

PROGRAM



2016 Annual Meeting

February 5-7, 2016

San Antonio, TX

80th Year

Southern Region

American Society for Horticultural Science

96th Year

Horticulture Section

Southern Association of Agricultural Scientists

History of the Southern Region of ASHS and the Horticulture Section of SAAS

In 1899, the State Commissioners of Agriculture in several southern states founded “The Cotton States Association of the Commissioners of Agriculture”, which had horticulture involved in its very beginning. This is the founding organization that evolved into the modern day Southern Association of Agricultural Scientists (SAAS). In 1920, SAAS (which at that time was called Association of Southern Agricultural Works, ASAW) formalized the affiliation with horticulture by founding the Horticulture Section. In 1936, the American Society for Horticultural Sciences approved the Southern States Section, which is now termed the Southern Region of ASHS. In 1937, SAAS accepted the affiliation between the Southern States Section of ASHS with the Horticulture Section of SAAS. Thus, the Southern Region jointly has been a part of both ASHS (with a founding date of 1936) and SAAS (with a founding date 1920). This rich history is detailed in publications by Andy Anderson, 1982, and Paul Smeal, 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 main 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

Gary Bachman

Mississippi State University
Plant and Soil Sciences
1815 Popps Ferry Road
Biloxi, MS 93532
Phone: 228-546-1009
gbachman@ext.msstate.edu

President-Elect

Ed Bush

Louisiana State University
School Plant, Environ & Soil Sci.
257 J.C. Miller Hall
Baton Rouge, LA 70803-2120
Phone: 228-578-2158
ebush@agcenter.lsu.edu

Secretary-Treasurer

David Wm. Reed

Dept. of Horticultural Sciences
Texas A&M University
College Station, TX
77843-2133
Phone: 979-458-0710
dwreed@tamu.edu

Web Site srashs.org Visit It

PROGRAM
2016 ANNUAL MEETING
Southern Region
American Society for Horticultural Science
San Antonio, TX
February 5-7, 2016

FRIDAY

7:00 am -	6:00 pm	Registration Room: Hotel Lobby
8:00 am -	5:00 pm	Pecan Research and Extension Forum Room: Nueces/Frio
8:00 am -	5:00 pm	Southern Blueberry/Small Fruit Workers Room: Directors
8:00 am -	5:00 pm	National Sweetpotato Collaborators Room: Live Oak
10:00 am -	1:00 pm	ACB Club Share and Networking Room: Chula Vista
1:00 pm-	5:00 pm	ACB Group Activities, Tour, and Meal Room: Chula Vista
1:00 pm -	6:00 pm	Watermelon Research Group Room: Llano/Pecos
1:00 pm -	5:00 pm	Horticulture Administrators Room: Mesquite
5:00 pm -	6:00 pm	Executive Committee Meeting Room: Mesquite
5:00 pm-	6:00 pm	ACB Mixer Room: Chula Vista

SATURDAY

7:00 am -	6:00 pm	Registration Room: Regency Ballroom Foyer
8:00 am -	12:00 pm	Set-up Posters Room: Regency Center West
8:00 am -	12:00 pm	J. Benton Storey Horticulture Judging Contest Setup Room: Regency Ballroom Center East
8:00 am -	5:00 pm	National Sweetpotato Collaborators Room: Live Oak
8:00 am -	6:00 pm	Watermelon Research Group Room: Llano/Pecos
8:00 am -	11:00 am	Extension Section Room: Nueces/Frio
8:00 am -	10:00 am	J. B. Edmond Undergraduate Student Paper Competition. Room: Mesquite
9:00 am -	12:00 pm	Vigna Crop Germplasm Committee Room: Medina
10:30 am -	12:30 pm	Norman F. Childers M.S. Student Room: Mesquite

11:00 am-	12:00 am	Education Section Room: Nueces/Frio
1:00 pm-	2:30 pm	Floriculture, Ornamentals and Turf Section Room: Nueces/Frio
2:30 pm-	4:00 pm	Fruit Crops Section Room: Nueces/Frio
12:00 pm-	5:00 pm	Poster Session Viewing Room: Regency Center West
12:00 pm-	5:00 pm	J. Benton Storey Horticulture Judging Contest Room: Regency Ballroom Center East
12:00 pm-	5:00 pm	National Cowpea Improvement Association Room: Medina
2:00 pm-	4:30 pm	Warren S. Barham Ph.D. Student Paper Competition Room: Mesquite

SUNDAY

7:00 am -	10:45 am	Registration Room: Regency Ballroom Foyer
8:00 am -	10:45 pm	Poster Session Viewing Room: Regency Center West
8:00 am -	10:45 am	Vegetable Crops Section Room: Navarro
8:00 am -	10:45 am	Floriculture, Ornamentals and Turf Section Room: Bowie AB
8:00 am -	10:45 am	Fruit Crops Section Room: Maverick A
8:00 am -	10:00 am	Postharvest & Biotechnology Section Room: Directors
9:00 am -	10:45am	ACB Business Meeting Room: Rio Grande Ballroom East
11:00 am -	12:30 pm	Annual Business Meeting and Award Program Room: Rio Grande Ballroom East
1:00 pm -	3:00 pm	Poster Session Take Down Room: Regency Center West

SAAS Program

2:30 pm -	3:00 pm	SAAS Board Meeting Room: Rio Grande Ballroom East
4:00 pm -	4:15 pm	SAAS General Business Meeting Room: Rio Grande Ballroom East
4:15 pm -	5:00 pm	SAAS Social Room: Rio Grand Ballroom Foyer

TUESDAY

7:30 am -	9:30 pm	SAAS Board Breakfast Meeting Room: La Vista Terrace
-----------	---------	---

REGISTRATION

Friday 7:00 am-6 pm,
Hotel Lobby
Saturday 7:00 am - 6 pm,
Regency Ballroom Foyer
Sunday 7:00 am – 10:30 am,
Regency Ballroom Foyer

FRIDAY, February 5, 2016

ACB Activities

Room: Chula Vista
Time: 10:00 - 1:00 Club Share
1:00-5:00 Tour
5:00-6:00 Mixer
Presiding: Kaitlin Ziesmer, ACB-President
Jay Spiers, ACB Advisor

Working Groups

Listed at end of program

SATURDAY, February 6, 2016

J. BENTON STOREY UNDERGRADUATE JUDGING CONTEST

Room: Regency Ballroom Center East
Time: 8:00 - 12:00 Set-Up
12:00-5:00 Judging Contest
Presiding: Andrew Thomas, ACB Vice-
President
Jay Spiers, ACB Advisor

Working Groups

Listed at end of program

SECTION TITLES

J. B. EDMOND UNDERGRADUATE STUDENT PAPER COMPETITION

Room: Mesquite
Presiding: Kaitlin Ziesmer, ACB-President
Gary Bachman, SRASHS President
Dario Chavez-Velasquez, 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: dchavez@uga.edu

8:00 am –10:00 am Order of presentations determined by drawing at beginning of contest.

Characterization of Yemeni Coffee Landraces Using Near-Infrared Reflectance Spectroscopy. Keith A. Read^{1*}, Amin Al Hakimi^{2,3}, Seth C. Murray³, and Leonardo Lombardini¹. ¹Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, ²Faculty of Agriculture, Sana'a University, Yemen, ³Department of Soil and Crop Sciences, Texas A&M University, College Station, TX 77843 (Keith_Read@tamu.edu)

Effect of Volumetric Water Content on the Growth of *Anisacanthus quadrifidu*, *Caryopteris × clandonensis*, and *Cuphea hyssopifolia*. Hermilo Barrera¹, Youping Sun², Genhua Niu², ¹El Paso Community College, El Paso, TX 79925 ²Texas A&M AgriLife Research Center at El Paso, Texas A&M University System, 1380 A&M Circle, El Paso, TX 79927, USA. (hermilo.barrera@ag.tamu.edu)

Evaluation of Harvest Time/Temperature on Postharvest Incidence of Red Drupelet Reversion Development and Firmness of Blackberry (*Rubus L. subgenus Rubus Watson*). Jack E. McCoy*, John R. Clark, Alejandra A. Salgado, and Andrew Jecmen, 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (jem027@uark.edu)

Phenotypic Variation of a Segregating Blackberry (*Rubus L. subgenus Rubus Watson*) Population for Molecular Marker Development. Loren Anthony^{1*}, John R. Clark¹, Renee Threlfall², and Nahla Bassil³, ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²2650 North Young Avenue, Institute of Food Science and Engineering, University of Arkansas, Fayetteville, AR 72704, ³Nahla Bassil, USDA-ARS National Clonal Germplasm Repository, 33447 Peoria Rd., Corvallis, OR 97333-2521. (lmanthon@email.uark.edu)

Rosa Ploidy Determination for Rose Rosette Disease Resistance Breeding. Jonathan K. Corser, Jeekin Lau, Ellen Roundey, and David Byrne, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133. (joncorser@tamu.edu)

Sweet Potato Storage Root Yield as a function of Plant Age. Andrew Barocco*, Don LaBonte, and Robert Mirabello, School of Plant, Environmental, and Soil Sciences, Louisiana State University AgCenter, Baton Rouge, LA 70803 (abaroc3@lsu.edu)

The Effect of Winter Cover Crops on High Tunnel Tomato Physiology and Yield. Bailey Smith^{1*}, Luke R. Freeman², Curt R. Rom², and Jason McAfee², ¹203 Engineering Hall, Department of Biological and Agricultural Engineering, ²316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (bjs010@email.uark.edu)

The Effects of Shade on Greenhouse grown Primocane Fruit Blackberries. Olivia C. Caillouet^{1*}, Curt C. Rom¹, ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72704. (occaillo@uark.edu)

NORMAN F. CHILDERS M.S. GRADUATE STUDENT PAPER COMPETITION

Room: Mesquite

Presiding: Ed Bush, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: ebush@agcenter.lsu.edu

10:30 am – 12:30 pm Order of presentations determined by drawing at beginning of contest.

A Comparison of Blueberry Cultivars in High Tunnel and Field Production. Luke R. Freeman*, Jason McAfee, and Curt R. Rom, 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (lfreeman@uark.edu)

Aggregate Depth and Irrigation Frequency Affects 'Rex' Lettuce Development in a Shallow Aggregate Bed Hydroponic Production System. Joseph C. Chidiac* and Michael R. Evans, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (jchidiac@uark.edu)

Effects of Cover Crops on Squash Bug (*Anasa tristis*) Populations. Lindsay Davies^{1*}, David Berle¹, Paul Guillebeau², Elizabeth Little³, 1111 Plant Sciences Building, Department of Horticulture, University of Georgia, Athens, GA 30602, ²413 Biological Sciences Building, Department of Entomology, University of Georgia, Athens, GA

30602, ³2105 Plant Sciences Building, Department of Plant Pathology, University of Georgia, Athens, GA 30602. (Lndavies@uga.edu)

Phenology, Physiology, and Fruit Characteristics of Pierce's Disease Resistant Grapevine (*Vitis vinifera* L.) Selections in Alabama. Andrej Svyantek*, Elina Coneva, J. Raymond Kessler, James D. Spiers, and Edgar Vinson, Department of Horticulture, Auburn University, Auburn, AL 36849. (aws0006@auburn.edu)

Planting density, harvest stage, and cultivar affect economic return of parthenocarpic pickling cucumber in an once-over mechanical harvest system. Lauren Arteman^{1*}, Jonathan Schultheis¹, Todd Wehner¹, and Gary Bullen², ¹Department of Horticultural Science and ²Department of Agricultural and Resource Economics, North Carolina State University, Raleigh, NC 27695. (ljartema@ncsu.edu)

The Crape Myrtle Bark Scale: A New Threat for the No. 1 Flowering Shrub in the United States. Zinan Wang¹, Rodrigo Diaz¹, Yan Chen², Mengmeng Gu³, Erfan Vafaie⁴, and Michael Merchant⁵. ¹Louisiana State University Agricultural Center, Department of Entomology, Baton Rouge, LA 70803, ²Louisiana State University Agricultural Center, Hammond Research Station, Hammond, LA 70403, ³Texas A&M AgriLife Research & Extension Center, Department of Horticultural Science, College Station, TX 77843, ⁴Texas A&M AgriLife Research & Extension Center, Department of Entomology, Overton, TX 75684, ⁵Texas A&M AgriLife Research & Extension Center, Department of Entomology, Dallas, TX 75252. (zwang@agcenter.lsu.edu)

The Effective Pollination Period of 'AU Golden Sunshine' (*Actinidia chinensis*) and 'AU Fitzgerald' (*Actinidia deliciosa*). Ashley Brantley*, James D. Spiers, Andrew B. Thompson, Elina Coneva, J. Raymond Kessler, Jr. and Amy Wright, Department of Horticulture, Auburn University, Auburn, AL 36879. (abk0009@auburn.edu)

WARREN S. BARHAM Ph.D. GRADUATE STUDENT PAPER COMPETITION

Room: Mesquite

Presiding: Ed Bush, Chair

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

ebush@agcenter.lsu.edu

2:00 pm – 4:30 pm Order of presentations determined by drawing at beginning of contest.

Assessment of Commercial Fruit Crop Potential of Selected Banana (*Musa* sp.) Cultivars in the Subtropics of Coastal Alabama. Edgar L. Vinson, III^{1*}, Elina D. Coneva¹, Joseph M. Kemble¹, Floyd M. Woods¹, Penelope M. Perkins-Veazie², Esendugue G. Fonsah³, and Jeff L. Sibley¹, ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849, 2600 Laureate Way, Department of Horticultural Science, PPHI-NCRC, North Carolina State University, Kannapolis, NC 28081, 315 RDC Road, Department of Agricultural and Applied Economics, University of Georgia – Tifton Campus, Tifton, GA 31793. (vinsoed@auburn.edu)

Collecting Time Affected Embryo Germination of *Kalmia latifolia* L. ‘Red Bandit’ x ‘Starburst’. He Li^{*}, Donglin Zhang, and Jinying Dong, Department of Horticulture, University of Georgia, Athens, GA 30602. (susuzx98@uga.edu)

Determination of nutrients removed by harvesting, pruning and leaf fall in peach trees. Qi Zhou^{1*} and Juan Carlos Melgar², Plant and environmental sciences, Department of Agricultural and Environmental Sciences, Clemson University, Clemson, SC 29634, Biosystems Research Complex, Lab 204. (qzhou3@clemson.edu¹, jmelgar@clemson.edu²)

Evaluating Bacterial Spot [*Xanthomonas arboricola* pv. *pruni* (*Xap*)] Resistance for Molecular Characterization and Incorporation of Marker Assisted Breeding (MAB) into The University Of Arkansas Peach and Nectarine Breeding Program. Terrence J. Frett^{1*}, John R. Clark¹, Burt H. Bluhm², Brant Smith², Andrew Jecman¹, Alejandra A. Salgado¹, Paul J. Sandefur³, Cameron Peace³, and Ksenija Gasic⁴, ¹Univ. of Arkansas, Department of Horticulture, Fayetteville, AR 72701, USA, ²Univ. of Arkansas, Department of Plant Pathology, Fayetteville, AR 72701, USA, ³Washington State University, Pullman, WA, 99163, USA, ⁴SAFES, Clemson Univ., Clemson, SC 29634, USA (tjfrett@email.uark.edu).

Genotypic and Phenotypic Evaluations of Black Raspberry in North Carolina over Multiple Harvest Seasons. Christine Bradish^{1*}, Jill M. Bushakra², M. Dossett³, N. Bassil², C. Finn⁴, P. Perkins-Veazie⁵, G. Fernandez¹, ¹ Department of Horticultural Science, North Carolina State

University, Raleigh, NC, USA, ²United States Department of Agriculture – Agricultural Research Service (USDA-ARS) – National Clonal Germplasm Repository, Corvallis, OR, USA, ³B.C. Blueberry Council (in partnership with Agriculture and Agri-Food Canada), Agassiz, B.C., Canada, ⁴USDA-ARS-Horticultural Crops Research Unit, Corvallis, OR, USA, ⁵NC State University Plants for Human Health Institute, Kannapolis, NC, USA. (cmbradis@ncsu.edu)

Nutrient Remediation using Two Species in a Floating Treatment Wetland System. Lauren M Garcia^{1*}, John C Majsztrik², Natasha L Bell³, and Sarah A White², ¹Institute of Environmental Toxicology, Clemson University, Clemson, SC 29634, ²Department of Agriculture and Environmental Sciences, Clemson University, Clemson, SC 29634, ³Department of Environmental Engineering and Earth Sciences, Clemson University, Clemson, SC 29634. (lgarci3@clemson.edu)

Short Term Effects of Phosphorus Banding on Pecan Production. (*Carya illinoensis* (Wangenh.) K. Koch) Michael F Polozola II^{*}, Daniel E. Wells, Wheeler G. Foshee, J. Raymond Kessler and Amy N. Wright, Department of Horticulture, Auburn University, Auburn, AL 36849 (mfp0012@auburn.edu)

The Impact of Growth Habit, Planting Density and Weeding Regime on Watermelon Yield in an Organic System. Suzanne Stone^{*} and George Boyhan, Department of Horticulture, University of Georgia, Athens, GA 30605. (sstone2@uga.edu)

Use of Colored Shade Cloth on Vegetable and Cut Flower Production in Mississippi. Tongyin Li^{*}, Guihong Bi, Bill B. Evans, and Judson Lecompte, Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762. (tl665@msstate.edu)

EXTENSION SECTION

Room: Nueces/Frio

Presiding: Jim Robbins, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: jrobbins@uaex.edu

8:00 Bringing Extension’s Earth-Kind® Environmental Landscape Management Program Into The College

- Classroom.** Elizabeth Moore*, Department of Agriculture Sciences, West Texas A&M University, Canyon, TX 79016. (eamoore@wtamu.edu)
- 8:15 Chasing a New Audience: Social Media Strategies and Challenges at the Mississippi State Trial Gardens.** Geoffrey C. Denny* and Kandiance Gray, Plant & Soil Sciences Department, Mississippi State University, Mississippi State, MS 39762 (gcdenny@pss.msstate.edu)
- 8:30 Diffusing Water Conservation and Treatment Technologies to Nursery and Greenhouse Operations through Extension Programming.** Emmett Martin^{1*}, Alexa J. Lamm¹, Laura A. Warner¹, Sarah White², Paul Fisher³. ¹PO Box 112060 University of Florida, Gainesville, Florida 32611, ²167 Poole Ag Center P.O. Box 340310 Clemson University, Clemson, SC 29634-0310, ³PO Box 110670 University of Florida, Gainesville FL 32611-0670. (emmett1986@ufl.edu)
- 8:45 Discovering the Value of Social Media in Horticulture Research and Extension.** Eric Stafne*, Coastal REC, Miss. State Univ., P.O. Box 193, Poplarville, MS 39470 (eric.stafne@msstate.edu)
- 9:00 Earth-Kind® Landscape Design and Management Schools.** Allison Watkins^{1*} and Jeff Floyd², 1113 West Beauregard Avenue, Texas A&M AgriLife Extension Service, Texas A&M University System, San Angelo, TX 76903, ²Texas A&M AgriLife Extension Service, Texas A&M University System, Odessa, TX 79761. (aewatkins@ag.tamu.edu)
- 9:15 Break**
- 9:30 Encouraging Millennial and Non-Gardener Participation through Experiential Learning at the Mississippi State Trial Gardens.** Kandiance Gray and Geoffrey C. Denny*, Plant & Soil Sciences Department, Mississippi State University, Mississippi State, MS 39762 (gcdenny@pss.msstate.edu)
- 9:45 Merging an Industry Trade Show with a University Field Day – A New, Successful LSU AgCenter Effort.** Allen Owings*, LSU AgCenter, Hammond Research Station, 21549 Old Covington Highway, Hammond, LA 70403. (aowings@agcenter.lsu.edu)
- 10:00 Nursery Growers' Relationships with Water: What Influences Their Opinions of Water?** Pei-wen Huang^{1*}, Alexa J. Lamm¹, Emmett T. Martin¹, Laura A. Warner¹, Paul R. Fisher², and Sarah A. White³, ¹Department of Agricultural Education and Communication, University of Florida, Gainesville, FL 32611, ²Environmental Horticulture Department, University of Florida, Gainesville, FL 32611, ³School of Agricultural, Forest, and Environmental Sciences, Clemson University, 167 Poole Ag. Center, Clemson, SC 29634. (agnespei@ufl.edu)
- 10:15 Strawberry Production in South Texas.** Juan Anciso^{1*}, Alfredo Rodriguez¹, Russ Wallace², ¹Texas A&M AgriLife Extension, 2401 E. Hwy. 83, Weslaco, TX 78596, ²Texas A&M AgriLife, Lubbock, TX 79403. (janciso@ag.tamu.edu)
- 10:30 Using WeChat, a New Social Media Platform, to Reach Underserved Stakeholders.** Mengmeng Gu*, Texas A&M AgriLife Extension, Dept. of Horticultural Sciences, 2134 TAMU, College Station, TX 77843. (mgu@tamu.edu)

EDUCATION SECTION

Room: Nueces/Frio

Presiding: Carolyn Robinson, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: cwrobinson@auburn.edu

11:00 Development of an Urban Enology Certificate Program. Justin J. Scheiner^{1*}, George R. McEachern² and B. Greg Cobb². Department of Horticultural Sciences, ¹Texas A&M AgriLife Extension, HSFB, 2134 TAMU, College Station, TX 77843 and ²Texas A&M University, College Station, TX 77843-2133. (jscheiner@tamu.edu)

11:15 Installation of a Closed-Circuit Television Camera System at the Durham Horticultural Farm for

Teaching and Research. George E. Boyhan^{1*} and Ryan D. McNeill^{2, 1111} Miller Plant Science Building, Department of Horticulture, University of Georgia, Athens, GA 30602, ²1221 Hog Mountain Road, Department of Horticulture, University of Georgia, Watkinsville, GA 30677. (gboyhan@uga.edu)

FLORICULTURE, ORNAMENALS AND TURF SECTION

Room: Nueces/Frio

Presiding: MengMeng Gu, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: mgu@tamu.edu

1:00 Swiss Chard. Shaun R. Broderick* and William B. Evans. Truck Crops Branch, Mississippi State University, P.O. Box 231, Crystal Springs, Mississippi 39059-0231. (srb559@msstate.edu)

1:15 Tea as an alternative crop for Mississippi. J. LeCompte and G. Bi, Department of Plant and Soil Sciences, Mississippi State University, Miss. State, MS 39762. (JSL279@msstate.edu)

1:30 Using biochar and vermicompost as greenhouse substrate. Ruixian Liu¹, Xiaoya Cai², Haijie Dou², and Mengmeng Gu^{*2}, ²Jiangsu Academy of Agricultural Sciences, Nanjing, Jiangsu, China² Department of Horticultural Sciences, Texas A&M AgriLife Extension Service, College Station, TX 77843. (mgu@tamu.edu)

1:45 What Happens When the Tap Goes Dry: A Garden's Last Lesson? Michael A. Arnold*, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133. (maarnold@tamu.edu)

2:00 Summer 2015 Bedding Plant Evaluations at the University of Arkansas. Garry V. McDonald*, 316 Plant Sciences, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (gmcdonal@uark.edu)

FRUIT CROPS SECTION

Room: Nueces/Frio

Presiding: Elina Coneva, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: edc0001@auburn.edu

2:30 RosBREED Peach Mini SNP Arrays v1 Design, Analysis and Results. Terrence J. Frett^{1*}, John R. Clark¹, Ksenija Gasic², Nahla Bassil³, Paul J. Sandefur⁴, Jonathan Fresnedo⁵, Tom Gradziel⁶, David Byrne⁷ and Cameron Peace⁴, ¹Univ. of Arkansas, Department of Horticulture, Fayetteville, AR 72701, USA, ²SAFES, Clemson Univ., Clemson, SC 29634, USA, ³USDA-ARS, National Clonal Germplasm Repository, Corvallis, OR 97333, USA, ⁴Washington State University, Pullman, WA 99163, USA, ⁵Cornell University, Ithaca, NY, 14853, USA, ⁶University of California Davis, Department of Pomology, Davis, CA 95616, USA, ⁷Texas A&M University, Department of Horticultural Sciences, College Station, TX 77843, USA. (tjfrett@email.uark.edu)

2:45 The Effects of Shade on Greenhouse grown Primocane Fruit Blackberries. Olivia C. Caillouet*, Curt C. Rom, 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72704. (occaillo@uark.edu)

3:00 The effects of water management strategies on citrus growth and yield. Ayako Kusakabe*, Catherine Simpson, Shad D. Nelson, and Mamoudou Setamou. Texas A&M University- Kingsville Citrus Center, 312 N. International Blvd., Weslaco, TX 78599. (catherine.simpson@tamuk.edu)

3:15 Tunnel-in-Tunnel Effects on 'Natchez' Blackberry: Promise and Problems. Luke R. Freeman*, Curt R. Rom, and Jason McAfee, 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701 (lfreeman@uark.edu)

POSTERS

Room: Regency Center West
Presiding: Michael Maurer, Chair
Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: maurerma@sfasu.edu

Set-Up: Saturday, 8:00 am –noon

Poster Viewing:

Saturday noon to 5:00 pm

Sunday 8:00-10:45 am

Authors at their poster:

Saturday, 1:00-2:30 pm even numbered posters

Saturday, 2:30-4:00 pm odd numbered posters

Take-down: Sunday, 1:00 pm – 3:00 pm

Student Poster Competition

UG = Undergraduate poster titles

G = Graduate poster titles

Cross-Commodity

- 1) **Current Season Trapping Results for SWD in Central Alabama.** Elina Coneva*, Trevor Cofer, Charles Ray and James Pitts. Department of Horticulture, Auburn University, Auburn, AL 36849. (edc0001@auburn.edu)
- 2) **In Vitro Shoot Regeneration of Black Cohosh.** Guochen Yang*, Cindy Lu, and Sanjun Gu, School of Agriculture and Environmental Sciences, North Carolina A&T State University, Greensboro, NC 27411. (yangg@ncat.edu)
- 3) **Kenaf's Allelopathic Impact on Seedling Growth.** Charles L. Webber III^{1*}, Paul M. White Jr.¹, Dwight L. Myers², Merritt J. Taylor³, and James W. Shrefler⁴, ¹USDA, Agriculture Research Service, Sugarcane Research Unit, Houma, LA 70360, ²East Central University, Chemistry Department, Ada, OK 74820, ³Oklahoma State University, Division of Agriculture Sciences and Natural Resources, Department of Agricultural Economics, Durant, OK 74702, ⁴Oklahoma State University, Division of Agriculture Sciences and Natural Resources, Oklahoma Cooperative Extension Service, Durant, OK 74702. (Chuck.Webber@ars.usda.gov)
- 4) **Remediation of Phytopathogen Contaminants from Irrigation Runoff Water using Floating Treatment Wetlands to Facilitate Increased Water Recycling.**

Natasha L. Bell^{1*}, Lauren M. Garcia², John C. Majsztrik², Daniel R. Hitchcock³, and Sarah A. White², ¹Department of Environmental Engineering and Earth Sciences, Clemson University, Clemson, SC 29634, ²Institute of Environmental Toxicology, Clemson University, Pendleton, SC 29670, ³Baruch Institute of Coastal Ecology and Forest Science, Clemson University, Georgetown, SC 29442. (natashb@clemson.edu)

Floriculture, Ornamentals and Turf

- 5UG) **A Survey of Wounding Frequency among Trees found in Urban and Forest Environments.** Lee Rumble^{1*}, Melanie Heckman², and Drew Sieg¹, ¹Middle Tennessee State University, 1301 East Main Street, Murfreesboro, TN 37132, ²Fernbank Science Center, 156 Heaton Park Drive, Atlanta GA 30307. (dlr5f@mtmail.mtsu.edu)
- 6) **An Approach for Integrated Pest Management of Chilli Thrips, Scirtothrips dorsalis Hood, on Ornamental Roses.** Luis F. Aristizábal^{1*}, Steven P. Arthurs¹, Yan Chen², Ronald H. Cherry³ and Ronald D. Cave⁴. ¹University of Florida IFAS Mid-Florida Research & Education Center, Apopka, FL 32703, ²Louisiana State University Agricultural Center Hammond Research Station, Hammond, LA 70403, ³University of Florida IFAS Everglades Research & Education Center, Belle Glade, FL 33430, ⁴University of Florida IFAS Indian River Research & Education Center, Fort Pierce, FL 34945. (larist@ufl.edu)
- 7) **Biosolids: Characteristics and Potential in the Southeastern U.S.** William B. Evans* and Shaun R. Broderick. Truck Crops Branch, Mississippi State University, P.O. Box 231, Crystal Springs, Mississippi 39059. (bill.evans@msstate.edu)
- 8) **Chilli Thrips (Scirtothrips dorsalis Hood) Population Growth in Double-red Knockout Rose as Affected by Controlled Release Fertilizer Regimes.** Yan Chen^{1*}, Allen Owings¹, and Steven Arthurs². ¹Louisiana State University Agricultural Center Hammond Research Station, Hammond LA 70403, ²University of Florida Mid-Florida Research and Education Center, Apopka FL 32703. (YaChen@agcenter.lsu.edu)
- 9) **Cowboy Bunk Bed Gardens: A Raised Bed and Container Hybrid.** Jim Shrefler^{1*},

Harold Stephens² and Keegan Varner³, ¹Bryan County Extension, Oklahoma State University, Fairgrounds, Durant, OK 74701, ²Atoka County Extension, Courthouse, Atoka, OK 74525, ³Johnston County Extension, 1301 So. Airport Rd., Tishomingo, OK, 73460. (jim.shrefler@okstate.edu)

- 10) **Developing a Professional Approach to Home Horticulture Problem Solving for County Agents.** Lelia Scott Kelly^{1*}, Clarissa Balbalian², John Giesemann³, Blake Layton², Rebecca Melanson², and Shaun Broderick¹, ¹PO Box 9610, Department of Plant and Soil Science, Mississippi State University, Mississippi State, MS 39762, ²PO Box 9775, Department of Biochemistry, Entomology and Plant Pathology, Mississippi State University, Mississippi State, MS 39762, ³PO Box 9662, Center for Technology Outreach, Mississippi State University, Mississippi State, MS 39762. (lelia.kelly@msstate.edu)
- 11) **Effects of Substrate Gravimetric Water Content from Transplant to Finished Stage on *Impatiens xwalleriana* ‘Xtreme Red’.** Anthony T. Bowden*, Adam F. Newby, Glenn B. Fain, and Daniel E. Wells, Department of Horticulture, Auburn University, Auburn, AL 36849-5408. (atb0013@auburn.edu)
- 12) **Establishing an Earth Box Demonstration in South Mississippi.** C. Coker*, G. Bachman, and P. Knight, Mississippi State University, Coastal Research and Extension Center, Biloxi, MS. (christine.coker@msstate.edu)
- 13) **Evaluation of Zinc and Phosphorus Fertilizer on Celosia Grown in Nigeria.** Olukunle Kolade^{1*}, M.O. Fawole², Jose Lopez¹, and Derald A. Harp¹. ¹School of Agriculture, Texas A&M University – Commerce, Commerce, TX 75429, ²Faculty of Agriculture, University of Ilorin, Ilorin, Kwara State P.M.B. 1515 / 234, Nigeria. (Derald.Harp@tamuc.edu)
- 14) **Experiences from Managing Multi-Institutional Public-Private Partnership Research Program.** Heather Friedrich^{1*}, Curt Rom¹, Luke Freeman¹, Ron Rainey² and Jennie Popp³. ¹316 Plant Science, Department of Horticulture, Fayetteville, AR 72701, ²University of Arkansas System Cooperative Extension Service, Little Rock AR 72204. ³Department of Agribusiness and Agriculture

Economics University of Arkansas, Fayetteville, AR 72701. (heatherf@uark.edu)

- 15) **Landscape Fabric Performance and Effect on Soil Organic Matter.** Derald A. Harp, Mariah McPherson, and Kevin Chretien*. School of Agriculture, Texas A&M University -Commerce, Commerce, TX 77529. (Derald.Harp@tamuc.edu)
- 16) **Plants with Potential: A New LSU AgCenter Ornamental Plant Material Awareness Program.** Jason Stagg*, Allen Owings and Gina Hebert, LSU AgCenter, Hammond Research Station, 21549 Old Covington Highway, Hammond, LA 70403. (jstagg@agcenter.lsu.edu)
- 17) **Postemergence control of *Pilea microphylla* (Artillery weed) in container nursery production.** S. Chris Marble* and Annette Chandler, Mid-Florida Research and Education Center, IFAS, University of Florida, 2725 S. Binion Rd., Apopka, FL 32703 (marblesc@ufl.edu)
- 18) **Stem Cutting Propagation of Aromi Series Deciduous Azaleas.** Heath Gober, Joe Eakes, Amy Wright*, and Raymond Kessler, Department of Horticulture, Auburn University, Auburn, AL 36849. (awright@auburn.edu)
- 19) **Tolerance of Three Native Herbaceous Perennials to Repeated Short-Interval Flooding.** Jennifer Morash, Amy Wright*, and Raymond Kessler, Department of Horticulture, Auburn University, Auburn, AL 36849 (awright@auburn.edu)

Fruit

- 20UG) **The effects of shade on primocane fruiting blackberries in the field.** Olivia C. Caillouet*, Curt C. Rom, 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72704. (occaillo@uark.edu)
- 21) **Identification of Sugars and Acids in Arkansas Blackberry Genotypes that Impact Sensory Perception.** Daniela M. Segantini^{1*}, Renee T. Threlfall², John R. Clark¹, Luke R. Howard², Cindi R. Brownmiller², ¹1316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²2650 North Young Avenue Institute of Food Science and Engineering, University of Arkansas

Fayetteville, AR 72704.
(dmataseg@uark.edu)

- 22UG) Variation of Disease Symptoms Expression among Apple Genotypes to the Bacterial Disease Fireblight, *Erwinia amylovora*.** Khoa Thai^{1*}, Julia Stover², Curt R. Rom³, Luke R. Freeman³, and Jason McAfee³, ¹203 Engineering Hall, Department of Biological and Agricultural Engineering, ²217A Plant Science, Department of Plant Pathology, ³316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (kthai@email.uark.edu)
- 23) Assessing Financial Risks to Blackberry Production with an Interactive Decision Support Tool.** Jennie Popp^{1*}, Hector G. Rodriguez¹, Curt Rom², Heather Friedrich², Carolyn Lewis³ and Leah English¹. ¹ 217 Agriculture Building, Department of Agricultural Economics and Agribusiness University of Arkansas, Fayetteville, AR 72701, ² 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ³ 319 Agriculture Building, Department of Entomology, University of Arkansas, Fayetteville, AR 72701. (jhpopp@uark.edu)
- 24UG) Evaluating Salt Exclusion in 'Blanc Du Bois' and 'Black Spanish' Grapes.** Sonia Sandoval* and Justin Scheiner, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133. (sonypony8@tamu.edu)
- 25) Examining Fiber and Seed Content of Southern Highbush and Rabbiteye Blueberry Genotypes Grown in Georgia.** Rachel A. Itle* and D. Scott NeSmith, Department of Horticulture, University of Georgia, 1109 Experiment Street, Griffin, GA 30223. (ritle@uga.edu)
- 26) Interactive Sustainable Budget: A Tool for Developing Sound Raspberry Business Plans.** Hector G. Rodriguez^{1*}, Jennie Popp¹, Curt Rom², Heather Friedrich², and Carolyn Lewis³, ¹ 217 Agriculture Building, University of Arkansas, Fayetteville, AR 72701, ² 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ³ 319 Department of Entomology, Agriculture Building, University of Arkansas, Fayetteville, AR 72701. (hrodrig@uark.edu)
- 27UG) Evaluation of Harvest Time and Storage Temperature on Postharvest Incidence of Red Drupelet Reversion Development and Firmness on Blackberry (*Rubus L. subgenus Rubus Watson*).** Jack E. McCoy*, John R. Clark, Alejandra A. Salgado, and Andrew Jecmen, 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (jem027@uark.edu)
- 28) Jujube (*Ziziphus jujuba* Mill) establishment and 2 year performance in Mississippi.** Ramón A. Arancibia^{1*}, Jeffrey L. Main² and Williams B. Evans³, ¹Eastern Shore AREC, Virginia Tech, Painter, VA 23420, ²Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS 38863, ³ Truck Crops Branch Experiment Station, Mississippi State University, Crystal Spring, MS 39059. (raran@vt.edu)
- 29) New Large Fruited Rabbiteye Blueberry Varieties from The University of Georgia.** D. Scott NeSmith, Department of Horticulture, University of Georgia, 1109 Experiment Street, Griffin, GA 30223. (snesmith@uga.edu)
- 30G) Marketability of Non-Astringent Persimmon to American Consumers.** Robert A. Mirabello*, Charles E. Johnson and Don R. Labonte. 104 M.B. Sturgis Hall, School of Plant, Environmental and Soil Sciences, Louisiana State University, Baton Rouge, LA 70803. (rmirabello@agcenter.lsu.edu)
- 31) Optimizing Fertilization of Young Peach Trees: Year 1.** Juan Carlos Melgar*, Department of Agriculture and Environmental Sciences, Clemson University, Clemson, SC 29634. (jmelgar@clemson.edu)
- 32) Performance of Recently Released Rabbiteye Blueberry (*Vaccinium ashei*) Cultivars and Selections in North Alabama.** Elina Coneva*, E. Vinson, and Arnold Caylor, Department of Horticulture, Auburn University, Auburn, AL 36849. (edc0001@auburn.edu)
- 33UG) Post-Harvest Quality Comparison of High Tunnel and Field-Grown 'Natchez' Blackberry.** Kenneth Buck*, Jason McAfee, and Luke R. Freeman and Curt R. Rom, 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (kb013@email.uark.edu)

Vegetables

- 34) Companion Planting with White Yarrow or Feverfew Inconsistently Affects Squash Bug Populations on Summer Squash.** Brian A. Kahn^{1*}, Eric J. Rebek², Lynn P. Brandenberger¹, and Keith Reed³, ¹358 Agricultural Hall, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078, ²127 NRC, Department of Entomology and Plant Pathology, Oklahoma State University, Stillwater, OK 74078, ³315 W. Sixth, Suite 103, OSU Cooperative Extension Service – Payne County, Stillwater, OK 74074. (brian.kahn@okstate.edu)
- 35) Fertilizer Solution Electrical Conductivity Affects Development and Post-Harvest Performance of Hydroponically-Grown Butterhead Lettuce.** Hannah R. Quick* and Michael R. Evans, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (hrquick@uark.edu)
- 36) Improving soils with winter cover crops before planting pumpkin (Cucurbita pepo).** Lynn Brandenberger* and Lynda Carrier, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078-6027. (lynn.brandenberger@okstate.edu)
- 37UG) Evaluation of Lettuce Cultivars for Use in Hydroponic Greenhouse Crop Production.** R. Preston Smith* and Michael R. Evans, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (rs009@uark.edu)
- 38) Louisiana Sugarcane Bagasse as Natural Mulch for Yellow Squash Production.** Charles L. Webber III^{1*}, Paul M. White Jr.¹, Eric C. Petrie¹, James W. Shreffler², and Merritt J. Taylor³, ¹USDA, Agriculture Research Service, Sugarcane Research Unit, Houma, LA 70360, ²Oklahoma State University, Division of Agriculture Sciences and Natural Resources, Oklahoma Cooperative Extension Service, Durant, OK 74702, ³Oklahoma State University, Division of Agriculture Sciences and Natural Resources, Department of Agricultural Economics, Durant, OK 74702. (Chuck.Webber@ars.usda.gov)
- 39) Quantifying buyer preferences for greenhouse-grown lettuce.** Sydney Holmes*, Daniel Wells, Jeremy Pickens, and Joe Kemble, Department of Horticulture, Auburn University, Auburn, AL 36849. (sch0015@auburn.edu)
- 40) Season Extension of Bok Choy in Organically Managed High Tunnels in North Carolina.** Sanjun Gu*, John E. Beck, Joseph A. Moore, and Gena S. Moore, Cooperative Extension Program, North Carolina A&T State University, Greensboro, NC 27410. (sgu@ncat.edu)
- 41G) High Tunnel Systems for Spring Organic Lettuce Production in Georgia.** Theekshana C. Jayalath^{1*}, Elizabeth Little², George E. Boyhan¹, Robert Tate¹ and Suzanne O'Connell¹, ¹1111 Plant Sciences Bldg., Department of Horticulture, University of Georgia, Athens, GA 30602, ²2105 Miller Plant Sci. Bldg., Department of Plant Pathology, University of Georgia, Athens, GA 30602. (soco@uga.edu)
- 42) Selecting Suitable Romaine and Leaf Lettuce Varieties for South Georgia.** Timothy Coolong*, Department of Horticulture, The University of Georgia, Tifton, GA 31793. (tcoolong@uga.edu)
- 43) The Effect of Fertilizer Timing and Concentration on the Rate of Development of 'Rex' Lettuce Seedlings for Hydroponic Production.** Reetinder K. Gill and Michael R. Evans*, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (revans@uark.edu)
- 44) The Long and Short of It: Sugarcane Planting Systems (Whole Stalks, Billets, and Single Nodes).** Charles L. Webber III^{1*}, Paul M. White Jr.¹, Jeffrey W. Hoy², Kenneth Gravois³, Sonny Viator⁴, Herman Waguespack Jr.⁵, Ryan P. Viator⁶, and James W. Shreffler⁷, ¹USDA, Agriculture Research Service, Sugarcane Research Unit, Houma, LA 70360, ²Department of Plant Pathology and Crop Physiology, Louisiana State University, Baton Rouge, LA 70803, ³Sugar Research Station, Louisiana State University, St. Gabriel, LA 70776, ⁴Iberia Research Station, Louisiana State University, Jeanerette, LA 70544, ⁵American Sugar Cane League, Thibodaux, LA 70301, ⁶Calvin Viator, Ph.D. and Associates, LLC, Houma, LA 70360, ⁷Oklahoma State University, Division of Agriculture Sciences and Natural Resources, Oklahoma Cooperative Extension Service, Durant, OK 74702. (Chuck.Webber@ars.usda.gov)

45UG) Inheritance and Characterization of Phenotypic Traits In Sweetpotato (*Ipomoea batatas* (L.) Lam.) Andrew Barocco* and Robert Mirabello, School of Plant, Environmental and Soil Sciences, Louisiana State University, Baton Rouge, LA 70803 – 2120. (abaroc3@lsu.edu)

46) Timing and Cultivars for Fall Cilantro Plantings in Mississippi. T.C. Barickman¹ and W.B. Evans^{2*}. ¹North Mississippi Research and Extension Center, P.O. Box 1690, Verona, MS 38879 and ²Truck Crops Branch, P.O. Box 231, Crystal Springs, MS 39059. (bill.evans@msstate.edu)

47) Vegetable Seedling Production with Sugarcane Bagasse Ash. Charles L. Webber III^{1*}, Paul M. White Jr.¹, Eric C. Petrie¹, James W. Shrefler², and Merritt J. Taylor³, ¹USDA, Agriculture Research Service, Sugarcane Research Unit, Houma, LA 70360, ²Oklahoma State University, Division of Agriculture Sciences and Natural Resources, Oklahoma Cooperative Extension Service, Durant, OK 74702, ³Oklahoma State University, Division of Agriculture Sciences and Natural Resources, Department of Agricultural Economics, Durant, OK 74702. (Chuck.Webber@ars.usda.gov)

48) Winter Organic Broccoli and Cauliflower under High Tunnels in Georgia. Suzanne O'Connell* and Robert Tate, 1111 Miller Plant Science Building, Department of Horticulture, University of Georgia, Athens, GA 30602 (soco@uga.edu).

Addendum

49G) Bitter Melon (*Momordica charantia*): A Potential New Crop for Texas to Reduce Risk from Diabetes. Jose L. Perez*, G.K. Jayaprakasha, Kevin Crosby, and Bhimanagouda S. Patil. Vegetable and Fruit Improvement Center, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77845-2119. (ppmd_4@tamu.edu)

50G) Stability of Dietary Nitrate in Vegetable Juices During Storage at Different Temperatures. Karen A. Corleto*, G.K. Jayaprakasha, Bhimanagouda S. Patil, and Jashbir Singh. Vegetable and Fruit Improvement Center, Department of Horticultural Sciences, Texas A&M University,

College Station, TX 77845-2119. (karen_c91@tamu.edu)

51G) Implementing Marker-Assisted Selection (MAS) in the University of Arkansas Peach and Nectarine Breeding Program. Terrence J. Frett*, John R. Clark, and Andrew Jecman, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, USA (tjfrett@email.uark.edu).

Sunday, February 7, 2016

ACB BUSINESS MEETING

Room: Rio Grande Ballroom East

Time: 9:00 - 11:00

Presiding: Kaitlin Ziesmer, President

ANNUAL BUSINESS MEETING AND AWARDS PROGRAM

Room: Rio Grande Ballroom East

Time: 11:00 – 12:30

Presiding: Gary Bachman, President

POSTER VIEWING & TAKE-DOWN

Room: Regency Center West

Presiding: Michael Maurer, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: (maurerma@sfasu.edu).

Poster Viewing: Sunday 8:00-10:45

Poster Take-down: Sunday, 1:00 – 3:00

SECTION TITLES

VEGETABLE CROPS SECTION

Room: Navarro

Presiding: Casey Barickman, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: cb2407@msstate.edu

8:00 Alternative substrate for soilless production of vegetables in protected agriculture. Alexis Amorese and Shubin K. Saha*, Department of Horticulture, University of Kentucky, Ag Science Building North, N-322C, Lexington, KY 40546-0091. (Shubin.saha@uky.edu).

8:15 Introgressing novel traits into pepper from *Capsicum baccatum*. Kevin Crosby^{1*}, Stephen Perry¹, Daniel Leskovar², John Jifon³, ¹Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133, ²Texas A&M AgriLife Research and Extension Center, Uvalde, TX 77801, ³Texas A&M AgriLife Research and Extension Center, Weslaco, TX 78596. (k-crosby@tmau.edu)

8:30 Screening Potential Cucurbit Rootstocks for Resistance to Southern Root-knot Nematode (*Meloidogyne incognita*). Cody L. Smith^{1*}, Joshua H. Freeman¹, Nancy Kokalis-Burrelle², and William P. Wechter³, ¹North Florida Research and Education Center, 155 Research Road, Quincy, FL 32351, ²U.S. Horticultural Research Laboratory, 2001 South Rock Road, Fort Pierce, FL 34945, ³U.S. Vegetable Laboratory, 2700 Savannah Highway, Charleston, SC 29414. (joshuafr@ufl.edu).

8:45 Performance of Sequentially Transplanted Bell Pepper in Organically Managed High Tunnels in Hardiness Zone 7&8. Sanjun Gu*, John E. Beck, Joseph A. Moore, and Gena S. Moore, Cooperative Extension Program, North Carolina A&T State University, Greensboro, NC 27410. (sgu@ncat.edu)

9:00 Aggregate Depth and Irrigation Frequency Affects 'Rex' Lettuce Development in a Shallow Aggregate Ebb-and-Flood Production System. Joseph C. Chidiac* and

Michael R. Evans, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (jchidiac@uark.edu)

9:15 Break

9:30 First and Second Cut Kale Trials in Georgia. Timothy Coolong*, Department of Horticulture, The University of Georgia, Tifton, GA 31793. (tcoolong@uga.edu)

9:45 Evaluation of Organic Cool Season Vegetable Rotations in Georgia. George E. Boyhan^{1*}, Julia W. Gaskin², Elizabeth L. Little³, and Esendugue G. Fonsah⁴, ¹1111 Miller Plant Science Building, Department of Horticulture, ²4115B Miller Plant Science Building, Crop & Soil Science Department, ³2105 Miller Plant Science Building, Department of Plant Pathology, University of Georgia, Athens, GA 30602, ⁴2360 Rainwater Road, Department of Agricultural & Applied Economics, University of Georgia, Tifton, GA 31793 (gboyhan@uga.edu)

10:00 High Tunnel and Field Vegetable Cultivar Trial Updates from Mississippi. W.B. Evans*, Truck Crops Branch, Mississippi State University, P.O. Box 231 Crystal Springs, Mississippi 39059. (bill.evans@msstate.edu)

10:15 Tomato Responses to Broiler Litter Fertilizer. W.B. Evans*, Truck Crops Branch, Mississippi State University, P.O. Box 231, Crystal Springs, Mississippi 39059. (bill.evans@msstate.edu)

10:30 Quantifying Nitrate Levels in Aquaponic Water and Lettuce (*Lactuca sativa* L.) Leaves Grown under Two Feeding Regimens. Joseph G. Masabni*, Overton Research and Extension Center, Texas A&M University, Overton, TX 75684. (jmasabni@tamu.edu)

10:45 Comparison of Grafted Versus Non-grafted Organic Watermelon Yield and Quality within an Enhanced Native Pollinator Habitat. Brian K. Ward^{1*}, Richard L. Hassell¹, Mimi M. Jenkins¹, B. Merle Shepard¹ and Amnon Levi², ¹Department of Agricultural and Environmental Sciences, Clemson University Coastal Research and Education Center., 2700 Savannah Hwy., Charleston, SC 29414, ²USDA-ARS US Vegetable Lab., 2700 Savannah Hwy., Charleston, SC 29414. (bw@clemson.edu)

FLORICULTURE, ORNAMENALS AND TURF SECTION

Room: Bowie AB

Presiding: MengMeng Gu, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: mgu@tamu.edu

- 8:00 Biosolids Influence Growth and Quality in Field-grown Kale, Petunia, Dianthus, and Counting the costs: Developing a tool to help ornamental growers understand the costs and benefits of water recycling systems at their operation.** John Majsztrik^{1*}, Dan Hitchcock², Saurav Kumar³, David Sample⁴, and Sarah White¹. ¹Agricultural and Environmental Sciences, E-143 Poole Ag Center, Clemson University, Clemson, SC 29634. ²Baruch Institute of Coastal Ecology and Forest Science, P.O. Box 596, Clemson University, Georgetown, SC 29442. ³Occoquan Watershed Monitoring Laboratory, 9408 Prince William St., Manassas, VA 20110. ⁴Biological Systems Engineering, Hampton Roads Ag. Research and Extension Center, 1444 Diamond Springs Rd., Virginia Beach, VA 23455. jmajsz@clmson.edu
- 8:15 Crapemyrtle bark scale monitoring at College Station, TX.** Xiaoya Cai, Haijie Dou*, and Mengmeng Gu, Department of Horticultural Sciences, Texas A&M AgriLife Extension Service, College Station, TX 77843. (mgu@tamu.edu)
- 8:30 Determination and Validation of Integrated Nutrient Diagnostic Norms for Greenhouse Rose Crops.** J.J. Franco-Hermida¹, J.M. Guzman-Palomino², and R.I. Cabrera^{3*}, ¹Depto.Tecnico, GR. Chia S.A., Colombia, ²Depto. Agronomia, Universidad de Almeria, Spain, ³Dept. Plant Biology & Pathology, Rutgers University, Bridgeton, NJ 08302. (cabrera@aesop.rutgers.edu)
- 8:45 Gas Exchange Response to Leaf Excision for Two Field-grown Quercus Species.** Thayne Montague* and Cynthia McKenney. Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409-2122. (thayne.montague@ttu.edu)

9:00 Genetic Diversity of a Range of *Taxodium distichum* Genotypes and Cultivars Based on ISSR and SSR Analysis. Yuhong Zheng^{1*}, David L. Creech¹, and Bea Clack², ¹Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, TX 75962, ²College of Science and Mathematics, Stephen F. Austin State University, Nacogdoches, TX 75962. (zhengy1@sfasu.edu)

9:15 Break

9:30 Growing Roses in the Bayou State – Researching, Promoting, Trialing. Allen Owings*, LSU AgCenter, Hammond Research Station, 21549 Old Covington Highway, Hammond, LA 70403. (aowings@agcenter.lsu.edu)

9:45 Highlights of New Bedding Plant Trials – 2015. Allen Owings*, Jason Stagg and Gina Hebert, LSU AgCenter, Hammond Research Station, 21549 Old Covington Highway, Hammond, LA 70403. (aowings@agcenter.lsu.edu)

10:00 Performance of Black Diamond Crepe Myrtles in North Texas. Derald A. Harp and Mariah McPherson. School of Agriculture. Texas A&M University – Commerce, Commerce, TX 77529. (Derald.Harp@tamuc.edu)

10:15 Reducing Surface Runoff Losses of Atrazine from Centipedegrass (*Eremochloa ophiuroides* [Munro] Hack.) Kim Pope, Jeffrey Beasley¹, Brian Leblanc, and Ron Strahan, School of Plant, Environmental, and Soil Sciences, LSU Agricultural Center, Baton Rouge, La 70803.

FRUIT CROPS SECTION

Room: Maverick A

Presiding: Elina Coneva, Chair

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: edc0001@auburn.edu

8:00 Application of Marker-Assisted Breeding in the University of Arkansas Peach [*Prunus persica* (L.) Batsch] Breeding Program Targeting the Major Locus for Fruit Acidity. Alejandra A. Salgado¹, John R. Clark^{1*}, Terrence J. Frett¹, Paul J. Sandefur²,

and Andrew Jecmen¹. 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²219D Johnson Hall, Department of Horticulture, Washington State University, Pullman, WA 99164. (asalgado@uark.edu)

- 8:15 Consumer attitudes towards genetic engineering in muscadine grapes.** A. Edenbrandt¹, L. House^{2*}, M. Olmstead³, Z. Gao², and D. Gray⁴. ¹Department of Food and Resource Economics, University of Copenhagen, Denmark, ²Food and Resource Economics Department, University of Florida, Gainesville, FL 32611, ³Horticultural Sciences Department, University of Florida, Gainesville, FL 32611, ⁴Horticultural Sciences Department, University of Florida, Mid-Florida Research and Education Center, Apopka, FL, 32703. (lhouse@ufl.edu)
- 8:30 Evaluation of Selected Fire Blight (*Erwinia amylovora*) Resistant Apple Rootstocks for Alabama.** Elina Coneva* and James Pitts, Department of Horticulture, Auburn University, Auburn, AL 36849. (edc0001@auburn.edu)
- 8:45 Evaluation of Three Table Grape Cultivars under High Tunnel and Three Training Systems.** M. Elena Garcia¹, D. T. Johnson², D. A. Dickey¹, and S. Altman¹. ¹Department of Horticulture. ²Entomology Department. University of Arkansas, Fayetteville, AR 72701 (megarcia@uark.edu).
- 9:00 Break**
- 9:15 Golden Kiwi, *Actinidia chinensis*, Evaluation at SFA Gardens and Opportunities for Commercialization.** David Creech*, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, TX 75962-3000. (dcreech@sfasu.edu)
- 9:30 Growing Strawberries in High Tunnels: Five Years of Lessons Learned.** M. Elena Garcia¹, D. T. Johnson², D. A. Dickey¹, and M. McGovern¹. ¹Department of Horticulture. ²Entomology Department. University of Arkansas, Fayetteville, AR 72701 (megarcia@uark.edu).
- 9:45 Method to measure drought tolerance of Rabbiteye (*Vaccinium ashei*) and Southern highbush (*Vaccinium corymbosum* X) blueberry cultivars.** Donna Marshall-Shaw,

Stephen Stringer and Hamidou Sakhanokho. Thad Cochran Southern Horticultural Laboratory, USDA-ARS. Poplarville, MS 39470. (Donna.Marshall@ars.usda.gov)

- 10:00 Phenology, Physiology, and Fruit Characteristics of Pierce's Disease Resistant *Vitis vinifera* Selections in Alabama.** Andrej Svyantek*, Elina Coneva, J. Raymond Kessler, James D. Spiers, and Edgar Vinson, Department of Horticulture, Auburn University, Auburn, AL 36849. (aws0006@auburn.edu)

- 10:15 Phenotypic and Molecular Analysis of Black Raspberry Plant and Fruit Traits in the Southern US.** Christine Bradish^{1*}, Jill M. Bushakra², M. Dossett³, N. Bassil², C. Finn⁴, P. Perkins-Veazie⁵, G. Fernandez¹, ¹ Department of Horticultural Science, North Carolina State University, Raleigh, NC, USA, ²United States Department of Agriculture – Agricultural Research Service (USDA-ARS) – National Clonal Germplasm Repository, Corvallis, OR, USA, ³B.C. Blueberry Council (in partnership with Agriculture and Agri-Food Canada), Agassiz, B.C., Canada, ⁴USDA-ARS-Horticultural Crops Research Unit, Corvallis, OR, USA, ⁵NC State University Plants for Human Health Institute, Kannapolis, NC, USA. (cmbradis@ncsu.edu)

POSTHARVEST AND BIOTECHNOLOGY SECTION

- Room:** Directors
Presiding: Penny Perkins-Veazie, Chair
Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: penelope_perkins@ncsu.edu.
- 8:00 Fresh-Market Attributes Impacted by Post-harvest Storage of Arkansas Blackberry Genotypes.** Daniela M. Segantini^{1*}, Renee T. Threlfall², John R. Clark¹, ¹1316 Plant Science, Department of Horticulture,

University of Arkansas, Fayetteville, AR 72701, ²2650 North Young Avenue Institute of Food Science and Engineering, University of Arkansas Fayetteville, AR 72704. (dmataseg@uark.edu)

Arkansas, Fayetteville, AR 72701. (asalgado@uark.edu)

- 8:15 Small Scale Pomace Handling Systems for Value Added Product Generation from Grape Winery Waste.** Niels Maness^{1*}, Neha Thunga¹, Govinda Sapkota¹, Donna Chrz¹ and Susan Boehrer^{2,1} Department of Horticulture and Landscape Architecture, 358 Ag. Hall, Oklahoma State University, Stillwater, OK 74078, ²Redbud Farms, Washington, OK 73093 (niels.maness@okstate.edu)
- 8:30 Stable Pigments For Muscadine: What Components Will Slow Wine And Juice Browning?** Penelope Perkins-Veazie^{1*}, Guoying Ma¹, Patrick Conner², John R. Clark³, James Ballington⁴ Plants for Human Health Institute, Department of Horticultural Sciences, North Carolina State University, 600 Laureate Way, Kannapolis NC 28081, ²24605 Research Way University of Georgia, Tifton, GA 31793, ³1316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ⁴Department of Horticultural Sciences, North Carolina State University, Raleigh, NC 27695 (Penelope_perkins@ncsu.edu)
- 8:45 Value Added Products From Watermelon: Watermelon Fries to Sunscreen.** Penelope Perkins-Veazie^{*}, Plants for Human Health Institute, Department of Horticultural Sciences, North Carolina State University, 600 Laureate Way, Kannapolis NC 28081 (Penelope_perkins@ncsu.edu)
- 9:00 Watermelon as a Means to Boost Citrulline in a Rice-Based Diet in Senegal.** Penelope Perkins-Veazie^{1*}, Mamadou Sadj², Ndèye Fatou Ndiaye², Guoying Ma^{2,1} Plants for Human Health Institute, Department of Horticultural Sciences, North Carolina State University, 600 Laureate Way, Kannapolis NC 28081, ²Institut de Technologie Alimentaire, Route des Pères Maristes, Hann, Dakar BP 2765, Senegal (Penelope_perkins@ncsu.edu)
- 9:15 Crispy Blackberry Fruits: Their Morphological Components and Postharvest Potential.** Alejandra A. Salgado and John R. Clark^{*}, 316 Plant Science, Department of Horticulture, University of

ANNUAL BUSINESS MEETING AND AWARDS PROGRAM

Room: Rio Grande Ballroom East
Time: 11:00 – 12:30
Presiding: Gary Bachman, President

SAAS Business Meeting

Room: Rio Grand Ballroom East
Time: 4:00 PM–4:15 PM

SAAS Social

Room: Rio Grand Ballroom Foyer
Time: 4:15 PM – 5:00 PM

WORKING GROUPS

(Contact Chairs for Agenda and order of presentations if not given)

National Sweetpotato Collaborators

Presiding: Ken Pecota, Chair

Friday: 8:00 am – 5:00 pm

Saturday: 8:00 am – 5:00 pm

Room: Live Oak

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: ken_pecota@ncsu.edu.

Root knot nematode (RKN) management in sweetpotatoes with Nimitz and Dominus. Scott Stoddard^{1*}, Antoon Ploeg², Chris Leon³, ¹2145 Wardrobe Av., UC Cooperative Extension, Merced, CA, 95341, ²2240A Spieth Hall, Department of Nematology, UC Riverside, Riverside, CA 92521, ³Isagro-USA, Inc., 430 Davis Dr, Suite 240, Morrisville, NC 27560. (csstoddard@ucanr.edu)

Sweetpotato Growth, Developmental, Physiological, and Storage Root Bulking Responses to Mid- and Late-Season Soil Moisture Deficits. K. Raja Reddy* and Bandara Gajanayake, Department of Plant and Soil Sciences, 117 Dorman Hall, Box 9555, Mississippi State University, Mississippi State, MS 39762. (krreddy@pss.msstate.edu)

Bulk Piling of Sweetpotatoes for Short Term Storage. Justin Macialek* and Mike Boyette, Biological & Agricultural Engineering Department, NC State University, Raleigh, NC 27695. (jamacial@ncsu.edu)

Potyvirus Re-infection During Virus-tested Sweetpotato Seed Production in Louisiana. Christopher A. Clark^{*1} and Tara P. Smith². ¹Department of Plant Pathology & Crop Physiology, LSU, Baton Rouge, LA 70803 and ²Sweet Potato Research Station, Louisiana State University Agricultural Center, Chase, LA 71324. (CClark@agcenter.lsu.edu)

Evaluation of Various Insecticides Regimes for Control of Fall Armyworm in Mississippi Sweetpotato Production, 2015. Larry Adams* and Chris Johnson, USDA-ARS, SIMRU, Stoneville, MS 38776. (larry.adams@ars.usda.gov)

Chemical and Alternative Control Options for

Managing Soft Rot and Black Rot of Sweetpotato. Andrew Scruggs* and Lina Quesada-Ocampo, Department of Plant Pathology, North Carolina State University, Raleigh, NC 27695. (acscrugg@ncsu.edu)

Current status and future direction of sweetpotato research at USVL. Livy Williams*, Phillip A. Wadl, and D. Michael Jackson. USDA-ARS, US Vegetable Laboratory, 2700 Savannah Highway, Charleston, SC 29414. (livy.williams@ars.usda.gov)

Influence of growth retardant and cultivars on secondary metabolites profile in sweet potato grown under hydroponic system in greenhouse conditions. Damerius Johnson*, Victor Njiti, Qun Xia, Ananda K Nanjundaswamy and Franklin Chukwuma, Alcorn State University, Lorman, MS 39096. (vicnji@alcorn.edu)

Developing *Bacillus subtilis* probiotic feed supplement feed supplement from Sweetpotato-soybean meal fermentation. Angela, Jackson*, Ananda K Nanjundaswamy, Victor Njiti, Xia, Qun, and Franklin Chukwuma, Alcorn State University, Lorman, MS 39096. (ananda@alcorn.edu)

Sweet potato as a feedstock for bio-oil production using oleaginous yeast fermentation Ananda K Nanjundaswamy*, Angela, Jackson, Amber Jones, Victor Njiti, Xia, Qun, and Franklin Chukwuma, Alcorn State University, Lorman, MS 39096. (ananda@alcorn.edu)

Compositional Characteristics of Principal U.S. Sweetpotato Cultivars and Genotypes. David H. Picha* and Mary S. Bowen, School of Plant, Environmental and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803. (dpicha@agcenter.lsu.edu)

Variation in sweetpotato root architecture response to nematode infection. Arthur Villordon^{1*} and Christopher Clark², ¹LSU Agricultural Center Sweet Potato Research Station, Chase, LA 71324; ²LSU AgCenter Department of Plant Pathology and Crop Physiology, Baton Rouge, LA 70803. (avillordon@agcenter.lsu.edu)

Lost in translation? Exploring the presumptive association between arbuscular mycorrhizae-phosphorus interaction and some root rotting pathogens. Arthur Villordon^{1*}, Don LaBonte² and Christopher Clark³, ¹LSU Agricultural Center Sweet Potato Research Station, Chase, LA 71324, ²LSU AgCenter School of Plant, Environmental, and Soil Science, Baton Rouge, LA 70803; ³LSU AgCenter Department of Plant Pathology and Crop Physiology,

Baton Rouge, LA 70803.
(avillordon@agcenter.lsu.edu)

Sweetpotato Vine Puller-Chopper: A transition from prototype to a semi-commercial unit. Anirudh Akula*, J.A. Macialek and M.D. Boyette, Department of Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC 27695. (aakula@ncsu.edu)

Evaluating Linuron for Weed Control and Sweetpotato (*Ipomoea batatas*) Crop Response. Lauren L. Barber^{1*}, Mark W. Shankle², Trevor F. Garrett², and Stephen L. Meyers², ¹Plant and Soil Sciences, Mississippi State University, Mississippi State, 39759, ²Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS, 38863. (llb383@msstate.edu)

Method Development and Assessment of Plastic Mulches for Sweet Potato Bedding Systems. Jason K. Ward* and J.W. Lowe, Agricultural and Biological Engineering, Mississippi State University, Mississippi State, MS 39762. (jward@abe.msstate.edu)

Development of transgenic sweetpotato with multiple virus resistance in US. David Henderson*, Chunquan Zhang, Victor Njiti, Yan Meng, Alcorn State University, Lorman, MS 39096. (ymeng@alcorn.edu)

Sulfur Fertilization in Mississippi Sweetpotatoes. Jeffrey L. Main, Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS 38863. (jmain@ra.msstate.edu)

Insecticide Management of the Sugarcane Beetle and other Soil Insects in Sweetpotato in Louisiana. T.P. Smith^{*1}, J. Beuzelin², T.F. Arnold¹ and D. May². ¹LSU Agricultural Center Sweet Potato Research Station, Chase, LA 71324. ²LSU Agricultural Center Dean Lee Research Station, Alexandria, LA 71302. (tsmith@agcenter.lsu.edu)

Update on the Genomic Tools for Sweetpotato Improvement Project. G. Craig Yencho, Department of Horticultural Science, NC State University, Raleigh, NC 27695. (craig_yencho@ncsu.edu)

Sweetpotato yield in response to Timac fertilization and biostimulant on Covington Sweetpotatoes. *Jonathan R. Schultheis* and William B. Thompson, Department of Horticultural Science, North Carolina State University, Raleigh, NC27695-7609 (jonathan_schultheis@ncsu.edu)

Developing agronomic best practices for sweet

potatoes under Canadian growing conditions. Melanie Filotas¹, Cathy Bakker² and Mary Ruth McDonald². ¹Ontario Ministry of Agriculture, Food and Rural Affairs, Simcoe Resource Centre, Simcoe Ontario, N3Y 4K6, ²Department of Plant Agriculture, University of Guelph, Guelph, Ontario, N1G 2W1 (Melanie.Filotas@ontario.ca)

Saponins in sweetpotato varieties grown in North Carolina: an exploratory study. Ying Feng¹, Rong Reynolds² and Van-Den Truong^{*2}, ¹College of Food Science, Shenyang Agricultural University, Shenyang, China ; ²USDA-ARS, SAA Food Science Research Unit, Department of Food, Bioprocessing and Nutrition Sciences, North Carolina State University, Raleigh, NC 27695 (Den.Truong@ARS.USDA.GOV)

Comparison of three color combinations of light-emitting diode, and ambient light treatments for sweetpotatoes (*Ipomoea batatas*) grown in greenhouse conditions. T. F. Arnold^{1*}, A. Q. Villordon¹, T. P. Smith¹, and C. A. Clark². ¹LSU AgCenter Sweet Potato Research Station, Chase, LA 71324, ²LSU AgCenter School of Plant Environmental and Soil Sciences, Baton Rouge, LA 70803. (TArnold@agcenter.lsu.edu)

Overview of Vineland's Sweet Potato Breeding Program. Valerio Primomo¹, Amy Bowen¹, Travis Banks¹, David Liscombe¹, and Don LaBonte². ¹Vineland Research and Innovation Centre, Vineland Station, Ontario, Canada, LOR 2E0; School of Plant, Environmental, and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803. (valerio.primomo@vinelandresearch.com)

Poster titles

Effect of Microbial formulation on sweetpotato growth and yield, and insect damage to the roots. T. Rashid¹, R. Luttrell², V. Njiti¹ and L. Adams², ¹Alcorn State University, Lorman, MS 39096, ²USDA-ARS, SIMRU, Stoneville, MS 38776 (trashid@alcorn.edu)

Corn Tolerance to Command Carryover in Sweetpotato (*Ipomoea batatas*). Lauren L. Barber^{1*}, Mark W. Shankle^{2*}, Dan B. Reynolds^{2*}, and Trevor F. Garrett^{2*}, ¹Plant and Soil Sciences, Mississippi State University, Mississippi State, 39759, ²Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS, 38863. (llb383@msstate.edu)

Validation of Sample Collection Methods for Salmonella Detection in Sweetpotato. Jeff Main¹,

Taejo Kim², Stephen Meyers¹, Juan Silva², ¹Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS 38863, ²Department of Food Science, Nutrition, and Health Promotion, Mississippi State University, Mississippi State, MS 39762 (stephen.meyers@msstate.edu)

Watermelon Research Group

Presiding: Shaker Kousik, Chair

Friday: 1:00 pm – 6:00 pm

Saturday: 8:00 am - 6:00 pm

Room: Llano/Pecos

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: shaker.kousik@ars.usda.gov

Friday, February 5, 2016

1:00 Welcome: Shaker Kousik, Chair, WRDVG

1:10 Introductions: All in attendance

Industry updates and presentations

1:30 Update for West Coast (AZ and CA) and Texas. Matt Kinkade*. Syngenta (matt.kinkade@syngenta.com)

1:45 Global Challenges for the Future of Watermelon Breeding. Emilio Sarria Villada*, Rijk Zwaan, Ibérica S.A. Ctra Viator-PJ.Mami, S/N 04120, Almería, España. (e.sarria@rijkwzwaan.es)

2:00 Watermelon Industry in Venezuela. Jérôme Bernier*, Monsanto Vegetable Seeds, 37437 State Highway 16, Woodland, CA, 95695, USA. (jerome.bernier@monsanto.com)

2:15 Regional Watermelon Production Updates

Florida

Carolinas

DelMarVa

Georgia

Indiana & Midwest

3:00 Variety updates from Seed Companies

3:30 Break

Variety Trial Reports:

4:00 Georgia Watermelon Variety Trial Results for 2015. Timothy Coolong*, Department of Horticulture, 2360 Rainwater Road, the University of Georgia, Tifton, GA 31793. (tcoolong@uga.edu)

4:20 2015 South Carolina Seedless Variety Trial. Gilbert Miller*, 64 Research Road, Clemson

University – EREC Blackville, SC 29817. (gmlr@clemson.edu)

4:40 Watermelon Cultivar Yield and Quality Results, North Carolina, 2015. Jonathan R. Schultheis* and William B. Thompson, Dept. Horticultural Science, North Carolina State University, 2721 Founders Drive, Raleigh, NC 27695-7609. (jonr@ncsu.edu)

5:00 Seedless Watermelon (*Citrullus lanatus*) Variety Trial for Kentucky, 2015. Shubin K. Saha^{1*} and John Walsh², ¹Department of Horticulture, University of Kentucky, Ag Science Building North, N-322C, Lexington, KY 40546-0091. ²Department of Horticulture, University of Kentucky, Horticulture Research Farm, 4321 Emmert Farm Lane, Lexington, KY 40514. (Shubin.saha@uky.edu).

5:20 Seedless Watermelon Variety Trials Conducted by University of Delaware Cooperative Extension 2015. Emmalea Ernest* and Gordon Johnson, Department of Plant and Soil Sciences, University of Delaware, Elbert N. and Ann V. Carvel Research and Education Center, 16483 County Seat Highway, Georgetown, DE 19947. (emmalea@udel.edu)

5:40 2015 South East Regional Seedless Variety Trial – NC, SC, GA, FL. Gilbert Miller^{1*}, Josh Freeman², Tim Coolong³, and Jonathan Schultheis⁴. ¹64 Research Road, Clemson University - EREC, Blackville, SC 29817. ²155 Research Road, University of Florida – NFREC, Quincy, FL 32351. ³2360 Rainwater Road, University of Georgia, Tifton, GA 31793-5766. ⁴2721 Founders Drive, Department of Horticulture Science, North Carolina State University, Raleigh, NC 27695-7609. (gmlr@clemson.edu)

6:00 Adjourn

Saturday, February 6, 2016

8:30 Day 2, Welcome and additional introductions: Shaker Kousik, Chair

Research Reports

Grafting

9:00 **Watermelon Cultivars Reaction to Grafting.** Richard L. Hassell, Clemson University Coastal Research and Education Center, Charleston, SC 29414. (rhassel@clemson.edu)

9:20 **Potential New Rootstocks for Watermelon Grafting.** Richard L. Hassell, Clemson University Coastal Research and Education Center, Charleston, SC 29414. (rhassel@clemson.edu)

9:40 **Watermelon Yield and Fruit Size Response to Grafted versus Non-grafted Transplants in Plasticulture and Bare Ground Productions Systems.** Jonathan R. Schultheis* and William B. Thompson, Dept. Horticultural Science, North Carolina State University, 2721 Founders Drive, Raleigh, NC 27695-7609. (jonr@ncsu.edu).

Pollenizers

10:00 **Influence of Pollenizer Variety on Seedless Watermelon Production and Anthracnose Severity.** Shubin K. Saha¹* and Dan Egel², ¹Department of Horticulture, University of Kentucky, Ag Science Building North, N-322C, Lexington, KY 40546-0091. ²Department of Botany and Plant Pathology, Southwest Purdue Agricultural Center, Purdue University, 4369 N. Purdue Rd, Vincennes, IN 47591. (Shubin.saha@uky.edu).

Watermelon Growth and development

10:20 **The Impact of Growth Habit, Planting Density and Weeding Regime on Watermelon Yield in an Organic System.** Suzanne Stone* and George Boyhan, Department of Horticulture, University of Georgia, Athens, GA 30605 (sstone2@uga.edu)

10:40 **Break**

11:10 **Early Watermelon Fruit Development and Hollow Heart in Triploid Watermelon.** Gordon C. Johnson*, Donald Seifrit, and Rebecca J. Carroll Department of Plant and Soil Sciences, University of Delaware, Elbert N. and Ann V. Carvel Research and Education Center, 16483 County Seat Highway, Georgetown, DE 19947. (gcjohn@udel.edu).

Biotic and Abiotic Stress

11:30 **Evaluation of Alternative Differential Lines for Identification of *Fusarium oxysporum* f. sp. *niveum* Races.** Kathryn L. Everts*, Department of Plant Science and Landscape Architecture, University of Maryland, College Park, MD 20742. (keverts@umd.edu)

11:50 **How Does Planting Date Impact Stand Loss From Fusarium Wilt in Watermelon.** Timothy Coolong¹*, Anthony Keinath², Pingsheng Ji³, and Bhabesh Dutta³. ¹Department of Horticulture, The University of Georgia, Tifton, GA 31793, ²Coastal Research and Education Center, Clemson University, Charleston, SC, ³Department of Plant Pathology, The University of Georgia, Tifton, GA 31793. (tcoolong@uga.edu)

12:10 **Evaluation of Fungicides for Management of Fusarium Wilt of Watermelon.** Nathan Miller*, Mike Adams, and Lina M. Quesada-Ocampo. North Carolina State University, Department of Plant Pathology, Raleigh, NC. (nfmille2@ncsu.edu)

12:30 **Lunch**

2:00 **Update from NWPB.** Mark Arney*. National Watermelon Promotion Board. 1321 Sundial Point Winter Springs, FL 32708. (info@watermelon.org)

2:20 **Progress Toward's Understanding the Biology of Watermelon Seed Infection by *Acidovorax citrulli*.** Bhabesh Dutta*, University of Georgia, 2360 Rainwater Road, Tifton, GA 31793. (bhabesh@uga.edu)

2:40 **Screening the Watermelon Germplasm Collection for Resistance to Bacterial Blotch at the Fruit Stage.** James D. Daley* and Todd C. Wehner Dept. Horticultural Science, North Carolina State University, Raleigh, NC. (tcwehner@gmail.com)

3:00 **Molecular Dissection of Resistance Signaling in Watermelon fruit through Metabolomics and Transcriptomic Approach.** Mihir K. Mandal¹, Shaker Kousik² and Brian Ward³. ORISE participant sponsored by U.S. Vegetable Laboratory, USDA, ARS. ²U.S. Vegetable Laboratory, USDA, ARS, 2700 Savannah Highway, Charleston, SC 29414. ³Clemson University Coastal Research and Education Center, Charleston, SC 29414. (shaker.kousik@ars.usda.gov)

3:20 **Screening Potential Cucurbit Rootstocks for Resistance to Southern Root-knot Nematode (*Meloidogyne incognita*) and Reniform Nematode (*Rotylenchulus reniformis*).** Cody L. Smith¹*, Joshua H. Freeman¹, Nancy Kokalis-Burelle², and

William P. Wechter³, ¹North Florida Research and Education Center, 155 Research Road, Quincy, FL 32351, ²U.S. Horticultural Research Laboratory, 2001 South Rock Road, Fort Pierce, FL 34945, ³U.S. Vegetable Laboratory, 2700 Savannah Highway, Charleston, SC 29414. (joshuafr@ufl.edu).

3:40 **Break**

4:10 **Managing Plant Pathogenic Nematodes in Cucurbits with Novel Non-fumigant Nematicides.** Joshua H. Freeman^{*1} and Nancy Kokalis-Burelle². ¹North Florida Research and Education Center, 155 Research Road, Quincy, FL 32351, ²U.S. Horticultural Research Laboratory, 2001 South Rock Road, Fort Pierce, FL 34945, (joshuafr@ufl.edu).

4:30 **Breadth of Resistance of USVL Developed Phytophthora Fruit Rot Resistant Germplasm Lines to *Phytophthora capsici* Isolates from Across USA.** Shaker Kousik^{1*}, Jennifer L. Ikerd¹ and Mihir K. Mandal². ¹U.S. Vegetable Laboratory, USDA, ARS, 2700 Savannah Highway, Charleston, SC 29414. ²ORISE participant sponsored by U.S. Vegetable Laboratory, USDA, ARS. (shaker.kousik@ars.usda.gov)

4:50 **Genetic relationships among *Citrullus colocynthis* accessions as viewed with high frequency oligonucleotide-targeting active gene (HFO-TAG) markers.** Amnon Levi^{1*}, Alvin Simmons¹, Laura Massey¹, John Coffey¹, Padma Nimmakayala² and Umesh K. Reddy². ¹USDA, ARS, U.S. Vegetable Laboratory, 2700 Savannah Highway, Charleston, SC 29414; ²Department of Biology, Douglass Land-grant Institute, West Virginia State University, Institute, WV 25112-1000, USA. (amnon.levi@ars.usda.gov).

5:10 **WRDG Business**
NWA Update
WRDG-Survey-Update
Hot Topics
Scientific name for citron melon-*Citrullus amarus*
CGC-Update
Website
Other topics??
2017 WRDG meeting

6:00 p.m. Adjourn

National Cowpea Improvement Association

Presiding: Blair Buckley, Chair

Saturday: 12:00 pm – 5:00 pm

Room: Medina

Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: bbuckley@agctr.lsu.edu

Association Analysis of Cowpea Bacterial Blight Resistance in USDA Cowpea Germplasm. Ainong Shi^{1*}, Blair Buckley², Beiquan Mou³, Dennis Motes¹, J. Bradley Morris⁴, Jianbing Ma¹, Haizheng Xiong¹, Jun Qin¹, Wei Yang¹, Jessica Chitwood¹, Yuejin Weng¹, Weiguo Lu¹, ¹Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²LSU AgCenter, Red River Research Station, 262 Research Station Drive, Bossier City, LA 71112, ³USDA-ARS Crop Improvement and Protection Research Unit, Salinas, CA 93905, ⁴USDA-ARS Plant Genetic Resources Conservation Unit, 1109 Experiment St., Griffin, GA 30223. (ashi@uark.edu)

Horticulture Administrators

Presiding: Wayne Mackay, Chair

(mackay@uark.edu)

Friday: 1:00 pm – 5:00 pm

Room: Mesquite

Vigna Crop Germplasm Committee

Presiding: Blair Buckley, Chair

(bbuckley@agctr.lsu.edu)

Saturday: 9:00 am – 12:00 pm

Room: Medina

Pecan Research and Extension Forum

Presiding: Lenny Wells, Chair

(lwells@uga.edu)

Friday: 8:00 am – 5:00 pm

Room: Nueces/Frio

Southern Blueberry/Small Fruit Workers

Presiding: Eric Stafne, Chair

(eric.stafne@msstate.edu)

Friday: 8:00 am – 5:00 pm

Room: Directors

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.

Submission of Abstract

File Format: Each abstracts 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

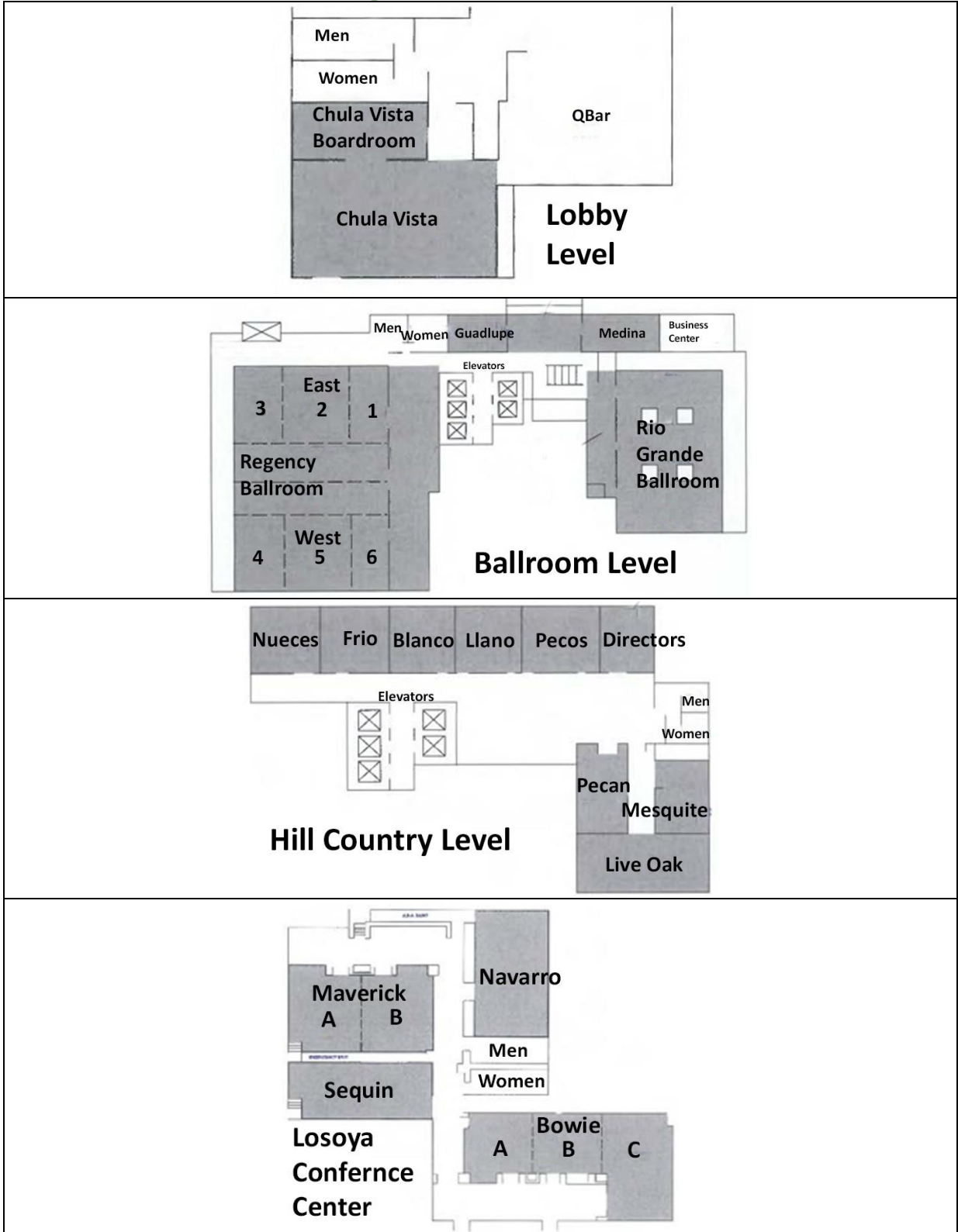
Molecular Marker-Derived Genetic Similarity Analysis of a Segregating Blackberry Population

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.

Meeting Room Locations



2016 Program at a Glance

Friday, February 5																	
5-Feb	8:00																
Hotel Lobby	7:00 open Registration																
Nueces/Frio	Pecan Research & Extension Forum																
Directors	Southern Blueberry/Small Fruit Workers																
Mesquite															Horticulture Administrators		Executive Com.
Llano/Pecos	Watermelon Research Group																
Live Oak	National Sweetpotato Collaborators																
Chula Vista	ACB Club Share and Networking								ACB Activities, Tour, Meal						ACB Mixer		
Saturday, February 6																	
Room	8:00																
Regency Ballroom Foyer	7:00 open Registration																
Regency Center West	Poster Session Set-Up								Poster Session Viewing, Authors at Posters & Judging								
Regency Ballroom Center East	Judging Contest Set-Up								J. Benton Storey Horticulture Judging Contest								
Llano/Pecos	Watermelon Research Group																
Medina	Vigna Crop Germplasm Committee								National Cowpea Improvement Association								
Live Oak	National Sweetpotato Collaborators																
Nueces/Frio	Extension Section						Education			Floriculture, Ornamen&Turf Sec.			Fruit Section				
Mesquite	Edmond UG Paper Comp.						Childers M.S. Paper Competition			Barham Ph.D. Paper Comp.							
Sunday, February 7																	
Room	8:00																
Regency Ballroom Foyer	7:00 open Registration																
Regency Center West	Poster Session Viewing								Poster Take down								
Rio Grande Ballroom East	ACB Business Meeting						Business Meeting/Awards Prog.						SAAS Business Mtg				
Navarro	Vegetable Crops Section																
Bowie AB	Floriculture, Ornamentals & Turf Section																
Maverick A	Fruit Crops Section																
Directors	PostHarvest & Biotechnology Section																



in

