Revised 12-21-2021

PROGRAM



2022 Annual Meeting

February 11-13, 2022 New Orleans, LA

86th Year
Southern Region
American Society for Horticultural Science

102nd 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 modernday Southern Association of Agricultural Scientists (SAAS). In 1920, SAAS (which at that time was called Association of Southern Agricultural Works, ASAW) formalized the affiliation with horticulture by founding the Horticulture Section. In 1936, the American Society for Horticultural Sciences approved the Southern States Section, which is now termed the Southern Region of ASHS. In 1937, SAAS accepted the affiliation between the Southern States Section of ASHS with the Horticulture Section of SAAS. Thus, the Southern Region jointly has been a part of both ASHS (with a founding date of 1936) and SAAS (with a founding date 1920). This rich history is detailed in publications by Andy Anderson, 1982, and Paul Seal, 1999 (available at srashs.org). The Southern Region encompasses the 14 southern states of Texas, Louisiana, Oklahoma, Arkansas, Mississippi, Georgia, Alabama, Florida, South Carolina, North Carolina, Virginia, West Virginia, Kentucky and Tennessee. Membership varies over the years from about 200 to 500 active members. Membership is composed of professors, research scientists, teachers and extension specialists from Universities, State, Federal and private research organizations, and industry. The Southern Region also contains a student section, the Association of Collegiate Branches, which is composed of student clubs from departments of horticulture and plant science across the region. The focus of the Southern Region is the Annual Meeting, which is held every February in conjunction with the Southern Association of Agricultural Scientists (SAAS). The Annual Meeting consists of presentations of scientific papers, student papers and judging competition, commodity group meetings, and awards presentations.

Goals:

- Encourage and facilitate the mutual exchange of ideas and information concerning horticultural research, extension, education, and industry in the south.
- Promote stronger bonds among horticulturists throughout the southern regions.
- Encourage participation in the national society of the American Society for Horticultural Science.

Join us and become a part of the Tradition.

President Amy Wright

College of Agriculture **Auburn University** 107 Comer Hall Auburn, AL 36849 Phone: 334-844-3254

wrigham@auburn.edu

President-Elect Matt Chappell

Virginia Tech University Tidewater Agricultural Research & Extension Center (AREC) Suffolk, VA 23437-0099 chappell@vt.edu

Secretary-Treasurer David Wm. Reed

Dept. of Horticultural Sciences Texas A&M University **TAMU 2133** College Station, TX 77843 Phone: 979-777-2750 dwreed@tamu.edu

Web Site **srashs.org** Visit It

PROGRAM

2022 ANNUAL MEETING

Southern Region

American Society for Horticultural Science

February 11-13, 2022 New Orleans, LA

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7:00 am -	6:00 pm	Registration
	-	Hotel Lobby
9:00 am -	5:00 pm	ASHS Board of Directors
	_	Napoleon B1
8:00 am -	5:00 pm	Southern Fruit Workers
	•	Napoleon B2
10:00 am -	12:00 pm	ACB Club Share and Networking
	•	Napoleon C2
12:00 pm-	5:00 pm	ACB Group Activities, Tour, and Meal
12100 P111	ovo pin	Napoleon C2
1:00 pm -	4:45 pm	Watermelon Research Group
rioo pin	Wie pin	Napoleon A 2/3
1:00 pm -	5:00 pm	Horticulture Administrators
1.00 pm	2.00 pm	Poydras
5:00 pm -	6:30 pm	Executive Committee Meeting
5.00 pm -	0.50 pm	Poydras
5:00 pm -	until	ACB Mixer
5.00 pm -	unun	Napoleon C2 or announced at meeting
CATTIDI	D 4 X 7	Napoleon C2 of announced at meeting
SATURI		
7:00 am -	6:00 pm	Registration
		Napoleon Foyer
8:00 am –	10:00 pm	Poster Set Up Room
		Napoleon Foyer
8:00 am –	12:00 pm	J. Benton Storey Horticulture Judging Contest Setup
		Napoleon C3
8:00 am -	8:30 am	Education Section
		Napoleon C2
8:30 am -	5:00 am	Extension Section
		Napoleon C2
8:00 pm -	11:15 pm	Fruit Crops Section
		Napoleon B1
8:00 am -	10:30 am	J. B. Edmond Undergraduate Student Paper Competition.
		Napoleon C1
8:30 am -	4:00 pm	Watermelon Research Group
	-	Napoleon A 2/3
10:00 am –	12:00 pm	Posters Authors Mount Posters
	-	Napoleon Foyer
10:45 am -	3:15 pm	Norman F. Childers M.S. Student
	•	Napoleon D2
12:00 pm -	5:00 pm	Poster Session Viewing
•	•	Napoleon Foyer
12:00 pm -	5:00 pm	J. Benton Storey Horticulture Judging Contest
P	r	

Napoleon C3 **Vegetable Crops Section** 1:00 am -3:30am Napoleon B1 Warren S. Barham Ph.D. Student Paper Competition 3:30 pm -5:15 pm Napoleon C1 **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 -Postharvest & Biotechnology Section 10:45 am Napoleon A1 9:00 am -10:45am **ACB Business Meeting** Borgne 11:00 am -**Annual Business Meeting and Award Program** 12:30 pm 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

SAAS Super Bowl Party

4:30 pm

4:00 pm -

5:00 - until SAAS Super Bowl Party

Borgne

Grand Ballroom, Sheraton

SAAS General Business Meeting

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

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

8:00-11:15 - Order of Presentations roughly at 15 min intervals

- 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^{1*}, Bruce L. Dunn¹, Charles Fontanier¹, Carla Goad², and Hardeep Singh³¹, 358 Ag Hall, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078, ²301F MSCS Bldg., Department of Statistics, Oklahoma State University, Stillwater, OK 74078, ³2002 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^{1*}, Bizhen Hu², Lynn Brandenberger², Matthew Beartrack², and Charles Fontanier², ¹Department of Environmental Science, Oklahoma State University, Stillwater, OK 74078, ²Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078, (bizhen.hu@okstate.edu)
- 7. Effects of Trellising Systems on Spotted-Wing Drosophila in Blackberries in Arkansas. Mataya Duncan ^{1*}, Sarah Cato ², Lizzy Herrera ², Aaron Cato ², and Amanda McWhirt ², ¹ Department of Biology, University of Arkansas at Little Rock, 2801 S. University Ave., Little Rock, AR 72204, ² 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^{1*}, Paul Bartley¹, Dexter Watts², and Allen Torbert², ¹101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849. ²USDA-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^{1*}, Yan Chen¹, Zhijun Liu², and Lisa Fultz. ¹School of Plant, Environmental and Soil Sciences, Louisiana State University, ²School of Renewable Natural Resources. Baton Rouge, LA 70803. ¹ (yachen@agcenter.lsu.edu)
- 10. Scalable Extraction and Purification of an Anti-Cancer Drug Precursor from Oklahoma Eastern Red Cedar. Gwen Reilly*¹. Niels Maness², John Nickel², and Katie Stenmark², ¹Department of Nutritional Sciences, ²Department 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^{1*}, Yan Chen¹, Harrison Steudlein¹, Zhijun Liu², and Lisa Fultz¹. ¹School of Plant, Environmental and Soil Sciences, Louisiana State University, ²School of Renewable Natural Resources, 227 Renewable Natural Resources Bldg. Baton Rouge, LA 70803. (yachen@agcenter.lsu.edu)
- 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^{1*}, Gina Fernandez¹, Hamid Ashrafi¹, Cherie Oschenfeld², Abraham Corrales³, Margaret Worthington⁴, Erika Henderson⁴, Courtney Weber⁵, Jill Bushakra⁶ and Michael Dossett⁷. ¹ Department of Horticultural Science, NCSU Raleigh NC, ² Pairwise, Durham, NC, ³ Plant Sciences Inc., Watsonville, CA, ⁴ Department of Horticulture. University of Arkansas Fayetteville, AR, ⁵ Department of Horticulture, Cornell University Ithaca, NY, 6 USDA, Corvallis, OR, 7 BC Berry Cultivars, Agassiz, British Colombia, Canada. (kesheeha@ncsu.edu)
- Alleviating dormancy: The effect of temperature, gibberellic acid, and cool-moist stratification on select carex species. Godwin Shokoya*, 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*, 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 Bobo¹, Shane Breeden¹, Savithri Nambeesan¹, Cain Hickey³ Hoffman², and Leonardo Lombardini¹. ¹ Department of Horticulture, University of Georgia, Athens, GA 30606, ² Department of Horticulture, North Carolina State University, Raleigh, NC 27607, ³ 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* 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^{1*}, James O. McClelan¹, Renee T. Threlfall¹, Amanda L. McWhirt², Aaron Cato², Luke R. Howard¹ and Cindi R. Brownmiller¹. ¹ 2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, ² 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*1, Travis Birdsell² and Jonathan Schultheis¹. ¹ Raleigh, NC, Department of Horticultural Science, NC State University, ² Jefferson, NC, Ashe County Center, North Carolina Cooperative Extension Service. (kkheagy@nscu.edu)
- 8. Evaluating effects of chemical pinching during early vegetative stages on 'Sunfinity' sunflower for potted plant production. Mason Marshall*1, Terri Starman¹, H. Brent Pemberton²

- and Calvin Trostle³. ¹ Department of Horticultural Sciences, Texas A&M University, College Station, TX, ² Texas A&M AgriLife Research, Texas A&M AgriLife Research and Extension Center, Overton, TX, ³ Texas A&M AgriLife Research and Extension, Lubbock, TX, USA. (masonmarshall@tamu.edu)
- 9. Evaluation of shipping potential marketability of North Carolina-grown muscadine grapes. J. Cody Rawls^{1*}, Renee T. Threlfall¹ and Margaret L. Worthington². ¹ 2650 Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, 2 316 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^{1*}, Jonathan Schultheis¹ and David Suchoff². ¹ Department of Horticultural Sciences, North Carolina State University, Raleigh, NC 27695, ² Department of Crop and Soil Sciences, North Carolina State University, Raleigh, NC 27695. (ajwooda2@ncsu.edu)
- 11. Flowering in 'Natchez' crepe myrtle (Lagerstroemia ×fauriei 'Natchez') in relation to crepe myrtle bark scale (Acanthococcus lagerstroemiae) and sooty mold (Capnodium sp.) incidence. Beatriz Ruiz *, 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* 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 Arkansasgrown hops with different fertility rates. James O. McClellan^{1*}, Renee T. Threlfall¹, Amanda L. McWhirt², Aaron Cato², Luke R. Howard¹ and Cindi R. Brownmiller¹. ¹ 2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, ² 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* and Daniel I. Leskovar. Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801. (d-leskovar@tamu.edu)
- 15. Higher nitrogen pre-plant rates are not associated with improved yield of June bearing strawberry in North Carolina.

 Amanda Lay-Walters^{1*}, Michelle Schroeder-Moreno², Alex Woodley² and Mark Hoffmann¹.

 ¹ Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, ² 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^{1*}, Anish Malladi¹ and Miguel Cabrera². ¹ 1111 Plant Sciences Building, Department of Horticulture, University of Georgia, Athens, GA 30601, ² 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^{1*}, Thayne Montague^{1,2}, Pierre Helwi² and Ed Hellman^{1, 1} Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409, ² Texas A&M AgriLife Research and Extension Center, Lubbock, TX 79403, ³ Department of Plant and Soil Science, Texas Tech University, Fredericksburg, TX 78624. (klauterb@ttu.edu)
- of 18. Investigation methyl bromide replacements: Controlling soil pests through steam in combination with alternative chemicals. Emma Volk^{1*}, Gene Fox¹, Joe Neal¹, Steven Fennimore² and Mark Hoffmann¹. ¹ Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, ² University of California Davis, Department of Science, CA 93905. Salinas, (evolk@ncsu.edu)
- 19. Mutation breeding of Salvia coccinea with ethyl methanesulfonate (EMS). Rebekah

- Maynard* 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^{1*}. Margaret Worthington¹, Christopher Clavet² and Tom Kon². ¹ 1316 Plant Science, Department of Horticulture, University of Arkansas. Fayetteville, AR 72701, ² North Carolina State University Department of Horticultural Sciences. Mountain Horticultural Crops Research and Extension Center, 455 Research Mills NC 28759. Drive. River. (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

- 3D phenotyping and quantitative analysis of peach tree architecture via terrestrial laser scanning. Jordan Knapp-Wilson^{1*}, Rafael Bohn Reckziegel², Alexander Bucksch³ and Dario J. Chavez⁴. ¹ Cowart Building Rm 214, Institute of Plant Breeding, Genetics, Genomics, University of Georgia, Griffin Campus, Griffin, GA 30223, ² Chair of Forest Growth and Dendroecology, University of Freiburg, Freiburg, Germany 79098, ³ Miller Plant Sciences Rm 2611, Department of Plant Biology, University of Georgia, Athens Campus, Athens, GA 30602, ⁴Physiology Building Rm 105, Department of Horticulture, University of Georgia, Griffin Campus, Griffin, GA 30223. (jrk88473@uga.edu)
- 2. Association mapping of fruit firmness and morphology in blackberry. Mason Chizk^{1*}, Margaret Worthington¹, Carmen Johns ¹, Lacy Nelson¹, John R. Clark¹, Rishi Aryal² and Hamid Ashrafi². ¹ 1316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ² 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^{1,2}*, Takshay Patel³, Edgar Correa^{1,2}, Todd C. Wehner³, Kevin M. Crosby¹, Michael J. Thomson⁴, Richard Metz⁵, Shichen Wang⁵, Marcel Brun⁵, Charles D. Johnson⁵ and Subas Malla^{1,2}. ¹ Department of Horticultural Sciences, Texas A&M University, College Station, Texas, 77843, USA, ² Texas A&M AgriLife Research and Extension Center, Uvalde, Texas, 78801, USA, ³ Department of Horticultural Science, North Carolina State University, Raleigh, North Carolina, 27695, USA, ⁴ Department of Soil and Crop Sciences, Texas A&M University, College Station, Texas, 77843, USA, ⁵ 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^{1*}, Patricia R. Knight¹, Jenny B. Ryals¹, Christine E.H. Coker¹, Scott A. Langlois¹, Shaun R. Broderick², Eugene K. Blythe³, Hamidou F. Sakhanokho⁴ and Ebrahiem M. Babiker⁴. ¹ Coastal Research and Extension Center, South Mississippi Branch Experiment Station, P.O. Box 193, Poplarville, MS 39470, ² Truck Crops Branch Experiment Station, 2024 Experiment Station Rd., Crystal Springs, MS 39059, ³ College of Agriculture, Auburn University, Auburn, AL 36849, 4 USDA-ARS Southern Horticultural Lab., 287, Poplarville, MS Box (ab1001@msstate.edu)
- 5. Evaluation of nitrogen rate and fertilizer source for the production of organic onion in Georgia. Hanna de Jesus*1, Kate Cassity-Duffey¹, Andre da Silva², Bhabesh Dutta³ and Timothy Coolong¹. ¹ 1111 Miller Plant Sciences, University of Georgia, Athens, GA 30602, ² 124 Funchess Hall, Auburn University, Auburn, AL 36849, ³ 2360 Rainwater Rd., University of Georgia, Tifton, GA 31793. (hannaij@uga.edu)
- 6. Effect of drying methods no hemp flower quality. Noelle Joy*1, Timothy Coolong1, and Daniel Jackson2. 1 1111 Miller Plant Sciences, University of Georgia, Athens, GA 30602, 2 2400 College Station Rd., Crop Quality Lab, University of Georgia, Athens, GA 30602. (noellejoy@uga.edu)
- Hydration of traditional and stratified substrates under varied moisture conditions. Kristopher S. Criscione* and Jeb S. Fields. Hammond Research Station, Louisiana State University Agricultural Center, 21549 Old Covington Hwy., Hammond, LA 70403. (kcrisc2@lsu.edu)
- 8. Impact of light intensity on bud fruitfulness of French-American hybrid 'Traminette' and American 'Concord' grapevines. Kyle Freedman*, Cristian Collado, Ricardo Hernández and Mark Hoffmann. Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695. (kafreedm@ncsu.edu)
- Influence of cadmium on growth and nutrient uptake in hydroponically-grown hemp. Amanda Olbrick Marabesi*1, Timothy Coolong¹ and Jason

- Lessl². ¹ 1111 Miller Plant Sciences, University of Georgia, Athens, GA 30602, ² 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^{1*}, Kathleen S. Amaral¹, Juyoung Kim², Shangci Wang², Koushik Adhikari², Renée M. Holland³, D. Scott NeSmith¹ and Rachel A. Itle¹. ¹ Department of Horticulture, University of Georgia, UGA–Cowart Building, 210 Cowart Street, Griffin, GA 30223, ² Department of Food Science & Technology, University of Georgia, UGA Melton Building, 350 Woodroof Drive, Griffin GA, 30223, ³ ANR Extension, University of Georgia Extension, 203 South Dixon Street, Suite 3, Alma, GA 31510. (jm30002@uga.edu)
- 11. Integration of quantitative trait loci (QTL) associated with gummy stem blight resistance from a crop wild relative into elite watermelons. Samikshya Rijal*, 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^{1*}, Bikash Adhikari¹, Ainong Shi² and T. Casey Barickman¹. ¹ Department of Plant and Soil Sciences, Mississippi State University, North Mississippi Research and Extension Center, Verona, MS, 38879, ² 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*1, George Vellidis², Wesley Porter², Vasileios Liakos², Jose H. Andreis³ and Dario J. Chavez¹.¹ Department of Horticulture, University of Georgia, Griffin Campus, Griffin, GA 30223, ² Department of Crop and Soil Sciences, University of Georgia, Tifton Campus, Tifton, GA 31793, ³ Austn LTDA ME, Marau, RS 99150-000, Brazil. (st45674@uga.edu)
- 14. Texture characteristics associated with fruit shelf-life in blueberry. Heeduk Oh^{1,2*}, Marti

- Pottorff¹, Lara Giongo³, Massimo Iorizzo^{1,2} and Penelope Perkins-Veazie^{1,2}. ¹ Plants for Human Health Institute, North Carolina State University, Kannapolis, NC, USA 28081, ² Department of Horticulture, North Carolina State University, Raleigh, NC, USA 27607, ³ Fondazione Edmund Mach, Research and Innovation Centre, San Michele a/A, Trento, Italy. (penelope_perkins@ncsu.edu, miorizz@ncsu.edu)
- 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^{1,2*}, Runshi Xie^{1,2}, Elizabeth Chun², Gary W. Knox³, Mengmeng Gu⁴ and Hongmin Qin². ¹ Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, ² Department of Biology, Texas A&M University, College Station, TX 77843, ³ Department of Environmental Horticulture, University of Florida/IFAS North Florida Research and Education Center, Quincy, FL 32351, ⁴ Department of Horticultural.

POSTERS

Room: Napoleon Foyer
Presiding: Andre DaSilva Chair

Presiding: Andre DaSilva, Chair Abstracts: To publish abstract in

To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to

Chair: 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 titlesG = Indicates graduate poster titles

Floriculture, Ornamentals and Turf

1G) Effect of Hormone Source on Propagation of Sweet Bay Magnolia. Jenny B. Ryals^{1*}, Patricia R. Knight¹, Anthony T. Bowden¹, Christine E. H. Coker², Gary R. Bachman², Jim DelPrince², Scott A. Langlois¹ and Patricia R. Drackett³. ¹Coastal Research and Extension Center, Mississippi State

- University, Poplarville, MS 39470, ²Coastal Research and Extension Center, Mississippi State University, Biloxi, MS 39532, ³The Crosby Arboretum, Mississippi State University, Picayune, MS 39466 (j.ryals@msstate.edu)
- 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)
- 3) Reducing Postemergence Herbicide Spot Treatments with Preemergence Herbicides in Landscape Planting Beds S. Chris Marble^{1*} and Stephen F. Enloe², ¹University of Florida/IFAS Mid-Florida Research and Education Center, 2725 S. Binion Rd., Apopka, FL 32703, ²University of Florida/IFAS Center for Aquatic and Invasive Plants, 7922 NW 71 St., Gainesville, FL 32653. (marblesc@ufl.edu)
- **4G**) Efficacy of plant growth regulator applications on 'Sunfinity' Sunflower Mason Marshall*¹, Terri Starman¹, H. Brent Pemberton², Calvin Trostle³, 1 Department of Horticultural Sciences, Texas A&M University, College Station, TX, 2 Texas A&M AgriLife Research, Texas A&M AgriLife Research and Extension Center, Overton, TX, ³ Texas A&M AgriLife Research and Extension, Lubbock, TX, USA (masonmarshall@tamu.edu)
- 5UG) Comparison of Slow-Release Fertilizer and Long-term Composting for Performance of Cool and Warm Season Annuals. Alvarez, Phoebe*¹, Steve George², and Derald A. Harp¹.

 ¹Texas A&M University-Commerce, Commerce, TX 75429;

 ²Texas A&M AgriLife Extension Service, Dallas, TX 75080 (Derald.Harp@leomail.tamuc.edu)
- 6) To Pinch or not to Pinch: Cut Flower Marigolds for Southern Growers. Christine E.H. Coker^{1*}, James DelPrince1, Kathryn Fontenot², Anthony Bowden¹, Scott Langlois¹, and Patricia Knight¹, 1815 Popps 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)
- **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)
- 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)
- 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)
- Bark Scale (Acanthococcus lagerstroemiae) and its Application in Evaluating the Effect of Different Plant Nutrient Conditions on Insect Performance. Runshi Xie^{1,3}, Bin Wu^{1,3}, Mengmeng Gu², and Hongmin Qin^{3*}, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, USA, Department of Horticultural Sciences, Texas A&M AgriLife Extension Service, College Station, TX 77843, 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 Pennisi¹*, Carol Robacker¹, and Nirmal Joshee², ¹Department of Horticulture, University of Georgia Griffin-Campus, Griffin, GA 30223, ²College 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-Lust¹, Gina Fernandez¹ and Cherie Oschenfeld².

 ¹Department of Horticultural Science, NCSU Raleigh NC, ²Pairwise, 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^{1*}, Margaret Worthington¹, and Patrick Conner², ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²Department of Horticulture, University of Georgia Tifton Campus, 2360 Rainwater Road, Tifton, GA,31793. (kb013@uark.edu)
- 16) Empirical evaluation of multi-trait DNA testing in an apple seedling population. Sushan Ru^{1*}, Craig Hardner², Katherine M. Evans³, Dorrie Main⁴, Patrick A. Carter⁵, Julia Harshman⁶, Paul Sandefur⁷, Daniel Edge-Garza² and Cameron Peace⁴, ¹Auburn University, Auburn, 36849, ²Queensland Alliance for Agriculture and Food Innovation, The University of Queensland, 4072, Australia, ³Department Brisbane, Horticulture, Washington State University Tree Fruit Research & Extension Center, Wenatchee, WA 98801, USA, ⁴Department of Horticulture, Washington State University, Pullman, WA, 99164 USA, ⁵School of Biological Sciences, Washington State University. Pullman. WA. USA, ⁶Duda Farm Fresh Foods, Salinas, CA 92908, USA, ⁷FallCreek Farm and Nursery, Inc., Lowell, OR 97452, USA (szr0099@auburn.edu)
- 17G) Comparing Sugar Profiles in Southern Highbush, Rabbiteye, and Northern Highbush Blueberry Cultivars. Jamal Mohammed^{1,*}, Kathleen S. Amaral¹, Renée M. Holland², Dario J. Chavez¹, and Rachel A. Itle¹. ¹Department of Horticulture, University of Georgia, UGA—Cowart Building, 210 Cowart Street, Griffin, GA 30223, ²ANR 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 Bigio¹, Rachel A. Itle¹, Sudhagard Mani², and Dario J. Chavez¹. ¹Department of Horticulture, University of Georgia, Griffin Campus, GA 30224. ²College of Engineering, University of Georgia, Athens, GA 30609 (dchavez@uga.edu)
- 19G) Determining Marketability Impacts of Freshmarket Blackberries to Develop a Soft-robotic Gripper for Harvesting. Andrea L. Myers^{1*}, Renee T. Threlfall1, Yue Chen², and Anthony L. Gunderman², ¹2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704. ²313 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 Johns¹*, Margaret Worthington¹, Mason Chizk¹, Lacy Nelson¹, John R. Clark¹, Rishi Aryal², and Hamid Ashrafi². ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²North Carolina State University Department of Horticultural Sciences, 234 Kilgore Hall Campus Box 7609, Raleigh, NC 27695. (cxj025@uark.edu)
- 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)
- 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)
- 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)
- 24) Performance of Selected Blackberry Cultivars in Alabama. James D. Spiers*1 and Edgar Vinson², 1111 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, 2 Chilton Research and Extension Center, Clanton, AL 35045. (jds0017@auburn.edu)
- 25G) Expanding Color and Quality Standards for Fresh-market Muscadine Grapes, J. Cody Rawls^{1*}, Renee T. Threlfall1, Penelope Perkins-Veazie², and Margaret L. Worthington³. ¹2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, ²Plants for Human Health Institute, Department of Horticulture, 600 Laureate Way, Kannapolis, NC 28081. ³316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (rthrelf@uark.edu)
- **26)** Rhizosphere microbiome of grapefruit grown in Florida flatwood soils. John M. Santiago¹, Davie M. Kadyampakeni², and Lorenzo Rossi^{1,*}.

 ¹Horticultural Sciences Department, University of Florida, IFAS, Indian River Research and

- Education Center, Fort Pierce, FL; ²Soil and Water Sciences Department, University of Florida, IFAS, Citrus Research and Education Center, Lake Alfred, FL. (l.rossi@ufl.edu)
- 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-Perry1*, Kyle Freedman2 and Mark Hoffmann². ¹ North Carolina Agriculture and Technical State University, Department of and Environmental Agriculture Systems, 27441, ² Department of Greensboro NC Horticultural Sciences, NC State University, NC 27695. (knmckenzieperry@aggies.ncat.edu).
- 28) Seedless Muscadine Fruit Chemistry Changes with Low Temperature Storage. Penelope Perkins-Veazie*¹, Mark Hoffman², and Guoying Ma¹. ¹North Carolina State University, Plants for Human Health Institute, Department of Horticultural Science, 600 Laureate Way, Kannapolis, NC 28081; ²North Carolina State University, Department of Horticultural Science, Raleigh, NC 27695 (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. Muras¹*, Justin J. Scheiner¹, and Michael Cook², Department of Horticultural Sciences, ¹ Texas A&M University, HSFB, 2134 TAMU, College Station, TX 77843, ²Texas A&M AgriLife Extension Service, 401 W. Hickory St. Denton, TX 76201 (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)
- 31G) Nutritional Status of Young Peach Plants on Guardian and MP-29 Rootstocks Under Different Irrigation Scheduling Practices. Srijana Thapa Magar*1, George Vellidis², Wesley Porter², Vasileios Liakos², Jose H. Andreis³, and Dario J. Chavez¹,¹Department of Horticulture, University of Georgia, Griffin Campus, Griffin, GA 30223, ²Department of Crop and Soil Sciences, University of Georgia, Tifton Campus, Tifton, GA 31793, ³Austn LTDA ME, Marau, RS 99150-000, Brazil. (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)
- 33G) Lab screening of nanocellulose as a freeze protection strategy in southern highbush Elliott¹*, blueberry. Hannah M. Mohammed¹, Dario J. Chavez¹, Sudhagar Mani², Renée M. Holland³, and Rachel A. Itle¹, ¹Department of Horticulture, University of Georgia, UGA- Cowart Building, 210 Cowart ²College of Street, Griffin, GA 30223, of Georgia, Engineering, University Riverbend Road, Athens, GA 30602, ³ANR Extension, University of Georgia, 203 S. Dixon Street, Alma, GA 31510. (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*¹, Brian T. Lawrence¹, Juan Carlos Melgar¹, and Guido Schnabel¹. ¹ 105 Collings Street, 218 Biosystems Research Complex, Plant and Environmental Sciences Department, Clemson University, Clemson, SC 29634. (slykins@g.clemson.edu)
- 35G) Rapid Digital Phenotyping of Red Drupelet Reversion and Fruit Morphology in Blackberry. G Mason Chizk*, Margaret Worthington, John R. Clark. 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (tmchizk@uark.edu)
- **36UG)** Impacts of Novel Training Methods for the Rotating Cross Arm Trellis on Blackberry Yield and Labor Inputs. Mataya Duncan ^{1*}, Sarah Cato ², Lizzy Herrera ², Aaron Cato ², and Amanda McWhirt ², ¹ Department of Biology, University of Arkansas at Little Rock, 2801 S. University Ave., Little Rock, AR 72204, ² Department of Horticulture, University of Arkansas Cooperative Extension Service, 2301 S. University Ave., Little Rock, AR 72204. (msduncan@ualr.edu)
- 37G) Survey of Wine Purchasing and Consumption Habits of Consumers of Commercial Arkansas Wines. Amanda J. Fleming* and Renee T. Threlfall, 12650 N. Young Avenue, Department of Food Science, University of Arkansas, Fayetteville, AR 72704. (ajflemin@uark.edu)
- 38) Postharvest Evaluation of Gold Kiwifruit Cultivars Grown in Central Alabama. James D. Spiers*, 111 Funchess Hall, Department of Horticulture, Auburn University, AL 36849. (jds0017@auburn.edu)
- 39G) Fine Mapping of QFD2.2, a Major QTL for

Fruit Diameter in Watermelon (Citrullus lanatus). Samuel Manthi* and Cecilia McGregor, Department of Horticulture, University of Georgia, 1111 Plant Sciences Building, Athens, GA 30602, USA. (samuel.josiah@uga.edu)

Vegetable Crops

- **40)** Evaluation of Radish Varieties in the Virgin Islands. Daryl A. Richards, Jr.*, Jessica Ewer, and Thomas W. Zimmerman, Agricultural Experiment Station, University of the Virgin Islands, 10,000 Castle Burke, Kingshill, VI 00850. (daryl.richars@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*, 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)
- **42) V** Evaluation of Specialty Pumpkin Varieties in Arkansas. Drew E. Kirkpatrick^{1*}, Matthew B. Bertucci¹, Jeremie Kouame², Kayla Knepp¹, Rachel C. Woody-Pumford¹, Jonathan M. McArthur¹, and Conner O. Cravens¹, ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²115 Plant Science, Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR 72701. (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)
- 44G) Photosynthetic Efficiency, Chlorophyll Fluorescence, and CO₂ Responses of Net Assimilation are Impacted by Seed Priming and Salt Stress in Lettuce (*Lactuca sativa L.*). Bikash Adhikari*, 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)
- **45)** Influence of potting and soil type on quality and yield of muskmelons in the U.S. Virgin Islands. Jessica Ewer^{1*}, Thomas W. Zimmerman¹, and Henry O. Awika^{1,2}. ¹School of Agriculture, Agricultural Experiment Station, University of the

- Virgin Islands, 10,000, Kingshill, VI 00850. ²School of Agriculture, Cooperative Extension Service, University of the Virgin Islands, 10,000, Kingshill, VI 00850. (Jessica.ewer@uvi.edu)
- 46G) Impacts of Carbamazepine Rates on Lettuce (*Lactuca sativa* var. capitata) Growth in Hydroponics Systems. Emily Stamm*¹, Clinton Williams², Cade Coldren¹, Catherine Simpson¹, 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)
- 47UG) The Effects of Salinity on Broccoli (Brassica oleracae) 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)
- 48G) Effects of Se on growth and physiochemical properties in hydroponically produced Indian juncea cv. Mustard (Brassica Red Cognasi*1, Giant): Savannah. Matthew Siebecker¹, Clinton Williams², and Catherine Simpson¹ Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409, ²US Arid-Land Agricultural Research Center. Maricopa, AZ 85138. (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)
- 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)
- 51) Organoleptic Attributes of Best Adapted Strawberry Cultivars for Alabama. Edgar Vinson*1., P. Perkins-Veazie², Elina Coneva¹, and M. Price³. ¹Department of Horticulture, Auburn University, 101 Funchess Hall, Auburn, AL 36849. ²600 N.C. State University, Laureate Way, Kannapolis, NC 28081. ³Chilton Research and Extension Center, 120 County Road 756, Clanton, AL 35045, (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)
- 53G) Hydrogen Peroxide (H₂O₂) 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)
- 54) Plant Growth and Yield and Incidence of Tomato Yellow Leaf Curl Virus in Tomato Cultivars. Diaz-Perez, Juan C.¹, Calob Guerra¹, and Sudeep Bag², ¹Department of Horticulture and ²Department of Plant Pathology, University of Georgia, Tifton Campus, Tifton, GA 31793 (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)
- 56) Spring Fresh Market Brussel Sprouts Variety Trial in Oklahoma. Bizhen Hu2, Izzy Gonzales1*, Lynn Brandenberger2, and Matthew Beartrack2, 1Department of Environmental Science, Oklahoma State University, Stillwater, OK 74078, 2Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (bizhen.hu@okstate.edu)
- 57UG) Seedless Watermelon Variety Trial Grown in Arkansas. Rachel C. Woody-Pumford^{1*}, Matthew B. Bertucci¹, Drew Kirkpatrick¹, Darrin G. Henderson², and Kayla Knepp¹, ¹Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²University of Arkansas Division of Agriculture Research & Extension, Huntsville, AR 72740. (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)

Cross-Commodity

- 59) A Survey on Growers' Awareness Related to On-Farm Food Safety and Conservation Practices in the Southeastern United States. Camila Rodrigues*1, Kristin Woods2, Laurel Dunn3. Department of Horticulture, Auburn University, Auburn, AL 36849 (crodrigues@auburn.edu), Alabama Cooperative Extension System, Auburn University, Auburn, AL 36049, Department of Food Science & Technology, University of Georgia, Athens, GA 30602.
- 60G) Plant Selection for Floating Treatment Wetlands in Brackish Waters. Andrea C. Landaverde^{1*}, Sarah A. White², and William H.J. Strosnider³, ¹Department of Biological Sciences, Clemson University, Clemson, SC 29631, ²Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29631, ³Baruch Marine Field Laboratory, University of South Carolina, Georgetown, SC 29440. (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)
- **62)** Influence of soil temperature on plant available nitrogen from organic fertilizers. Hanna de Jesus*1 Kate Cassity-Duffey1, Miguel Cabrera2, Andre da Silva3, Bhabesh Dutta4, and Timothy Coolong1, 11111 Miller Plant Sciences, University of Georgia, Athens, GA 30602, 24119 Plant Sciences Bldg., University of Georgia, Athens, GA 30602, 3124 Funchess Hall, Auburn University, Auburn, AL 36849, 42360 Rainwater Rd., University of Georgia, Tifton, GA 31793. (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^{1*}, Paul Bartley¹, Dexter Watts², Allen Torbert², ¹101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849. ²USDA-ARS National Soil Dynamics

Laboratory, Auburn, AL 36832. (pcb0004@auburn.edu)

- 65) Pollinating the Field to Achieve the Yield; Program for Native Habitat On-Farm Assistance. Olivia Fuller *1 ,Camila Rodrigues 2 , Kristin Woods 1 , Ayanava Mujumdar 1 . 1 Alabama Cooperative Extension System, Auburn University, Auburn, AL 36049, 2 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^{1*}, Benjamin G. Wherley², David W. Reed¹, ¹Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133, ²Soil and Crop Sciences Texas A&M University, College Station, TX 77843-2133. (abirnbaum@tamu.edu)

Extension

67) Making a Difference: K-State Garden Hour Webinar Series Improves Lives. Cheryl R. Boyer^{1*}, Matthew McKernan², and Russell P. Boyer³. ¹1712 Claflin Rd., Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS 66506, ²7001 W. 21st St. N., K-State Research and Extension Sedgwick County, Wichita, KS 67205, ³1301 Lovers Lane, Department of Management, Kansas State University, Manhattan, KS 66506. (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

8:00 Putting the Meta in Metasequoia: Horticulture for a Virtual Environment.
Lucy K. Bradley¹*, Laura Barth¹, Christine Bradish¹, Susan Caldwell², Lauren Campbell², Matthew Ross², and Matthew Thomas², ¹NC State University Department of Horticultural Science, Box 7609, Raleigh, NC 27695, ²Longwood Gardens

Department of Continuing Education, 1001 Longwood Rd., Kennett Square, PA 19348 (Lucy_Bradley@ncsu.edu)

8:15 What does trace data tell us about student' self-regulated learning ability? Dan Ye¹, Bodie Pennisi^{2*}, and Lloyd Rieber³, ¹Michigan Tech University, William G. Jackson Center for Teaching and Learning, Houghton, MI, 49931, ²Department of Horticulture, University of Georgia Griffin-Campus, Griffin, GA 30223, ³College 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 Haskett¹ Christine Bradish²*, Alta Zhang³, Emilee Weaver⁴, Joanna Massey Lelekacs¹, and Lucy Bradley², ¹North Carolina Botanical Garden, University of North Carolina at Chapel Hill, ²Department of Horticultural Science, North Carolina State University, ³Extension Information Technology, North Carolina State University, ⁴NC Central State Psychiatric Hospital. Regional (cmbradis@ncsu.edu)

8:45 Establishing the Arkansas Quality Wine Program. Renee T. Threlfall^{1*}, Amanda J. Fleming¹, and Amanda L. McWhirt², ¹2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, ²2301 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. Lamm¹, Kristin E. Gibson^{1*}, Kevan. W. Lamm¹, Jeb S. Fields², and James Owen³, ¹132 Four Towers, Department of Agricultural Leadership, Education and Communication, University of

- Georgia, Athens, GA 30602, ²21549 Old Covington Highway, Hammond Research Station, Louisiana State University, Hammond, LA 70403, ³1680 Madison Ave., Agricultural Engineering Building, USDA ARS, Wooster, OH 44691. (alamm@uga.edu)
- 9:15 Informed **Decision-making** or Guesswork? Examining How Residents Adjust Their Irrigation Based on Local **Rainfall.** Colby Silvert^{1*}, Cody Gusto¹, John Diaz¹, Laura Warner¹, and Robin Grantham², ¹Department of Agricultural Education & Communication, University of Florida, 305 Rolfs Hall, PO Box 110540, Gainesville, FL 32611-0690. ²Southwest 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 ^{1*}, Amanda McWhirt¹, Renee Threlfall², Aaron Cato¹, Sarah Cato¹, and James McClellan³, ¹2301 S. University Ave, Department of Horticulture, University of Arkansas System Division of Agriculture, Little Rock, AR 72204, ²2435 N. Hatch Ave., Department of Food Science, University of Arkansas System Division of Agriculture, Fayetteville, AR 72704, ³1749 State Hwy 818, Arkansas Agricultural Experiment Station Fruit Research Station, Clarksville, AR 72830. (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. Lamm¹*, Kevan. W. Lamm¹, Kristin E. Gibson¹, Jeb S. Fields², and James Owen³, Four Towers, Department Agricultural Leadership, Education and Communication, University of Georgia, Athens, GA 30602, ²21549 Old Covington Highway, Hammond Research Station, Louisiana State University, Hammond, LA 70403, 31680 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)
- 10:45 Assessing the Effectiveness of Webinars for Training Growers & Cooperative Extension Agents in Small Fruit Production. Sarah Cato¹, Amanda McWhirt 1*, Lizzy Herrera¹, Aaron Cato¹ and Mary ¹2301 Poling², S. University Ave., Department of Horticulture, University of Arkansas System Divisions of Agriculture, Cooperative Extension Service, Little Rock, AR 72204, ²2301 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 Gusto¹*, Colby Silvert¹,
 John Diaz¹, Laura A. Warner¹, and Rachel
 Mallinger², ¹Department of Agricultural
 Education & Communication, 411 Rolfs
 Hall, 341 Buckman Dr., University of
 Florida, Gainesville, FL 32611-0690,
 ²Entomology and Nematology Department,
 University of Florida, Steinmetz Hall, 1881
 Natural Area Dr., Gainesville, FL 326110690. (cgusto@ufl.edu)
- 11:30 Industry Certification Post-Pandemic.

 Bodie Pennisi¹* and Greg Huber²,

 ¹Department of Horticulture, University of
 Georgia Griffin-Campus, Griffin, GA 30223,

 ²Center 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.** Avanava Majumdar¹*. Ann Chambliss¹, Harli Willis¹, Edward Sikora¹, Katelyn Kesheimer¹, Jeremy Pickens², Edgar Vinson³, Elina Coneva⁴, Joe Kemble⁴, Andre da Silva⁴, David Han⁵, Rishi Prasad⁵, Audrey Gamble⁵, Steve Li⁵, Adam Rabinowitz⁶, Jim Jacobi⁷, Kassie Conner⁸, Sonja Thomas⁹, and Matt Ulmer¹⁰, ¹Department of Entomology and Plant Pathology, Auburn University, 36849. ²Ornamental Auburn. AL. Horticulture Research Center, PO Box 8276, Mobile, AL 36689, ³Chilton Regional Research and Extension Center, 120 County Road 756, Clanton, AL 35045, ⁴Department of Horticulture, Auburn University, Auburn, AL 36849, 5Department of Crop, Soil, and Environmental Sciences, Auburn University, Auburn, AL 36849, ⁶Department of **Economics** Agricultural and Sociology, Auburn University, Auburn, AL 36849, ⁷C. Beaty Hanna Horticulture and Environmental Center, 2612 Lane Park Road Birmingham, AL 35223, 8Plant Diagnostic Center, 143 ALFA Building, Auburn University, Auburn, AL 36849, 9245 E Duncan Hall, Auburn University, Auburn, AL 36849, 10105 Duncan Hall, Auburn University, Auburn, AL36849. (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^{1*}, Paul Pugliese², Joel Burnsed³, Timothy Daly⁴, Cynthia McCrary⁵, and Kathy Hensley⁶, ¹1109 Experiment Street, Department of Horticulture, University of Georgia, Griffin, GA 30223, ²University of Georgia Extension, Bartow County, 320 West Cherokee Avenue Room 112 Cartersville, GA 30120-3059, ³University of Georgia Extension, Walton County, 100 North Broad St. Monroe, GA 30655, ⁴University of Georgia Extension, Gwinnett County, 750 South Perry Street, Suite 400 Lawrenceville, GA 30046-4804, ⁵University of Georgia Extension, Fayette County, 140 Stonewall Avenue W Suite 209 Fayetteville, GA 30214-1520, ⁶University 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^{1*}, Christine E.H. Coker¹ and Patricia R. Knight², ¹Coastal Research and Extension Center, Mississippi State University, 1815 Popps Ferry Road, Biloxi, MS 38532, ²Coastal Horticulture Research, South Mississippi Branch Station, Poplarville, MS (gary.bachman@msstate.edu)
- 1:30 Extension Gardener Plant Toolbox: Reaching Wider Audiences through National Partnerships. Lucy K. Bradley¹*, Kathleen A. Moore¹, Matthew P. Ross², Andy Pulte³, Grant L. Thompson⁴, Ryan Contreras⁵, Laura Barth¹, and Lis Meyer¹, ¹Department of Horticulture, North Carolina State University, 2721 Founders Raleigh, NC 27695, ²Longwood Gardens 1001 Longwood Rd., Kennett Square, PA 19348, ³Department of Plant Science, University of Tennessee Institute of Agriculture, 2505 E J Chapman Dr., Knoxville, TN 37996, 4 Department of Horticulture, Iowa State University, 137 Horticulture Hall. Ames. 50011, ⁵ 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-Ballard¹*, Natalie R. Bumgarner², Ellen M. Bauske³, Pam J. Bennett⁴, David D. Close⁵, Sheri Dorn³, Richard E. Durham⁶, Carl I. Evensen⁷, Terri James⁸, Jeff S. Keuhny¹, Bodie Pennisi³, Robert F. Polomski9, Kerry Smith10, and Katie Walberg², ¹School of Plant, Environmental, and Soil Sciences, Louisiana University, Baton Rouge, LA 70803, ²Plant Sciences Department. University Tennessee, Knoxville, TN 37996. ³Department of Horticulture, University of Georgia, Griffin, GA 30223, ⁴The Ohio State University, Springfield, OH 45505, 5School of Plant & Environmental Sciences, Virginia Tech University, Blacksburg, VA 24061, ⁶Department of Horticulture, University of Kentucky, Lexington, KY 40546, ⁷Department of Natural Resources and

Environmental Management, University of Hawai'i at Manoa, Honolulu, HI 96822, ⁸Department of Agronomy & Horticulture, University of Nebraska-Lincoln, Lincoln, NE 68583, ⁹Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29634, ¹⁰Alabama Cooperative Extension System, Auburn University, Auburn University, AL 36849. (hkirkballard@agcenter.lsu.edu)

- 2:00 County Fair Grounds as Food Innovation Hubs in Arkansas Despite the Pandemic. Amanda Philyaw Perez^{1*}, Renee Threlfall², Ruben Morawicki², Angela Gardner¹, and Mallory Eggleton¹, ¹2301 S. University Ave, Department of Horticulture, University of Arkansas Cooperative Extension Service, Little Rock, AR 72204, 22650 Young Ave., ²Department 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^{1*} and Michael Gavazzi²,

 ¹Department of Environmental Horticulture,
 University of Florida, IFAS, Gainesville, FL
 32611, ² 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^{1*}, Hikaru H. Peterson², and Cheryl R. Boyer³, ¹1408 Sabal Palm Drive, Level 2, Department of Agricultural Education and Communication, University of Florida, Gainesville, FL 32611, ²1994 Buford Ave., Department of Applied Economics, University of Minnesota, St. Paul, MN 55108, ³1712 Claflin Rd., Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS 66506. (lauri.m.baker@ufl.edu).
- 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^{1*} and Matthew McKernan², ¹1712 Claflin Rd., Department of Horticulture and Natural Resources, Kansas State University, Manhattan, KS 66506, ²7001 W. 21st 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^{1*}, T. Casey Barickman¹, and Scott Cagle ², ¹Mississippi State University, North Mississippi Research & Extension Center, Verona, MS 38879, ²Mississippi 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)
- 8:15 Wine Production of 'Indulgence' and 'Dazzle' Wine Grapes for the Mid-South.

 Renee T. Threlfall^{1*}, John R. Clark², and Margaret L. Worthington², ¹2650 N. Young Avenue, Food Science Department, University of Arkansas, Fayetteville, AR 72704, ²316 Plant Science, Horticulture Department, University of Arkansas, Fayetteville, AR 72701. (rthrelf@uark.edu)
- 8:30 Planting Date Influence on Strawberry Variety Yield and Revenues in Texas. Russell W. Wallace^{1*}, Peter A. Ampim², D. Thayne Montague³, Dale Rankin⁴, and Larry ¹Department of Horticultural Sciences, Texas A&M AgriLife Extension, 1102 E. Drew St., Lubbock, 79403, ²Cooperative Agriculture Research Center, MS 2008, CARC Building, Prairie View A&M University, Prairie View, 77446, ³Departent of Plant & Soil Sciences, Texas Tech University and Texas A&M AgriLife Research, Lubbock, 79409, ⁴Texas A&M AgriLife Extension, Atascosa County, 25 E. 5th St., Leming, and 5Department of Horticultural Sciences, Texas A&M AgriLife Extension, 1619 Garner Field Rd., Uvalde. (rwwallace@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.

 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 Knepp¹*, Matthew B. Bertucci¹, Amanda L. Mcwhirt², Nilda R. Burgos³, Aaron J. Cato², Drew E. Kirkpatrick¹, and Rachel C. Woody-Pumford¹, ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²2301 S. University, Department of Horticulture, University of Arkansas Cooperative Extension Service, Little Rock, AR 72204, ³1354 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 × ananassa) Cultivars Grown in Texas. D. Thayne Montague^{1,2}*, Russell W. Wallace², Peter A. Ampim³, Dale Rankin⁴, and Larry Stein⁵, ¹Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409, ²Texas A&M AgriLife Research and Extension Center, Lubbock, TX 79403, ³Cooperative Agriculture Research Center, Prairie View A&M University, Prairie View, TX 77446, ⁴Texas A&M AgriLife Extension, Atascosa County, Leming, TX 78050, ⁵Department 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)
- 11:00Evaluation of Size-Controlling, Pest Resistant Peach Rootstocks for Alabama Elina Coneva, Department of Horticulture, Auburn University, Auburn, AL, 36849. (edc0001@auburn.edu)

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 Silva¹*, Olivia Fuller², Ayanava Majundar³, Edward Sikora³, and Alvin Simmons⁴, ¹Department of Horticulture, Auburn University, Auburn, AL 36849, ²Tuscaloosa Co. Extension Office. Tuscaloosa. 35401, ³Department AL Entomology and Plant Pathology, Auburn, AL 36849. ⁴USDA - 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^{1*}, Michael Phillips¹, Joe Kemble¹, and Alex Harkess², ¹Department of Horticulture, Auburn University, Auburn, AL 36849, ²Department 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 Luckew¹, Geoffrey Meru², Emily Wang², Rodrick Mwatuwa²,

- Mathews Paret³, Renato Carvalho³, Melanie Kalischuk^{3,7}, Andre Luiz Biscaia Ribeiro da Silva^{1,6}, Joara Candian¹, Bhabesh Dutta⁴, Babu Srinivasan⁵, Saritha Raman Kavalappara⁵, RRD Naga Charan Konakalla⁴, Sudeep Bag⁴. and Cecilia McGregor¹*, ¹Department of Horticulture, University of Georgia, Athens, ²Horticultural GA 30602, Sciences Department, University Florida. of Homestead, FL 33031, ³Department of Plant Pathology, University of Florida, Quincy, FL 32351, ⁴Department of Plant Pathology, University of Georgia, Tifton, GA 31793, ⁵Department of Entomology, University of Georgia, Griffin, GA 30223, 6Department of Horticulture, Auburn University, Auburn AL 36849, ⁷Department of Plant Agriculture, University of Guelph, Guelph, Ontario, Canada N1G 2W1. (cmcgre1@uga.edu)
- 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-Duffey¹, Nicholas Basinger², Bhabesh Dutta³, and Timothy Coolong¹*, ¹Department of Horticulture, University of Georgia, Athens, GA 30602, ²Crop and Soil Sciences Department, University of Georgia, Athens, GA 30602, ³Department 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^{1*}, Bikash Adhikari¹, Ainong Shi², and T. Casey Barickman¹, ¹Department of Plant and Soil Sciences, Mississippi State University, North Mississippi Research and Extension Center, Verona, MS, 38879, ²Department 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^{1*}, Daniel Leskovar², and John Jifon³, ¹Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, ²Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801, ³Texas A&M AgriLife Research and Extension Center, Weslaco, TX 78596. (k-crosby@tamu.edu)

Sunday, February 12, 2022

ACB BUSINESS MEETING

Room Borgne 7:00 – 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^{1,5}*, Carlos A. Avila^{1,2}, Amir M.H. Ibrahim^{3,5}, Kevin M. Crosby^{1,5}, Jashbir Singh^{1,5}, Bhimanagouda S. Patil^{1,4,5}, and Herika P. Pessoa^{1,6}, ¹Vegetable & Fruit Improvement Center, Texas A&M University, College Station, TX 77845, ²Texas A&M AgriLife Research and Extension Center, Weslaco, TX 78596, 3Department of Soil and Crop Science, Texas A&M University, College Station, TX 77845, ⁴Department of Food Sc12ience and Technology, Texas A&M University, College Station, Texas 77843, 5USDA National Center of Excellence for Melon at the Vegetable and Fruit Improvement Center of Texas A&M University, College Station, TX 77845, ⁶Universidade Federal de Viçosa-UFV. Minas Gerais, Brasil. Casa Diogo Alves de Melo Rolfs, Avenida P.H S/N. Campus Universitário. (sixto@tamu.edu)
- 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*, 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 Attractand-Kill Integrated Pest Management Strategy to Reduce Squash Bugs. Ayanava Majumdar^{1*} and Matthew Price², ¹Department of Entomology and Plant Pathology, Auburn University, Auburn, AL 36849, ²Chilton 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^{1*}. Gary Vallad^{2,3}, Tong Geon Lee^{1,3,4}, and Samuel Hutton^{1,4}, ¹Horticultural Sciences Department. University of Florida. Gainesville, FL 32611, ²Plant Pathology Department. University of Florida. Gainesville, FL 32611, ³Gulf Coast Research and Education Center, University of Florida, Wimauma, FL 33598, ⁴Plant 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, TX78801. leskovar@tamu.edu)

FLORICULTURE, ORNAMENALS 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^{1*}, 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^{1*}, Paul Daiber¹, Steven Anderson², Brian Pearson², Gerrit Hoogenboom^{1,3}, ¹Department of Agricultural and Biological Engineering, IFAS, University of Florida, Gainesville, FL 32611, ²Department of Environmental Horticulture, Mid-Florida Research and Education Center, IFAS, University of Florida, Apopka, FL 32703, ³Institute 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^{1*}, Terri Starman¹, H. Brent Pemberton², Calvin Trostle³, ¹Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, ²Texas A&M AgriLife Research and Extension Center, Overton, TX 75684, ³Texas 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)
- 9:00 Piedmont Ecoregion Irrigation Reservoir
 Water Quality Dynamics Under
 Stormwater Irrigation Return Flow. Sarah
 A. White^{1*}, Morgan Tomlin¹, Mohammad
 Nayeb Yazdi², and James S. Owen Jr.³,

 ¹Department of Plant and Environmental
 Sciences, Clemson University, Clemson, SC,
 29634, ²School of Environment and Natural
 Resources, Ohio State University, Wooster,
 OH, 44691, ³USDA-ARS Application

- Technology Research Unit, Wooster, OH, 44691. (swhite4@clemson.edu)
- 9:15 Build Tools for Crapemyrtle Bark Scale (CMBS) Pest Management. Bin Wu^{1,3}, Runshi Xie^{1,3}, Mengmeng Gu^{1,2}, and Hongmin Qin^{3*}, ¹Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, ²Texas A&M AgriLife Extension Service, College Station, TX 77843, ³Department 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^{1*}, Sarah A. White², and William H.J. Strosnider³, ¹Department of Biological Sciences, Clemson University, Clemson, SC ²Department of Plant Environmental Sciences. Clemson University, Clemson, SC 29631, ³Baruch Marine Field Laboratory, University of South Carolina. Georgetown, SC 29440. (alandav@clemson.edu)
- 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. (pickejm@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^{1*} and David Creech² ¹Department of Horticultural Sciences, Texas A&M University, College Station, Texas 77843, ²SFA Gardens, Stephen F. Austin State University, Nacogdoches, TX 75962 ²Department 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 Hartmann¹*. David Creech². and ³James Spiers ¹Department of Horticultural Sciences, Texas A&M University, College Station, Texas 77843, ²SFA Gardens, Stephen F. Austin State University, Nacogdoches, TX ³Department of Horticulture, Auburn University, Auburn, AL 36849. 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. 8:45
 (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)

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 McGee¹, Bruce Schaffer², Gerardo Nunez³, Jose X. Chaparro¹, Ali Sarkhosh^{1*}, ¹Horticultural Sciences Department, University of Florida, Gainesville, FL 32611, ²Tropical 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^{1*}, Lorenzo Rossi², and Ali ¹Horticultural Sarkhosh¹, Sciences Department, University of Florida. ²Horticultural Gainesville, FL 32611, 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 Nambeesan, 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

- 8:00 Understanding the diversity of fruit plastids. Ryan Christian¹, Eric H Roalson², and Amit Dhingra^{1,3*}. ¹Department of Horticulture, Washington State University, Pullman, WA, ²School of Biological Sciences, Washington State University, Pullman, WA, ³Department of Horticultural Sciences, Texas A&M University, College Station, TX, amit.dhingra@ag.tamu.edu
- 8:15 Beyond Ethylene AOX-mediated Fruit Ripening. Seanna Hewitt¹, Evan Stowe¹, and Amit Dhingra^{1,2*}. ¹Department of Horticulture, Washington State University, Pullman, WA 99164, ²Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, 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. Nambeesan, 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*¹. Niels Maness², John Nickel², and Katie Stenmark², ¹Department of Nutritional Sciences, ²Department 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 Kevin M. Crosby, Pillai, 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, TX77845. **USA** (Bhimanagouda.Patil@ag.tamu.edu)
- 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^{1*}, David H. Picha², and Qinglin Wu¹, ¹School of Renewable Natural Resources and ²School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, 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^{1*}, Yi-Wen Wang¹, Shan Jing¹, Ann Loraine², D. Scott NeSmith³. ¹Department of Horticulture, University of Georgia, Athens, GA 30606, ²Department of Horticulture, University of Georgia, Griffin, GA 30223 and ³College 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

SAAS Social/Super Bowl Party

Place: Grand Ballroom, Sheraton Time: 5:00 PM – until

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*1, Anthony Keinath2, and Lina Quesada-Ocampo³. ¹Department Horticultural Science, North Carolina State University, Raleigh, NC 27695, ²Plant and Environmental Sciences Department. Clemson University, Coastal Research and Education Center, Charleston, SC 29414, ³Department 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)
- 2:15 pm. Dissection of Race 1 Anthracnose Resistance in a Watermelon (Citrullus lanatus var. lanatus) Biparental Mapping **Population**. Bed Prakash Bhatta^{1,2}*, Takshay Patel³, Edgar Correa^{1,2}, Todd C. Wehner³, Kevin M. Crosby¹, Michael J. Thomson⁴, Richard Metz⁵, Shichen Wang⁵, Marcel Brun⁵, Charles D. Johnson⁵, and Subas Malla^{1,2}, ¹Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, ²Texas A&M AgriLife Research and Extension Center, Uvalde, TX 78801, ³Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, ⁴Department of Soil and Crop Sciences, Texas A&M University, College Station, TX 77843. ⁵Genomics 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 Adams¹, Samuel Josiah², Reeve Legendre³, and Cecilia McGregor^{1,2*}, ¹Institute of Plant Breeding, Genetics & Genomics, University of Georgia, Athens, GA 30602, ²Department of Horticulture, University of Georgia, Athens, GA 30602, ³Plant, 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^{1*}, Kristen E. Gibson², Christopher A. Baker², Drew E. Kirkpatrick¹, Rachel C. Woody-Pumford¹, and Kayla Knepp¹, ¹Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²Food 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

- 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*1, Bode Olukolu², Arthur Villordon³, and Jonathan Lynch¹ ¹Department of Plant Science, Penn State University, University Park, PA 16802, ²Department of Entomology and Plant Pathology, Institute of Agriculture, University of Tennessee, Knoxville, TN 37996, ³LSU 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*¹, Jonathan R. Schulthesis², ¹NC Cooperative Extension- Johnston County, 2736 NC 210 Hwy. Smithfield, NC 27577, ²Department 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. Mussoline¹, R. Hochmuth², C. Christensen³, S. Guzman⁴, and Z. Grabau⁵ ¹UF/IFAS Agriculture Extension Agent, East Palatka, FL, 32131, ²UF/IFAS North Florida Research and Education Center- Suwannee Valley, Live Oak, FL, 32060, 3UF/IFAS Hastings Agriculture Extension Center, Hastings, FL, 32060, ⁴Agricultural and Biological Engineering Department, University of Florida, Indian River Research and Education Center, Fort Pierce, FL, 34945, ⁵ Entomology and Nematology Department, University of Florida. Gainesville, FL, 32608
- 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,
- 11:30 Effect of Potassium Fertilization Rate on Sweetpotato Sugar Conten. David H. Picha*¹, Cheston T. Schayot¹, and Mark W. Shankle² ¹School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803, ²Pontotoc 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*¹, Mark W. Shankle², Lorin M. Harvey², Donna J. Peterson³, and Elizabeth P.G. North⁴ ¹Extension Center for Government and Community Development, Mississippi State University, Mississippi State, MS 39762, ²Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State

- University, Pontotoc, MS 38863,
 ³Department of Human Sciences, Mississippi State University, Mississippi State, MS 39762,
 ⁴Department of Agricultural Communications, Mississippi State University, Mississippi State, MS 37962
- 1:15 The Use of Polysulphate as a Potassium Fertilizer for Sweet Potato (*Ipomoea batatas*) Production in North Carolina. Alex L. Woodley*¹, Lily Kile¹, David Suchoff¹, Luke Gatiboni¹ and Anders Huseth² ¹Department of Crop and Soil Sciences, ²Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC 27695
- 1:30 Characterizing Temporal Sweetpotato Production Trends Through In-Season Environmental, Biomass, and Grade Data. Carbajal Carrasco^{1*}, Mariella Anders Huseth², Natalie Nelson¹ ¹3110 Faucette Dr, Department of Biological and Agricultural North Engineering, Carolina University, Raleigh, NC 27695, $^{2}1575$ 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*¹, Jonathan Schultheis¹, and David Suchoff² ¹Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, ²Department 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 Infield. Hoang M. Nguyen*1, Sydney Gyurek1, Russell Mierop2, Kenneth V. Pecota2, G.

- Craig Yencho², Michael W. Kudenov¹ Department of Electrical and Computer Engineering, North Carolina State University, Raleigh, NC 27607, ²Department 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 Highthroughput Truck Scanner. Enrique Pena Martinez*¹, Hoang Nguyen¹, Craig Yencho², Russell Mierop², Kenneth Pecota², Cranos Williams¹, Michael Kudenov¹ Department of Electrical and Computer Engineering, North Carolina State University, Raleigh, NC 27606, ² Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695

3:00 Afternoon Break

- 3:15 Exploring and Quantifying the Chemical Constituents Responsible for **Consumer-preferred Flavors Sweetpotatoes.** Modesta Abugu*1, Suzanne Johanningsmeier², Matthew Allan², Massimo Iorizzo^{1,3}, Craig Yencho¹ ¹Department of Horticultural Science, North Carolina State Raleigh, University, 27695, ²USDA_ARS, Southeast Area Food Science and Market Quality & Handling Research Unit, 322E Schaub Hall, Raleigh NC, 27695, ³ 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. Adrianne 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 Hunt¹, Daniela Jones¹ and Cranos Williams,² ¹Department of Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC 27695, ²Department of Electrical and Computer Engineering, North Carolina State University, Raleigh, NC 27695

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 Strainlevel Metagenomic Profiles by Using qRRS in the Sweetpotato Phyllospher. Alison Adams*1, Priya Voothuluru², Brandon Kristy³, Harper Kirby⁴, Phil A. Wadl⁵, G. Craig Yencho⁶, and Bode Olukolu⁷ ¹UT-ORNL Graduate School of Genome Science and Technology, University of Tennessee, Knoxville, TN 37996, ²The Center for Renewable Carbon, The University of Tennessee Institute of Agriculture, Knoxville, TN 37996, ³Oak Ridge National Laboratory, Oak Ridge, TN 37831, ⁴Department of Biochemistry & Cellular and Molecular Biology, University of Tennessee, Knoxville, TN 37996, ⁵United States Department of Agriculture, Agriculture Research Service, U.S. Vegetable Research, Charleston, SC 29414, ⁶Department of Horticultural Science, NC State University, Raleigh, NC 27695, ⁷Department 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*¹, Raju Bheemanahalli², Stephen Meyers³, Mark Shankle⁴, and K. Raja Reddy² ¹Geosystems Research Institute, Mississippi State University, Mississippi State University, MS, 39762, ²Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, ³Department of Horticulture and Landscape Architecture, Purdue University, West Lafayette IN 47907, 4Pontotoc Ridge-Flatwoods Branch Experiment Station, North Mississippi Research and Extension Center, Mississippi State University, Pontotoc, MS 38863

Sweetpotato Breeding Line Resistance to Meloidogyne enterolobii and M. incognita

David Galo*1, Josielle S. Rezende¹, Christopher A. Clark¹, Don R. Labonte², Tristan Watson¹¹Department of Plant Pathology and Crop Physiology, Louisiana State University Agricultural Center, Baton Rouge, LA 70803, ²School 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 Corbin¹, Paula Agudelo¹, Johan Desaeger², Adrienne Gorny³, Zane Grabau⁴, Zhengfei Guan², Abolfazl Hajihassani⁵, John Mueller¹, Lina Quesada-Ocampo³, Will Rutter⁶, and Phillip Wadl⁶ ¹Department of Plant and Environmental Sciences, Clemson University, Clemson, SC 29634, ²University of Florida Gulf Coast Research and Education Center, Wimauma, FL 33598, ³Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC 27695, ⁴Department of Entomology and Plant Pathology, University of Florida, Gainesville, FL 32611,5 Department of Entomology and Plant Pathology, University of Georgia, Tifton, GA 31793, 6USDA-ARS, Charleston, SC 29414

5:00 Adjourn for the Day

39759

8:00 Call to Order and Announcements

- 8:15 Optimizing Deployment of a Novel Wireworm Pheromone in Sweetpotato Anders S. Huseth*¹, Agroecosystems. Emma Schoeppner¹, Alyssa M. Pellegrino¹, Livy Williams III², Jocelyn G. Millar³, Seth J. Dorman⁴, Helene Doughty⁵, and Tom Kuhar⁶ ¹Department of Entomology and Plant Pathology, North Carolina State University; Campus Box 7630, Raleigh, NC, ²USDA-ARS U.S. 27695. Vegetable Laboratory; 2700 Savannah Highway, Charleston, SC, 29414, ³University of California. Riverside. Department Entomology, 3401 Watkins Dr., Riverside, CA, 92521, 4USDA-ARS, Forage Seed and Cereal Research Unit, Corvallis, OR, USA, ⁵Department of Entomology, Virginia Tech, Painter, VA 23420, ⁶ Department of Entomology, Virginia Tech, Blacksburg, VA 24061
- 8:30 Utilizing Plant Hormones as Herbicide Safeners in Sweetpotato. Matthew Cutulle* and Giovannia 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, ¹Department of Plant Pathology and Crop Physiology, Louisiana State University Agricultural Center, Baton Rouge, LA 70803 and ²Department 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*1, Matheus M. Noguera1, Srikanth K. Karaikal1, Gustavo B. de Lima1, Te-Ming Tseng2, and Nilda Roma-Burgos1 Department of Crop, Soil, and Environmental Sciences, University of Arkansas, Fayetteville, AR 72704, Department of Plant and Soil Sciences, Mississippi State University, Starkville, MS

- 9:30 Morning Break
- 9:45 Resistance to Wireworm / Diabrotica / Systena Among Sweetpotato Cultivars and **Advanced Lines.** T. J. Douglas*¹, Stephen L. Meyers², Ashli Brown³, Blake Layton³ and Fred Musser³ ¹Department of Biochemistry, Molecular Biology, Entomology and Plant Pathology, Mississippi State University, Mississippi State, MS 39762. Currently at Auburn University, ²Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS 38863. Currently at Purdue University, ³Department of Biochemistry, Molecular Biology, Entomology and Plant Pathology, Mississippi State University, Mississippi State, MS 39762
- 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 Shahi², Byungjin Min², Marceline Egnin, Ivi Mitchell, Andrea Lockett, Inocent Ritte, Osa Idehen, Adrianne Brown, and Conrad Bonsi, Department of Agriculture, Department of Nutrition Science² Tuskegee University, 1200 W. Montgomery Rd. Tuskegee, AL 36088
- 10:30 Effect of Flumioxazin and S-metolachlor Covington sweetpotato planted vertically or horizontally. Keith D. Starke*1, Levi D. Moore2, Colton D. Blankenship², Katherine M. Jennings², David W. Monks², Jonathan Schultheis² ¹Central Crops Research Station, North Carolina State University, Clayton, NC 27520. ²Horticultural 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*1, Tamara Abernethy1, Chunying Li1, Ken Pecota2 and Craig Yencho2

¹Micropropagation and Repository Unit, Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC 27607, ²Department 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*¹ and Wanda I. Almodóvar² ¹Department of Agroenvironmental Sciences, University of Puerto Rico at Mayaguez Campus, Agricultural Experimental Station (AES) at Rio Piedras, San Juan, ²Department of Agroenvironmental Sciences, University of Puerto Rico, Mayaguez Campus, Agricultural Extension Service at Mayaguez
- 11:15 Evaluating Electrical and Mechanical Methods for Palmer **Amaranth** palmeri) **Control** (Amaranthus Sweetpotato Levi D. Moore*1, Katherine M. Jennings¹, David W. Monks¹, Michael D. Boyette², Ramon G. Leon³, David L. Jordan³, Stephen J. Ippolito¹, Colton D. Blankenship¹, and FNU Chitra¹ ¹2721 Founders Drive, Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695, ²3100 Faucette Dr., Department of Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC 27695, ³101 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*1, Isabel Werle², Mark W. Shankle³, Stephen L. Meyers⁴, and Te-Ming Tseng¹ ¹Mississippi State University, Starkville, MS 39762, ²University of Arkansas, Fayetteville, AR 72701, ³Mississippi State University, Pontotoc, MS 38863, ⁴Purdue 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 Simon Fraher*¹, Tanner enterolobii. Schwarz², Bonny Oloka³, Ken Pecota¹, Chris Heim¹, Adrienne Gorny², and G. Craig ¹Department of Horticultural Yencho¹ Science, North Carolina State University, Raleigh, NC 27695, ²Department of Entomology and Plant Pathology, North Carolina State University, Raleigh, NC 27695, ³Root Crops Program, National Agricultural Research Organization, Entebbe, Uganda

- 12:15 Effect of Preemergence Herbicides in Covington Sweetpotato. Stephen Ippolito*1, Katherine M. Jennings¹, David W. Monks¹, Sushila Chaudhari², David L. Jordan³, ¹ Department of Horticultural Science, North Carolina State University, Raleigh, NC, USA, ² Department of Horticulture, Plant and Soil Science, Michigan State University, East Lansing, MI, USA, ³ 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

Instructions for Submission of Abstracts for Publication in *HortScience*

- 1) One of the authors must be registered for the conference.
- 2) The title of the abstract must appear in the published conference program.
- 3) The abstract must be submitted as a document file in the proper format.
- 4) The abstract must be submitted to the Chair of the session by the deadline.

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File Format: Each abstract must be submitted as a separate Word (.doc) file. If you use another word

processing language, submit abstract in rich text format (.rtf).

Deadline: 1) At meeting: Give disk with file to the Chair of the session.

2) Email abstracts as an attached file to the Chair of the session before the meeting or within a few days after the meeting. See the Section Program for the Chair's email address.

Abstract Format

Length: Limit the abstract body to about 2000 characters.

Font: 12 point, Times New Roman or similar

Format: Format abstract as below. Asterisk denotes presenting author.

Example Format

Molecular Marker-Derived Genetic Similarity Analysis of a Segregating Blackberry Population

Eric T. Stafne*1, John R. Clark1, and Kim S. Lewers2

¹316 Plant Sciences, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²USDA-ARS Fruit Lab, 10300 Baltimore Ave., BARC-West Bldg. 010A, Beltsville, MD 20705

A tetraploid blackberry population that segregates for two important morphological traits, thornlessness and primocane fruiting, was tested with molecular marker analysis. Both randomly amplified polymorphic DNA (RAPD) and simple sequence repeat (SSR) markers were used to screen a population of 98 genotypes within the population plus the two parents, 'Arapaho' and 'Prime-Jim'® (APF-12). RAPD analysis averaged 3.4 markers per primer, whereas SSR analysis yielded 3.0 markers per primer pair. Similarity coefficient derived from the Dice index averaged over all individuals was 63% for RAPD markers, 73% for SSR markers, and 66% for RAPD and SSR markers together. The average similarity coefficients ranged from a high of 72% to a low of 38% for RAPD markers, 80% to 57% for SSR markers, and 73% to 55% for both. Comparison of the parents indicated a similarity of 67% for RAPD markers, 62% for SSR markers, and 67% for both. This is similar to a previous study that reported the similarity coefficient at 66%. Although inbreeding exists within the population, the level of heterozygosity is high. Also, evidence of tetrasomic inheritance was uncovered within the molecular marker analysis. This population will be used to identify potential markers linked to both morphological traits of interest. Further genetic linkage analysis and mapping is needed to identify any putative markers.

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