk<sup>1\*</sup>, Gene Fox<sup>1</sup>, Joe Neal<sup>1</sup>, Steven Fennimore<sup>2</sup> and Mark Hoffmann<sup>1</sup>. <sup>1</sup> Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, <sup>2</sup> University of California Davis, Department of Plant Science, Salinas, CA 93905. (evolk@ncsu.edu)
19. **Mutation breeding of *Salvia coccinea* with ethyl methanesulfonate (EMS).** Rebekah Maynard<sup>\*</sup> and J. Ruter, Department of Horticulture, University of Georgia, Athens, GA, 30602. (rebekah.maynard@uga.edu)
20. **Primocane height manipulation on dwarf and standard blackberry plants utilizing plant growth regulators.** Carmen Johns<sup>1\*</sup>, Margaret Worthington<sup>1</sup>, Christopher Clavet<sup>2</sup> and Tom Kon<sup>2</sup>. <sup>1</sup> 1316 Plant Science, Department of Horticulture,

## HORTICULTURE

University of Arkansas, Fayetteville, AR 72701, <sup>2</sup> North Carolina State University Department of Horticultural Sciences, Mountain Horticultural Crops Research and Extension Center, 455 Research Drive, Mills River, NC 28759. (cxj025@uark.edu)

21. **Quantity demand and latent demand for local foods in local public institutions of Lee and Russell Counties, Alabama.** Jesse Teel\*. Department of Horticultural Sciences, Auburn University, Auburn, AL 36830. (jct0014@auburn.edu)  
#
22. **Using *Lachancea thermotolerans* yeast to modify acidity in wine fermentations from 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)
23. **Volatile and sensory aroma attributes of arkansas-grown fresh-market blackberries.** Andrea L. Myers\*, Renee T. Threlfall, Luke R. Howard and Cindi R. Brownmiller. 2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704. (alm028@uark.edu)
24. **Water temperature effects on basil growth in NFT hydroponic systems.** Teal Hendrickson\* and Bruce Dunn. 358 Ag Hall, Department of Horticulture and Landscape Architecture, Stillwater, OK 74078. (teal.hendrickson@okstate.edu)

**WARREN S. BARHAM**  
**Ph.D. GRADUATE STUDENT**  
**PAPER COMPETITION**

**Room:** Napoleon C1

**Presiding:** Matt Chappell, Chair

**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to 1:00-4:45Chair: chappell@vt.edu

**1:00 – 4:45: Order of Presentations roughly at 15 min intervals**

1. **3D phenotyping and quantitative analysis of peach tree architecture via terrestrial laser scanning.** Jordan Knapp-Wilson<sup>1\*</sup>, Rafael Bohn Reckziegel<sup>2</sup>, Alexander Bucksch<sup>3</sup> and Dario J. Chavez<sup>4</sup>. <sup>1</sup> Cowart Building - Rm 214, Institute of

## HORTICULTURE

Plant Breeding, Genetics, Genomics, University of Georgia, Griffin Campus, Griffin, GA 30223, <sup>2</sup> Chair of Forest Growth and Dendroecology, University of Freiburg, Freiburg, Germany 79098, <sup>3</sup> Miller Plant Sciences - Rm 2611, Department of Plant Biology, University of Georgia, Athens Campus, Athens, GA 30602, <sup>4</sup> Physiology Building - Rm 105, Department of Horticulture, University of Georgia, Griffin Campus, Griffin, GA 30223. (jrk88473@uga.edu)

2. **Association mapping of fruit firmness and morphology in blackberry.** Mason Chizk<sup>1\*</sup>, Margaret Worthington<sup>1</sup>, Carmen Johns<sup>1</sup>, Lacy Nelson<sup>1</sup>, John R. Clark<sup>1</sup>, Rishi Aryal<sup>2</sup> and Hamid Ashrafi<sup>2</sup>. <sup>1</sup> 1316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup> North Carolina State University Department of Horticultural Sciences, 234 Kilgore Hall Campus Box 7609, Raleigh, NC 27695. (tmchizk@uark.edu)
3. **Dissection of race 1 anthracnose resistance in a watermelon (*Citrullus lanatus* var. *lanatus*) biparental mapping population.** Bed Prakash Bhatta<sup>1,2\*</sup>, Takshay Patel<sup>3</sup>, Edgar Correa<sup>1,2</sup>, Todd C. Wehner<sup>3</sup>, Kevin M. Crosby<sup>1</sup>, Michael J. Thomson<sup>4</sup>, Richard Metz<sup>5</sup>, Shichen Wang<sup>5</sup>, Marcel Brun<sup>5</sup>, Charles D. Johnson<sup>5</sup> and Subas Malla<sup>1,2</sup>. <sup>1</sup> Department of Horticultural Sciences, Texas A&M University, College Station, Texas, 77843, USA, <sup>2</sup> Texas A&M AgriLife Research and Extension Center, Uvalde, Texas, 78801, USA, <sup>3</sup> Department of Horticultural Science, North Carolina State University, Raleigh, North Carolina, 27695, USA, <sup>4</sup> Department of Soil and Crop Sciences, Texas A&M University, College Station, Texas, 77843, USA, <sup>5</sup> Genomics and Bioinformatics Service, Texas A&M AgriLife Research, College Station, Texas, 77843, USA. (subas.malla@ag.tamu.edu)
4. **Evaluation of one-time foliar auxin applications co-applied with a surfactant in the propagation of woody ornamentals.** Anthony T. Bowden<sup>1\*</sup>, Patricia R. Knight<sup>1</sup>, Jenny B. Ryals<sup>1</sup>, Christine E.H. Coker<sup>1</sup>, Scott A. Langlois<sup>1</sup>, Shaun R. Broderick<sup>2</sup>, Eugene K. Blythe<sup>3</sup>, Hamidou F. Sakhanokho<sup>4</sup> and Ebrahiem M. Babiker<sup>4</sup>. <sup>1</sup> Coastal Research and Extension Center, South Mississippi Branch Experiment Station, P.O. Box 193, Poplarville, MS 39470, <sup>2</sup> Truck Crops Branch Experiment Station, 2024 Experiment Station Rd., Crystal Springs, MS 39059, <sup>3</sup> College of Agriculture, Auburn University, Auburn, AL 36849, <sup>4</sup> USDA-ARS Southern Horticultural Lab., P.O. Box 287, Poplarville, MS 39470. (ab1001@msstate.edu)

## HORTICULTURE

5. **Evaluation of nitrogen rate and fertilizer source for the production of organic onion in Georgia.** Hanna de Jesus<sup>\*1</sup>, Kate Cassity-Duffey<sup>1</sup>, Andre da Silva<sup>2</sup>, Bhabesh Dutta<sup>3</sup> and Timothy Coolong<sup>1</sup>. <sup>1</sup> 1111 Miller Plant Sciences, University of Georgia, Athens, GA 30602, <sup>2</sup> 124 Funchess Hall, Auburn University, Auburn, AL 36849, <sup>3</sup> 2360 Rainwater Rd., University of Georgia, Tifton, GA 31793. (hannaij@uga.edu)
6. **Effect of drying methods on hemp flower quality.** Noelle Joy<sup>\*1</sup>, Timothy Coolong<sup>1</sup>, and Daniel Jackson<sup>2</sup>. <sup>1</sup> 1111 Miller Plant Sciences, University of Georgia, Athens, GA 30602, <sup>2</sup> 2400 College Station Rd., Crop Quality Lab, University of Georgia, Athens, GA 30602. (noellejoy@uga.edu)
7. **Hydration of traditional and stratified substrates under varied moisture conditions.** Kristopher S. Criscione<sup>\*</sup> and Jeb S. Fields. Hammond Research Station, Louisiana State University Agricultural Center, 21549 Old Covington Hwy., Hammond, LA 70403. (kcrisc2@lsu.edu)
8. **Impact of light intensity on bud fruitfulness of French-American hybrid 'Traminette' and American 'Concord' grapevines.** Kyle Freedman<sup>\*</sup>, Cristian Collado, Ricardo Hernández and Mark Hoffmann. Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695. (kafreedm@ncsu.edu)
9. **Influence of cadmium on growth and nutrient uptake in hydroponically-grown hemp.** Amanda Olbrick Marabesi<sup>\*1</sup>, Timothy Coolong<sup>1</sup> and Jason Lessl<sup>2</sup>. <sup>1</sup> 1111 Miller Plant Sciences, University of Georgia, Athens, GA 30602, <sup>2</sup> 2400 College Station Rd., Agricultural and Environmental Services Lab, University of Georgia, Athens, GA 30602. (aom@uga.edu)
10. **Integration of blueberry flavor volatile with consumer acceptability for identification of key flavor compounds.** Jamal Mohammed<sup>\*1</sup>, Kathleen S. Amaral<sup>1</sup>, Juyoung Kim<sup>2</sup>, Shangci Wang<sup>2</sup>, Koushik Adhikari<sup>2</sup>, Renée M. Holland<sup>3</sup>, D. Scott NeSmith<sup>1</sup> and Rachel A. Itle<sup>1</sup>. <sup>1</sup> Department of Horticulture, University of Georgia, UGA– Cowart Building, 210 Cowart Street, Griffin, GA 30223, <sup>2</sup> Department of Food Science & Technology, University of Georgia, UGA – Melton Building, 350 Woodroof Drive, Griffin GA, 30223, <sup>3</sup> ANR Extension, University of Georgia Extension, 203 South Dixon Street, Suite 3, Alma, GA 31510. (jm30002@uga.edu)

## HORTICULTURE

11. **Integration of quantitative trait loci (QTL) associated with gummy stem blight resistance from a crop wild relative into elite watermelons.** Samikshya Rijal<sup>\*</sup>, and Cecilia McGregor, Institute of Plant Breeding, Genetics & Genomics, University of Georgia, Athens, GA 30602, USA. (sr12566@uga.edu)
12. **Screening of cowpea (*Vigna unguiculata* (L.) Walp.) genotypes for waterlogging tolerance using morpho-physiological traits at the early growth stage.** Omolayo J. Olorunwa<sup>\*1</sup>, Bikash Adhikari<sup>1</sup>, Ainong Shi<sup>2</sup> and T. Casey Barickman<sup>1</sup>. <sup>1</sup> Department of Plant and Soil Sciences, Mississippi State University, North Mississippi Research and Extension Center, Verona, MS, 38879, <sup>2</sup> Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (ojo26@msstate.edu)
13. **SmartIrrigation peach app for irrigation scheduling in a mature peach orchard.** Srijana Thapa Magar<sup>\*1</sup>, George Vellidis<sup>2</sup>, Wesley Porter<sup>2</sup>, Vasileios Liakos<sup>2</sup>, Jose H. Andreis<sup>3</sup> and Dario J. Chavez<sup>1</sup>. <sup>1</sup> Department of Horticulture, University of Georgia, Griffin Campus, Griffin, GA 30223, <sup>2</sup> Department of Crop and Soil Sciences, University of Georgia, Tifton Campus, Tifton, GA 31793, <sup>3</sup> Austn LTDA ME, Marau, RS 99150-000, Brazil. (st45674@uga.edu)
14. **Texture characteristics associated with fruit shelf-life in blueberry.** Heeduk Oh<sup>1,2\*</sup>, Marti Pottorff<sup>1</sup>, Lara Giongo<sup>3</sup>, Massimo Iorizzo<sup>1,2</sup> and Penelope Perkins-Veazie<sup>1,2</sup>. <sup>1</sup> Plants for Human Health Institute, North Carolina State University, Kannapolis, NC, USA 28081, <sup>2</sup> Department of Horticulture, North Carolina State University, Raleigh, NC, USA 27607, <sup>3</sup> Fondazione Edmund Mach, Research and Innovation Centre, San Michele a/A, Trento, Italy. (penelope\_perkins@ncsu.edu, miorizz@ncsu.edu)

## HORTICULTURE

15. **“To eat, or not to eat” question answered by real-time monitoring system combined with semiautomatic analysis of feeding behavior study for crapemyrtle bark scale.** Bin Wu<sup>1,2\*</sup>, Runshi Xie<sup>1,2</sup>, Elizabeth Chun<sup>2</sup>, Gary W. Knox<sup>3</sup>, Mengmeng Gu<sup>4</sup> and Hongmin Qin<sup>2</sup>. <sup>1</sup> Department of Horticultural Sciences, Texas A&M Univ., College Station, TX 77843, <sup>2</sup> Department of Biology, Texas A&M Univ., College Station, TX 77843, <sup>3</sup> Department of Environmental Horticulture, Univ. of Florida/IFAS North Florida Research and Education Center, Quincy, FL 32351, <sup>4</sup> Department of Horticultural.

### POSTERS

**Room:** Napoleon Foyer

**Presiding:** Andre DaSilva, Chair

**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: [azb0207@auburn.edu](mailto:azb0207@auburn.edu)

**Set-Up Room:** Saturday, 8:00-10:00

**Mount Posters:** Saturday, 10:00-noon

#### Poster Viewing

Saturday 12:00 pm to 5:00 pm

Sunday 8:00-10:45 am

#### Authors at their poster:

Saturday, 1:00-3:00 pm even numbered posters

Saturday, 3:00-5:00 pm odd numbered posters

**Take-down:** Sunday, 1:00–3:00 pm

#### Student Poster Competition

**UG** = Indicates undergraduate poster titles

**G** = Indicates graduate poster titles

#### Floriculture, Ornamentals and Turf

##### 1G) Effect of Hormone Source on Propagation of

**Sweet Bay Magnolia.** Jenny B. Ryals<sup>1\*</sup>, Patricia R. Knight<sup>1</sup>, Anthony T. Bowden<sup>1</sup>, Christine E. H. Coker<sup>2</sup>, Gary R. Bachman<sup>2</sup>, Jim DelPrince<sup>2</sup>, Scott A. Langlois<sup>1</sup> and Patricia R. Drackett<sup>3</sup>. <sup>1</sup>Coastal Research and Extension Center, Mississippi State University, Poplarville, MS 39470, <sup>2</sup>Coastal Research and Extension Center, Mississippi State University, Biloxi, MS 39532, <sup>3</sup>The Crosby Arboretum, Mississippi State University, Picayune, MS 39466 ([j.ryals@msstate.edu](mailto:j.ryals@msstate.edu))

##### 2UG) Discovery of Natural Agents for the Control of Ball Moss (*Tillandsia recurvate*) on Ornamental Landscape Plants.

Brianna Slade\*, Heather Kirk-Ballard and Zhijun Liu, School of Plant, Environmental and Soil Sciences, Louisiana State University, Baton Rouge, LA. 70803. ([bslade1@lsu.edu](mailto:bslade1@lsu.edu))

## HORTICULTURE

- 3) **Reducing Postemergence Herbicide Spot Treatments with Preemergence Herbicides in Landscape Planting Beds** S. Chris Marble<sup>1\*</sup> and Stephen F. Enloe<sup>2</sup>, <sup>1</sup>University of Florida/IFAS Mid-Florida Research and Education Center, 2725 S. Binion Rd., Apopka, FL 32703, <sup>2</sup>University of Florida/IFAS Center for Aquatic and Invasive Plants, 7922 NW 71 St., Gainesville, FL 32653. ([marblesc@ufl.edu](mailto:marblesc@ufl.edu))
- 4G) **Efficacy of plant growth regulator applications on 'Sunfinity' Sunflower** Mason Marshall<sup>1\*</sup>, Terri Starman<sup>1</sup>, H. Brent Pemberton<sup>2</sup>, Calvin Trostle<sup>3</sup>, <sup>1</sup> Department of Horticultural Sciences, Texas A&M University, College Station, TX, <sup>2</sup> Texas A&M AgriLife Research, Texas A&M AgriLife Research and Extension Center, Overton, TX, <sup>3</sup> Texas A&M AgriLife Research and Extension, Lubbock, TX, USA ([masonmarshall@tamu.edu](mailto:masonmarshall@tamu.edu))
- 5UG) **Comparison of Slow-Release Fertilizer and Long-term Composting for Performance of Cool and Warm Season Annuals.** Alvarez, Phoebe<sup>1\*</sup>, Steve George<sup>2</sup>, and Derald A. Harp<sup>1</sup>. <sup>1</sup>Texas A&M University-Commerce, Commerce, TX 75429; <sup>2</sup>Texas A&M AgriLife Extension Service, Dallas, TX 75080 ([Derald.Harp@leomail.tamuc.edu](mailto:Derald.Harp@leomail.tamuc.edu))
- 6) **To Pinch or not to Pinch: Cut Flower Marigolds for Southern Growers.** Christine E.H. Coker<sup>1\*</sup>, James DelPrince<sup>1</sup>, Kathryn Fontenot<sup>2</sup>, Anthony Bowden<sup>1</sup>, Scott Langlois<sup>1</sup>, and Patricia Knight<sup>1</sup>, 1815 Pops Ferry Road, Coastal Research and Extension Center, Mississippi State University, Biloxi, MS 39532, 163 J. C. Miller, School of Plant, Environmental and Soil Sciences, Louisiana State University, Baton Rouge, LA 70803. ([cec117@msstate.edu](mailto:cec117@msstate.edu))
- 7G) **Veteran Emotional Perceptions and Preferences of Landscape Design Elements.** Alicia A. Thomas\*, Dr. Muntazar Monsur, Dr. Carol S. Lindquist, and Dr. Catherine Simpson, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409 ([alicia.thomas@ttu.edu](mailto:alicia.thomas@ttu.edu))
- 8UG) **Greenhouse Growth of Hosta and Salvia 'Mystic Spires' in Peat-Lite, Bark, Wood Fiber, and Coir Substrates.** Wynne, Madison and Derald A. Harp. Texas A&M University-Commerce, Commerce, TX 75429 ([Derald.Harp@leomail.tamuc.edu](mailto:Derald.Harp@leomail.tamuc.edu))
- 9G) **How native is native? Characterization of locally adapted Carex stands in Oklahoma.** Godwin Shokoya\*, Charles Fontanier, Bruce Dunn, Dennis Martin., Department of Horticulture, Oklahoma State University, Stillwater, Oklahoma, OK 74078. ([godwin.shokoya@okstate.edu](mailto:godwin.shokoya@okstate.edu))

## HORTICULTURE

**10G) Life Table Construction for Crapeyrtle Bark Scale (*Acanthococcus lagerstroemiae*) and its Application in Evaluating the Effect of Different Plant Nutrient Conditions on Insect Performance.**

Runshi Xie<sup>1,3</sup>, Bin Wu<sup>1,3</sup>, Mengmeng Gu<sup>2</sup>, and Hongmin Qin<sup>3\*</sup>, <sup>1</sup> Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, USA, <sup>2</sup> Department of Horticultural Sciences, Texas A&M AgriLife Extension Service, College Station, TX 77843, <sup>3</sup> Department of Biology, Texas A&M University, College Station, TX 77843. (hqin@bio.tamu.edu)

**11G) Vegetative and Generative Traits of Different Gladiolus Genotypes as Induced by Distinct Compounds.**

L. Anderson\* and S. Islam  
Department of Agriculture/Agricultural Regulations, University of Arkansas at Pine Bluff, 148 Woodard Hall, 1200 North University Drive, Mail Slot 4913, Pine Bluff, AR 71601 (islams@uapb.edu)

### Fruit Crops

**12) Aronia 'Viking' Responds Favorably to Chill Hours.**

Bodie Pennisi<sup>1\*</sup>, Carol Robacker<sup>1</sup>, and Nirmal Joshee<sup>2</sup>, <sup>1</sup>Department of Horticulture, University of Georgia Griffin-Campus, Griffin, GA 30223, <sup>2</sup>College of Agriculture, Family Sciences and Technology, Fort Valley State University, Fort Valley, GA 31030 (bpennisi@uga.edu)

**13G) A public-private partnership to uncover genetic treasures in Rubus.**

Katelyn Sheehan-Lust<sup>1</sup>, Gina Fernandez<sup>1</sup> and Cherie Oschenfeld<sup>2</sup>. <sup>1</sup>Department of Horticultural Science, NCSU Raleigh NC, <sup>2</sup>Pairwise, Durham NC. (kesheeha@ncsu.edu)

**14) Assessment of MP-29 Rootstock for Potted Peach Production.**

Elina Coneva, Department of Horticulture, Auburn University, Auburn, AL, 36849. (Edc0001@auburn.edu)

**15G) An Analysis of Factors Affecting the Rooting Ability of Hardwood Muscadine Cuttings.**

Kenneth Buck<sup>1\*</sup>, Margaret Worthington<sup>1</sup>, and Patrick Conner<sup>2</sup>, <sup>1</sup>316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup>Department of Horticulture, University of Georgia – Tifton Campus, 2360 Rainwater Road, Tifton, GA, 31793. (kb013@uark.edu)

## HORTICULTURE

**16) Empirical evaluation of multi-trait DNA testing in an apple seedling population.**

Sushan Ru<sup>1\*</sup>, Craig Hardner<sup>2</sup>, Katherine M. Evans<sup>3</sup>, Dorrie Main<sup>4</sup>, Patrick A. Carter<sup>5</sup>, Julia Harshman<sup>6</sup>, Paul Sandefur<sup>7</sup>, Daniel Edge-Garza<sup>2</sup> and Cameron Peace<sup>4</sup>, <sup>1</sup>Auburn University, Auburn, AL, 36849, <sup>2</sup>Queensland Alliance for Agriculture and Food Innovation, The University of Queensland, Brisbane, 4072, Australia, <sup>3</sup>Department of Horticulture, Washington State University Tree Fruit Research & Extension Center, Wenatchee, WA 98801, USA, <sup>4</sup>Department of Horticulture, Washington State University, Pullman, WA, 99164 USA, <sup>5</sup>School of Biological Sciences, Washington State University, Pullman, WA, 99164, USA, <sup>6</sup>Duda Farm Fresh Foods, Salinas, CA 92908, USA, <sup>7</sup>FallCreek Farm and Nursery, Inc., Lowell, OR 97452, USA (sizr0099@auburn.edu)

**17G) Comparing Sugar Profiles in Southern Highbush, Rabbiteye, and Northern Highbush Blueberry Cultivars.**

Jamal Mohammed<sup>1\*</sup>, Kathleen S. Amaral<sup>1</sup>, Renée M. Holland<sup>2</sup>, Dario J. Chavez<sup>1</sup>, and Rachel A. Itle<sup>1</sup>. <sup>1</sup>Department of Horticulture, University of Georgia, UGA– Cowart Building, 210 Cowart Street, Griffin, GA 30223, <sup>2</sup>ANR Extension, University of Georgia Extension, 203 South Dixon Street, Suite 3, Alma, GA 31510. (jm30002@uga.edu)

**18G) Exploring Nanocellulose as an Active Freeze Protection Strategy in Peaches.**

Deanna Bigio<sup>1</sup>, Rachel A. Itle<sup>1</sup>, Sudhagard Mani<sup>2</sup>, and Dario J. Chavez<sup>1</sup>. <sup>1</sup>Department of Horticulture, University of Georgia, Griffin Campus, GA 30224. <sup>2</sup>College of Engineering, University of Georgia, Athens, GA 30609 (dchavez@uga.edu)

**19G) Determining Marketability Impacts of Fresh-market Blackberries to Develop a Soft-robotic Gripper for Harvesting.**

Andrea L. Myers<sup>1\*</sup>, Renee T. Threlfall<sup>1</sup>, Yue Chen<sup>2</sup>, and Anthony L. Gunderman<sup>2</sup>, <sup>1</sup>2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704. <sup>2</sup>313 Ferst Dr., Biomedical Engineering Department, Georgia Institute of Technology/Emory, NW, Atlanta, GA 30332. (alm028@uark.edu)

**20) Genetic Control of Primocane Height in Blackberry.**

Carmen Johns<sup>1\*</sup>, Margaret Worthington<sup>1</sup>, Mason Chizk<sup>1</sup>, Lacy Nelson<sup>1</sup>, John R. Clark<sup>1</sup>, Rishi Aryal<sup>2</sup>, and Hamid Ashrafi<sup>2</sup>. <sup>1</sup>316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup>North Carolina State University Department of Horticultural Sciences, 234 Kilgore Hall Campus Box 7609, Raleigh, NC 27695. (cxj025@uark.edu)



## HORTICULTURE

- 21G) Winegrape Quality of 'MidSouth' Following Canopy Manipulation in South Mississippi.** 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](mailto:hnw111@msstate.edu))
- 22) Optimizing irrigation scheduling for maximum fruit size in peach orchards in South Carolina.** Juan Carlos Melgar\*, Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29631. ([jmelgar@clemson.edu](mailto:jmelgar@clemson.edu))
- 23G) Impact of Harvest Date on Volatile Components of Arkansas-grown Blackberries.** Jordan P. Chenier\*, Andrea L. Myers, Renee T. Threlfall, Luke R. Howard, and Cindi R. Brownmiller, 2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704. ([jchenier@uark.edu](mailto:jchenier@uark.edu))
- 24) Performance of Selected Blackberry Cultivars in Alabama.** James D. Spiers\*<sup>1</sup> and Edgar Vinson<sup>2</sup>, <sup>1</sup>111 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, <sup>2</sup>Chilton Research and Extension Center, Clanton, AL 35045. ([jds0017@auburn.edu](mailto:jds0017@auburn.edu))
- 25G) Expanding Color and Quality Standards for Fresh-market Muscadine Grapes.** J. Cody Rawls<sup>1\*</sup>, Renee T. Threlfall<sup>1</sup>, Penelope Perkins-Veazie<sup>2</sup>, and Margaret L. Worthington<sup>3</sup>. <sup>1</sup>2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, <sup>2</sup>Plants for Human Health Institute, Department of Horticulture, 600 Laureate Way, Kannapolis, NC 28081. <sup>3</sup>316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. ([rthrelf@uark.edu](mailto:rthrelf@uark.edu))
- 26) Rhizosphere microbiome of grapefruit grown in Florida flatwood soils.** John M. Santiago<sup>1</sup>, Davie M. Kadyampakeni<sup>2</sup>, and Lorenzo Rossi<sup>1\*</sup>. <sup>1</sup>Horticultural Sciences Department, University of Florida, IFAS, Indian River Research and Education Center, Fort Pierce, FL; <sup>2</sup>Soil and Water Sciences Department, University of Florida, IFAS, Citrus Research and Education Center, Lake Alfred, FL. ([l.rossi@ufl.edu](mailto:l.rossi@ufl.edu))

## HORTICULTURE

- 27G) Enlightened Roots: The Effect of Supplemental Light on Root Growth Rate of *Vitis riparia* x *V. rupestris* '101-14', grafted to French American Hybrid 'Traminette'.** Kiara McKenzie-Perry<sup>1\*</sup>, Kyle Freedman<sup>2</sup> and Mark Hoffmann<sup>2</sup>. <sup>1</sup>North Carolina Agriculture and Technical State University, Department of Agriculture and Environmental Systems, Greensboro NC 27441, <sup>2</sup>Department of Horticultural Sciences, NC State University, Raleigh NC 27695. ([knmckenzieperry@aggies.ncat.edu](mailto:knmckenzieperry@aggies.ncat.edu)).
- 28) Seedless Muscadine Fruit Chemistry Changes with Low Temperature Storage.** Penelope Perkins-Veazie\*<sup>1</sup>, Mark Hoffman<sup>2</sup>, and Guoying Ma<sup>1</sup>. <sup>1</sup>North Carolina State University, Plants for Human Health Institute, Department of Horticultural Science, 600 Laureate Way, Kannapolis, NC 28081; <sup>2</sup>North Carolina State University, Department of Horticultural Science, Raleigh, NC 27695 ([penelope\\_perkins@ncsu.edu](mailto:penelope_perkins@ncsu.edu))
- 29G) Investigating the impact of basal leaf removal, and cluster thinning timing, on potassium accumulation in the berries of red wine grapes.** Jacob N. Muras<sup>1\*</sup>, Justin J. Scheiner<sup>1</sup>, and Michael Cook<sup>2</sup>, Department of Horticultural Sciences, <sup>1</sup>Texas A&M University, HSF, 2134 TAMU, College Station, TX 77843, <sup>2</sup>Texas A&M AgriLife Extension Service, 401 W. Hickory St. Denton, TX 76201 ([muras.jacob@tamu.edu](mailto:muras.jacob@tamu.edu))
- 30) Size-Controlling Apple Rootstocks for High Density Orchards in Alabama.** Elina Coneva, Department of Horticulture, Auburn University, Auburn, AL, 36849. ([Edc0001@auburn.edu](mailto:Edc0001@auburn.edu))
- 31G) Nutritional Status of Young Peach Plants on Guardian and MP-29 Rootstocks Under Different Irrigation Scheduling Practices.** Srijana Thapa Magar<sup>1</sup>, George Vellidis<sup>2</sup>, Wesley Porter<sup>2</sup>, Vasileios Liakos<sup>2</sup>, Jose H. Andreis<sup>3</sup>, and Dario J. Chavez<sup>1</sup>, <sup>1</sup>Department of Horticulture, University of Georgia, Griffin Campus, Griffin, GA 30223, <sup>2</sup>Department of Crop and Soil Sciences, University of Georgia, Tifton Campus, Tifton, GA 31793, <sup>3</sup>Austn LTDA ME, Marau, RS 99150-000, Brazil. ([st45674@uga.edu](mailto:st45674@uga.edu))
- 32) Southern Highbush Blueberry Cultivar Fruit Quality Evaluation.** David H. Picha\*, Kathryn K. Fontenot, and Heather Kirk-Ballard. School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803. ([dpicha@agcenter.lsu.edu](mailto:dpicha@agcenter.lsu.edu))

## HORTICULTURE

- 33G) Lab screening of nanocellulose as a freeze protection strategy in southern highbush blueberry.** Hannah M. Elliott<sup>1\*</sup>, Jamal Mohammed<sup>1</sup>, Dario J. Chavez<sup>1</sup>, Sudhagar Mani<sup>2</sup>, Renée M. Holland<sup>3</sup>, and Rachel A. Itle<sup>1</sup>, <sup>1</sup>Department of Horticulture, University of Georgia, UGA– Cowart Building, 210 Cowart Street, Griffin, GA 30223, <sup>2</sup>College of Engineering, University of Georgia, 110 Riverbend Road, Athens, GA 30602, <sup>3</sup>ANR Extension, University of Georgia, 203 S. Dixon Street, Alma, GA 31510. ([hannah.elliott@uga.edu](mailto:hannah.elliott@uga.edu))
- 34) The Effect of Municipal Mulch and Chicken Litter Applied to Peach Orchards on Fruit Blemishes and Marketable Yield.** Sydney Lykins<sup>\*1</sup>, Brian T. Lawrence<sup>1</sup>, Juan Carlos Melgar<sup>1</sup>, and Guido Schnabel<sup>1</sup>. <sup>1</sup> 105 Collings Street, 218 Biosystems Research Complex, Plant and Environmental Sciences Department, Clemson University, Clemson, SC 29634. ([slykins@g.clemson.edu](mailto:slykins@g.clemson.edu))
- 35G) Rapid Digital Phenotyping of Red Drupelet Reversion and Fruit Morphology in Blackberry.** G Mason Chizk<sup>\*</sup>, Margaret Worthington, John R. Clark. 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. ([tmchizk@uark.edu](mailto:tmchizk@uark.edu))
- 36UG) Impacts of Novel Training Methods for the Rotating Cross Arm Trellis on Blackberry Yield and Labor Inputs.** Mataya Duncan <sup>1\*</sup>, Sarah Cato <sup>2</sup>, Lizzy Herrera <sup>2</sup>, Aaron Cato <sup>2</sup>, and Amanda McWhirt <sup>2</sup>, <sup>1</sup> Department of Biology, University of Arkansas at Little Rock, 2801 S. University Ave., Little Rock, AR 72204, <sup>2</sup> Department of Horticulture, University of Arkansas Cooperative Extension Service, 2301 S. University Ave., Little Rock, AR 72204. ([msduncan@ualr.edu](mailto:msduncan@ualr.edu))
- 37G) Survey of Wine Purchasing and Consumption Habits of Consumers of Commercial Arkansas Wines.** Amanda J. Fleming<sup>\*</sup> and Renee T. Threlfall, 12650 N. Young Avenue, Department of Food Science, University of Arkansas, Fayetteville, AR 72704. ([ajflemin@uark.edu](mailto:ajflemin@uark.edu))
- 38) Postharvest Evaluation of Gold Kiwifruit Cultivars Grown in Central Alabama.** James D. Spiers<sup>\*</sup>, 111 Funchess Hall, Department of Horticulture, Auburn University, AL 36849. ([jds0017@auburn.edu](mailto:jds0017@auburn.edu))
- 39G) Fine Mapping of QFD2.2, a Major QTL for Fruit Diameter in Watermelon (*Citrullus lanatus*).** Samuel Manthi<sup>\*</sup> and Cecilia McGregor, Department of Horticulture, University of Georgia, 1111 Plant Sciences Building, Athens, GA 30602, USA. ([samuel.josiah@uga.edu](mailto:samuel.josiah@uga.edu))

## HORTICULTURE

### Vegetable Crops

- 40) Evaluation of Radish Varieties in the Virgin Islands.** Daryl A. Richards, Jr.<sup>\*</sup>, Jessica Ewer, and Thomas W. Zimmerman, Agricultural Experiment Station, University of the Virgin Islands, 10,000 Castle Burke, Kingshill, VI 00850. ([daryl.richards@uvi.edu](mailto:daryl.richards@uvi.edu))
- 41G) Evaluating Waterlogging Stress on the Morphological and Gas Exchange Parameters of Cowpea (*Vigna unguiculata* (L.) Walp.) Genotypes Under Field Conditions.** Omolayo J. Olorunwa<sup>\*</sup>, Bikash Adhikari, and T. Casey Barickman, Department of Plant and Soil Sciences, Mississippi State University, North Mississippi Research and Extension Center, Verona, MS, 38879. ([ojo26@msstate.edu](mailto:ojo26@msstate.edu))
- 42) V Evaluation of Specialty Pumpkin Varieties in Arkansas.** Drew E. Kirkpatrick<sup>1\*</sup>, Matthew B. Bertucci<sup>1</sup>, Jeremie Kouame<sup>2</sup>, Kayla Knepp<sup>1</sup>, Rachel C. Woody-Pumford<sup>1</sup>, Jonathan M. McArthur<sup>1</sup>, and Conner O. Cravens<sup>1</sup>, <sup>1</sup>316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup>115 Plant Science, Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR 72701. ([dedillio@uark.edu](mailto:dedillio@uark.edu))
- 43G) Aeroponic production of lettuce promotes biomass and root growth in comparison to hydroponic production methods.** Kamron Newberry, Vikram Baliga, and Catherine Simpson, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409 ([Kamron.Newberry@ttu.edu](mailto:Kamron.Newberry@ttu.edu))
- 44G) Photosynthetic Efficiency, Chlorophyll Fluorescence, and CO<sub>2</sub> Responses of Net Assimilation are Impacted by Seed Priming and Salt Stress in Lettuce (*Lactuca sativa* L.).** Bikash Adhikari<sup>\*</sup>, Omolayo J. Olorunwa, and T. Casey Barickman, Department of Plant and Soil Sciences, Mississippi State University, North Mississippi Research and Extension Center, Verona, MS, 38879. ([ba917@msstate.edu](mailto:ba917@msstate.edu))
- 45) Influence of potting and soil type on quality and yield of muskmelons in the U.S. Virgin Islands.** Jessica Ewer<sup>1\*</sup>, Thomas W. Zimmerman<sup>1</sup>, and Henry O. Awika<sup>1,2</sup>. <sup>1</sup>School of Agriculture, Agricultural Experiment Station, University of the Virgin Islands, 10,000, Kingshill, VI 00850. <sup>2</sup>School of Agriculture, Cooperative Extension Service, University of the Virgin Islands, 10,000, Kingshill, VI 00850. ([Jessica.ewer@uvi.edu](mailto:Jessica.ewer@uvi.edu))

## HORTICULTURE

- 46G) Impacts of Carbamazepine Rates on Lettuce (*Lactuca sativa* var. capitata) Growth in Hydroponics Systems.** Emily Stamm\*<sup>1</sup>, Clinton Williams<sup>2</sup>, Cade Coldren<sup>1</sup>, Catherine Simpson<sup>1</sup>, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409, 2US Arid-Land Agricultural Research Center, 21881 North Cardon Lane, Maricopa, AZ 85138. ([emstamm@ttu.edu](mailto:emstamm@ttu.edu))
- 47UG) The Effects of Salinity on Broccoli (*Brassica oleracea*) and Purslane (*Portulaca oleracea*) Microgreens.** Gretchen Plocek\* and Catherine Simpson, Department of Plant and Soil Sciences, Texas Tech University, Lubbock, TX 79409. ([gplocek@ttu.edu](mailto:gplocek@ttu.edu))
- 48G) Effects of Se on growth and physiochemical properties in hydroponically produced Indian Mustard (*Brassica juncea* cv. Red Giant): Savannah.** Cognasi\*<sup>1</sup>, Matthew Siebecker<sup>1</sup>, Clinton Williams<sup>2</sup>, and Catherine Simpson<sup>1</sup> <sup>1</sup>Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409, <sup>2</sup>US Arid-Land Agricultural Research Center, Maricopa, AZ 85138. ([savannah.cognasi@ttu.edu](mailto:savannah.cognasi@ttu.edu))
- 49) Influence of Sweetpotato Spacing on Yield in the Virgin Islands.** Samuel Joseph\* and Thomas W. Zimmerman, Agricultural Experiment Station, University of the Virgin Islands, 10,000 Castle Burke, Kingshill, VI 00850. ([tzimmer@uvi.edu](mailto:tzimmer@uvi.edu))
- 50G) Effect of different colored shade nets on quality and growth of hydroponic lettuce and basil.** Harpreet Singh\*, Bruce L. Dunn. Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74075 ([harpreet.singh11@okstate.edu](mailto:harpreet.singh11@okstate.edu))
- 51) Organoleptic Attributes of Best Adapted Strawberry Cultivars for Alabama.** Edgar Vinson\*<sup>1</sup>, P. Perkins-Veazie<sup>2</sup>, Elina Coneva<sup>1</sup>, and M. Price<sup>3</sup>. <sup>1</sup>Department of Horticulture, Auburn University, 101 Funchess Hall, Auburn, AL 36849. <sup>2</sup>600 N.C. State University, Laureate Way, Kannapolis, NC 28081. <sup>3</sup>Chilton Research and Extension Center, 120 County Road 756, Clanton, AL 35045, ([vinsoed@auburn.edu](mailto:vinsoed@auburn.edu))
- 52G) Elevated Levels of Iron Influences Physiological Performance, Yield, and Soluble Sugar and Phytonutrient Concentrations of Lettuce (*Lactuca sativa* L.).** Travis Blanche\*, Bikash Adhikari, Thomas Horgan, Jeff Wilson, and T. Casey Barickman. Department of Plant and Soil Sciences, Mississippi State University, North Mississippi Research and Extension Center, Verona, MS, 38879. ([jtb804@msstate.edu](mailto:jtb804@msstate.edu))

## HORTICULTURE

- 53G) Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>) Effects on Lettuce, Basil, and Algae in an Ebb and Flow Hydroponic System.** Teal Hendrickson\* and Bruce Dunn. 358 Ag Hall, Department of Horticulture and Landscape Architecture, Stillwater, OK 74078 ([teal.hendrickson@okstate.edu](mailto:teal.hendrickson@okstate.edu))
- 54) Plant Growth and Yield and Incidence of Tomato Yellow Leaf Curl Virus in Tomato Cultivars.** Diaz-Perez, Juan C.<sup>1</sup>, Calob Guerra<sup>1</sup>, and Sudeep Bag<sup>2</sup>, <sup>1</sup>Department of Horticulture and <sup>2</sup>Department of Plant Pathology, University of Georgia, Tifton Campus, Tifton, GA 31793 ([jcdiaz@uga.edu](mailto:jcdiaz@uga.edu)).
- 55G) Seed Priming and Salt Stress Impacts Germination, Phenotypic Traits, and Biomass Accumulation of Lettuce (*Lactuca sativa* L.).** Bikash Adhikari\*, Omolayo J. Olorunwa, Thomas Horgan, and T. Casey Barickman, Department of Plant and Soil Sciences, Mississippi State University, North Mississippi Research and Extension Center, Verona, MS, 38879. ([ba917@msstate.edu](mailto:ba917@msstate.edu))
- 56) Spring Fresh Market Brussel Sprouts Variety Trial in Oklahoma.** Bizhen Hu<sup>2</sup>, Izzy Gonzales<sup>1\*</sup>, Lynn Brandenberger<sup>2</sup>, and Matthew Beartrack<sup>2</sup>, <sup>1</sup>Department of Environmental Science, Oklahoma State University, Stillwater, OK 74078, <sup>2</sup>Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. ([bizhen.hu@okstate.edu](mailto:bizhen.hu@okstate.edu))
- 57UG) Seedless Watermelon Variety Trial Grown in Arkansas.** Rachel C. Woody-Pumford<sup>1\*</sup>, Matthew B. Bertucci<sup>1</sup>, Drew Kirkpatrick<sup>1</sup>, Darrin G. Henderson<sup>2</sup>, and Kayla Knepp<sup>1</sup>, <sup>1</sup>Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup>University of Arkansas Division of Agriculture Research & Extension, Huntsville, AR 72740. ([rxw025@uark.edu](mailto:rxw025@uark.edu))
- 58G) Functional Roles of Diverse Colored Sweetpotatoes Varieties (*Ipomoea batatas* L.) and its Tops.** Kaitlyn Hapke\*, and. Islam, S. Department of Agriculture / Agricultural Regulations, University of Arkansas at Pine Bluff, 148 Woodard Hall, 1200 North University Drive, Mail Slot 4913, Pine Bluff, AR 71601 ([islams@uapb.edu](mailto:islams@uapb.edu))

## HORTICULTURE

### Cross-Commodity

#### 59) A Survey on Growers' Awareness Related to On-Farm Food Safety and Conservation Practices in the Southeastern United States.

Camila Rodrigues<sup>1</sup>, Kristin Woods<sup>2</sup>, Laurel Dunn<sup>3</sup>. <sup>1</sup>Department of Horticulture, Auburn University, Auburn, AL 36849 ([crodrigues@auburn.edu](mailto:crodrigues@auburn.edu)), <sup>2</sup>Alabama Cooperative Extension System, Auburn University, Auburn, AL 36049, <sup>3</sup>Department of Food Science & Technology, University of Georgia, Athens, GA 30602.

#### 60G) Plant Selection for Floating Treatment Wetlands in Brackish Waters.

Andrea C. Landaverde<sup>1\*</sup>, Sarah A. White<sup>2</sup>, and William H.J. Strosnider<sup>3</sup>, <sup>1</sup>Department of Biological Sciences, Clemson University, Clemson, SC 29631, <sup>2</sup>Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29631, <sup>3</sup>Baruch Marine Field Laboratory, University of South Carolina, Georgetown, SC 29440. ([alandav@clemson.edu](mailto:alandav@clemson.edu))

#### 61) Impact of preplant fumigation with Pic-Clor 60 on hemp yields in Georgia.

Timothy Coolong\*, Amanda Marabesi, and Noelle Joy, Department of Horticulture, University of Georgia, Athens, GA 30602. ([tcoolong@uga.edu](mailto:tcoolong@uga.edu))

#### 62) Influence of soil temperature on plant available nitrogen from organic fertilizers.

Hanna de Jesus<sup>1</sup>, Kate Cassity-Duffey<sup>1</sup>, Miguel Cabrera<sup>2</sup>, Andre da Silva<sup>3</sup>, Bhabesh Dutta<sup>4</sup>, and Timothy Coolong<sup>1</sup>, <sup>1</sup>11111 Miller Plant Sciences, University of Georgia, Athens, GA 30602, <sup>2</sup>4119 Plant Sciences Bldg., University of Georgia, Athens, GA 30602, <sup>3</sup>124 Funchess Hall, Auburn University, Auburn, AL 36849, <sup>4</sup>2360 Rainwater Rd., University of Georgia, Tifton, GA 31793. ([tcoolong@uga.edu](mailto:tcoolong@uga.edu))

#### 63) Screening of 28 Hemp Varieties and Analysis of Spatial Distribution and Seasonal Development of Cannabinoids.

Kaylee Deynzer\*, Gerald Myers, Kathryn Fontenot, Heather Kirk-Ballard, Department of Horticulture, Louisiana State University, Baton Rouge, LA 70803.

#### 64UG) Influence of Flue Gas Desulfurization Gypsum on Phosphorus Loss in Pine Bark Substrates.

Landon Erbrick<sup>1\*</sup>, Paul Bartley<sup>1</sup>, Dexter Watts<sup>2</sup>, Allen Torbert<sup>2</sup>, <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849. <sup>2</sup>USDA-ARS National Soil Dynamics Laboratory, Auburn, AL 36832. ([pcb0004@auburn.edu](mailto:pcb0004@auburn.edu))

## HORTICULTURE

#### 65) Pollinating the Field to Achieve the Yield; Program for Native Habitat On-Farm Assistance.

Olivia Fuller<sup>1</sup>, Camila Rodrigues<sup>2</sup>, Kristin Woods<sup>1</sup>, Ayanava Mujumdar<sup>1</sup>. <sup>1</sup>Alabama Cooperative Extension System, Auburn University, Auburn, AL 36049, <sup>2</sup>Department of Horticulture, Auburn University, Auburn, AL 36849.

#### 66) Eggplant Biomass is Significantly Higher in Composted Spent Coffee Grounds than Non-Composted Spent Coffee Grounds Across All Treatments, But Not Basil Biomass.

Amanda L. Birnbaum<sup>1\*</sup>, Benjamin G. Wherley<sup>2</sup>, David W. Reed<sup>1</sup>, <sup>1</sup>Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133, <sup>2</sup>Soil and Crop Sciences Texas A&M University, College Station, TX 77843-2133. ([abirnbaum@tamu.edu](mailto:abirnbaum@tamu.edu))

### Extension

#### 67) Making a Difference: K-State Garden Hour Webinar Series Improves Lives.

Cheryl R. Boyer<sup>1\*</sup>, Matthew McKernan<sup>2</sup>, and Russell P. Boyer<sup>3</sup>. <sup>1</sup>1712 Claflin Rd., Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS 66506, <sup>2</sup>7001 W. 21<sup>st</sup> St. N., K-State Research and Extension Sedgwick County, Wichita, KS 67205, <sup>3</sup>1301 Lovers Lane, Department of Management, Kansas State University, Manhattan, KS 66506. ([crboyer@k-state.edu](mailto:crboyer@k-state.edu)).

## SECTION TITLES

### EDUCATION

**Room:** Napoleon C2

**Presiding:** Garry McDonald, Chair Education

**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: [gmcdonal@uark.edu](mailto:gmcdonal@uark.edu)

#### 8:00 Putting the Meta in Metasequoia:

**Horticulture for a Virtual Environment.** Lucy K. Bradley<sup>1\*</sup>, Laura Barth<sup>1</sup>, Christine Bradish<sup>1</sup>, Susan Caldwell<sup>2</sup>, Lauren Campbell<sup>2</sup>, Matthew Ross<sup>2</sup>, and Matthew Thomas<sup>2</sup>, <sup>1</sup>NC State University Department of Horticultural Science, Box 7609, Raleigh, NC 27695,

<sup>2</sup>Longwood Gardens Department of Continuing Education, 1001 Longwood Rd., Kennett Square, PA 19348 ([Lucy\\_Bradley@ncsu.edu](mailto:Lucy_Bradley@ncsu.edu))

## HORTICULTURE

- 8:15 What does trace data tell us about student self-regulated learning ability?** Dan Ye<sup>1</sup>, Bodie Pennisi<sup>2\*</sup>, and Lloyd Rieber<sup>3</sup>, <sup>1</sup>Michigan Tech University, William G. Jackson Center for Teaching and Learning, Houghton, MI, 49931, <sup>2</sup>Department of Horticulture, University of Georgia Griffin-Campus, Griffin, GA 30223, <sup>3</sup>College of Education, University of Georgia-Athens, Athens, GA 30602, (bpennisi@uga.edu)

### EXTENSION

**Room:** Napoleon C2

**Presiding:** Amanda McWhirt, Chair

**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: amcwhirt@uada.edu

- 8:30 Expanding Training Opportunities for Therapeutic Horticulture with Online Learning: A Partnership between North Carolina Botanical Garden and NC State Extension Gardener.** Sally Haskett<sup>1</sup> Christine Bradish<sup>2\*</sup>, Alta Zhang<sup>3</sup>, Emilee Weaver<sup>4</sup>, Joanna Massey Lelekacs<sup>1</sup>, and Lucy Bradley<sup>2</sup>, <sup>1</sup>North Carolina Botanical Garden, University of North Carolina at Chapel Hill, <sup>2</sup>Department of Horticultural Science, North Carolina State University, <sup>3</sup>Extension Information Technology, North Carolina State University, <sup>4</sup>NC Central Regional State Psychiatric Hospital. (cmbradis@ncsu.edu)

- 8:45 Establishing the Arkansas Quality Wine Program.** Renee T. Threlfall<sup>1\*</sup>, Amanda J. Fleming<sup>1</sup>, and Amanda L. McWhirt<sup>2</sup>, <sup>1</sup>2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, <sup>2</sup>2301 S. University Ave., Cooperative Extension Service, University of Arkansas, Little Rock, AR 72204. (rthrelf@uark.edu)

- 9:00 A Nationwide Survey of Grower Extension Needs Associated with Soilless Substrate Adoption.** Alexa J. Lamm<sup>1</sup>, Kristin E. Gibson<sup>1\*</sup>, Kevan. W. Lamm<sup>1</sup>, Jeb S. Fields<sup>2</sup>, and James Owen<sup>3</sup>, <sup>1</sup>132 Four Towers, Department of Agricultural Leadership, Education and Communication, University of Georgia, Athens, GA 30602, <sup>2</sup>21549 Old Covington Highway, Hammond Research Station, Louisiana State University, Hammond, LA 70403, <sup>3</sup>1680 Madison Ave., Agricultural Engineering Building, USDA ARS, Wooster, OH 44691. (alamm@uga.edu)

## HORTICULTURE

- 9:15 Informed Decision-making or Guesswork? Examining How Residents Adjust Their Irrigation Based on Local Rainfall.** Colby Silvert<sup>1\*</sup>, Cody Gusto<sup>1</sup>, John Diaz<sup>1</sup>, Laura Warner<sup>1</sup>, and Robin Grantham<sup>2</sup>, <sup>1</sup>Department of Agricultural Education & Communication, University of Florida, 305 Rolfs Hall, PO Box 110540, Gainesville, FL 32611-0690, <sup>2</sup>Southwest Florida Water Management District, 2379 Broad Street, Brooksville, FL 34604. (colby.silvert@ufl.edu)

- 9:30 Integrated Extension Approaches to Support Small-Scale Hops Production in Arkansas.** Lizzy Herrera<sup>1\*</sup>, Amanda McWhirt<sup>1</sup>, Renee Threlfall<sup>2</sup>, Aaron Cato<sup>1</sup>, Sarah Cato<sup>1</sup>, and James McClellan<sup>3</sup>, <sup>1</sup>2301 S. University Ave, Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR 72204, <sup>2</sup>2435 N. Hatch Ave., Department of Food Science, University of Arkansas System Division of Agriculture, Fayetteville, AR 72704, <sup>3</sup>1749 State Hwy 818, Arkansas Agricultural Experiment Station Fruit Research Station, Clarksville, AR 72830. (lherrera@uada.edu)

- 9:45 Helping Small Farmers Transition to Federal Hemp Regulations.** Sanjun Gu\* and Randy Fulk, Cooperative Extension, North Carolina A&T State University, Greensboro, NC 27411. (sgu@ncat.edu)

### 10:00 Break

- 10:15 A Conversation with Growers: Exploring Soilless Substrate Adoption to Inform Extension Program Development.** Alexa J. Lamm<sup>1\*</sup>, Kevan. W. Lamm<sup>1</sup>, Kristin E. Gibson<sup>1</sup>, Jeb S. Fields<sup>2</sup>, and James Owen<sup>3</sup>, <sup>1</sup>132 Four Towers, Department of Agricultural Leadership, Education and Communication, University of Georgia, Athens, GA 30602, <sup>2</sup>21549 Old Covington Highway, Hammond Research Station, Louisiana State University, Hammond, LA 70403, <sup>3</sup>1680 Madison Ave., Agricultural Engineering Building, USDA ARS, Wooster, OH 44691. (alamm@uga.edu)

- 10:30 A Perspective on Tweeting.** Eric T. Stafne\*, Coastal Research and Extension Center, Mississippi State University, Poplarville, MS 39470. (eric.stafne@msstate.edu)

## HORTICULTURE

- 10:45 Assessing the Effectiveness of Webinars for Training Growers & Cooperative Extension Agents in Small Fruit Production.** Sarah Cato<sup>1</sup>, Amanda McWhirt<sup>1\*</sup>, Lizzy Herrera<sup>1</sup>, Aaron Cato<sup>1</sup> and Mary Poling<sup>2</sup>, <sup>1</sup>2301 S. University Ave., Department of Horticulture, University of Arkansas System Divisions of Agriculture, Cooperative Extension Service, Little Rock, AR 72204, <sup>2</sup>2301 S. University Ave., Department of Information Technology, University of Arkansas System Division of Agriculture Cooperative Extension Service, Little Rock, AR 72204. (amcwhirt@uada.edu)
- 11:00 NC A&T Plasticulture Publications and Resources for Small Farmers.** Randy Fulk\* and Sanjun Gu, Cooperative Extension at North Carolina Agricultural and Technical State University, Greensboro, NC 27419. (rafulk@ncat.edu)
- 11:15 “I Want to Be a Contributor”: Perceptions, Barriers, and Strategies Surrounding Residential Pollinator Gardening.** Cody Gusto<sup>1\*</sup>, Colby Silvert<sup>1</sup>, John Diaz<sup>1</sup>, Laura A. Warner<sup>1</sup>, and Rachel Mallinger<sup>2</sup>, <sup>1</sup>Department of Agricultural Education & Communication, 411 Rolfs Hall, 341 Buckman Dr., University of Florida, Gainesville, FL 32611-0690, <sup>2</sup>Entomology and Nematology Department, University of Florida, Steinmetz Hall, 1881 Natural Area Dr., Gainesville, FL 32611-0690. (cgusto@ufl.edu)
- 11:30 Industry Certification Post-Pandemic.** Bodie Pennisi<sup>1\*</sup> and Greg Huber<sup>2</sup>, <sup>1</sup>Department of Horticulture, University of Georgia Griffin-Campus, Griffin, GA 30223, <sup>2</sup>Center for Urban Agriculture, University of Georgia Griffin-Campus, Griffin, GA 30223. (bpennisi@uga.edu)
- 11:45 Utilizing Statewide Cooperative Extension Agent Demonstrations to Enhance Specialty Crop Recommendations.** Aaron Cato\* and Amanda McWhirt, 2301 S. University Ave., Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR 72204. (acato@uada.edu)
- 12:00 How Alabama Extension Commercial Horticulture Program Team utilized social media and evaluation metrics for virtual event planning during and post- COVID-19 pandemic.** Ayanava Majumdar<sup>1\*</sup>, Ann Chambliss<sup>1</sup>, Harli Willis<sup>1</sup>, Edward Sikora<sup>1</sup>, Katelyn Kesheimer<sup>1</sup>, Jeremy Pickens<sup>2</sup>, Edgar Vinson<sup>3</sup>, Elina Coneva<sup>4</sup>, Joe Kemble<sup>4</sup>, Andre da Silva<sup>4</sup>, David Han<sup>5</sup>, Rishi Prasad<sup>5</sup>, Audrey Gamble<sup>5</sup>, Steve Li<sup>5</sup>, Adam Rabinowitz<sup>6</sup>, Jim

## HORTICULTURE

- Jacobi<sup>7</sup>, Kassie Conner<sup>8</sup>, Sonja Thomas<sup>9</sup>, and Matt Ulmer<sup>10</sup>, <sup>1</sup>Department of Entomology and Plant Pathology, Auburn University, Auburn, AL, 36849, <sup>2</sup>Ornamental Horticulture Research Center, PO Box 8276, Mobile, AL 36689, <sup>3</sup>Chilton Regional Research and Extension Center, 120 County Road 756, Clanton, AL 35045, <sup>4</sup>Department of Horticulture, Auburn University, Auburn, AL 36849, <sup>5</sup>Department of Crop, Soil, and Environmental Sciences, Auburn University, Auburn, AL 36849, <sup>6</sup>Department of Agricultural Economics and Rural Sociology, Auburn University, Auburn, AL 36849, <sup>7</sup>C. Beaty Hanna Horticulture and Environmental Center, 2612 Lane Park Road Birmingham, AL 35223, <sup>8</sup>Plant Diagnostic Center, 143 ALFA Building, Auburn University, Auburn, AL 36849, <sup>9</sup>245 E Duncan Hall, Auburn University, Auburn, AL 36849, <sup>10</sup>105 Duncan Hall, Auburn University, Auburn, AL 36849. (azm0024@auburn.edu)
- 12:15 Lunch Break**
- 1:00 Strategic Planning for Georgia’s Extension Master Gardener Program: Environmental Attitudes as a Measure of Commitment Among Generations.** Sheri Dorn<sup>1\*</sup>, Paul Pugliese<sup>2</sup>, Joel Burnsed<sup>3</sup>, Timothy Daly<sup>4</sup>, Cynthia McCrary<sup>5</sup>, and Kathy Hensley<sup>6</sup>, <sup>1</sup>1109 Experiment Street, Department of Horticulture, University of Georgia, Griffin, GA 30223, <sup>2</sup>University of Georgia Extension, Bartow County, 320 West Cherokee Avenue Room 112 Cartersville, GA 30120-3059, <sup>3</sup>University of Georgia Extension, Walton County, 100 North Broad St. Monroe, GA 30655, <sup>4</sup>University of Georgia Extension, Gwinnett County, 750 South Perry Street, Suite 400 Lawrenceville, GA 30046-4804, <sup>5</sup>University of Georgia Extension, Fayette County, 140 Stonewall Avenue W Suite 209 Fayetteville, GA 30214-1520, <sup>6</sup>University of Georgia Extension, Bibb County, 145 First Street Macon, GA 31201-2627. (sdorn@uga.edu)
- 1:15 Horticulture CSI: Long Beach Radish Case Closed.** Gary R. Bachman<sup>1\*</sup>, Christine E.H. Coker<sup>1</sup> and Patricia R. Knight<sup>2</sup>, <sup>1</sup>Coastal Research and Extension Center, Mississippi State University, 1815 Popp’s Ferry Road, Biloxi, MS 38532, <sup>2</sup>Coastal Horticulture Research, South Mississippi Branch Station, Poplarville, MS (gary.bachman@msstate.edu)

## HORTICULTURE

- 1:30 Extension Gardener Plant Toolbox: Reaching Wider Audiences through National Partnerships.** Lucy K. Bradley<sup>1\*</sup>, Kathleen A. Moore<sup>1</sup>, Matthew P. Ross<sup>2</sup>, Andy Pulte<sup>3</sup>, Grant L. Thompson<sup>4</sup>, Ryan Contreras<sup>5</sup>, Laura Barth<sup>1</sup>, and Lis Meyer<sup>1</sup>, <sup>1</sup>Department of Horticulture, North Carolina State University, 2721 Founders Dr., Raleigh, NC 27695, <sup>2</sup>Longwood Gardens 1001 Longwood Rd., Kennett Square, PA 19348, <sup>3</sup>Department of Plant Science, University of Tennessee Institute of Agriculture, 2505 E J Chapman Dr., Knoxville, TN 37996, <sup>4</sup> Department of Horticulture, Iowa State University, 137 Horticulture Hall, Ames, IA 50011, <sup>5</sup> Agriculture & Life Sciences, Oregon State University, 4017 Agriculture & Life Sciences, Corvallis, OR 97331. (lucy\_bradley@ncsu.edu)
- 1:45 Multi-state Extension Publication Series Highlights the Benefits of Consumer Horticulture to Society and Provides Basis for Further Education Efforts.** Heather Kirk-Ballard<sup>1\*</sup>, Natalie R. Bumgarner<sup>2</sup>, Ellen M. Bauske<sup>3</sup>, Pam J. Bennett<sup>4</sup>, David D. Close<sup>5</sup>, Sheri Dorn<sup>3</sup>, Richard E. Durham<sup>6</sup>, Carl I. Evensen<sup>7</sup>, Terri James<sup>8</sup>, Jeff S. Keuhn<sup>1</sup>, Bodie Pennisi<sup>3</sup>, Robert F. Polomski<sup>9</sup>, Kerry Smith<sup>10</sup>, and Katie Walberg<sup>2</sup>, <sup>1</sup>School of Plant, Environmental, and Soil Sciences, Louisiana State University, Baton Rouge, LA 70803, <sup>2</sup>Plant Sciences Department, University of Tennessee, Knoxville, TN 37996, <sup>3</sup>Department of Horticulture, University of Georgia, Griffin, GA 30223, <sup>4</sup>The Ohio State University, Springfield, OH 45505, <sup>5</sup>School of Plant & Environmental Sciences, Virginia Tech University, Blacksburg, VA 24061, <sup>6</sup>Department of Horticulture, University of Kentucky, Lexington, KY 40546, <sup>7</sup>Department of Natural Resources and Environmental Management, University of Hawai'i at Manoa, Honolulu, HI 96822, <sup>8</sup>Department of Agronomy & Horticulture, University of Nebraska-Lincoln, Lincoln, NE 68583, <sup>9</sup>Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29634, <sup>10</sup>Alabama Cooperative Extension System, Auburn University, Auburn University, AL 36849. (hkirkballard@agcenter.lsu.edu)

## HORTICULTURE

- 2:00 County Fair Grounds as Food Innovation Hubs in Arkansas Despite the Pandemic.** Amanda Philyaw Perez<sup>1\*</sup>, Renee Threlfall<sup>2</sup>, Ruben Morawicki<sup>2</sup>, Angela Gardner<sup>1</sup>, and Mallory Eggleton<sup>1</sup>, <sup>1</sup>2301 S. University Ave, Department of Horticulture, University of Arkansas Cooperative Extension Service, Little Rock, AR 72204, 22650 Young Ave., <sup>2</sup>Department of Food Science, University of Arkansas Division of Agriculture, Fayetteville, AR, 72704. (aperez@uada.edu)
- 2:15 Creating a Campus-wide Student Community Garden.** Kathryn K. Fontenot\* and Edward W. Bush, School of Plant, Environmental, and Soil Sciences, LSU AgCenter, Baton Rouge, LA 70803. (kkfontenot@agcenter.lsu.edu)
- 2:30 Commercial Nursery Hurricane Guide.** Tom Yeager<sup>1\*</sup> and Michael Gavazzi<sup>2</sup>, <sup>1</sup>Department of Environmental Horticulture, University of Florida, IFAS, Gainesville, FL 32611, <sup>2</sup>USDA Forest Service, Southern Research Station, Southeast Climate Hub, Research Triangle Park, NC 27709. (yeagert@ufl.edu)
- 2:45 Extension Gardener: Horticulture Training Made Easy through an Online Customizable Tool.** Lucy K. Bradley\*, and Kathleen A. Moore, Department of Horticulture, North Carolina State University, 2721 Founders Dr., Raleigh, NC 27695. (lucy\_bradley@ncsu.edu)
- 3:00 Break**
- 3:15 Hammond Trials: A Trial Garden's Perspective on Virtual Extension.** Jeb S. Fields\*, Ashley Edwards, Maureen Thiessen, and Jason Stagg, Hammond Research Station, Louisiana State University Agricultural Center, Hammond, LA 70403. (JSFields@agcenter.lsu.edu)
- 3:30 Changes in Consumer Purchasing Behavior of Fresh Fruits and Vegetables During the COVID-19 Pandemic.** Lauri M. Baker<sup>1\*</sup>, Hikaru H. Peterson<sup>2</sup>, and Cheryl R. Boyer<sup>3</sup>, <sup>1</sup>1408 Sabal Palm Drive, Level 2, Department of Agricultural Education and Communication, University of Florida, Gainesville, FL 32611, <sup>2</sup>1994 Buford Ave., Department of Applied Economics, University of Minnesota, St. Paul, MN 55108, <sup>3</sup>1712 Claflin Rd., Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS 66506. (lauri.m.baker@ufl.edu).

## HORTICULTURE

- 3:45 Farm to School Directly Benefits Local and Regional Food Systems.** Carl Motsenbocker\*, Crystal Besse, Denyse Cummins, Jacey Wesley, and Alessandro Holzapfel, School of Plant, Environmental and Soil Sciences, LSU AgCenter, Baton Rouge, LA 70803. (cmotsenbocker@agcenter.lsu.edu)
- 4:00 Small 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)
- 4:15 K-State Garden Hour Webinar Series Facilitated Behavior Change and Improved Quality of Life During the COVID-19 Pandemic.** Cheryl R. Boyer<sup>1\*</sup> and Matthew McKernan<sup>2</sup>, <sup>1</sup>1712 Claflin Rd., Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS 66506, <sup>2</sup>7001 W. 21<sup>st</sup> St. N., K-State Research and Extension Sedgwick County, Wichita, KS 67205. (crboyer@k-state.edu)
- 4:30 Twenty Years of the LSU AgCenter's Get It Growing Extension Program - Teaching Louisiana about Gardening through Multi-Media.** Heather Kirk-Ballard\*, School of Plant, Environmental, and Soil Sciences, Louisiana State University, Baton Rouge, LA 70803. (hkirkballard@agcenter.lsu.edu)
- 4:45 Educating Inmates in Horticulture for Post-Release Employment Opportunities.** Jeff C. Wilson<sup>1\*</sup>, T. Casey Barickman<sup>1</sup>, and Scott Cagle<sup>2</sup>, <sup>1</sup>Mississippi State University, North Mississippi Research & Extension Center, Verona, MS 38879, <sup>2</sup>Mississippi State University, Former Chickasaw County Extension Agent, Houston, MS 38851. (jeff.wilson@msstate.edu)

### FRUIT CROPS

**Room:** Napoleon B1

**Presiding:** Edgar Vinson, Chair

**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: vinsoed@auburn.edu

- 8:00 'Indulgence' and 'Dazzle' Wine Grapes for the Mid-South.** John R. Clark\*, Renee Threlfall, and Margaret Worthington, Depts. of Horticulture and Food Science, 316 Plant Science, University of Arkansas, Fayetteville, AR 72701. (jrclark@uark.edu)

## HORTICULTURE

- 8:15 Wine Production of 'Indulgence' and 'Dazzle' Wine Grapes for the Mid-South.** Renee T. Threlfall<sup>1\*</sup>, John R. Clark<sup>2</sup>, and Margaret L. Worthington<sup>2</sup>, <sup>1</sup>2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, <sup>2</sup>316 Plant Science, Horticulture Department, University of Arkansas, Fayetteville, AR 72701. (rthrelf@uark.edu)
- 8:30 Planting Date Influence on Strawberry Variety Yield and Revenues in Texas.** Russell W. Wallace<sup>1\*</sup>, Peter A. Ampim<sup>2</sup>, D. Thayne Montague<sup>3</sup>, Dale Rankin<sup>4</sup>, and Larry Stein<sup>5</sup>, <sup>1</sup>Department of Horticultural Sciences, Texas A&M AgriLife Extension, 1102 E. Drew St., Lubbock, 79403, <sup>2</sup>Cooperative Agriculture Research Center, MS 2008, CARC Building, Prairie View A&M University, Prairie View, 77446, <sup>3</sup>Department of Plant & Soil Sciences, Texas Tech University and Texas A&M AgriLife Research, Lubbock, 79409, <sup>4</sup>Texas A&M AgriLife Extension, Atascosa County, 25 E. 5<sup>th</sup> St., Leming, and <sup>5</sup>Department of Horticultural Sciences, Texas A&M AgriLife Extension, 1619 Garner Field Rd., Uvalde. (rwallace@ag.tamu.edu)
- 8:45 Performance of Geneva and Vineland Apple Rootstocks in South Carolina.** Gregory L. Reighard\* and David Ouellette. Department of Plant & Environmental Sciences, Clemson University, Clemson, SC 29634-0310. (grghrd@clemson.edu)
- 9:00 Fall Row Cover Use and Planting Date Impacts on Crown Size and Yield of Five Strawberry Cultivars.** Amanda McWhirt\*, Lizzy Herrera and Sarah Cato, 2301 S. University Ave., Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR 72204. (amcwhirt@uada.edu)
- 9:15 Assessment of intraspecific compatibility among *Passiflora incarnata* genotypes from different provenances.** Eric T. Stafne\*, Coastal Research and Extension Center, Mississippi State University, Poplarville, MS 39470. (eric.stafne@msstate.edu).
- 9:30 Break**
- 9:45 Response of Seedling Blackberries Treated with Preemergent Herbicides.** Kayla Knepp<sup>1\*</sup>, Matthew B. Bertucci<sup>1</sup>, Amanda L. Mcwhirt<sup>2</sup>, Nilda R. Burgos<sup>3</sup>, Aaron J. Cato<sup>2</sup>, Drew E. Kirkpatrick<sup>1</sup>, and Rachel C. Woody-Pumford<sup>1</sup>, <sup>1</sup>316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup>2301 S. University,



## HORTICULTURE

Department of Horticulture, University of Arkansas Cooperative Extension Service, Little Rock, AR 72204, <sup>3</sup>1354 W Altheimer Drive, Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR 72704. (kknepp@uark.edu)

- 10:00 Influence of Light Level on Leaf Gas Exchange and Fruit Production of Two Strawberry (*Fragaria x ananassa*) Cultivars Grown in Texas.** D. Thayne Montague<sup>1,2\*</sup>, Russell W. Wallace<sup>2</sup>, Peter A. Ampim<sup>3</sup>, Dale Rankin<sup>4</sup>, and Larry Stein<sup>5</sup>, <sup>1</sup>Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409, <sup>2</sup>Texas A&M AgriLife Research and Extension Center, Lubbock, TX 79403, <sup>3</sup>Cooperative Agriculture Research Center, Prairie View A&M University, Prairie View, TX 77446, <sup>4</sup>Texas A&M AgriLife Extension, Atascosa County, Leming, TX 78050, <sup>5</sup>Department of Horticultural Sciences, Texas A&M AgriLife Extension, Uvalde, TX 78801. (thayne.montague@ttu.edu)
- 10:15 Evaluation of New Grape Cultivars in Texas.** Justin J. Scheiner\* and Fran Pontasch, Department of Horticultural Sciences, Texas A&M AgriLife Extension Service, HSFB, 2134 TAMU, College Station, TX 77843. (jscheiner@tamu.edu)
- 10:30 A public-private partnership to uncover genetic treasures in Rubus.** Katie Sheehan-Lust\* and Gina Fernandez, Department of Horticultural Science, 260 Kilgore Hall, Campus Box 7609, Raleigh, NC 27695-7609. (kesheeha@ncsu.edu)
- 10:45 Effect of Planting Distance on Yield and Fruit Quality of PD Resistant Predominantly *Vitis vinifera* Grapevine.** Elina Coneva\*, E.L. Vinson, and M. Salazar-Gutierrez, Department of Horticulture, Auburn University, Auburn, AL, 36849. (edc0001@auburn.edu)
- 11:00 Evaluation of Size-Controlling, Pest Resistant Peach Rootstocks for Alabama** Elina Coneva, Department of Horticulture, Auburn University, Auburn, AL, 36849. (edc0001@auburn.edu)

## HORTICULTURE

### VEGETABLE CROPS

**Room:** Napoleon B1

**Presiding:** Joe Masabni, Chair

**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: jmasabni@ag.tamu.edu

- 1:00 An Evaluation of Commercial Cucurbit Crops in Alabama during the Whitefly Season.** Andre da Silva<sup>1\*</sup>, Olivia Fuller<sup>2</sup>, Ayanava Majundar<sup>3</sup>, Edward Sikora<sup>3</sup>, and Alvin Simmons<sup>4</sup>, <sup>1</sup>Department of Horticulture, Auburn University, Auburn, AL 36849, <sup>2</sup>Tuscaloosa Co. Extension Office, Tuscaloosa, AL 35401, <sup>3</sup>Department Entomology and Plant Pathology, Auburn, AL 36849. <sup>4</sup>USDA - Vegetable Research, Charleston, SC 29414. (azb0207@auburn.edu)
- 1:15 Use of Mulching Systems for Hop Production in the Environmental Conditions of Alabama.** Andre da Silva<sup>1\*</sup>, Michael Phillips<sup>1</sup>, Joe Kemble<sup>1</sup>, and Alex Harkess<sup>2</sup>, <sup>1</sup>Department of Horticulture, Auburn University, Auburn, AL 36849, <sup>2</sup>Department of Soil, Crop, and Environmental Science, Auburn University, Auburn, AL 36849. (azb0207@auburn.edu)
- 1:30 Evaluation of *Cucurbita* Germplasm for Resistance to Whitefly Transmitted Viruses.** Alexander Luckew<sup>1</sup>, Geoffrey Meru<sup>2</sup>, Emily Wang<sup>2</sup>, Rodrick Mwatuwa<sup>2</sup>, Mathews Paret<sup>3</sup>, Renato Carvalho<sup>3</sup>, Melanie Kalischuk<sup>3,7</sup>, Andre Luiz Biscaia Ribeiro da Silva<sup>1,6</sup>, Joara Candian<sup>1</sup>, Bhabesh Dutta<sup>4</sup>, Babu Srinivasan<sup>5</sup>, Saritha Raman Kavalappara<sup>5</sup>, RRD Naga Charan Konakalla<sup>4</sup>, Sudeep Bag<sup>4</sup>, and Cecilia McGregor<sup>1\*</sup>, <sup>1</sup>Department of Horticulture, University of Georgia, Athens, GA 30602, <sup>2</sup>Horticultural Sciences Department, University of Florida, Homestead, FL 33031, <sup>3</sup>Department of Plant Pathology, University of Florida, Quincy, FL 32351, <sup>4</sup>Department of Plant Pathology, University of Georgia, Tifton, GA 31793, <sup>5</sup>Department of Entomology, University of Georgia, Griffin, GA 30223, <sup>6</sup>Department of Horticulture, Auburn University, Auburn AL 36849, <sup>7</sup>Department of Plant Agriculture, University of Guelph, Guelph, Ontario, Canada N1G 2W1. (cmcgre1@uga.edu)

## HORTICULTURE

- 1:45 Role of Planting Date on Yield in Quality of Auto-Flower and Daylength Sensitive Hemp in Georgia.** Timothy Coolong\* and Noelle Joy, Department of Horticulture, University of Georgia, Athens, GA 30602. (tcoolong@uga.edu)
- 2:00 Effects of Irrigation System and Cultivation Method on Productivity of Organically-Grown Broccoli in Georgia.** Kate Cassity-Duffey<sup>1</sup>, Nicholas Basinger<sup>2</sup>, Bhabesh Dutta<sup>3</sup>, and Timothy Coolong<sup>1\*</sup>, <sup>1</sup>Department of Horticulture, University of Georgia, Athens, GA 30602, <sup>2</sup>Crop and Soil Sciences Department, University of Georgia, Athens, GA 30602, <sup>3</sup>Department of Plant Pathology, University of Georgia, Tifton, GA 31793. (tcoolong@uga.edu)
- 2:15 Break**
- 2:30 Screening of Cowpea (*Vigna unguiculata* (L.) Walp.) Genotypes for Waterlogging Tolerance using Morpho-physiological Traits at the Early Growth Stage.** Omolayo J. Olorunwa<sup>1\*</sup>, Bikash Adhikari<sup>1</sup>, Ainong Shi<sup>2</sup>, and T. Casey Barickman<sup>1</sup>, <sup>1</sup>Department of Plant and Soil Sciences, Mississippi State University, North Mississippi Research and Extension Center, Verona, MS, 38879, <sup>2</sup>Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (ojo26@msstate.edu)
- 2:45 Diurnal Fertigation Interval for Effective Hydroponics Nutrients Management in Dutch Bucket Cucumber Production.** Emmanuel Ayipio\* and Daniel E. Wells, Department of Horticulture, Auburn University, Auburn, AL 36849. (eza0035@auburn.edu)
- 3:00 Yield and Fruit Quality of 12 Cherry Tomato Cultivars in High Tunnels.** Sanjun Gu, Peter Coffey\*, John Kimes, and Quincey Moffitt, Cooperative Extension, North Carolina A&T State University, Greensboro, NC 27411. (plcoffey@ncat.edu)
- 3:15 Breeding for Novel Traits in Peppers (*Capsicum* spp.) at Texas A&M.** Kevin Crosby<sup>1\*</sup>, Daniel Leskovar<sup>2</sup>, and John Jifon<sup>3</sup>, <sup>1</sup>Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, <sup>2</sup>Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801, <sup>3</sup>Texas A&M AgriLife Research and Extension Center, Weslaco, TX 78596. (k-crosby@tamu.edu)

## HORTICULTURE

Sunday, February 12, 2022

### ACB BUSINESS MEETING

Room: Borgne  
Time: 9:00 – 10:45  
Presiding: Elizabeth Clippard, ACB-President,  
Nate Philips, ACB Advisor

### ANNUAL BUSINESS MEETING AND AWARDS PROGRAM

Room: Borgne  
Time: 11:00-12:30  
Presiding: Amy Wright, President

### POSTER VIEWING & TAKE-DOWN POSTERS

Room: Napoleon Foyer  
Presiding: Andre DaSilva, Chair  
Poster Viewing: Sunday 8:00-10:45  
Poster Take-down: Sunday, 1:00 – 3:00

### SECTION TITLES

#### VEGETABLE CROPS

Room: Oakley  
Presiding: Joe Masabni, Chair  
Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: jmasabni@tamu.edu

- 8:00 Amino Acid Production in Vine Decline Susceptible and Resistant Melon Plants (*Cucumis melo* L) During Plant-Pathogen Interactions.** Sixto A. Marquez<sup>1,5\*</sup>, Carlos A. Avila<sup>1,2</sup>, Amir M.H. Ibrahim<sup>3,5</sup>, Kevin M. Crosby<sup>1,5</sup>, Jashbir Singh<sup>1,5</sup>, Bhimanagouda S. Patil<sup>1,4,5</sup>, and Herika P. Pessoa<sup>1,6</sup>, <sup>1</sup>Vegetable & Fruit Improvement Center, Texas A&M University, College Station, TX 77845, <sup>2</sup>Texas A&M AgriLife Research and Extension Center, Weslaco, TX 78596, <sup>3</sup>Department of Soil and Crop Science, Texas A&M University, College Station, TX 77845, <sup>4</sup>Department of Food Science and Technology, Texas A&M University, College Station, Texas 77843, <sup>5</sup>USDA National Center of Excellence for Melon at the Vegetable and Fruit Improvement Center of Texas A&M University, College Station, TX 77845, <sup>6</sup>Universidade Federal de Viçosa-UFV. Minas Gerais, Brasil. Casa Diogo Alves de Melo Avenida P.H Rolfs, S/N, Campus Universitário. (sixto@tamu.edu)

## HORTICULTURE

- 8:15 Using Solid Humic Substances Products as Substrate Amendments to Improve 'Micro Tom' Tomato Growth.** Kuan Qin\* and Daniel I. Leskovar, Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801. (d-leskovar@tamu.edu)
- 8:30 Onion Microflora and Associated Pathogens.** Manzeal Khanal<sup>1</sup>, Bed Prakash Bhatta, and Subas Malla, Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801. (subas.malla@ag.tamu.edu)
- 8:45 Heat Stress Responses of Tomato Plants Grafted onto Wild Relative Rootstocks *S. pennellii* and *S. peruvianum*.** Chungkeun Lee\* and Daniel I. Leskovar, Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801. (d-leskovar@tamu.edu)
- 9:00 Break**
- 9:15 Hubbard Squash Trap Crop as Attract-and-Kill Integrated Pest Management Strategy to Reduce Squash Bugs.** Ayanava Majumdar<sup>1\*</sup> and Matthew Price<sup>2</sup>, <sup>1</sup>Department of Entomology and Plant Pathology, Auburn University, Auburn, AL 36849, <sup>2</sup>Chilton Regional Research and Extension Center, Clanton, AL 35045. (azm0024@auburn.edu)
- 9:30 Root Zone Cooling and Heating as a Low-Energy Temperature Control in Greenhouse Hydroponic Crop Production.** Genhua Niu\*, Joseph Masabni, Triston Hooks, and Ling Sun. Texas A&M AgriLife Research and Extension Center, Dallas, TX 75252. (genhua.niu@ag.tamu.edu)
- 9:45 Identification of Novel Loci Conferring Resistance to Fusarium Wilt Race 3 of Tomato from *Solanum pennellii* Accessions.** Jessica Chitwood-Brown<sup>1\*</sup>, Gary Vallad<sup>2,3</sup>, Tong Geon Lee<sup>1,3,4</sup>, and Samuel Hutton<sup>1,4</sup>, <sup>1</sup>Horticultural Sciences Department, University of Florida, Gainesville, FL 32611, <sup>2</sup>Plant Pathology Department, University of Florida, Gainesville, FL 32611, <sup>3</sup>Gulf Coast Research and Education Center, University of Florida, Wimauma, FL 33598, <sup>4</sup>Plant Molecular and Cellular Biology Graduate Program, University of Florida, Gainesville, FL 32611. (sfhutton@ufl.edu)
- 10:00 Evaluating the Impact of Humic Acid Amendments on the Growth Characteristics of Hydroponically Cultivated Kale and Lettuce.** Joshua T. Harvey\* and Daniel I. Leskovar, Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801. (d-leskovar@tamu.edu)

## HORTICULTURE

- FLORICULTURE, ORNAMENTALS AND TURF**  
**Room: Edgewood A/B**  
**Presiding: Genhua Niu, Chair**  
**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: genhua.niu@ag.tamu.edu
- 7:45 Single-screen Fractionation for Simplified Substrate Stratification.** Jeb S. Fields<sup>1\*</sup>, Hammond Research Station, Louisiana State University Agricultural Center, Hammond, LA 70403. (JSFields@agcenter.lsu.edu)
- 8:00 Impact of the mid-February 2021, Record Freeze on a Range of Woody Ornamentals in Texas.** David Creech\*, Lais Machado, and David Kulhavy, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, TX 75962. (dcreech@sfasu.edu)
- 8:15 Modeling Growth and Development of Hemp (*Cannabis Sativa*) Varieties under Greenhouse and Controlled Environment Conditions.** Alwin Hopf<sup>1\*</sup>, Paul Daiber<sup>1</sup>, Steven Anderson<sup>2</sup>, Brian Pearson<sup>2</sup>, Gerrit Hoogenboom<sup>1,3</sup>, <sup>1</sup>Department of Agricultural and Biological Engineering, IFAS, University of Florida, Gainesville, FL 32611, <sup>2</sup>Department of Environmental Horticulture, Mid-Florida Research and Education Center, IFAS, University of Florida, Apopka, FL 32703, <sup>3</sup>Institute for Sustainable Food Systems, IFAS, University of Florida, Gainesville, FL 32611. (alwinhopf@ufl.edu)
- 8:30 Evaluating Effects of Chemical Pinching During Early Vegetative Stages on 'Sunfinity' Sunflower for Potted Plant Production.** Mason Marshall<sup>1\*</sup>, Terri Starman<sup>1</sup>, H. Brent Pemberton<sup>2</sup>, Calvin Trostle<sup>3</sup>, <sup>1</sup>Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, <sup>2</sup>Texas A&M AgriLife Research and Extension Center, Overton, TX 75684, <sup>3</sup>Texas A&M AgriLife Research and Extension Center, Lubbock, TX 79403. (masonmarshall@tamu.edu)
- 8:45 Improving Pennsylvania Bittercress (*Cardamine pensylvanica*) Weed Control Efficacy with Mulch and Herbicide in Containers.** Ping Yu\* and S. Christopher Marble, Department of Environmental Horticulture, University of Florida, Mid-Florida Research and Education Center, Apopka, FL 32703. (ping.yu@ufl.edu)

## HORTICULTURE

- 9:00 Piedmont Ecoregion Irrigation Reservoir Water Quality Dynamics Under Stormwater Irrigation Return Flow.** Sarah A. White<sup>1\*</sup>, Morgan Tomlin<sup>1</sup>, Mohammad Nayeb Yazdi<sup>2</sup>, and James S. Owen Jr.<sup>3</sup>, <sup>1</sup>Department of Plant and Environmental Sciences, Clemson University, Clemson, SC, 29634, <sup>2</sup>School of Environment and Natural Resources, Ohio State University, Wooster, OH, 44691, <sup>3</sup>USDA-ARS Application Technology Research Unit, Wooster, OH, 44691. (swhite4@clemson.edu)
- 9:15 Build Tools for Crapemyrtle Bark Scale (CMBS) Pest Management.** Bin Wu<sup>1,3</sup>, Runshi Xie<sup>1,3</sup>, Mengmeng Gu<sup>1,2</sup>, and Hongmin Qin<sup>3\*</sup>, <sup>1</sup>Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, <sup>2</sup>Texas A&M AgriLife Extension Service, College Station, TX 77843, <sup>3</sup>Department of Biology, Texas A&M University, College Station, TX 77843. (hqin@bio.tamu.edu)
- 9:30 Seed Propagation Protocol Development for Brackish Plants.** Morgan Tomlin\*, Sarah White, and Jeffery Adelberg, Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29634. (mltomli@clemson.edu)
- 9:45 Otomeria oculata S. Moore. A Potential New Annual Bedding Plant?** Garry V. McDonald\*, Austin L. Lindquist, and Ryan W. Dickson, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (gmcdonal@uark.edu)
- 10:00 Influence of Controlled-Release Fertilizer and Supplemental Micronutrients on Container-Grown Dogwood.** Anthony Witcher\*, Otis L. Floyd Nursery Research Center, Tennessee State University, McMinnville, TN 37110. (awitcher@tnstate.edu)
- 10:15 Planting Date Affects Container Nitrogen and Phosphorus Leaching.** Tom Yeager\* and Jeff Million, Department of Environmental Horticulture, University of Florida, IFAS, Gainesville, FL 32611. (yeagert@ufl.edu)
- 10:30 Plant Selection for Floating Treatment Wetlands in Brackish Waters.** Andrea C. Landaverde<sup>1\*</sup>, Sarah A. White<sup>2</sup>, and William H.J. Strosnider<sup>3</sup>, <sup>1</sup>Department of Biological Sciences, Clemson University, Clemson, SC 29631, <sup>2</sup>Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29631, <sup>3</sup>Baruch Marine Field Laboratory, University of South Carolina, Georgetown, SC 29440. (alandav@clemson.edu)

## HORTICULTURE

- 10:45 Root Zone Temperatures of 'Soft Touch' Holly Affected by Pot Color and Density.** R. Hunter McBrayer, Jeremy M. Pickens\*, Daniel E. Wells, and Jeff L. Sibley, Department of Horticulture, Auburn University, Auburn, AL 36849. (pickej@auburn.edu)

### FRUIT CROPS

- Room: Estherwood**  
**Presiding: Edgar Vinson, Chair**  
**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: vinsoed@auburn.edu
- 8:00 Survival of Young Kiwifruit (*Actinidia chinensis* Planch. and *A. deliciosa* A. Chev.) Plants in Response to Winter Storm Uri in Texas.** Tim Hartmann<sup>1\*</sup> and David Creech<sup>2</sup>  
<sup>1</sup>Department of Horticultural Sciences, Texas A&M University, College Station, Texas 77843, <sup>2</sup>SFA Gardens, Stephen F. Austin State University, Nacogdoches, TX 75962  
<sup>2</sup>Department of Horticulture, Auburn University, Auburn, AL 36849. (t-hartmann@tamu.edu)
- 8:15 Evaluation of Trunk Protection Measures for Prevention of Cold Injury in Young Kiwifruit (*Actinidia deliciosa* A. Chev.) Plants.** Tim Hartmann<sup>1\*</sup>, David Creech<sup>2</sup>, and <sup>3</sup>James Spiers  
<sup>1</sup>Department of Horticultural Sciences, Texas A&M University, College Station, Texas 77843, <sup>2</sup>SFA Gardens, Stephen F. Austin State University, Nacogdoches, TX 75962.  
<sup>3</sup>Department of Horticulture, Auburn University, Auburn, AL 36849. (t-hartmann@tamu.edu)
- 8:30 Adaptability of Primocane Fruiting Raspberries and Blackberries in the Deep South.** David H. Picha\* and Kathryn K. Fontenot, School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803. (dpicha@agcenter.lsu.edu)
- 8:45 Effect of Harvest Maturity Stage and Cultivar on Fig Fruit Composition.** David H. Picha\* and Robert A. Mirabello, School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803. (dpicha@agcenter.lsu.edu)
- 9:00 Molecular and Physiological Responses of Finger Lime (*Citrus australasica*) to Cold Stress.** Lamiaa Mahmoud and Manjul Dutt\*, Citrus research and Education Center, University of Florida, Lake Alfred, FL, 33850. (manjul@ufl.edu)

## HORTICULTURE

- 9:15 Break**
- 9:30 Soil management practices for Indian River grapefruit production under citrus greening.** Lorenzo Rossi\*, Lukas M. Hallman, and John M. Santiago. Horticultural Sciences Department, University of Florida, IFAS, Indian River Research and Education Center, Fort Pierce, FL. (l.rossi@ufl.edu)
- 9:45 Fungicide Termination Timing in Strawberry with a High Risk of Anthracnose Fruit Rot.** Aaron Cato\*. 2301 S. University Ave, Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR 72204. (acato@uada.edu)
- 10:00 Greenhouse evaluation of Kudos 27.5 WDG on vegetative vigor of two recommended peach rootstocks for Florida.** Trequan McGee<sup>1</sup>, Bruce Schaffer<sup>2</sup>, Gerardo Nunez<sup>3</sup>, Jose X. Chaparro<sup>1</sup>, Ali Sarkhosh<sup>1\*</sup>, <sup>1</sup>Horticultural Sciences Department, University of Florida, Gainesville, FL 32611, <sup>2</sup>Tropical Research and Education Center, University of Florida, Homestead, FL 33031
- 10:15 Changes to Soil and Tree Status Following Two Years of Annual Municipal Mulch and Poultry Litter Amendments to Peach Orchards.** Brian T. Lawrence\* and Juan Carlos Melgar, 105 Collings St., 218 Biosystems Research Complex, Plant and Environmental Sciences Department, Clemson University, Clemson, SC 29631
- 10:30 Influence of rootstock on leaf nutrient content in young low-chill peaches under subtropical climate.** Jonathan Clavijo-Herrera<sup>1\*</sup>, Lorenzo Rossi<sup>2</sup>, and Ali Sarkhosh<sup>1</sup>, <sup>1</sup>Horticultural Sciences Department, University of Florida, Gainesville, FL 32611, <sup>2</sup>Horticultural Sciences Department, University of Florida, Institute of Food and Agricultural Sciences, Indian River Research and Education Center, Ft. Pierce, FL 34945. (luis.clavijo@ufl.edu)

## POSTHARVEST AND BIOTECHNOLOGY

**Room:** Napoleon A1

**Presiding:** Savithri Nambesan, Chair

**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: [sunamb@uga.edu](mailto:sunamb@uga.edu)

## HORTICULTURE

- 8:00 Understanding the diversity of fruit plastids.** Ryan Christian<sup>1</sup>, Eric H Roalson<sup>2</sup>, and Amit Dhingra<sup>1,3\*</sup>. <sup>1</sup>Department of Horticulture, Washington State University, Pullman, WA, <sup>2</sup>School of Biological Sciences, Washington State University, Pullman, WA, <sup>3</sup>Department of Horticultural Sciences, Texas A&M University, College Station, TX, amit.dhingra@ag.tamu.edu
- 8:15 Beyond Ethylene – AOX-mediated Fruit Ripening.** Seanna Hewitt<sup>1</sup>, Evan Stowe<sup>1</sup>, and Amit Dhingra<sup>1,2\*</sup>. <sup>1</sup>Department of Horticulture, Washington State University, Pullman, WA 99164, <sup>2</sup>Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, amit.dhingra@ag.tamu.edu
- 8:30 Effect of Preharvest Applications of Ethylene Related PGRs on Postharvest Fruit Quality Attributes in Blueberries.** Tej Acharya\*, Anish Malladi, John W. Doyle, Savithri U. Nambesan, Department of Horticulture, University of Georgia, Athens, GA 30606. (htpa@uga.edu)
- 8:45 Offseason Lettuce Production in Field and Hydroponic Environments: Impact on Sesquiterpene Lactone and Sugar Content.** Niels Maness\*, John Untershuetz, Mason McLemore, and Bizhen Hu, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (niels.maness@okstate.edu)
- 9:00 Evaluation of Macroporous Resins for Podophyllotoxin Purification from Eastern Red Cedar Extracts.** Gwen Reilly\*<sup>1</sup>, Niels Maness<sup>2</sup>, John Nickel<sup>2</sup>, and Katie Stenmark<sup>2</sup>, <sup>1</sup>Department of Nutritional Sciences, <sup>2</sup>Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (greilly@okstate.edu)
- 9:15 Break**
- 9:30 Ultra-high-performance liquid chromatography with a phenyl-hexyl column enables the separation of major pepper capsaicinoids and capsinoids.** Kishan Biradar, Jashbir Singh, Syamkumar S. Pillai, Kevin M. Crosby, and Bhimanagouda S. Patil. Vegetable and Fruit Improvement Center, USDA National Center of Excellence, Department of Horticultural Sciences, Texas A&M University, 1500 Research Parkway, Suite A120, College Station, TX 77845, USA (Bhimanagouda.Patil@ag.tamu.edu)

## HORTICULTURE

**9:45 Quality Changes of Jicama Roots During Low Temperature and Controlled Atmosphere Storage.** Angelos Deltsidis\*, Orestis Giannopoulos, Ramsey Corn, Juan Carlos Diaz-Perez, Department of Horticulture, University of Georgia, Tifton, GA 31793 (adeltsidis@uga.edu)

**10:00 Effect of Polysaccharide-Based Nanoparticle Coatings on Fig and Peach Fruit Postharvest Quality.** Danbee Lee<sup>1\*</sup>, David H. Picha<sup>2</sup>, and Qinglin Wu<sup>1</sup>, <sup>1</sup>School of Renewable Natural Resources and <sup>2</sup>School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, Louisiana 70803. (dlee112@lsu.edu)

**10:15 Studying the Impact of Ozonated Water on the Postharvest Quality of Fresh Peaches.** Orestis Giannopoulos\*, Francisco Loayza, Dario Chavez, Angelos Deltsidis, Department of Horticulture, University of Georgia, Tifton, GA 31793. (orestis.g@uga.edu)

**10:30 Transcriptome Regulation of Postharvest Fruit Quality in Blueberry.** Savithri U. Nambeesan<sup>1\*</sup>, Yi-Wen Wang<sup>1</sup>, Shan Jing<sup>1</sup>, Ann Loraine<sup>2</sup>, D. Scott NeSmith<sup>3</sup>. <sup>1</sup>Department of Horticulture, University of Georgia, Athens, GA 30606, <sup>2</sup>Department of Horticulture, University of Georgia, Griffin, GA 30223 and <sup>3</sup>College of Computing and Informatics, University of North Carolina, Charlotte, NC 28223. (sunamb@uga.edu)

### ANNUAL BUSINESS MEETING AND AWARDS PROGRAM

Room: Borgne  
Time: 11:00-12:30  
Presiding: Amy Wright, President

#### SAAS Meetings SAAS Board Meeting

Bldg/Room: Borgne  
Time: 2:30 PM–3:30 PM

#### SAAS General Business Meeting

Bldg/Room: Room: Borgne  
Time: 4:00 PM–4:30 PM

Place: SAAS Social/Super Bowl Party  
Grand Ballroom A/B/C (5<sup>th</sup> Floor),  
Sheraton  
Time: 5:00 PM – until

## HORTICULTURE

### 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: Napoleon B2  
Friday: 8:00 am – 5:00 pm

#### Horticulture Administrators

Presiding: Leo Lombardini, Chair  
Lombardini@uga.edu  
Room: Poydras  
Friday: 1:00 pm – 5:00 pm

#### Watermelon Research Group

Presiding: Daniel S. Egel, Chair  
Room Napoleon A 2/3  
Friday 1:00 – 4:45 pm  
Saturday 8:30 am – 4:00 pm  
Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: egel@purdue.edu

#### Friday, February 11, 2022

1:00 p.m. Housekeeping items  
1:30 pm. Watermelon Standard Size Cultivar Yield and Quality Study Results, North Carolina, 2021. Jonathan R. Schultheis\* and Keith D. Starke. Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695. (jonr@ncsu.edu)

1:45 pm. Watermelon Cultivar Incidence and Yield Response in Fields in North and South Carolina Containing *Fusarium oxysporum* f. sp. *niveum*. Jonathan R. Schultheis\*<sup>1</sup>, Anthony Keinath<sup>2</sup>, and Lina Quesada-Ocampo<sup>3</sup>.  
<sup>1</sup>Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695,  
<sup>2</sup>Plant and Environmental Sciences Department, Clemson University, Coastal Research and Education Center, Charleston, SC 29414,  
<sup>3</sup>Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC 27695. (jonr@ncsu.edu)

2:00 pm. Compact Bed Geometry for Watermelon Production and Fusarium Management. Josh Freeman\*, North Florida Research and Education Center, Quincy, FL 32351. (joshuafr@ufl.edu)

## HORTICULTURE

**2:15 pm. Dissection of Race 1 Anthracnose Resistance in a Watermelon (*Citrullus lanatus* var. *lanatus*) Biparental Mapping Population.** Bed Prakash Bhatta<sup>1,2\*</sup>, Takshay Patel<sup>3</sup>, Edgar Correa<sup>1,2</sup>, Todd C. Wehner<sup>3</sup>, Kevin M. Crosby<sup>1</sup>, Michael J. Thomson<sup>4</sup>, Richard Metz<sup>5</sup>, Shichen Wang<sup>5</sup>, Marcel Brun<sup>5</sup>, Charles D. Johnson<sup>5</sup>, and Subas Malla<sup>1,2</sup>. <sup>1</sup>Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, <sup>2</sup>Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801, <sup>3</sup>Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, <sup>4</sup>Department of Soil and Crop Sciences, Texas A&M University, College Station, TX 77843, <sup>5</sup>Genomics and Bioinformatics Service, Texas A&M AgriLife Research, College Station, TX 77843. (subas.malla@ag.tamu.edu)

**2:30 pm. The Effect of Three Genetic Loci on Rind Thickness in Watermelon.** Lincoln Adams<sup>1</sup>, Samuel Josiah<sup>2</sup>, Reeve Legendre<sup>3</sup>, and Cecilia McGregor<sup>1,2\*</sup>. <sup>1</sup>Institute of Plant Breeding, Genetics & Genomics, University of Georgia, Athens, GA 30602, <sup>2</sup>Department of Horticulture, University of Georgia, Athens, GA 30602, <sup>3</sup>Plant, Environmental and Soil Science, Louisiana State University, Baton Rouge, LA 70803. (cmcgre1@uga.edu)

### Poster

**Food-Waste Compost as Substrate Amendment for Production of Tomato and Watermelon Seedlings.** Matthew B. Bertucci<sup>1\*</sup>, Kristen E. Gibson<sup>2</sup>, Christopher A. Baker<sup>2</sup>, Drew E. Kirkpatrick<sup>1</sup>, Rachel C. Woody-Pumford<sup>1</sup>, and Kayla Knepp<sup>1</sup>. <sup>1</sup>Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup>Food Science Department, University of Arkansas, Fayetteville, AR 72704. (bertucci@uark.edu)

### National Sweet Potato Collaborators

**Presiding: Michelle McHargue, Chair**

**Room: Napoleon B3**

**Friday: 8:00 am – 5:00 pm**

**Saturday: 8:00 am – 5:00 pm**

**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: (michelle.mchargue@lambweston.com)

**Friday, February 11, 2022**

**8:00 Call to Order & Announcements**

**8:15 State Reports**

**8:45 Discussion**

## HORTICULTURE

**9:15 Development of an Experimental System for Studying the Interaction of Essential Elements and Non-essential Heavy Metals in Sweetpotato: Preliminary Findings.** Arthur Villordon\* and Jeffrey C. Gregorie, Louisiana State University AgCenter Sweet Potato Research Station, Chase, LA 71324

**9:30 Choice under Stress: The Fate of Storage Root Development Under Reduced Phosphorus Availability** Luis Duque\*<sup>1</sup>, Bode Olukolu<sup>2</sup>, Arthur Villordon<sup>3</sup>, and Jonathan Lynch<sup>1</sup>. <sup>1</sup>Department of Plant Science, Penn State University, University Park, PA 16802, <sup>2</sup>Department of Entomology and Plant Pathology, Institute of Agriculture, University of Tennessee, Knoxville, TN 37996, <sup>3</sup>LSU AgCenter, Louisiana State University, Baton Rouge, LA 70803

**9:45 Morning Break**

**10:00 Does a Sleeve Adaptor Using Variable Plant Lengths for Sweetpotato Planting Improve Yields?** Brandon K. Parker\*<sup>1</sup>, Jonathan R. Schulthesis<sup>2</sup>, <sup>1</sup>NC Cooperative Extension-Johnston County, 2736 NC 210 Hwy. Smithfield, NC 27577, <sup>2</sup>Department of Horticultural Science, North Carolina State University, 2721 Founders Drive, Raleigh, NC 27695-7609

**10:15 Evaluation of Sweetpotato Slip Burn-off and In-Row Skips.** Callie J. Morris\*, Mark W. Shankle, Stephen L. Meyers, Mark A. Hall, Trevor F. Garrett, and Lorin M. Harvey, Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS 38863

**10:30 Performance of Specialty Sweetpotato Cultivars in Dominant Production Areas of Florida.** W. Mussoline<sup>1</sup>, R. Hochmuth<sup>2</sup>, C. Christensen<sup>3</sup>, S. Guzman<sup>4</sup>, and Z. Grabau<sup>5</sup>. <sup>1</sup>UF/IFAS Agriculture Extension Agent, East Palatka, FL, 32131, <sup>2</sup>UF/IFAS North Florida Research and Education Center- Suwannee Valley, Live Oak, FL, 32060, <sup>3</sup>UF/IFAS Hastings Agriculture Extension Center, Hastings, FL, 32060, <sup>4</sup>Agricultural and Biological Engineering Department, University of Florida, Indian River Research and Education Center, Fort Pierce, FL, 34945, <sup>5</sup>Entomology and Nematology Department, University of Florida, Gainesville, FL, 32608

## HORTICULTURE

- 10:45 Potassium Fertilizer has Minimal Impact on Sweetpotato Production in California.** Scott Stoddard. University of California. Extension, Merced, CA 95341
- 11:00 Yield and Quality of Sweetpotato Grown under Protected Culture Systems.** Luis Duque\* and Francesco DiGioia, Department of Plant Science, Penn State University, University Park, PA 16802
- 11:15 Differences in Microenvironmental Conditions Under Protected Systems for Sweetpotato (*Ipomoea batatas*) Slips Production in Missouri.** Ramón Arancibia\*, Juan Cabrera-Garcia, and Patrick Byers. University of Missouri Extension, Columbia, MO
- 11:30 Effect of Potassium Fertilization Rate on Sweetpotato Sugar Content.** David H. Picha\*<sup>1</sup>, Cheston T. Schayot<sup>1</sup>, and Mark W. Shankle<sup>2</sup>  
<sup>1</sup>School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803, <sup>2</sup>Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS 38863
- 11:45 Lunch Break**
- 1:00 Overview of the Nation's Sweet Potato Industry Challenges, Research Needs, and Clean Seed Adoption Rates.** Rachael M. Carter\*<sup>1</sup>, Mark W. Shankle<sup>2</sup>, Lorin M. Harvey<sup>2</sup>, Donna J. Peterson<sup>3</sup>, and Elizabeth P.G. North<sup>4</sup>  
<sup>1</sup>Extension Center for Government and Community Development, Mississippi State University, Mississippi State, MS 39762, <sup>2</sup>Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS 38863, <sup>3</sup>Department of Human Sciences, Mississippi State University, Mississippi State, MS 39762, <sup>4</sup>Department of Agricultural Communications, Mississippi State University, Mississippi State, MS 39762
- 1:15 The Use of Polysulphate as a Potassium Fertilizer for Sweet Potato (*Ipomoea batatas*) Production in North Carolina.** Alex L. Woodley\*<sup>1</sup>, Lily Kile<sup>1</sup>, David Suchoff<sup>1</sup>, Luke Gatiboni<sup>1</sup> and Anders Huseth<sup>2</sup> <sup>1</sup>Department of Crop and Soil Sciences, <sup>2</sup>Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC 27695

## HORTICULTURE

- 1:30 Characterizing Temporal Sweetpotato Production Trends Through In-Season Environmental, Biomass, and Grade Data.** Mariella Carbajal Carrasco<sup>1\*</sup>, Anders Huseth<sup>2</sup>, Natalie Nelson<sup>1</sup> <sup>1</sup>3110 Faucette Dr, Department of Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC 27695, <sup>2</sup>1575 Varsity Drive, Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC 27695
- 1:45 Evaluation of Alternative Sweetpotato Slip Planting Orientations.** Alyssa Jane Woodard\*<sup>1</sup>, Jonathan Schultheis<sup>1</sup>, and David Suchoff<sup>2</sup> <sup>1</sup>Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, <sup>2</sup>Department of Crop and Soil Sciences, North Carolina State University, Raleigh, NC 27695.
- 2:00 The Use of Winter Cover Crops for Nitrogen Management in Organic Sweet Potato Production.** Lily Kile\*, Alex Woodley, Anders Huseth, David Suchoff, and Luke Gatiboni, Department of Crop and Soil Sciences, North Carolina State University, Raleigh, NC 27695
- 2:15 Variation in Root System Response to Local Phosphorus Availability Among Sweetpotato Cultivars** Jeffrey C. Gregorie\* and Arthur Q. Villordon. LSU AgCenter Sweet Potato Research Station, Chase, LA 71324
- 2:30 Deployment and Analysis of Instance Segmentation Algorithm on Cellphone for Grade Estimation of Sweetpotatoes In-field.** Hoang M. Nguyen\*<sup>1</sup>, Sydney Gyurek<sup>1</sup>, Russell Mierop<sup>2</sup>, Kenneth V. Pecota<sup>2</sup>, G. Craig Yencho<sup>2</sup>, Michael W. Kudenov<sup>1</sup> <sup>1</sup>Department of Electrical and Computer Engineering, North Carolina State University, Raleigh, NC 27607, <sup>2</sup>Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695
- 2:45 Statistical Phenotyping of Sweetpotatoes (*Ipomoea batatas*) by Imaging the Top of Bins: Preliminary Results from a High-throughput Truck Scanner.** Enrique Pena Martinez\*<sup>1</sup>, Hoang Nguyen<sup>1</sup>, Craig Yencho<sup>2</sup>, Russell Mierop<sup>2</sup>, Kenneth Pecota<sup>2</sup>, Cranos Williams<sup>1</sup>, Michael Kudenov<sup>1</sup> <sup>1</sup>Department of Electrical and Computer Engineering, North Carolina State University, Raleigh, NC 27606, <sup>2</sup>Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695
- 3:00 Afternoon Break**



## HORTICULTURE

- 3:15 Exploring and Quantifying the Chemical Constituents Responsible for Consumer-preferred Flavors in Sweetpotatoes.** Modesta Abugu<sup>\*1</sup>, Suzanne Johanningsmeier<sup>2</sup>, Matthew Allan<sup>2</sup>, Massimo Iorizzo<sup>1,3</sup>, Craig Yencho<sup>1</sup> <sup>1</sup>Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, <sup>2</sup>USDA\_ARS, Southeast Area Food Science and Market Quality & Handling Research Unit, 322E Schaub Hall, Raleigh NC, 27695, <sup>3</sup>Plants for Human Health Institute, Department of Horticultural Science, North Carolina State University, Kannapolis, NC, 28081
- 3:30 PEG-Mediated Genome Editing in *Ipomoea batatas* Protoplasts Directed by CRISPR-Cas9 Ribonucleoprotein Complexes.** Adrienne Brown\*, M. Egnin, F. Bukari, D. Mortley, C. Bonsi, D. Alexander, Plant Biotech and Genomics Research Laboratory, Department of Agriculture and Environmental Sciences Tuskegee University, Tuskegee, AL, 36088
- 3:45 Sweetpotato Chip Textures and Fat Contents: Effects of Cell Wall Active Enzymes.** Matthew C. Allan\* and Suzanne Johanningsmeier, Food Science and Market Quality and Handling Research Unit, United States Department of Agriculture - Agricultural Research Service, Raleigh, NC 27695
- 4:00 Sweetpotato Marketing Alterations During the COVID-19 Pandemic**  
David H. Picha. School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803
- 4:15 Sweetpotato Analytics for Produce Provenance and Scanning (Sweet-APPS).** Daniela Jone, Department of Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC 27695

### Poster Presentations

**Analyzing Big Data Generated During Sweetpotato Production to Predict Shape Features.** Shelly Hunt<sup>1</sup>, Daniela Jones<sup>1</sup> and Cranos Williams,<sup>2</sup> <sup>1</sup>Department of Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC 27695, <sup>2</sup>Department of Electrical and Computer Engineering, North Carolina State University, Raleigh, NC 27695

## HORTICULTURE

- Evaluating Fumigation Efficacy on Root-knot Nematode (*Meloidogyne* spp.) on Sweetpotatoes in North Florida.** Chang Liu\* and Z. J. Grabau, Entomology and Nematology Department, University of Florida, Gainesville, FL, 32601
- Evaluation of Host Status of Sweetpotato Cultivars to Sting Nematode *Belonolaimus longicaudatus* in the Greenhouse.** Chang Liu\* , Z. J. Grabau and R. Sandoval-Ruiz, Entomology and Nematology Department, University of Florida, Gainesville, FL, 32601
- Integration of Genomic and Quantitative Strain-level Metagenomic Profiles by Using qRRS in the Sweetpotato Phyllospher.** Alison Adams<sup>\*1</sup>, Priya Voothuluru<sup>2</sup>, Brandon Kristy<sup>3</sup>, Harper Kirby<sup>4</sup>, Phil A. Wadl<sup>5</sup>, G. Craig Yencho<sup>6</sup>, and Bode Olukolu<sup>7</sup> <sup>1</sup>UT-ORNL Graduate School of Genome Science and Technology, University of Tennessee, Knoxville, TN 37996, <sup>2</sup>The Center for Renewable Carbon, The University of Tennessee Institute of Agriculture, Knoxville, TN 37996, <sup>3</sup>Oak Ridge National Laboratory, Oak Ridge, TN 37831, <sup>4</sup>Department of Biochemistry & Cellular and Molecular Biology, University of Tennessee, Knoxville, TN 37996, <sup>5</sup>United States Department of Agriculture, Agriculture Research Service, U.S. Vegetable Research, Charleston, SC 29414, <sup>6</sup>Department of Horticultural Science, NC State University, Raleigh, NC 27695, <sup>7</sup>Department of Entomology and Plant Pathology, University of Tennessee, Knoxville, TN 37996
- Impact of Reduced Rates of Glufosinate and 2,4-D Choline on Sweetpotato.** Donnie K. Miller and Marcie S. Mize, Northeast Research Station, Louisiana State University AgCenter, St. Joseph, La 71366
- Effects of Early-season Drought, Ultraviolet-B, and Low Nitrogen Stress on Growth, Developmental, and Physiology of Sweetpotato Cultivars.** Purushothaman Ramamoorthy<sup>\*1</sup>, Raju Bheemanahalli<sup>2</sup>, Stephen Meyers<sup>3</sup>, Mark Shankle<sup>4</sup>, and K. Raja Reddy<sup>2</sup> <sup>1</sup>Geosystems Research Institute, Mississippi State University, Mississippi State University, MS, 39762, <sup>2</sup>Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, <sup>3</sup>Department of Horticulture and Landscape Architecture, Purdue University, West Lafayette IN 47907, <sup>4</sup>Pontotoc Ridge-Flatwoods Branch Experiment Station, North Mississippi Research and Extension Center, Mississippi State University, Pontotoc, MS 38863

## HORTICULTURE

### **Sweetpotato Breeding Line Resistance to *Meloidogyne enterolobii* and *M. incognita***

David Galo\*<sup>1</sup>, Josielle S. Rezende<sup>1</sup>, Christopher A. Clark<sup>1</sup>, Don R. Labonte<sup>2</sup>, Tristan Watson<sup>1</sup>

<sup>1</sup>Department of Plant Pathology and Crop Physiology, Louisiana State University Agricultural Center, Baton Rouge, LA 70803, <sup>2</sup>School of Plant, Environmental, and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803

### **Sweetpotato Response to Incremental Rates of Potassium Fertilizer.**

Mark A. Hall, Mark W. Shankle, Lorin M. Harvey, and Callie J. Morris, Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS 38863

### **A Multi-State Effort to Contain and Manage *Meloidogyne enterolobii* in Vegetable Crops**

Jennifer Corbin<sup>1</sup>, Paula Agudelo<sup>1</sup>, Johan Desaegeer<sup>2</sup>, Adrienne Gorny<sup>3</sup>, Zane Grabau<sup>4</sup>, Zhengfei Guan<sup>2</sup>, Abolfazl Hajihassani<sup>5</sup>, John Mueller<sup>1</sup>, Lina Quesada-Ocampo<sup>3</sup>, Will Rutter<sup>6</sup>, and Phillip Wadl<sup>6</sup>

<sup>1</sup>Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29634, <sup>2</sup>University of Florida Gulf Coast Research and Education Center, Wimauma, FL 33598, <sup>3</sup>Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC 27695, <sup>4</sup>Department of Entomology and Plant Pathology, University of Florida, Gainesville, FL 32611, <sup>5</sup>Department of Entomology and Plant Pathology, University of Georgia, Tifton, GA 31793, <sup>6</sup>USDA-ARS, Charleston, SC 29414

**5:00 Adjourn for the Day**

**Saturday, February 12, 2022**

**8:00 Call to Order and Announcements**

**8:15 Optimizing Deployment of a Novel Wireworm Pheromone in Sweetpotato Agroecosystems.** Anders S. Huseth\*<sup>1</sup>, Emma Schoeppner<sup>1</sup>, Alyssa M. Pellegrino<sup>1</sup>, Livy Williams III<sup>2</sup>, Jocelyn G. Millar<sup>3</sup>, Seth J. Dorman<sup>4</sup>, Helene Doughty<sup>5</sup>, and Tom Kuhar<sup>6</sup>  
<sup>1</sup>Department of Entomology and Plant Pathology, North Carolina State University; Campus Box 7630, Raleigh, NC, 27695, <sup>2</sup>USDA-ARS U.S. Vegetable Laboratory; 2700 Savannah Highway, Charleston, SC, 29414, <sup>3</sup>University of California, Riverside, Department of Entomology, 3401 Watkins Dr., Riverside, CA, 92521, <sup>4</sup>USDA-ARS, Forage Seed and

## HORTICULTURE

Cereal Research Unit, Corvallis, OR, USA, <sup>5</sup>Department of Entomology, Virginia Tech, Painter, VA 23420, <sup>6</sup>Department of Entomology, Virginia Tech, Blacksburg, VA 24061

- 8:30 Utilizing Plant Hormones as Herbicide Safeners in Sweetpotato.** Matthew Cutulle\* and Giovanna Caputo, Department of Plant and Environmental Sciences, Clemson University, 2700 Savannah Hwy Charleston, SC 29414
- 8:45 How Much Are We Under-Estimating the Effects of Sweetpotato Viruses on Yield in the U.S.?** C. A. Clark\*, C. D. DeRobertis, and J. A. Davi, <sup>1</sup>Department of Plant Pathology and Crop Physiology, Louisiana State University Agricultural Center, Baton Rouge, LA 70803 and <sup>2</sup>Department of Entomology, Louisiana State University Agricultural Center, Baton Rouge, LA 70803
- 9:00 Integrated Nematode Management: a Louisiana Perspective.** Tristan Watson\* and J.S. Rezende, Department of Plant Pathology and Crop Physiology, LSU AgCenter, Baton Rouge, LA 70803
- 9:15 Integrating Winter Cover Crops and Weed-suppressive Sweetpotato Cultivars for Weed Management.** Isabel S. Werle\*<sup>1</sup>, Matheus M. Noguera<sup>1</sup>, Srikanth K. Karaikal<sup>1</sup>, Gustavo B. de Lima<sup>1</sup>, Te-Ming Tseng<sup>2</sup>, and Nilda Roma-Burgos<sup>1</sup> <sup>1</sup>Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR 72704, <sup>2</sup>Department of Plant and Soil Sciences, Mississippi State University, Starkville, MS 39759
- 9:30 Morning Break**
- 9:45 Resistance to Wireworm / *Diabrotica / Systena* Among Sweetpotato Cultivars and Advanced Lines.** T. J. Douglas\*<sup>1</sup>, Stephen L. Meyers<sup>2</sup>, Ashli Brown<sup>3</sup>, Blake Layton<sup>3</sup> and Fred Musser<sup>3</sup> <sup>1</sup>Department of Biochemistry, Molecular Biology, Entomology and Plant Pathology, Mississippi State University, Mississippi State, MS 39762. Currently at Auburn University, <sup>2</sup>Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS 38863. Currently at Purdue University, <sup>3</sup>Department of Biochemistry, Molecular Biology, Entomology and Plant Pathology, Mississippi State University, Mississippi State, MS 39762

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**10:00 Sweetpotato Response to Reduced Rates of Dicamba.** Lorin M. Harvey\*, Mark W. Shankle, and Callie J. Morris, Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS 38863

**10:15 Production of Green-engineered Silver Nanoparticles Against the Root-knot Nematode *Meloidogyne incognita*, and the Evaluation of Their Nematicidal Activity in Sweetpotato.** Gregory C. Bernard\*, Naresh Shahi<sup>2</sup>, Byungjin Min<sup>2</sup>, Marceline Egnin, Ivi Mitchell, Andrea Lockett, Inocent Ritte, Osa Idehen, Adrienne Brown, and Conrad Bonsi, Department of Agriculture, Department of Nutrition Science<sup>2</sup> Tuskegee University, 1200 W. Montgomery Rd. Tuskegee, AL 36088

**10:30 Effect of Flumioxazin and S-metolachlor on Covington sweetpotato planted vertically or horizontally.** Keith D. Starke\*<sup>1</sup>, Levi D. Moore<sup>2</sup>, Colton D. Blankenship<sup>2</sup>, Katherine M. Jennings<sup>2</sup>, David W. Monks<sup>2</sup>, Jonathan Schultheis<sup>2</sup> <sup>1</sup>Central Crops Research Station, North Carolina State University, Clayton, NC 27520, <sup>2</sup>Horticultural Science Department, North Carolina State University, Raleigh, NC 27695

**10:45 Are We Staying Clean? Detection of Sweetpotato Viruses on Multiple Seed Generations in North Carolina.** Christie Almeyda\*<sup>1</sup>, Tamara Abernethy<sup>1</sup>, Chunying Li<sup>1</sup>, Ken Pecota<sup>2</sup> and Craig Yencho<sup>2</sup>  
<sup>1</sup>Micropropagation and Repository Unit, Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC 27607, <sup>2</sup>Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695

**11:00 Development of an IPM Program for the Sweet Potato Weevil, *Cylas formicarius* in Puerto Rico** Martha Giraldo\*<sup>1</sup> and Wanda I. Almodóvar<sup>2</sup> <sup>1</sup>Department of Agroenvironmental Sciences, University of Puerto Rico at Mayaguez Campus, Agricultural Experimental Station (AES) at Rio Piedras, San Juan, <sup>2</sup>Department of Agroenvironmental Sciences, University of Puerto Rico, Mayaguez Campus, Agricultural Extension Service at Mayaguez

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**11:15 Evaluating Electrical and Mechanical Methods for Palmer Amaranth (*Amaranthus palmeri*) Control in Sweetpotato** Levi D. Moore\*<sup>1</sup>, Katherine M. Jennings<sup>1</sup>, David W. Monks<sup>1</sup>, Michael D. Boyette<sup>2</sup>, Ramon G. Leon<sup>3</sup>, David L. Jordan<sup>3</sup>, Stephen J. Ippolito<sup>1</sup>, Colton D. Blankenship<sup>1</sup>, and FNU Chitra<sup>1</sup> <sup>1</sup>2721 Founders Drive, Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, <sup>2</sup>3100 Faucette Dr., Department of Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC 27695, <sup>3</sup>101 Derieux Pl, Department of Crop and Soil Sciences, North Carolina State University, Raleigh, NC 27695

**11:30 Evaluating Sweet Potato Varieties for Their Allelopathic Effects on Growth of Different Weed Species under Field Conditions.** Varsha Singh\*<sup>1</sup>, Isabel Werle<sup>2</sup>, Mark W. Shankle<sup>3</sup>, Stephen L. Meyers<sup>4</sup>, and Te-Ming Tseng<sup>1</sup> <sup>1</sup>Mississippi State University, Starkville, MS 39762, <sup>2</sup>University of Arkansas, Fayetteville, AR 72701, <sup>3</sup>Mississippi State University, Pontotoc, MS 38863, <sup>4</sup>Purdue University, West Lafayette IN, 47907

**11:45 Investigating the Use of Biologicals and Re-curing for the Management of Rhizopus Soft Rot on Sweetpotato Roots.** Waana Kaluwasha\* and Christopher Clark, Department of Plant Pathology and Crop Physiology, Louisiana State University, Baton Rouge, LA 70801

**12:00 QTL analysis of the 'Tanzania' x 'Beauregard' Sweetpotato Mapping Population for Resistance to *Meloidogyne enterolobii*.** Simon Fraher\*<sup>1</sup>, Tanner Schwarz<sup>2</sup>, Bonny Oloka<sup>3</sup>, Ken Pecota<sup>1</sup>, Chris Heim<sup>1</sup>, Adrienne Gorny<sup>2</sup>, and G. Craig Yencho<sup>1</sup>  
<sup>1</sup>Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, <sup>2</sup>Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC 27695, <sup>3</sup>Root Crops Program, National Agricultural Research Organization, Entebbe, Uganda

## HORTICULTURE

**12:15 Effect of Preemergence Herbicides in Covington Sweetpotato.** Stephen Ippolito\*<sup>1</sup>, Katherine M. Jennings<sup>1</sup>, David W. Monks<sup>1</sup>, Sushila Chaudhari<sup>2</sup>, David L. Jordan<sup>3, 1</sup>  
Department of Horticultural Science, North Carolina State University, Raleigh, NC, USA, <sup>2</sup> Department of Horticulture, Plant and Soil Science, Michigan State University, East Lansing, MI, USA, <sup>3</sup> Department of Crop and Soil Sciences, North Carolina State University, Raleigh, NC, USA

**12:30 Lunch**

**1:45 Discussion**

**2:30 Business Meeting and Awards**

**5:00 Adjourn**

## RESEARCH CENTER ADMINISTRATORS

**RCAS Winter Meeting Topics - Feb. 13-14, 2022-  
New Orleans**

**Room: Nottoway (Fourth Floor)**

### Sunday, February 13

**1:30 PM Registration**

**2:00 PM Executive Business Meeting**

**6:00 PM Dinner (on your own)**

### Monday, February 14

**8:00-8:30 AM Check-in & Refreshments**

**8:30-8:40 AM Welcome & Introduction** President RCAS, Joe Davlin, The Ohio State University

**8:40-9:00 AM Louisiana Agriculture Update**  
Michael Salassi, Associate Vice President and Program Leader for Plant and Animal Sciences, LSU AgCenter

**9:00-9:30 AM Biosecurity Protocols in Animal Units**  
Teresa Lambert, NC Department of Agriculture & Consumer Services, Research Stations Division

**9:30-9:50 AM Break**

**9:50-10:35 AM Agricultural Experiment Station Record Keeping: What's Worked, What Hasn't, What Else to Try**  
Jeff Chandler, Director, Mountain Horticultural Crops Research and Extension Center, NC State University  
Vaughn Skinner, Resident Director, SAREC, University of Arkansas  
John Yost, Assistant Director REOC Operations, West Virginia University

**10:35-10:55 AM Piggybacking with Partners to Remove Feral Hogs on the Pine Tree Research Station in Arkansas**  
Shawn Clark, Resident Director, of Arkansas, Pine Tree Research Station

**10:55-11:30 AM Research Opportunities in Precision Livestock Farming**  
Robert T. Burns, Distinguished Professor, University of Tennessee

## RESEARCH CENTER ADMINISTRATORS

- 11:30 AM -1:15 PM Lunch (on your own)**
- 1:15-1:35 PM Reinventing an Existing Building into New Produce Handling Facility**  
Jeff Chandler, Director, Mountain Horticultural Crops Research and Extension Center, NC State University
- 1:35-1:55 PM Ag Exemptions for Agricultural Facilities**  
Tommy Corbett, NCD & CS Research Stations Division
- 1:55-2:50 PM Benefits of an External Review of Outlying Research Centers, Ranches, and other Agricultural Experiment Station Properties.**  
Jerry Fankhauser, Assistant Director, Florida Agricultural Experiment Station – UF/IFAS  
Shibu Jose, Associate Dean and Director AES, University of Missouri  
Tim Reinbott, Director of Field Operations, Missouri Agricultural Experiment Station – University of Missouri  
Hector Santiago, Assistant Dean/Assistant Director, University of Nebraska
- 2:50-3:00 PM Break**
- 3:00-3:45 PM Determination of the Value of a REC, AREC, and other Research Properties and the Feasibility of their Closure, Relocation, or Repurposing – Case Studies and Roundtable Discussion**  
Peter Schultz, Emeritus Professor of Entomology, Hampton Roads AREC, Virginia Tech University  
Stephen Hawkins, Director, Purdue Ag Centers  
Barry Sims, Executive Director-AgResearch, University of Tennessee
- 3:45-4:15 PM Waterman: Fulfilling the Land-grant Mission in the 21<sup>st</sup> Century**  
Andrew “Dewey” Mann, Director, Waterman Agricultural and Natural Resources Laboratory, Ohio State University

## RESEARCH CENTER ADMINISTRATORS

- 4:15-4:55 PM Life as the Spouse of a Center Director - The Good, The Bad, and the Ugly!**  
Jan Beaty, Purdue University  
Lisa Brown, University of Tennessee  
Terry Davlin, Ohio State University  
Lynn Schultz, Virginia Tech
- 4:55-5:00 PM Break**
- 5:00-5:30 PM RCAS General Business Meeting**

## RURAL SOCIOLOGY

### *Southern Rural Sociological Association Annual Meeting*

**February 13-14, 2021**

**New Orleans, Louisiana**

**Concurrent with the Southern Association of  
Agricultural Scientists (SAAS)**

**“Climate Change, Agricultural Food Systems,  
Rural Livelihoods, and Resilience”**

**President Buddhi R. Gyawali, Kentucky State  
University**

For decades, the rural South has suffered from the negative effects of an aging farmer population, declining communities, retreating industries, a degraded environment, a crumbling infrastructure, and the lack of vital health and educational technology, including broadband. The COVID-19 pandemic is still part of our lives, with no firm end in sight, and recovery from the detrimental impacts is slow. Climate change-prompted droughts, wildfires, freezes, and floods (as well as accompanying food insecurities) are continuously affecting agricultural food systems and supply chains, disproportionately influencing the underserved and limited-resource farmers in the South. These shocks will continue to stress and challenge rural and urban populations, policymakers, academics, research, and Extension professionals in the South, as well as nationwide. It is imperative to study the scale, magnitude, and spatial extent of impacts of such shocks in the livelihoods of local communities with different demographic and geographic variations. Various forms of community resilience and innovative, collaborative initiatives for knowledge coproduction for better decision-making to mitigate such situations are emerging. It is worth sharing the many success stories of university-farmer collaboration to identify social, emotional, physical and economic needs, effective use of social media, and virtual technologies for developing sustainable agricultural practices. The Southern Rural Sociological Association (SRSA) 2022 Annual Meeting is a forum to share scholarly work that studies the impacts of such shocks on the agricultural food system and supply chain, rural vulnerabilities, and alternative mitigation and adaptation strategies at the different footprints of rurality. We also anticipate papers and panels that discuss the importance of social and place-based theories in studying poverty, human-environment relationships and decision-making, climate injustice, and in studying inequitable access and opportunities to resources and federal agricultural and community development programs.

## RURAL SOCIOLOGY

### **Program at a Glance**

Rooms: Napoleon Foyer, Napoleon C1, Napoleon C2, and Napoleon C3

### Abbreviations

Organizations

Southern Association of Agricultural Scientists: SAAS

Southern Rural Sociological Association: SRSA

### Sunday, February 13, 2022

<b>Day and Time</b>	<b>Location</b>	<b>Session Number and Title</b>
7:45 am– 3:00 pm	Napoleon Foyer	Registration and Poster Set-Up (after 9:00 am for posters)
8:00 am– 9:00 am	Napoleon C1	SRSA Executive Committee
9:15 am– 10:30 am	Napoleon C1	1 – Food Systems and Community Quality of Life
9:15 am– 10:30 am	Napoleon C2	2- Environment and Climate Change
10:45 am– 12:00 pm	Napoleon C1	3- Agrifood Systems and Practices
10:45 am– 12:00 pm	Napoleon C2	4- Engaging with Race and Resources in the Rural Context
12:00 pm– 1:00 pm		Lunch (on your own)
1:00 pm– 2:15 pm	Napoleon C1	Panel 1: In Pursuit of Rural Prosperity: Development Research to Inform Policy and Practice
	Napoleon C2	5-Rural Identities
2:30 pm– 3:45 pm	Napoleon C1	6– Research to Action: Informing Extension and Community Development
	Napoleon C2	7- Rural Realities
	Borgne	SAAS Board Meeting
4:00 pm– 5:00pm	Borgne	SAAS General Business Meeting
5:00 pm	Grand Ballroom	SAAS Social and Super Bowl Party

## RURAL SOCIOLOGY

**Monday, February 14, 2022**

Day and Time	Location	Session Number and Title
7:45 am–3:00 pm	Napoleon Foyer	Registration and Poster Set-Up
8:15 am–9:30 am	Napoleon C1	8– Human Capital and Rural Communities: Education and Migration
	Napoleon C2	9 – Technology Adoption and Diffusion
9:45 am–11:00 am	Napoleon C1	Panel 2: Race and Racism in Rural America
11:30 am–1:00 pm	Napoleon C3	SRSA Awards Luncheon and Presidential Address
1:15 pm–2:30 pm	Napoleon C1	10 – Health and Wellbeing in Rural Communities
	Napoleon C2	11-Innovations in Community and Organizational Research
2:45 pm–3:45 pm	Napoleon Foyer	Poster Session
3:45 pm–4:45 pm	Napoleon C1	SRSA Business Meeting (all members encouraged)
4:45 pm–5:30 pm	Napoleon C1	SRSA Executive Council Meeting
6:00 pm	To be announced	SRSA Presidential Reception

### Detailed Program

**Sunday, February 13, 2022**

7:45 am–3:00 pm, Napoleon Foyer: Registration and Poster Set-Up (after 9:00 am for posters)

8:00 am–9:00 am: SRSA Executive Committee, Napoleon C1

9:15 am–10:30 am: Napoleon C1 Session 1 – Food Systems and Community Quality of Life

Local Food Systems and Health Interventions: An Exploratory Study on Farmers Perspectives on Food Prescription Programs in the Mississippi Delta. *Curtis Kline, Colorado State University; Anne Cafer, University of Mississippi; Meagan Rosenthal, University of Mississippi*

Generative Possibilities for Regional Food Systems Resilience: An Agroecological Perspective  
*Kim Niewolny, Virginia Tech; Eric Bendfeldt, Virginia Tech*

## RURAL SOCIOLOGY

Food-related Behavior of Food Desert Residents Looking Beyond the variables: Insights from Journey Mapping of Food desert Residents  
*Terrence Thomas, North Carolina A&T State University; Steve Folmar, Wake Forest University*

Farmers Market Leadership: Resilience and Support  
*Jama S. Coartney, Virginia Tech; Eric K. Kaufman, Virginia Tech*

Exploring Collective Agency in Multi-Sector Advocacy for Racial Justice in the Food System  
*Nicole Nunoo, Virginia Tech; Kim Niewolny, Virginia Tech*

9:15 am–10:30 am: Napoleon C2 Session 2 Environment and Climate Change

Peer Pressure, Self-Efficacy, Outcome Expectancy and Moral Values Predict Intentions for Active Management of Ecosystems in Oklahoma  
*Bijesh Mishra, Oklahoma State University; Rodney Will, Oklahoma State University; Omkar Joshi, Oklahoma State University*

It's the Heat Under Our Feet: Assessing Self-Reported Knowledge of Low-Temperature Geothermal Energy Development  
*Abigail Almendarez, Sam Houston State University; Gene L. Theodori, Sam Houston State University; Urs P. Kreuter, Texas A&M University*

Climate Change, Science, Politics, and Agnotology in the Anthropocene  
*Douglas H. Constance, Sam Houston State University*

The Socioeconomic Impact of Natural Resources Extracted by Multinational Corporations: The Case of the State of Alabama, USA and Sudan, North Africa  
*Dalal Alkordi, Tuskegee University; Robert Zabawa, Tuskegee University; Thierno Thiam, Tuskegee University*

10:45 am–12:00 pm, Napoleon C1: Session 3 – Agrifood Systems and Practices

The Sociology of Sotol: Tequila's Cousin  
*Matthew Franciskovich, Sam Houston State University; Douglas H. Constance, Sam Houston State University*

## RURAL SOCIOLOGY

From Drugs to Agriculture and Back: Perspectives of Kentucky State University's Extension Agents on Rehabilitation of potential Kentucky Small Limited Resource Farmers

*Laura Rogers, Kentucky State University; Dr. Marion Simon, Kentucky State University; Dr. Gyawali, Kentucky State University*

Group Solidity/Cohesion in Three Cases: La Via Campesina (via Desmarais,) African-American Cooperatives (via Gordon-Nembhard) and The NFO (via Muhm)  
*Thomas Gray, USDA, Program on Cooperatives*

Downscaling County-level Crop Yield Information for the Estimation of Parcel-specific Production Potential for Kentucky Farm Lands

*Jeremy Sandifer, Kentucky State University; Buddhi R. Gyawali, Kentucky State University*

Barriers and Bridges to Success: A Mixed Methods Needs Assessment of Texas Small Producers

*Katie Tritsch, Texas State University; Ken Mix, Texas State University; Michelle Edwards, Texas State University; Manuel Piña, Jr., Texas A&M University*

10:45 am–12:00 pm, Napoleon C2: Session 4–Engaging with Race and Resources in the Rural Context

Take What You Have To Make What You Need": Can Small-Scale African American Farmers Help Alleviate Food Insecurity In The Alabama Black Belt Counties?  
*Folashade Adalumo, Tuskegee University; Robert Zabawa, Tuskegee University; Souleymane Fall, Tuskegee University; Joe Jimmeh, Tuskegee University; Raymond Shange, Tuskegee University; and David Nganwa, Tuskegee University*

White supremacy and the persistence of African American poverty in the Mississippi Delta: The role of the Black Middle Class and secondary marginalization.  
*Mark Harvey, Florida Atlantic University*

"Tell Your Story": Farmers, Class, Race, and Inequality  
*Kelli Russell, Mississippi State University*

## RURAL SOCIOLOGY

Community Resilience Influenced by Race and Politics in the Context of Large Immigration Raids in Central Mississippi  
*Diego Thompson, Mississippi State University*

12:00 pm–1:00 pm: Lunch (on your own)

1:00 pm–2:15 pm, Napoleon C1: Panel 1: In Pursuit of Rural Prosperity: Development Research to Inform Policy and Practice

Moderator: Robert Zabawa, Tuskegee University

Presenters:

Samantha Evans, Federal Reserve Bank of St. Louis

John J. Green, Southern Rural Development Center

1:00 pm–2:15 pm, Napoleon C2: Session 5: Rural Identities

Manifold Relations: An Examination into Types of Community Attachment and Commitment

*D. Clayton Smith, Western Kentucky University; McKenna N. Hale, Western Kentucky University*

A Multifaceted Understanding of Producer Identity and Relationships

*Audrey E. H. King, Oklahoma State University; Quisto Settle, Oklahoma State University*

The Farmer She ...

*Shelley Spiggle, Kentucky State University; Marion Simon, Kentucky State University*

She Owns It: A Study of Women Landowners in the Missouri Bootheel

*Hannah Bullock, University of Mississippi; Anne Cafer, University of Mississippi*

Exploring a Preliminary Theory of Identity-Oriented Evaluation

*Katie E. Sanders, University of Georgia; Alexa J. Lamm, University of Georgia; Abigail Borron, University of Georgia*

2:30 pm–3:45 pm, Napoleon C1: Session 6 – Research to Action: Informing Extension and Community Development



## RURAL SOCIOLOGY

Using Data to Make a Difference – Wake-Up-Downtown

*Rachael Carter, Mississippi State University Extension, Center for Government and Community Development*

When Does Support from Organizational Leaders Improve Survey Response Rates?

*Glenn D. Israel, University of Florida*

Logic Modeling an Effective Tool for Extension Program Planning and Evaluation

*Lila B. Karki and Enrique N. Escobar, University of Maryland Eastern Shore, MD*

50 Years of Rural Development: The Regional Rural Development Centers and the Southern Focus

*Russ Garner, Southern Rural Development Center*

Policy Center Research Analyst Update- Heir Property Issues faced by Socially Disadvantaged Farmers and Ranchers (SDFRs)

*Kara Woods, Socially Disadvantaged Farmers and Ranchers Research Policy Center*

2:30 pm–3:45 pm, Napoleon C2: Session 7– Rural Realities

The Association between Living Arrangement and Life Satisfaction in Rural Texas

*Tze-Li Hsu, Sam Houston State University; Jin Young Choi, Sam Houston State University; Gene Theodori, Sam Houston State University*

Retirement Migration and Community Attachment: Experiences of Older Adults Moving to Nonmetropolitan Areas in Northern Michigan and North Carolina

*Ilona Matysiak, Maria Grzegorzewska University*

Not Here for Vacation: Hotels as Stop-gap Affordable Housing in Rural Georgia

*Kim Skobba, University of Georgia; Terri Lewinson, Dartmouth College; Michael Gawrys, University of Georgia*

Urban Texas Residents' Perceptions of Rural People and Places: Data from a 2021 Survey

*Gene L. Theodori, Sam Houston State University; Fern K. Willits, The Pennsylvania State University; Michael W-P Fortunato, Creative Insight Community Development*

## RURAL SOCIOLOGY

Measuring the Impact of Broadband on Quality of Life in Rural Areas: A Systematic Exploration of Literature

*John J. Green, Southern Rural Development Center; Jillian Morrison, Delta Directions Consortium/University of Mississippi; Roberto Gallardo, Purdue University; Brian Whitacre, Oklahoma State University; Dave Lamie, Clemson University; Sreedhar Upendram, University of Tennessee*

2:30 pm–3:30 pm SAAS Board Meeting

4:00 pm–4:15 pm SAAS General Business Meeting

4:30 pm SAAS Social/Super Bowl Party – Grand Ballroom (5<sup>th</sup> Floor)

### **Monday, February 14, 2021**

7:45 am–3:00 pm, Napoleon Foyer Area: Registration and Poster Set-Up

8:15 am–9:30 am, Napoleon C1: Session 8 – Human Capital and Rural Communities: Education and Migration

"It is Engrained in Them, that Education Does Not Matter": Empowering Youth in Kentucky Coal Mining Communities

*Mallory E. McDonald, University of Kentucky; Dr. Stacy K. Vincent, University of Kentucky*

"We Belong Here": The Resiliency of Rural LGBTQIA+ Teachers

*Caleb M. Hickman, University of Kentucky; Dr. Stacy K. Vincent, University of Kentucky*

Examining Education Through a Community Resilience Lens

*Yasmin McLaurin, University of Mississippi; Anne Cafer, University of Mississippi; Raeda Anderson, Shepherd Center*

Puddles of Respite: Spatial Migration Trends from the Dry Corridor of Central America to the United States

*Christian Kelly Scott, Mississippi State University; Shrinidhi Ambinakudige, Mississippi State University; Domenico Parisi, Mississippi State University*

## RURAL SOCIOLOGY

Contribution of H2A Temporary Agricultural Workers U.S. Meat and Livestock Industry: An Econometric Analysis  
*Osei Yeboah, North Carolina Agricultural & Technical State University; Cephas Naanwaab, North Carolina Agricultural & Technical State University; Paula E. Faulkner, North Carolina Agricultural & Technical State University*

8:15 am–9:30 am, Napoleon C2: Session 9–  
Technology Adoption and Diffusion

Why is a Drone a Good Farm Management Tool?  
*William Rogers, Kentucky State University*

Using the Zero Energy Cool Chamber as an Affordable Storage Technology for Shelf-Life Extension and Vegetable Loss Reduction among Minority Growers  
*Lucy Asare-Baah, Tuskegee University; Robert Zabawa, Tuskegee University; Lisa Kitinoja, Postharvest Education Foundation; Desmond Mortley, Tuskegee University; David Tackie, Tuskegee University*

Factors Affecting Awareness and Adoption of Patch Burning  
*Saroj Adhikari, Oklahoma State University, Omkar Joshi, Oklahoma State University, Sam Fuhlendorf, Oklahoma State University*

North Carolina Veterans and Limited Resource Farmer's Self-Reported Farm Safety Needs  
*Paula E. Faulkner, North Carolina Agricultural and Technical State University; Shon Smith, North Carolina Agricultural and Technical State University; Robert Cobb, Jr., North Carolina Agricultural and Technical State University; Osei Yeboah, North Carolina Agricultural and Technical State University*

"Input From the Trenches: Farmer Feedback On Technology Adaption"  
*Cynthia Rice, Kentucky State University; Dr. Buddhi Gyawali, Kentucky State University*

9:45 am–11:00 am, Napoleon C1: Panel 2: Race and Racism in Rural America

Panelists:  
Kenneth L. Robinson, Clemson University; Angie Carter, Michigan Technological University; Mark Harvey, Florida Atlantic University; Keiko Tanaka, University of Kentucky

## RURAL SOCIOLOGY

11:30 am–1:00 pm, Napoleon C3: SRSA Awards Luncheon and Presidential Address: "Climate Change, Agricultural Food Systems, Rural Livelihoods, and Resilience"

1:15 pm–2:30 pm, Napoleon C1: Session 10 – Health and Wellbeing in Rural Communities

Identifying Impacts of COVID-19 in Rural [State]  
*Shane Robinson, Oklahoma State University; Audrey E. H. King, Oklahoma State University; Tyson Ochsner, Oklahoma State University; Paul Weckler, Oklahoma State University; Mark Woodring, Oklahoma State University*

The Intersection of Paternal Orphanhood or Parental Illness and Child's Biological Relationship to Household Head on the Physical Health of Children Under Five in Nigeria  
*Aramide Kazeem, University of West Georgia; John Musalia, Western Kentucky University*

Race and Space: COVID-19 Disparities, Vaccines, and Hesitancy in the United States' South  
*Jasmine Nguyen, University of Mississippi; Anne Cafer, University of Mississippi; Meagen Rosenthal*

Considering a Rural Capacity Development Framework Using Dialectical Models  
*Katie Sanders, University of Georgia; Barbara Worley, University of Georgia; Ellen Harrell, University of Georgia; Abigail Borron, University of Georgia; Alexa Lamm, University of Georgia*

Women Incarcerated in Rural Southern Prisons: A Review of Existing Multidisciplinary Literature and Suggestions for Future Directions  
*Susan Dewey, Professor of Criminology & Criminal Justice, The University of Alabama, Brittany Gilmer, Associate Professor of Criminology & Criminal Justice, The University of Alabama, Ariane Prohaska, Associate Professor of Criminology & Criminal Justice, The University of Alabama, Lauren Yearout, Instructor, Criminology & Criminal Justice, The University of Alabama*

## RURAL SOCIOLOGY

1:15 pm–2:30 pm, Napoleon C2: Session 11 –  
Innovations in Community and Organizational  
Research

Proposing an Identity-Oriented Framework  
for Culturally-Responsive Evaluation in Rural  
Communities

*Katie Sanders, University of Georgia; Alexa  
J. Lamm, University of Georgia; Abigail  
Borron, University of Georgia*

Manifold Relations: An Examination into  
Types of Community Attachment and  
Commitment

*D. Clayton Smith, Western Kentucky  
University; McKenna N. Hale, Western  
Kentucky University*

A Preliminary Analysis of the Effects of  
Selected Characteristics on Record Keeping  
by Small Producers in South Central  
Alabama

*David Nii Tackie, Khali N. Jones, Francisca  
A. Quarcoo, Gwen Johnson, Jeffrey Moore,  
and Alphonso Elliott, Tuskegee University*

Qualitative Analysis of Participation in One  
Women's Campus Organization

*Brooklynn J. Wynveen, Sam Houston State  
University; Sara Jansen Perry, Baylor  
University*

2:45 pm–3:45 pm, Napoleon Foyer Area: Poster  
Session

Title/Author(s)

"Agricultural Food Systems: In a State of Flux as the  
Supply Chain Resets"

*Cynthia Rice, Kentucky State University; Dr.  
Buddhi Gyawali, Kentucky State University;  
Dr. Marion Simon*

"Climate Change: Possible Future Scenarios for the  
Agricultural Community"

*Cynthia Rice, Kentucky State University; Dr.  
Buddhi Gyawali, Kentucky State University;  
Dr. Marion Simon*

Accessibility Experiences among Individuals with  
Physical Disabilities who use Wheelchairs in Rural  
Regions

*Dr. Kaycee Bills, Fayetteville State University*

The Effects of the Globalization of the Agrifood  
Business on Rural Farmers

*Edith-Marie Green, the University of  
Mississippi*

## RURAL SOCIOLOGY

The Benefits of Extension Program Area  
Specialization: A Look at Client Satisfaction and  
Outcomes

*Mallory L. Cotter, University of Florida  
Glenn D. Israel, University of Florida*

Co-Developing Climate-Smart Strategies for Alabama  
Row Crop Producers and Agricultural Stakeholders

*Stewart, Hannah, Auburn University; Michelle  
R. Worosz, Auburn University; McKayla  
Robinette, Auburn University; Brenda Ortiz,  
Auburn University; Audrey Gamble, Auburn  
University; Leah Duzy, Compliance Services  
International; and Rishi Prasad, Auburn  
University*

A qualitative study on the coverage of climate change  
effects on fishers by online news sources

*Harsha Elizabeth James, University of  
Florida; Laura A. Warner, University of  
Florida*

Federal Financial Benchmarking: Outreaching and  
Recruiting Agricultural Producers Online.

*Henry Flowers and Jose Lopez, Texas A&M  
University-Commerce*

Farm Business Management and Benchmarking in  
Time of COVID-19.

*Jose Lopez, Kelley Smith, Henry Flowers,  
Yves Kacou, Texas A&M University-  
Commerce*

Impacts of Drought on Corn and Soybean Production  
in the Southeastern United States.

*Kabita Paudel, Jeremy Sandifer, Buddhi  
Gyawali, College of Agriculture, Community,  
and the Sciences, Kentucky State University.*

Service Learning for Undergraduates Residing in  
Rural Regions: An Analysis of Learning Rural  
Community Resources

*Dr. Kaycee Bills, Fayetteville State University*

Federal Financial Benchmarking: Outreaching and  
Recruiting Agricultural Producers through  
Professionally Networking

*Kelley Smith, Texas A&M University-  
Commerce; Dr. Jose Lopez, Texas A&M  
University- Commerce*

"Climate-Smart" Information Exchanges in the Future  
of Farming

*McKayla R. Robinette, Auburn University;  
Michelle R. Worosz, Auburn University;  
Hannah Stewart, Auburn University; Ryan  
Thomson, Auburn University; Brenda Ortiz,  
Auburn University, Alabama Agricultural  
Experiment Station, Alabama Cooperative  
Extension Service; Audrey Gamble, Auburn  
University, Alabama Agricultural Experiment  
Station, Alabama Cooperative Extension  
Service; Leah Duzy, Compliance Services  
International; Rishi Prasad, Auburn University,  
Alabama Agricultural Experiment Station,  
Alabama Cooperative Extension Service*

## RURAL SOCIOLOGY

Assessing the impacts of changing climatic conditions in agricultural economy in the Southeastern USA

Suraj K C, Kabita Paudel, Jeremy Sandifer, Dr. Buddhi Gyawali; Kentucky State University

Trust in Trying Times: A quantitative study to understand rural, suburban, and urban American's trust of COVID-19 information sources.

Naik Wali, University of Florida; Lauri M. Baker, University of Florida, Angela B. Lindsey, University of Florida; Ashley McLeod-Morin, University of Florida

A Snapshot of North Carolina Veteran and Limited Resource Farmer's Input about Mental Health Needs

Paula E. Faulkner, North Carolina Agricultural and Technical State University; Shon Smith, North Carolina Agricultural and Technical State University; Robert Cobb, Jr., North Carolina Agricultural and Technical State University; Osei Yeboah, North Carolina Agricultural and Technical State University

Food Security Challenges for University Freshmen and their Families during the Pandemic Shutdown Semester

Robert L. Williams, Hailey Cooper, Kasey Curtin, & Clanci Richardson  
Texas A&M University-Commerce

Local and regional food systems in the South: Engaging new frontiers

Russ Garner, Southern Rural Development Center

Community focus group discussions lead to understanding of local experience, perception, and opinions regarding surface mining, reclamation practices, and the utilization of reclaimed surface mine lands in the eastern region of Kentucky

Whitney Tara Maynard, Kentucky State University; Dr. Buddhi Gyawali, Kentucky State University; Cynthia Rice, Kentucky State University

3:45 pm–4:45 pm, Napoleon C1: SRSA Business Meeting (all attendees encouraged to attend)

4:45 pm–5:30 pm, Napoleon C1: SRSA Executive Council Meeting

6:00 pm, Room number TBA: SRSA Presidential Reception

## RURAL SOCIOLOGY

### Southern Rural Sociology Officers 2021-2022

#### **President** - Buddhi Gyawali

Associate Professor of Geospatial Applications  
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#### **Past President** - David Nii O. Tackie

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#### **Non-Voting Officer-Journal Editor-in-Chief**

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# MEETING ROOM INFORMATION

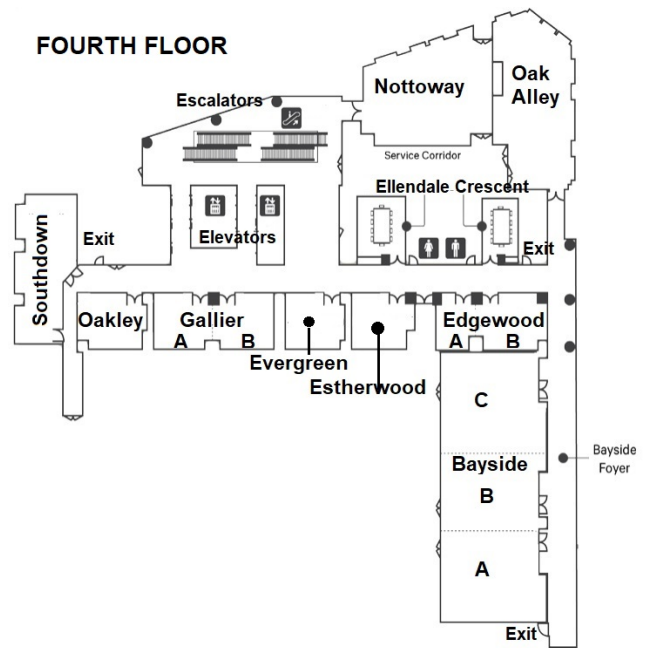
## Meeting Rooms Alphabetical

### Sheraton New Orleans Hotel

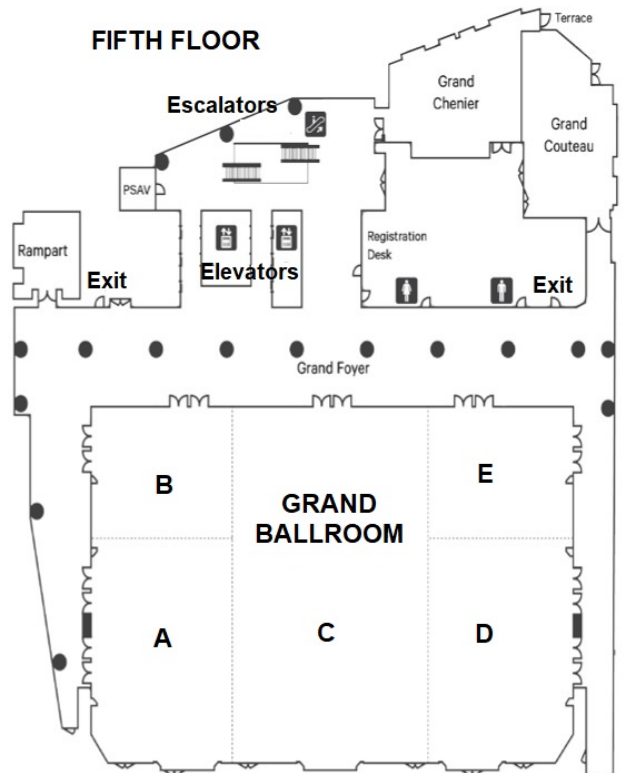
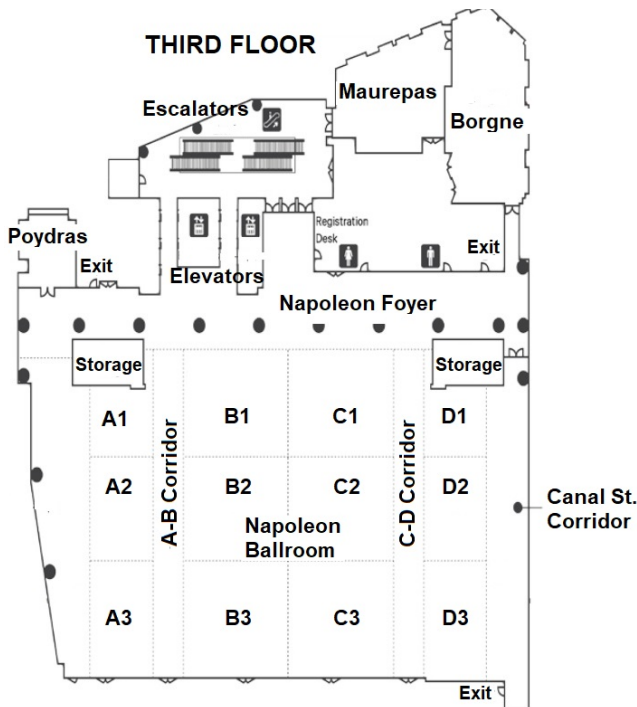
Room	Floor
Bayside A/B/C	4 <sup>th</sup> Floor
Borgne	3 <sup>rd</sup> Floor
Canal Street Corridor	3 <sup>rd</sup> Floor
Edgewood A/B	4 <sup>th</sup> Floor
Esterwood	4 <sup>th</sup> Floor
Evergreen	4 <sup>th</sup> Floor
Gallier A/B	4 <sup>th</sup> Floor
Grand Ballroom	5 <sup>th</sup> Floor
Maurepas	3 <sup>rd</sup> Floor
Napoleon Rooms & Foyer	3 <sup>rd</sup> Floor
Nottoway	4 <sup>th</sup> Floor
Oak Alley	4 <sup>th</sup> Floor
Oakley	4 <sup>th</sup> Floor
Poydras	3 <sup>rd</sup> Floor
Southdown	4 <sup>th</sup> Floor

# MEETING ROOM INFORMATION

## FLOOR DIAGRAMS Sheraton New Orleans Hotel



## FLOOR DIAGRAMS Sheraton New Orleans Hotel



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**Southern Association  
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**Upcoming Meeting Locations**

SAAS 2023 – Oklahoma City, OK

SAAS 2024 – Atlanta, GA

SAAS 2025 – Irving, TX

SAAS 2026 – Mobile, AL

***Conference participants are encouraged to write  
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