

# PROGRAM



## **2015 Annual Meeting**

**January 30 - February 1, 2015**

**Atlanta, GA**

**79th Year**

**Southern Region**

**American Society for Horticultural Science**

**95th Year**

**Horticulture Section**

**Southern Association of Agricultural Scientists**

## **Southern Region ASHS 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](http://srashs.org)). The Southern Region encompasses the 14 southern states of Texas, Louisiana, Oklahoma, Arkansas, Mississippi, Georgia, Alabama, Florida, South Carolina, North Carolina, Virginia, West Virginia, Kentucky and Tennessee. Membership varies over the years from about 200 to 500 active members. Membership is composed of professors, research scientists, teachers and extension specialists from Universities, State, Federal and private research organizations, and industry. The Southern Region also contains a student section, the Association of Collegiate Branches, which is composed of student clubs from departments of horticulture and plant science across the region. The 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 paper 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**

**[Wayne Mackay](#)**

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### **President-Elect**

**[Gary Bachman](#)**

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### **Secretary-Treasurer**

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**Web Site [srashs.org](http://srashs.org) Visit It**

**PROGRAM**  
**2015 ANNUAL MEETING**  
**Southern Region**  
**American Society for Horticultural Science**  
**Atlanta, GA**  
**January 30 - February 1, 2015**  
**SPECIAL EVENTS AND SESSIONS**

**FRIDAY**

7:00 am - 6:00 pm	<b>Registration</b> Room: Hotel Lobby
8:00 am - 5:00 pm	<b>Pecan Research and Extension Forum</b> Room: Chastain C
8:00 am - 5:00 pm	<b>Southern Blueberry/Small Fruit Workers</b> Room: Chastain D
10:00 am - 1:00 pm	<b>ACB Club Share and Networking</b> Room: Chastain E
12:00 noon - 5:00 pm	<b>ACB Group Activities, Tour, Meal</b> Room: TBA at Club Share
1:00 pm - 5:00 pm	<b>Watermelon Research Group</b> Room: Chastain E
1:00 pm - 5:00 pm	<b>Horticulture Administrators</b> Room: Chastain B
5:00 pm - 6:00 pm	<b>Executive Committee Meeting</b> Room: Chastain B
5:00 approx. until	<b>ACB Mixer</b> Time, place and room TBA

**SATURDAY**

7:00 am - 6:00 pm	<b>Registration</b> Room: Chastain Terrace
8:00 am - 12:00 noon	<b>Set-up Posters</b> Room: Overlook
8:00 am - 12:00 noon	<b>J. Benton Storey Horticulture Judging Contest Setup</b> Room: Chastain 1 & 2
8:00 am - 5:00 pm	<b>Watermelon Research Group</b> Room: Chastain E
8:00 am - 9:30 am	<b>Extension and Education Section</b> Room: Chastain B
8:00 am - 9:30 am	<b>J. B. Edmond Undergraduate Student Paper Competition.</b> Room: Chastain H
9:00 am - 12:00 noon	<b>Vigna Crop Germplasm Committee</b> Room: Chastain G
9:30 am - 12:00 noon	<b>Fruit Crops Section</b> Room: Chastain C
10:00 am - 1:00 pm	<b>Norman F. Childers M.S. Student</b> Room: Chastain H
12:00 noon - 5:00 pm	<b>Poster Session Viewing</b> Room: Overlook
12:00 noon - 5:00 pm	<b>J. Benton Storey Horticulture Judging Contest</b>

Room: Chastain 1 & 2  
**1:00 pm - 5:00 pm National Cowpea Improvement Association**  
 Room: Chastain G  
**1:00 pm - 2:30 pm Floriculture, Ornamentals and Turf Section**  
 Room: Chastain C  
**2:00 pm - 4:30 pm Warren S. Barham Ph.D. Student Paper Competition**  
 Room: Chastain H

## **SUNDAY**

**7:00 am - 10:45 am Registration**  
 Room: Chastain Terrace  
**8:00 am - 10:45 pm Poster Session Viewing**  
 Room: Overlook  
**8:00 am - 10:45 am Vegetable Crops Section**  
 Room: Chastain Room 2  
**8:00 am - 10:45 am Floriculture, Ornamentals and Turf Section**  
 Room: Chastain G  
**8:00 am - 10:45 am Fruit Crops Section**  
 Room: Chastain H  
**8:00 am - 9:30 am Postharvest & Biotechnology Section**  
 Room: Chastain B  
**9:00 am - 10:45am ACB Business Meeting**  
 Room: Chastain Room 1  
**11:00 am - 12:30 pm Annual Business Meeting and Award Program**  
 Room: Chastain Room 1  
**1:00 pm - 3:00 pm Poster Session Take Down**  
 Room: Overlook  
**5:00-pm - until Super Bowl Party at the Hard Rock Cafe**

## **SAAS Program**

### **SUNDAY**

**2:30 pm - 3:30 pm SAAS Board Meeting**  
 Room: Augusta Room 1  
**4:00 pm - 4:15 pm SAAS General Business Meeting**  
 Room: Augusta Room 1  
**4:15 pm - 5:30 pm SAAS Concurrent Sessions**  
 Room: Augusta Room 1/2/3  
**5:30 pm - until Super Bowl Party**  
 Hard Rock Cafe

### **TUESDAY**

**7:00 am - 9:30 pm SAAS Board Breakfast Meeting**  
 Room: Chastain C

# SECTION TITLES

**SATURDAY, JANUARY 31, 2015**

## **J. B. EDMOND UNDERGRADUATE STUDENT PAPER COMPETITION**

**Room:** Chastain H  
**Presiding:** Perla Aguilar, President, ACB  
 Wayne Mackay, President,  
 SRASHS  
 Glen Fain, Section Chair and  
 Judging Coordinator  
**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: (gbf0002@auburn.edu)

**8:00 am –9:30 am Order of presentations determined by drawing at beginning of contest.**

**Antioxidant Activity in Marigold (*Tagetes erecta* tall) Flowers.** Shanella Green\*, Adam Zallam and James Garner, School of Agriculture, Fisheries and Human Sciences, Department of Agriculture, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601. Shanella Green (greens@uapb.edu)

**Attributes of Fresh-Market Blackberries Identified by a Trained Descriptive Panel.** Olivia S. Hines<sup>1\*</sup>, John R. Clark<sup>1</sup>, and Renee T. Threlfall<sup>2</sup>, <sup>1</sup>316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup>Institute of Food Science and Engineering, 2650 N. Young Ave., Fayetteville, AR 72704. (ohines@uark.edu)

**Effect of Production Environment and Fertilization on Growth of Juvenile *Sarracenia leucophylla*.** Connor Ryan\* and A. N. Wright, Auburn University Department of Horticulture, 101 Funchess Hall, Auburn, AL 36849 (cfr0007@auburn.edu)

**Evaluation of white skin mericlone selections of ‘Bonita’ sweetpotato [*Ipomoea batatas* (L.) Lam.].** Rion Mooneyham\* and D. La Bonte, School of Plant, Environmental, and Soil Sciences, Louisiana State University AgCenter, Baton Rouge, LA 70803. (rmoone1@tigers.lsu.edu)

**Maintaining a Way of Life: Trials and Tribulations of Farmers Market Families.** Megan M. Lankford<sup>1\*</sup>, Catherine W. Shoulders<sup>2</sup>, Curt Rom<sup>1</sup>,

& Jennie Popp<sup>3</sup>, <sup>1</sup>Department of Horticulture, University of Arkansas, 316 Plant Science Building, Fayetteville, AR 72701, <sup>2</sup>Department of Agricultural Education, Communications and Technology, University of Arkansas, 205 Agriculture Building, Fayetteville, AR 72701, <sup>3</sup>Department of Agricultural Economics and Agribusiness, University of Arkansas, 217 Agriculture Building, Fayetteville, AR 72701 Megan Lankford (mmlankfo@email.uark.edu)

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

**Room:** Chastain H  
**Presiding:** Gary Bachman, President-Elect, Southern Region ASHS  
**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: (gbachman@ext.msstate.edu)

**10:00 am – 1:00 pm Order of presentations determined by drawing at beginning of contest.**

**Benefits of soil moisture sensor based automated irrigation in commercial greenhouse and nursery production.** William D. Wheeler<sup>1\*</sup>, Matthew Chappell<sup>1</sup>, Paul Thomas<sup>1</sup>, Marc van Iersel<sup>1</sup>, and Jean Williams-Woodward<sup>2</sup>, <sup>1</sup>Department of Horticulture, University of Georgia, Athens, GA 30602, <sup>2</sup>Department of Plant Pathology, University of Georgia, Athens, GA 30602, (wdw31@uga.edu)

**Clonal Structure, Genetic Diversity, and In Vitro Propagation of River Cane (*Arundinaria gigantea*), a candidate for use in wetlands reclamation.** Alex Rajewski<sup>1\*</sup>, Cecilia McGregor<sup>1</sup>, Donglin Zhang<sup>1</sup> and Hazel Y. Wetzstein<sup>2,1</sup>Department of Horticulture, 1111 Plant Science Bld., University of Georgia, Athens, GA 30602, <sup>2</sup>Department of Horticulture and Landscape Architecture, Purdue University, West Lafayette, IN 47907. (hwetzste@purdue.edu)

**Effect of Winter Cover Crops on Growth and Performance of Successional Vegetable Crops.** Luke R. Freeman\* and Curt R. Rom, 316 Plant Science Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (lfreeman@uark.edu)

**Evaluating the Salinity Tolerance of Bermudagrass Cultivars.** Mingying Xiang<sup>1\*</sup>, Justin Q. Moss<sup>1</sup>, Dennis L. Martin<sup>1</sup>, Yanqi Wu<sup>2</sup>, Bruce L.

Dunn<sup>1</sup>, <sup>1</sup>358 Ag Hall, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK, 74078, <sup>2</sup>368 Ag Hall, Department of Plant and Soil Sciences, Oklahoma State University, Stillwater, OK 74078-6028. (my.xiang@okstate.edu)

**Evaluating Water Use Efficiency of Blackberries in High Tunnel and Field Production Systems.** Spencer K. Fiser\*, Curt R. Rom, and Jason McAfee, 316 Plant Science Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (sfiser@email.uark.edu)

**Flooding Tolerance of Two Landscape Shrubs (*Illicium floridanum* and *Morella cerifera*) for Use in Raingardens.** Jennifer Morash\* and Amy Wright, Department of Horticulture, Auburn University, Auburn, AL 36849. (jdm0073@tigermail.auburn.edu)

**Nitrogen Fertilizer Management of 'Strawberry Festival' Grown Under High Tunnels.** Megan E. McGovern<sup>1\*</sup>, M. Elena Garcia<sup>1</sup>, and Donn T. Johnson<sup>2</sup>, <sup>1</sup> 316 Plant Sciences, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup> 319 Agriculture Building, Department of Entomology, University of Arkansas, Fayetteville, AR 72701. (mmcgvorn@uark.edu)

**Plant Science Instructors' Perceptions of Learning Experiences in Online and Face-to-face Courses.** Sable Sellick<sup>1\*</sup>, Catherine W. Shoulders<sup>2</sup>, and David E. Longer<sup>2</sup>, <sup>1</sup>Department of Agricultural Education, Communications and Technology, University of Arkansas, 205 Agriculture Building, Fayetteville, AR 72701, <sup>2</sup>Department of Crop, Soil, and Environmental Science, University of Arkansas, Plant Science 115, Fayetteville, AR 72701. (cshoulde@uark.edu)

**Post-transplant establishment and economic value of three tree species from five container sizes.** Lauren Garcia<sup>1\*</sup>, Michael A. Arnold<sup>1</sup>, Leonardo Lombardini<sup>1</sup>, W. Todd Watson<sup>2</sup>, Sean Carver<sup>2</sup>, and Andrew King<sup>2</sup>, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133, <sup>2</sup>Department of Ecosystem Science and Management, Texas A&M University, College Station, TX 77843-2138 (lmgarcia@gmail.com)

**T-budding as a Potential Method for Propagation of Pecan (*Carya illinoensis*).** Cassandra Warren\*, Monte Nesbitt and Leonardo Lombardini, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133. (cjflag008@email.tamu.edu)

**The Effective Pollination Period of New AU Kiwifruit Cultivars. (*Actinidia chinensis* and *Actinidia deliciosa*)** Ashley K. Brantley\*, James D. Spiers, Andrew B. Thompson, Elina Coneva, and J. Raymond Kessler, Jr., Department of Horticulture, Auburn University, Auburn, AL 36879. (abk0009@auburn.edu)

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

**Room:** Chastain H

**Presiding:** Gary Bachman, President-Elect, Southern Region ASHS

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

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

**Economics of Insect Pest Management in Small Scale Tomato Production.** Ronald C. Stephenson<sup>1\*</sup>, Christine H. Coker<sup>1</sup>, Gary R. Bachman<sup>1</sup>, Benedict C. Posadas<sup>1</sup>, Richard L. Harkess<sup>2</sup> and John J. Adamczyk<sup>3</sup>, <sup>1</sup>Coastal Research and Extension Center, Mississippi State University, 1815 Poppo Ferry Road, Biloxi, MS 39532, <sup>2</sup>Department of Plant and Soil Sciences, Mississippi State University, Box 9555 Mississippi State, MS 39762, <sup>3</sup> USDA-ARS Thad Cochran Southern Horticulture Laboratory, P. O. BOX 287 Poplarville, MS 39470. (cstep@ext.msstate.edu)

**Effects of Fertilization and Irrigation on Nursery Production of *Hydrangea* Using Alternative Container.** Tongyin Li<sup>1\*</sup>, Guihong Bi<sup>1</sup>, Carolyn F. Scagel<sup>2</sup>, and Richard L. Harkess<sup>1</sup>, <sup>1</sup>Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762, <sup>2</sup> USDA-ARS, Horticultural Crops Research Unit, Corvallis, OR 97330, (gbi@pss.msstate.edu)

**Essential oils as a chlorine alternative for produce safety: Effects on postharvest quality of cherry tomatoes.** Chen Jiang<sup>1\*</sup>, Penelope Perkins-Veazie<sup>1</sup>, Christopher Gunter<sup>2</sup>, Lina María Quesada<sup>3</sup>, Eduardo Gutierrez Rodriguez<sup>4</sup>, <sup>1</sup> Plants for Human Health Institute, North Carolina State University, North Carolina Research Campus, Suite 1329, 600 Laureate Way, Kannapolis, NC 28081, <sup>2</sup> Department of Horticultural Science, North Carolina State University, 230 Kilgore Hall, Box 7609, Raleigh, NC

27695, <sup>3</sup> Department of Plant Pathology, North Carolina State University, 3418 Gardner Hall, Box 7616, Raleigh, NC 27695, <sup>4</sup> Department of Food, Bioprocessing and Nutrition Sciences, North Carolina State University, 129-E Schaub Hall, Raleigh, NC 27695. (cjiang5@ncsu.edu)

**Evaluating Conventional Soilless Substrates by Measuring and Modeling Water Dynamics.** Jeb S. Fields<sup>1\*</sup>, James S. Owen, Jr.<sup>1</sup>, Joshua L. Heitman<sup>2</sup>, and Ryan D. Stewart<sup>3</sup>. <sup>1</sup> Virginia Polytechnic and State University, Department of Horticulture, Hamptons Road Agricultural Research and Education Center, 1444 Diamond Springs Rd. Virginia Beach, VA, 23455, <sup>2</sup> North Carolina State University, Department of Soil Science, PO Box 7619, Raleigh, NC 27695, <sup>3</sup> Virginia Polytechnic and State University, Department of Crop & Soil Environmental Sciences, 185 Ag Quad Ln, Blacksburg VA, 24061. (jsfields@vt.edu)

**Evaluation of Actinovate for Fire Blight Management.** Julia K. Stover\*, Curt R. Rom, Jason McAfee, and Spencer K. Fiser, 316 Plant Science Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (jkstover@email.uark.edu)

**Growth response of three containerized ornamental taxa to varying low pore-water concentrations of phosphorus.** Jacob H. Shreckhise<sup>1\*</sup>, James S. Owen<sup>2</sup>, Julie C. Brindley<sup>2</sup>, Alexander X. Niemiera<sup>1</sup>, <sup>1</sup>Department of Horticulture, 301 Saunders Hall, Virginia Tech, Blacksburg, VA 24061, <sup>2</sup>Hampton Roads Agricultural Research and Extension Center, Virginia Tech, 1444 Diamond Springs Road, Virginia Beach, VA 23455. (jshreck@vt.edu)

**Integrating Phenotypic and Genotypic Data for Flesh Texture and Marker-Assisted Breeding.** Alejandra A. Salgado<sup>1\*</sup>, John R. Clark<sup>1</sup>, Paul J. Sandefur<sup>2</sup>, and Cameron Peace<sup>2,1</sup> 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup> 219D Johnson Hall, Department of Horticulture, Washington State University, Pullman, WA 99164. (asalgado@email.uark.edu)

**Interactions of Sustainable Soil Management Practices and Fumigation Strategy on SE Strawberry Production.** Amanda McWhirt<sup>1\*</sup>, Michelle Schroeder-Moreno<sup>1</sup>, Yasmin Cardoza<sup>2</sup>, Gina Fernandez<sup>3</sup> and Hannah Burrack<sup>2</sup>, <sup>1</sup>Department of Crop Science, North Carolina State University, Raleigh, NC 27695, <sup>2</sup>Department of Entomology, North Carolina State University, Raleigh, NC 27695, <sup>3</sup> Department of Horticulture, North Carolina State

University, Raleigh, NC 27695. (almcwhir@ncsu.edu)

**Variation in growth habit and propensity to flower of *Oenothera drummondii* Hook.** from three coastal regions. Sean T. Carver<sup>1\*</sup>, Michael A. Arnold<sup>1</sup>, David H. Byrne<sup>1</sup>, Anna R. Armitage<sup>2</sup>, R. Daniel Lineberger<sup>1</sup>, and Andrew R. King<sup>1</sup>, <sup>1</sup>Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133, <sup>2</sup> Associate Professor, Department of Marine Biology, Texas A&M University, Galveston, TX 77553 (scarver@tamu.edu)

## EXTENSION and EDUCATION SECTIONS

**Room:** Chastain B

**Presiding:** Mike Schnelle, Carolyn Robinson

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

**8:00 Establishing the Value of an Online Blog Post.** Eric T. Stafne, Coastal Research and Extension Center, Mississippi State University, P.O. Box 193, Poplarville, MS 39470 (estafne@ext.msstate.edu)

**8:15 Nursery and Landscape Industry Open Houses, Field Days, Education and Outreach at the LSU AgCenter.** Allen Owings, 21549 Old Covington Highway, Hammond Research Station, LSU AgCenter, Hammond, LA 70403 (aowings@agcenter.lsu.edu)

**8:30 Extension Education on New Technologies in Grape Production for the Southeast.** Elina D. Coneva, 101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849-5408 (Edc0001@auburn.edu)

**8:45 The National Strawberry Sustainability Initiative Texas Strawberry Project: Participant Evaluation and Responses.** Russell W. Wallace<sup>1\*</sup> and Monte L. Nesbitt<sup>2</sup>, Department of Horticultural Sciences, <sup>1</sup>Texas A&M AgriLife Research & Extension Center, 1102 East FM 1294, Lubbock, TX 77403, and <sup>2</sup>Texas A&M AgriLife Extension, HSF, 2134 TAMU, College Station, TX 77843. (rwwallace@ag.tamu.edu).

**9:00 Furthering the Reach of Plant Science Education through a Virtual Lab Course: A Pilot Study.** Sable A. Sellick<sup>\*1</sup>, Catherine W. Shoulders<sup>1</sup>, and David E. Longer<sup>2</sup>,  
<sup>1</sup>Department of Agricultural Education, Communications and Technology, University of Arkansas, 205 Agriculture Building, Fayetteville, AR 72701, <sup>2</sup>Department of Crop, Soil, and Environmental Science, University of Arkansas, Plant Science 115, Fayetteville, AR 72701. (cshoulde@uark.edu)

## FRUIT CROPS SECTION

**Room:** Chastain C

**Presiding:** Charles Johnson

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

**9:30 Interactions of Sustainable Soil Management Practices and Fumigation Strategy on SE Strawberry Production.** Amanda McWhirt<sup>1\*</sup>, Michelle Schroeder-Moreno<sup>1</sup>, Yasmin Cardoza<sup>2</sup>, Gina Fernandez<sup>3</sup> and Hannah Burrack<sup>2</sup>, <sup>1</sup>Department of Crop Science, North Carolina State University, Raleigh, NC 27695, <sup>2</sup>Department of Entomology, North Carolina State University, Raleigh, NC 27695, <sup>3</sup> Department of Horticulture, North Carolina State University, Raleigh, NC 27695. (almcwhir@ncsu.edu)

**9:45 Unlocking Genetic Potential of the Peach collection at the National Clonal Germplasm Repository in Davis, CA.** Ksenija Gasic<sup>1\*</sup>, Carole Bassett<sup>2</sup>, Michael Glenn<sup>2</sup>, and John Preece<sup>3</sup>, <sup>1</sup>School of Agricultural, Forest, and Environmental Sciences, Clemson University, Clemson, SC 29634, <sup>2</sup>USDA-ARS, The Appalachian Fruit Research Station, Kearneysville, WV 25430, WV, <sup>3</sup>USDA-ARS, National Clonal Germplasm Repository, One Shields Avenue, University of California, Davis, CA 95616-8607. (kgasic@clemson.edu)

**10:00 Physiological Response of Potted Primocane Fruiting Blackberry to Various Degrees of Water Stress.** Spencer K. Fiser<sup>\*</sup>, Curt R. Rom, and Jason McAfee, 316 Plant Science Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (sfiser@email.uark.edu)

**10:15 Evaluation of Actinovate for Fire Blight Management.** Julia K. Stover<sup>\*</sup>, Curt R. Rom, Jason McAfee, and Spencer K. Fiser, 316 Plant Science Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (jlkstover@email.uark.edu)

**10:30 Break**

**10:45 Temperature effects of high tunnel screening and micro-misting cooling systems.** C.R.Rom<sup>1\*</sup>, J. M. McAfee<sup>1</sup>, L. Freeman<sup>1</sup>, H. Friedrich<sup>1</sup>, D.T. Johnson<sup>2</sup>. Center for Agricultural and Rural Sustainability, University of Arkansas. <sup>1</sup> Department of Horticulture, <sup>2</sup> Department of Entomology, University of Arkansas, Fayetteville, AR 72701 (crrom@uark.edu)

**11:00 The Effects of Selected Cover Crops on Growth Parameters of Musa (AAB Group) 'Mysore' Banana Plants.** Edgar L. Vinson, III<sup>1\*</sup>, Elina D. Coneva,<sup>1</sup> Joseph M. Kemble,<sup>1</sup> Floyd M. Woods<sup>1</sup>, Penelope M. Perkins-Veazie<sup>2</sup> Ensendugue G. Fonsah,<sup>3</sup> and Jeff L. Sibley<sup>1</sup>, <sup>1</sup> Auburn University, Auburn, AL, USA, <sup>2</sup> North Carolina State University, Raleigh, NC, <sup>3</sup>University of Georgia, Athens, GA, USA. (vinsoed@auburn.edu)

**11:15 Gas Exchange Response to Leaf Excision for Five Vitis Cultivars.** Thayne Montague<sup>\*</sup> and Edward Hellman, Texas AgriLife Research and Extension Center, Lubbock, TX 79403-6603. Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409-2122. (thayne.montague@ttu.edu)

**11:30 Initial Crown Diameter of Strawberry Bare-root Transplants Affects Early and Total Fruit Yield.** Emmanuel A. Torres-Quezada<sup>1\*</sup>, Lincoln Zotarelli<sup>1</sup>, Vance M. Whitaker<sup>1,2</sup>, Bielinski M. Santos<sup>1</sup>, and Ixchel Hernandez-Ochoa<sup>1</sup>. <sup>1</sup>Horticultural Sciences Department, IFAS, University of Florida, Gainesville, FL 32611. <sup>2</sup>Gulf Coast Research and Education Center, IFAS, University of Florida, 14625 CR 672, Wimauma, FL 33598. (etorres1618@ufl.edu)



## FLORICULTURE, ORNAMENALS AND TURF SECTION

**Room:** Chastain C

**Presiding:** Jim Owen

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

**1:00 Highlights of New Bedding Plant Trials – 2014.** Allen Owings\* and Gina Hebert, 21549 Old Covington Highway, Hammond Research Station, LSU AgCenter, Hammond, LA 70403. (aowings@agcenter.lsu.edu)

**1:15 Every Landscape Business Starts with a License: What Can We Learn From There?** Bodie V. Pennisi<sup>1\*</sup>, <sup>2</sup>Ellen M. Bauske, and Ryan W. Hodgson, <sup>1</sup> 1109 Experiment Street, <sup>1</sup>Department of Horticulture, <sup>2</sup>Center of Urban Agriculture, University of Georgia, Griffin, GA 30223 (bpennisi@uga.edu)

**1:30 Clean Water<sup>3</sup> - Reduce, Remediate, Recycle: A Specialty Crops Research Initiative Project Focused on Management of Recycled Water for Ornamental Crop Production.** Sarah A. White<sup>1\*</sup>, James S. Owen<sup>2</sup>, Bridget Behe<sup>3</sup>, Bert Cregg<sup>3</sup>, R. Tom Fernandez<sup>3</sup>, Paul Fisher<sup>4</sup>, Charlie R. Hall<sup>5</sup>, Darren Haver<sup>6</sup>, Daniel R. Hitchcock<sup>1</sup>, Dewayne L. Ingram<sup>7</sup>, Suarav Kumar<sup>8</sup>, Alexa Lamm<sup>9</sup>, John D. Lea-Cox<sup>10</sup>, Lorence R. Oki<sup>11</sup>, Jennifer L. Parke<sup>12</sup>, Andrew Ristvey<sup>13</sup>, David Sample<sup>2</sup>, Laura S. Warner<sup>9</sup>, and P. Christopher Wilson<sup>4</sup>. <sup>1</sup>Clemson University, School of Agricultural, Forest, and Environmental Sciences, E-143 Poole Agricultural Center Clemson, SC 29634, <sup>2</sup> Virginia Tech, Department of Horticulture, Hamptons Road Agricultural Research and Education Center, 1444 Diamond Springs Rd. Virginia Beach, VA, 23455, <sup>3</sup>Michigan State University, Department of Horticulture, A216 Plant & Soil Science Building East Lansing, MI 48824-1325, <sup>4</sup>University of Florida, Horticulture Department, 2549 Fifield Hall, Gainesville, FL 32611-0670, <sup>5</sup>Texas A&M University, Department of Horticultural Sciences, 2133 TAMU, College Station, TX, 77843-2133, <sup>6</sup>University of California Cooperative Extension Orange County. South Coast REC, 7601 Irvine Blvd., Irvine, CA

92618, <sup>7</sup>University of Kentucky, Department of Horticulture, N-308F Agri. Science Center, Lexington KY 40546-0091, <sup>8</sup>Virginia Tech, Occoquan Watershed Monitoring Laboratory, 9408 Prince William Street, Manassas, VA 20110, <sup>9</sup>University of Florida, Department of Agricultural Education and Communication, 121F Bryant Space Science Center, Gainesville, FL 32611-2060, <sup>10</sup>University of Maryland, Department of Plant Science and Landscape Architecture, 2102 Plant Sciences Building, College Park, MD 20742, <sup>11</sup> University of California - Davis, Department of Plant Sciences, MS6, One Shields Avenue, Davis, CA 95616-8587, <sup>12</sup> Oregon State University, Department of Crop and Soil Science, 3069 Ag & Life Sciences Building, Corvallis, OR 97331, <sup>13</sup> University of Maryland, Wye REC, Queenstown, MD 21658-0169. (swhite4@clemson.edu)

**1:45 Recovery of *Phytophthora* spp. from the roots of wetland plants in water conveyance structures at a plant nursery.** Sarah A. White, Garrett A. Ridge, Kristin Van Kampen, Steven N. Jeffers, School of Agricultural, Forest, and Environmental Sciences, Clemson University, Clemson, SC 29634. (swhite4@clemson.edu)

## POSTERS

**Room:** Overlook

**Presiding:** Genhua Niu

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

**Set-Up:** Saturday, 8:00 am –noon

**Poster Viewing** Saturday noon to 5:00  
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**

“G” or “UG” following the poster number indicates graduate and undergraduate poster, respectively, for the National Cowpea Poster Competition. Undergraduate and graduate students in the poster competition must be by their poster at the times listed below.

Judging Times

Saturday, 1:00-2:30 pm undergraduate students

Saturday, 2:30 - 4:00 pm graduate students

**Cross-Commodity**

- 1) **Efficacy of glyphosate and halosulfuron for control of purple and yellow nutsedge in elevated CO<sub>2</sub> environments.** S. Christopher Marble<sup>1\*</sup>, Stephen A. Prior<sup>2</sup>, G. Brett Runion<sup>2</sup>, and H. Allen Torbert<sup>2</sup>, <sup>1</sup> Mid-Florida Research and Education Center, 2725 S. Binion Rd., Apopka, FL 32703; <sup>2</sup>USDA-ARS National Soil Dynamics Lab, 411 S. Donahue Dr., Auburn, AL 36832. (marblesc@ufl.edu)

2UG) **Maintaining a Way of Life: Trials and Tribulations of Farmers Market Families.**

Megan M. Lankford<sup>1\*</sup>, Catherine W.

Shoulders<sup>2</sup>, Curt Rom<sup>1</sup>, & Jennie Popp<sup>3</sup>.

<sup>1</sup>Department of Horticulture, University of Arkansas, 316 Plant Science Building, Fayetteville, AR 72701; <sup>2</sup>Department of Agricultural Education, Communications and Technology, University of Arkansas, 205 Agriculture Building, Fayetteville, AR 72701; <sup>3</sup>Department of Agricultural Economics and Agribusiness, University of Arkansas, 217 Agriculture Building, Fayetteville, AR 72701 (mmlankfo@email.uark.edu)

- 3) **Introducing agriculture to 8<sup>th</sup> graders in six Mississippi counties.** Christine E.H. Coker\* and Ronald C. Stephenson., Coastal Research and Extension Center, Mississippi State University, Biloxi, MS 39532. (ccoker@ra.msstate.edu)

4) **Field Establishment for Forest Farming with Black Cohosh and Goldenseal.**

Guochen Yang\*, Sanjun Gu, Joshua Idassi, Cindy Lu, and John Beck, School of Agriculture and Environmental Sciences, North Carolina A&T State University, Greensboro, NC 27411. (yangg@ncat.edu)

**Floriculture, Ornamentals and Turf**

- 5) **Collecting and Evaluating New Lagerstroemia Cultivars in Louisiana and Texas.** Allen Owings<sup>1</sup>, David Creech<sup>2</sup> and Daniel Wells<sup>3</sup>. <sup>1</sup>21549 Old Covington Highway, Hammond Research Station, LSU AgCenter, Hammond, LA 70403; <sup>2</sup>College of Forestry and Agriculture, P. O. Box 13000, Stephen F. Austin State University, Nacogdoches, TX 75962; <sup>3</sup>101

Funchess Hall, Department of Horticulture, Auburn University, AL 36849. (aowings@agcenter.lsu.edu)

- 6) **Evaluation and Use of the Virtual Nursery Field Trip (VNFT) by Horticulture Instructors.** Amy Wright<sup>1\*</sup>, Mengmeng Gu<sup>2</sup>, and James Robbins<sup>3</sup>. <sup>1</sup>Department of Horticulture, Auburn University, AL 36849; <sup>2</sup>Department of Horticultural Sciences, Texas A&M AgriLife Extension, College Station, TX 77843; <sup>3</sup>Cooperative Extension, University of Arkansas, Little Rock, AR 72204. (awright@auburn.edu)

- 7G) **Stem Cutting Propagation and Subsequent Growth of Alabama Phlox (*Phlox pulchra* W.).** Jeremiah J. DeVore\*, Amy N. Wright, D. Joseph Eakes, J. Raymond Kessler, and Glenn B. Fain, Department of Horticulture, Auburn University, Auburn, AL 36849. (JJD0016@auburn.edu)

- 8) **Impact of Hormone, Cutting Length, and Magnetic Water on Rooting of *Camellia sasanqua*.** Yun Xie<sup>1,2\*</sup>, Yujie Yang<sup>2,3</sup>, Jinying Dong<sup>2</sup>, and Donglin Zhang<sup>2</sup> <sup>1</sup>College of Jiyang, Zhejiang Agriculture and Forestry University, Lin'an, Zhejiang 311300, China; <sup>2</sup>Department of Horticulture, University of Georgia, Athens, GA 30602, USA; <sup>3</sup>College of Forestry, Central South University of Forestry and Technology, Changsha, Hunan 410004, China. (xieyun@uga.edu)

- 9) **Nitrogen from Controlled-Release Fertilizers Recovered from Leachate During Container Production of Waxleaf Privet.** Eugene K. Blythe<sup>1\*</sup>, Donald J. Merhaut<sup>2</sup>, Joseph P. Albano<sup>3</sup>, and Julie P. Newman<sup>4</sup>. <sup>1</sup>Coastal Research and Extension Center, Mississippi State University, South Mississippi Branch Experiment Station, PO Box 193, Poplarville, MS 39470; <sup>2</sup>Department of Botany and Plant Sciences, University of California, 4118 Batchelor Hall, Riverside, CA 92521; <sup>3</sup>Horticultural Research Institute, 1200 G Street NW, Suite 800, Washington, DC 20005; <sup>4</sup>Cooperative Extension-Ventura County, University of California, 669 County Square Drive, #100, Ventura, CA 93003. (blythe@pss.msstate.edu)

- 10) **Rooting and Overwinter of *Magnolia zenii* 'Pink Parchment' Stem Cuttings.** Mingmei Wang<sup>1,2\*</sup>, Yibu Lu<sup>2,3</sup>, Jinying Dong<sup>2</sup>, and Donglin Zhang<sup>2</sup> <sup>1</sup>College of Forestry, Central

South University of Forestry and Technology, Changsha, Hunan 410004, China; <sup>2</sup>Department of Horticulture, University of Georgia, Athens, GA 30602, USA; <sup>3</sup>College of Life Science, Guizhou Normal University, Guiyang, Guizhou 550001, China. (mingmeiw@uga.edu)

- 11) Substrate Components and Drench Applied Bonzi (paclubutrazol) Effects Growth and Flowering of Greenhouse-Grown Annual Plants.** G.B. Fain<sup>1\*</sup>, J.R. Kessler<sup>1</sup>, A.L. Witcher<sup>2</sup>, and D.C. Mitchell<sup>1</sup>. <sup>1</sup>Department of Horticulture, Auburn University, Auburn, AL 36849; <sup>2</sup>USDA-ARS Southern Horticultural Laboratory, Poplarville, MS 39470 (gbf0002@auburn.edu)

### Fruit Crops

- 12) “Moving the Needle”: An e-book of the achievements, accomplishments and impacts of the National Strawberry Sustainability Initiative.** Curt R. Rom\*, Luke R. Freeman, Heather Friedrich, Ron Rainey, and Jennie Popp, 316 Plant Science Building, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (crom@uark.edu)

- 13G) Relating Acidity and Sweetness in Peach Progeny with the Maturity Date DNA Marker G4Mat-SSR.** Alejandra A. Salgado\*, John R. Clark<sup>1</sup>, Paul J. Sandefur<sup>2</sup>, and Cameron Peace<sup>2</sup>. <sup>1</sup> 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701; <sup>2</sup> 219D Johnson Hall, Department of Horticulture, Washington State University, Pullman, WA 99164. (asalgado@email.uark.edu)

- 14) Bluesfest Rabbiteye Blueberry.** S.J. Stringer, D.A. Marshall. B.J. Sampson and John J. Adamczyk Jr. USDA ARS Thad Cochran Southern Horticultural Laboratory, Poplarville, MS. (Stephen.Stringer@ARS.USDA.GOV)

- 15) Characterization of Anthocyanins in ‘Southern Home’, a Complex Hybrid Grape.** Derek W. Barchenger<sup>1</sup>, John R. Clark<sup>1\*</sup>, Renee Threlfall<sup>2</sup>, and Luke R. Howard<sup>2</sup>. <sup>1</sup>316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72703; <sup>2</sup>2650 N. Young Avenue, Institute of Food Science and Engineering, University of Arkansas, Fayetteville, AR 72704 (jrclark@uark.edu)

- 16) Effect of Nitrogen Fertilization on Antioxidant Properties in Satsuma Mandarin *Citrus unshiu*.** F.M. Woods\*, M. Kargar, G.A.

Hernandez, J. Spiers, R.J. Kessler, N. Holmes, and A. Brantley. Dept. Of Horticulture, Auburn University, Auburn, AL 36849. (woodsfm@acesag.auburn.edu)

- 17) Effect of Nitrogen Fertilization on Ascorbate Metabolism and Carotenoid Content in Satsuma Mandarin *Citrus unshiu*.** M. Kargar\*, G.A. Hernandez, F.M. Woods, J. Spiers, R.J. Kessler, N. Holmes, and A. Brantley, Dept. Of Horticulture, Auburn University, Auburn, AL 36849. (mzk0049@auburn.edu)

- 18) Fire Blight Resistant Apple Rootstock Trial in Alabama.** Elina D. Coneva\*<sup>1</sup>, and J. Pitts<sup>2</sup>. <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849-5408; <sup>2</sup>Chilton Research and Extension Center, 120 Co. Rd. 756, Clanton, AL, 35045. (Edc0001@auburn.edu)

- 19) Growing Pierce’s Disease Tolerant Hybrid Bunch Grapes in Alabama.** Elina D. Coneva\*<sup>1</sup>, and J. Ducar<sup>2</sup>. <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849; <sup>2</sup>13112 Highway 68, Crossville, AL 35962. (Edc0001@auburn.edu)

- 20) New Technology for Sustainable *Vitis vinifera* Production Tested in the Southeast.** Elina D. Coneva\*<sup>1</sup>, and J. Pitts<sup>2</sup>. <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849-5408; <sup>2</sup>Chilton Research and Extension Center, 120 Co. Rd. 756, Clanton, AL, 35045. (Edc0001@auburn.edu)

- 21) Peach Rootstock Evaluation in Alabama.** Elina D. Coneva\*<sup>1</sup>, Gregory L. Reighard<sup>2</sup>, and J. Pitts<sup>3</sup>. <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849; <sup>2</sup>School of Agricultural, Forest and Environmental Sciences, 161 Poole Ag Center, Clemson University, Clemson, SC 29634; <sup>3</sup>Chilton Research and Extension Center, 120 Co. Rd. 756, Clanton, AL, 35045. (Edc0001@auburn.edu)

- 22UG) Sensory Comparison of an Extremely Firm Fresh-Market Blackberry Selection to Industry Cultivars.** Olivia S. Hines<sup>1\*</sup>, John R. Clark<sup>1</sup>, and Renee T. Threlfall<sup>2</sup>. <sup>1</sup>316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701; <sup>2</sup>Institute of Food Science and Engineering, 2650 N. Young Ave., Fayetteville, AR 72704. (ohines@uark.edu)

- 23) Vitamin C Content in Underutilized Selected *Musa* Species from Southeastern United States.** G.A. Hernandez<sup>1\*</sup>, M. Kargar<sup>1</sup>, F.M. Woods<sup>1</sup>, E.G. Fonsah<sup>2</sup>, R.J. Kessler<sup>1</sup>, E.D. Coneva<sup>1</sup>, K. Shetty<sup>3</sup>, D. Sarkar<sup>3</sup>, and N. Holmes<sup>1</sup>. <sup>1</sup>Dept. Of Horticulture, Auburn University, Auburn, AL 36849; <sup>2</sup> Dept. of Agricultural and Applied Economics, University of Georgia, Tifton, GA 31793; <sup>3</sup>Dept. of Plant Sciences, North Dakota State University, Fargo, ND 58108. (gzh0011@auburn.edu)
- 24) Postharvest Evaluation of Southern Highbush and Rabbiteye Blueberry Genotypes Grown in Georgia.** Rachel A. Itle<sup>1\*</sup>, Y.-C. Hung<sup>2</sup>, and D.S. NeSmith<sup>1</sup>. <sup>1</sup>Department of Horticulture, University of Georgia, 1109 Experiment Street, Griffin, GA 30223; <sup>2</sup>Department of Food Science & Technology, University of Georgia, 1109 Experiment Street, Griffin, GA 30223. (ritle@uga.edu) **37)**
- 25) Estimation of Heritability and Genetic Correlations for Economically Important Traits in Passion Fruit.** Fernando Higinio, Patricio Munoz, and Alexandre Pio Viana. Agronomy Department - IFAS - University of Florida, 2005 SW 23<sup>rd</sup> Street, Bldg 350 Off 5 Gainesville, FL 32608 (fernandohiginolima@gmail.com)

### Vegetable Crops

- 26) Alternative Cropping Systems for Sugarcane.** Charles L. Webber III<sup>1\*</sup>, Paul M. White Jr.<sup>1</sup>, <sup>2</sup>Caleb Dalley, <sup>3</sup>Ryan P. Viator, and James W. Shrefler<sup>4</sup>. <sup>1</sup>USDA, Agriculture Research Service, Sugarcane Research Unit, 5883 USDA Road, Houma, LA 70360; <sup>2</sup>North Dakota State University Hettinger Research Extension Center, PO Box 1377, Hettinger, ND 58639; <sup>3</sup>Dow AgroSciences, 122 Newsom Dr., Houma, LA 70360; <sup>4</sup>Oklahoma State University, Division of Agriculture Sciences and Natural Resources, Cooperative Extension Service, P.O. Box 749, Durant, OK 74702. (Chuck.Webber@ars.usda.gov)
- 27G) Economics of Insect Pest Management in Small Scale Tomato Production.** Ronald C. Stephenson<sup>1\*</sup>, Christine H. Coker<sup>1</sup>, Gary R. Bachman<sup>1</sup>, Benedict C. Posadas<sup>1</sup>, Richard L. Harkess<sup>2</sup> and John J. Adamczyk<sup>3</sup>. <sup>1</sup> Coastal Research and Extension Center, Mississippi State University, 1815 Popps Ferry Road, Biloxi, MS 39532; <sup>2</sup> Department of Plant and

Soil Sciences, Mississippi State University, Box 9555 Mississippi State, MS 39762; <sup>3</sup> USDA-ARS Thad Cochran Southern Horticulture Laboratory, P. O. BOX 287 Poplarville, MS 39470. (cstep@ext.msstate.edu).

- 28) Going Natural: Effective Weed Control in Squash with Pelargonic Acid.** Charles L. Webber III<sup>1\*</sup>, James W. Shrefler<sup>2</sup>, and Merritt J. Taylor<sup>3</sup>. <sup>1</sup>Sugarcane Research Unit, Agricultural Research Service, U.S. Department of Agriculture, 5883 USDA Road, Houma, LA 70360; <sup>2</sup>Oklahoma State University, Division of Agriculture Sciences and Natural Resources, Cooperative Extension Service, 1901 S. 9<sup>th</sup> Street, Durant, OK 74702; <sup>3</sup>Oklahoma State University, Division of Agriculture Sciences and Natural Resources, 1901 S. 9<sup>th</sup> Street, Durant, OK 74702, (Chuck.Webber@ars.usda.gov).
- 29) Impact of Kenaf Extracts on Germination of Green Bean, Tomato, Cucumber, and Italian Ryegrass.** Charles L. Webber III<sup>1\*</sup>, Paul M. White Jr.<sup>1</sup>, Dwight L. Myers<sup>2</sup>, Merritt J. Taylor<sup>3</sup>, and James W. Shrefler<sup>4</sup>. <sup>1</sup>USDA, Agriculture Research Service, Sugarcane Research Unit, 5883 USDA Road, Houma, LA 70360; <sup>2</sup> East Central University, Department of Chemistry, 248 Physical & Environmental Science Building, Ada, OK 74820; <sup>3</sup>Oklahoma State University, Division of Agriculture Sciences and Natural Resources, Department of Agricultural Economics, 1901 S. 9<sup>th</sup> Street, Durant, OK 74702; <sup>4</sup>Oklahoma State University, Division of Agriculture Sciences and Natural Resources, Cooperative Extension Service, P.O. Box 749, Durant, OK, 74702. (Chuck.Webber@ars.usda.gov)
- 30) Pelargonic Acid as a Herbicide in Sweet Bell Peppers.** Charles L. Webber III<sup>1\*</sup>, Merritt J. Taylor<sup>2</sup>, and James W. Shrefler<sup>3</sup>. <sup>1</sup>Sugarcane Research Unit, Agricultural Research Service, U.S. Department of Agriculture, 5883 USDA Road, Houma, LA 70360; <sup>2</sup>Oklahoma State University, Division of Agriculture Sciences and Natural Resources, 1901 S. 9<sup>th</sup> Street, Durant, OK 74702; <sup>3</sup>Oklahoma State University, Division of Agriculture Sciences and Natural Resources, Cooperative Extension Service, 1901 S. 9<sup>th</sup> Street, Durant, OK 74702. (Chuck.Webber@ars.usda.gov)
- 31G) Impacts of Biofumigation in Strawberry Production.** Jennifer Wheeler and Carl Sams, Department of Plant Sciences, University of

Tennessee, Knoxville, TN 37996-4561.  
(jwheel22@vols.utk.edu)

**32UG) Evaluation of Cowpea (*Vigna unguiculata*)**

**Lines for Cover Crop Application.** Alyssa Barnes<sup>1\*</sup>, Curt R. Rom<sup>2</sup>, Luke R. Freeman<sup>2</sup>, and Jason McAfee<sup>2</sup>. <sup>1</sup>1100 Henderson Street, Department of Biology, Henderson State University, Arkadelphia, AR 71999; <sup>2</sup>316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (AB168822@reddies.hsu.edu)

**33) Response of 'San Andreas' Strawberry to Different Color Plastic Mulches Under High Tunnels.**

M. Elena Garcia, D. Dickey, and M. McGovern. Dept. of Horticulture, University of Arkansas, Fayetteville, AR 72701 (megarcia@uark.edu)

**34) Simulated Seawater Flooding Affects the Growth of Ten Vegetables.**

Y. Sun<sup>1</sup>, J. Masabni<sup>2</sup>, G. Niu<sup>1\*</sup>. <sup>1</sup>Texas A&M AgriLife Research at El Paso, El Paso, TX 79927; <sup>2</sup>Texas A&M AgriLife Extension, College Station, TX 77843.

**35) Introduction of aquaponics systems for vegetable production in Myanmar under F2F program,**

James Rakocy and Dilip Nandwani\*, Agricultural Experiment Station, University of the Virgin Islands, Kingshill, VI (dnandwan@tnstate.edu)

**36) Evaluation of low pressure irrigation system for leafy greens production on St Croi,**

Dilip Nandwani\* and Vanessa Forbes, Agricultural Experiment Station, University of the Virgin Islands, Kingshill, VI (dnandwan@tnstate.edu)

**37) Estimation of Heritability and Genetic Correlations for Economically Important Traits in Passion Fruit.**

Fernando Higinio, Patricio Munoz, and Alexandre Pio Viana. Agronomy Department - IFAS - University of Florida, 2005 SW 23<sup>rd</sup> Street, Bldg 350 Off 5 Gainesville, FL 32608 (fernandohiginolima@gmail.com)

## Sunday, February 1, 2015

### POSTERS

**Room:** Overlook

**Presiding:** Genhua Niu

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

**Set-Up:** Saturday, 8:00 am –noon

**Poster Viewing** Sunday 8:00-10:45

**Take-down:** Sunday, 1:00 – 3:00

### VEGETABLE CROPS SECTION

**Room:** Chastain Room 2

**Presiding:** Russell Wallace

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

**8:00 Effect of Winter Cover Crops on Growth and Performance of Successional Vegetable Crops.**

Luke R. Freeman\* and Curt R. Rom, 316 Plant Science Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (lfreeman@uark.edu)

**8:15 Evaluation of Cowpea (*Vigna unguiculata*)**

**Lines for Cover Crop Application.** Alyssa Barnes<sup>1\*</sup>, Curt R. Rom<sup>2</sup>, Luke R. Freeman<sup>2</sup>, and Jason McAfee<sup>2</sup>, 1100 Henderson Street, Department of Biology, Henderson State University, Arkadelphia, AR 71999, <sup>2</sup>316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (AB168822@reddies.hsu.edu)

**8:30 Sweet Corn Plant Growth and Yield as Influenced by Colored Plastic Mulches.**

Juan Carlos Diaz-Perez<sup>1</sup>, Gvozden Dumcic<sup>2</sup>, Juan Alberto Alvarado-Chavez<sup>1</sup>, and Jesus Bautista<sup>1</sup>. <sup>1</sup>Dept. of Horticulture, University of Georgia, Tifton, GA 31793; <sup>2</sup>Institute of Adriatic Crops and Karst Reclamation, 21000 Split, Croatia. (jcdiaz@uga.edu)

**8:45 Organic Broccoli (*Brassica oleracea* L. var. *italica*) Cultivar and Conventionally Comparative Plant Density Evaluations.**

Brian K. Ward\* Department of Horticulture, Clemson University Coastal Research and Education Center, Charleston, SC 29414. (bw@clemson.edu)

**9:00 Break**

**9:15 Genetic Diversity and Population Structure of Collard Landraces.** Sandra E. Pelc\*, David M. Couillard, Zachary J. Stansell and Mark W. Farnham, USDA-ARS Vegetable Lab, 2700 Savannah Highway, Charleston, SC, 29414. (Sandra.Pelc@ars.usda.gov)

**9:30 Summary of 2014 Vegetable Cultivar Trials at Crystal Springs, Mississippi.** William B. Evans and Anna McCain. Truck Crops Branch, Mississippi State University, Crystal Springs, Mississippi. (bill.evans@msstate.edu)

**9:45 Machine Banding of Compost in Vegetable Crops.** William B. Evans<sup>1</sup>, Anna McCain<sup>1</sup>, T. Way<sup>2</sup> and H. Tewolde<sup>3</sup>. <sup>1</sup>Truck Crops Branch, Mississippi State University, Crystal Springs, Mississippi. <sup>2</sup>USDA National Soil Dynamics Laboratory, Auburn, AL; and <sup>3</sup>USDA ARS Southeast Area Laboratory, Starkville, Mississippi. (bill.evans@msstate.edu)

**10:00 S-Metolachlor plus Handweeding for Weed Control, Yield and Costs in High Density Processing Spinach.** Russell W. Wallace<sup>1\*</sup>, C. Joel Webb<sup>2</sup> and Ben Mullin<sup>2</sup>. <sup>1</sup>Department of Horticultural Sciences, <sup>1,2</sup>Texas A&M AgriLife Research & Extension Center, 1102 East FM 1294, Lubbock, TX 79403. (rwwallace@ag.tamu.edu)

**10:15 Ginger Production in the Virgin Islands and Postharvest studies.** Kenya Emanuel\*, Carlos Montilla, Stafford M.A. Crossman, Thomas W. Zimmerman, University of the Virgin Islands, Agricultural Experiment Station, RR 1 Box 10,000, Kingshill, VI 00850 (tzimmer@uvi.edu)

**11:00 – 12:30 Attend Business Meeting and Awards Program**

## FRUIT CROPS SECTION

**Room:** Chastain H

**Presiding:** Charles Johnson

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

**8:00 Evaluation of Actinovate for Fire Blight Management.** Julia K. Stover\*, Curt R. Rom, Jason McAfee, and Spencer K. Fiser, 316 Plant Science Department of Horticulture,

University of Arkansas, Fayetteville, AR 72701. (jkstover@email.uark.edu)

**8:15 Interactions of Sustainable Soil Management Practices and Fumigation Strategy on SE Strawberry Production.** Amanda McWhirt<sup>1\*</sup>, Michelle Schroeder-Moreno<sup>1</sup>, Yasmin Cardoza<sup>2</sup>, Gina Fernandez<sup>3</sup> and Hannah Burrack<sup>2</sup>, <sup>1</sup>Department of Crop Science, North Carolina State University, Raleigh, NC 27695, <sup>2</sup>Department of Entomology, North Carolina State University, Raleigh, NC 27695, <sup>3</sup>Department of Horticulture, North Carolina State University, Raleigh, NC 27695. (almcwhir@ncsu.edu)

**8:30 Development of a non-destructive method to phenotype pH tolerance among cultivated rabbiteye (*Vaccinium ashei*) and southern highbush (*Vaccinium corymbosum* X ) blueberry cultivars.** Donna Marshall-Shaw, Cecil Pounders, Stephen Stringer, Anthony Witcher USDA-ARS TCSHL Poplarville, MS (Donna.Marshall@ARS.USDA.GOV)

**8:45 Assessment of Fire Blight Tolerant Asian Pear Cultivars in Alabama.** Elina D. Coneva<sup>1\*</sup>, and J. Pitts<sup>2</sup>, <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849-5408, <sup>2</sup>Chilton Research and Extension Center, 120 Co. Rd. 756, Clanton, AL, 35045. (Edc0001@auburn.edu)

**9:00 New Rabbiteye Blueberry (*Vaccinium ashei*) Cultivars for Alabama.** Elina D. Coneva<sup>1\*</sup>, Scott NeSmith<sup>2</sup>, and Arnold Caylor<sup>3</sup>, <sup>1</sup>Department of Horticulture, Auburn University, 101 Funchess Hall, Auburn, AL 36849, <sup>2</sup>Department of Horticulture, University of Georgia, 1109 Experiment Street, Griffin, GA 30223, <sup>3</sup>765 County Road 1466, North Alabama Horticulture Research Center, Cullman, AL 35055. (Edc0001@auburn.edu)

**9:15 break**

**9:30 Foliar uptake of calcium in Rabbiteye blueberry (*V. virgatum* Aiton).** Erick Smith, Department of Horticulture Tifton Campus, The University of Georgia, Tifton, GA 31793-5766. (ericks@uga.edu)

**9:45 Nutraceutical Changes in Muscadine Grape and Grape Segments During Storage.** Derek W. Barchenger<sup>1</sup>, John R. Clark<sup>1\*</sup>, Renee T.

Threlfall<sup>2</sup>, and Luke R. Howard<sup>2,1</sup> 316 Plant Science Department of Horticulture, Institute of Food Science and Engineering, University of Arkansas, Fayetteville, AR 72704. (jrclark@uark.edu)

**10:00 Integrating Flesh Firmness as a Part of the Blackberry Postharvest Protocol at the University of Arkansas: First Results.** Alejandra A. Salgado\* and John R. Clark, 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (asalgado@email.uark.edu)

**10:15 Progress in Breeding Primocane-fruiting Blackberries: Fruit Quality and Thornlessness.** John R. Clark, 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (jrclark@uark.edu)

**10:30 Aminoethoxyvinylglycine Delays Maturity and Increases Firmness in Late Season Peaches.** Gregory Reighard\* and Greg Henderson, School of Agricultural, Forest and Environmental Sciences Clemson University 29634-0310 (grghrd@clemson.edu)

**11:00 – 12:30 Attend Business Meeting and Awards Program**

## FLORICULTURE, ORNAMENALS AND TURF SECTION

**Room:** Chastain G

**Presiding:** Jim Owen

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

**8:00 Can Adding Value to Native Genotypes Help Them Compete with Market-established Exotics?** Michael A. Arnold\*, Sean T. Carver, Andrew R. King, Lauren M. Garcia, and John E. Montoya, Department of Horticultural Sciences, 2133 TAMU HFSB, College Station, TX 77843-2133. (ma-arnold@tamu.edu)

**8:15 Preventative and curative measures in commercial liriope production with crown rot incidence.** Ed Bush\*, and Carla Proano. LSU SPESS, Louisiana State University, Baton Rouge LA

70803. (ebush@agcenter.lsu.edu)

**8:30 Container Trial of 47 *Hydrangea macrophylla* and *H. serrata* Cultivars at the Center for Applied Nursery Research.** Matthew Chappell\*, Department of Horticulture, The University of Georgia, 324 Hoke Smith Bldg., Athens, GA 30602. (hortprod@uga.edu)

**8:45 Influence of Three Pruning Strategies on Growth and Form of Three *Taxodium* Clones.** David Creech\*, SFA Gardens, PO Box 13000, Stephen F. Austin State University, Nacogdoches, TX 75962-3000. (dcreech@sfasu.edu)

**9:00 Break**

**9:15 2014 Crapemyrtle Bark Scale Crawler Counts on Natchez Crapemyrtle in Little Rock, AR.** John Hopkins<sup>1</sup> and James Robbins<sup>2\*</sup>, <sup>1</sup>Entomology Department, University of Arkansas CES, Little Rock, AR 72204, <sup>2</sup>Horticulture Department, University of Arkansas CES, Little Rock, AR 72204. (jrobbins@uaex.edu)

**9:30 Engineering and Construction Advances in Horticultural Substrate Research.** Brian E. Jackson\*, Department of Horticultural Science, NC State University, 130 Kilgore Hall, Raleigh NC 27695. (Brian\_Jackson@ncsu.edu)

**9:45 Effect of Container-grown Plant Canopy Shape on Plant Count Accuracy using Remote Sensing Imagery.** Josue N. Leiva and James Robbins\*, Horticulture Department, University of Arkansas, Fayetteville, AR 72701. (jrobbins@uaex.edu)

**10:00 Response of Selected Ozark Region Flowering Perennials to Acute Ozone Exposure.** Garry V. McDonald\* and Susan D. Frey, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (gmcdonal@uark.edu)

**10:15 Placement of Controlled-release Fertilizer Affects Leaching of Nutrients from Nursery Containers during Irrigation.** James S. Owen<sup>\*1</sup>, Tyler C. Hoskins<sup>1</sup> and Alex X. Niemiera<sup>2</sup>. <sup>1</sup>Hampton Roads Agricultural Research and Extension Center, Virginia Tech, 1444 Diamond Springs Road, Virginia Beach, VA 23455, <sup>2</sup>Department of Horticulture, 301 Saunders Hall, Virginia

Tech, Blacksburg, VA 24061.  
(jsowen@vt.edu)

**11:00 – 12:30 Attend Business Meeting and Awards Program**

## Postharvest and Biotechnology

**Room:** Chastain B

**Presiding:** Ramon Arancibia

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

**8:00 Essential oils as a chlorine alternative for produce safety: Effects on postharvest quality of cherry tomatoes.** Chen Jiang<sup>1\*</sup>, Penelope Perkins-Veazie<sup>1</sup>, Christopher Gunter<sup>2</sup>, Lina María Quesada<sup>3</sup>, Eduardo Gutierrez Rodriguez<sup>4</sup>, <sup>1</sup> Plants for Human Health Institute, North Carolina State University, North Carolina Research Campus, Suite 1329, 600 Laureate Way, Kannapolis, NC 28081, <sup>2</sup> Department of Horticultural Science, North Carolina State University, 230 Kilgore Hall, Box 7609, Raleigh, NC 27695, <sup>3</sup> Department of Plant Pathology, North Carolina State University, 3418 Gardner Hall, Box 7616, Raleigh, NC 27695, <sup>4</sup> Department of Food, Bioprocessing and Nutrition Sciences, North Carolina State University, 129-E Schaub Hall, Raleigh, NC 27695. (cjiang5@ncsu.edu)

**8:15 Composition of butternut squash among cultivars and with storage.** Penelope Perkins-Veazie\*, Jonathan Schultheis, Travis Birdsell, North Carolina State University and North Carolina Cooperative Extension Service. (penelope\_perkins@ncsu.edu)

**8:30 Chemical changes in sweetpotato periderm in response to preharvest conditioning to reduce skinning at harvest.** Xiang Wang<sup>1</sup>, Jeffrey L. Main<sup>1</sup>, Don R. LaBonte<sup>2</sup>, and Ramón A. Arancibia<sup>3\*</sup>, <sup>1</sup>Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS 38863, <sup>2</sup>School of Plant, Environmental, and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803, <sup>3</sup>Eastern Shore Research and Extension Center, Virginia Tech, Painter, VA 23420. (raran@vt.edu)

**8:45 Changes in key enzymatic activities in the lignin/suberin synthesis pathway in response to preharvest conditioning in sweetpotato periderm.** Xiang Wang<sup>1</sup>, Jeffrey L. Main<sup>1</sup>, Don R. LaBonte<sup>2</sup>, and Ramón A. Arancibia<sup>3\*</sup>, <sup>1</sup>Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS 38863, <sup>2</sup>School of Plant, Environmental, and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803, <sup>3</sup>Eastern Shore Research and Extension Center, Virginia Tech, Painter, VA 23420. (raran@vt.edu)

**9:00 Lignin/suberin content in sweetpotato periderm cell wall increases by preharvest conditioning as determined by fluorescence microscopy.** Ramón A. Arancibia<sup>1\*</sup>, Nestor Bonilla<sup>2</sup>, Don LaBonte<sup>3</sup>, and Jeff L. Main<sup>2</sup>. <sup>1</sup>Eastern Shore Research and Extension Center, Virginia Tech, Painter, VA 23420, <sup>2</sup>Pontotoc Ridge-Flatwoods Branch Experiment Station, Mississippi State University, Pontotoc, MS 38863, <sup>3</sup>School of Plant, Environmental, and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803 (raran@vt.edu)

## ANNUAL BUSINESS MEETING AND AWARDS PROGRAM

**Room:** Chastain Room 1

**Time:** 11:00 – 12:30

**Presiding:** Wayne Mackay, President



# WORKING GROUPS

(Contact Chairs for Agenda if not listed)

## Watermelon Research Group

**Presiding:** James Brusca, Chair  
(james.brusca@syngenta.com)

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

**Friday:** 1:00 pm – 6:00 pm

**Saturday:** 8:30-5:00

**Room:** Chastain E

### Friday, January 30

**1:00.** Welcome: James Brusca, Chair

**1:15** Introductions: All in attendance

### **Industry Updates**

**1:45 Regional Watermelon Production Updates**

California & Arizona

Florida

Carolinas

DelMarVa

Georgia

Indiana & Midwest

Texas

2:30 **Variety updates from Seed Companies**

3:00 **Break**

### **Research Reports:**

#### **Variety Trials**

**3:30 Georgia watermelon trial results from 2014.** Timothy Coolong\*, Department of Horticulture, University of Georgia, Tifton Campus, Tifton, GA 31793. (tcoolong@uga.edu)

**3:45 2014 Seedless Watermelon Variety Trial Data for South Carolina.** Gilbert Miller\*. 64 Research Road, Clemson University – EREC, Blackville, SC 29817. (gmllr@clemson.edu)

**4:00 Watermelon Cultivar Yield and Quality Results, North Carolina, 2014.** Jonathan R. Schultheis\* and William B. Thompson, Dept. Horticultural Science, North Carolina State University, 2721 Founders Drive, Raleigh, NC 27695-7609. (jonr@ncsu.edu)

**4:15 Evaluation of Triploid Watermelon (*Citrullus lanatus*) Varieties in Kentucky, 2014.** Shubin K. Saha<sup>1\*</sup> and Lucas Hanks<sup>2</sup>,

<sup>1</sup>Department of Horticulture, University of Kentucky, Ag Science Building North, N-322C, Lexington, KY 40546-0091.

<sup>2</sup>Department of Horticulture, University of Kentucky, Horticulture Research Farm, 4321 Emmert Farm Lane, Lexington, KY 40514. (Shubin.saha@uky.edu).

**4:30 Triploid watermelon variety trial for 2014.** Daniel S. Egel\* and Sara Hoke, Southwest Purdue Agricultural Center, 4369 North Purdue Road, Vincennes, IN 47591. (egel@purdue.edu)

**4:45 Seedless Watermelon Variety Trials Conducted by University of Delaware Cooperative Extension.** 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)

**5:00 2014 Seedless Watermelon Variety Trial Data for SC, FL, GA and NC and Growers Response.** Gilbert Miller<sup>1\*</sup>, Josh Freeman<sup>2</sup>, Tim Coolong<sup>3</sup>, and Jonathan Schultheis<sup>4</sup>. <sup>1</sup>64 Research Road, Clemson University - EREC, Blackville, SC 29817. <sup>2</sup>155 Research Road, University of Florida – NFREC, Quincy, FL 32351. <sup>3</sup>2360 Rainwater Road, University of Georgia, Tifton, GA 31793-5766. <sup>4</sup>2721 Founders Drive, Department of Horticulture Science, North Carolina State University, Raleigh, NC 27695-7609. (gmllr@clemson.edu)

**5:15** Discussion about opportunities to further harmonize variety trial design and data collection.

**6:00** Adjourn

### Saturday, February 1

**8:30** Day 2 Welcome: James Brusca, Chair, WRDWG and additional introductions

#### **Research Reports**

##### Grafting

**9:00 Different Rootstock Responses to being grafted on to Cultivar Fascination.** Richard L. Hassell, Clemson University Coastal Research and Education Center, Charleston, SC 29414. (rhassel@clemson.edu)

**9:20 Cultivar Response to Grafting On**

**Interspecific Hybrid Squash Rootstock.** Richard L. Hassell, Clemson University Coastal Research and Education Center, Charleston, SC 29414. (rhassel@clemson.edu)

- 9:40 Response to Various Nitrogen Rates in Grafted Watermelon.** David H Suchoff<sup>1\*</sup>, Jonathan R. Schultheis<sup>1</sup>, Christopher C. Gunter<sup>1</sup>, Richard L. Hassell<sup>2</sup>, <sup>1</sup>Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695-7609, <sup>2</sup>Clemson University, Coastal REC, 2700 Savannah Highway, Charleston, SC 29414. (dsuchoff@gmail.com)

#### Pollination and Pollenizers

- 10:00 Pollenizer Effectiveness for Triploid Watermelon Production in Delaware.** Donald Seifrit\*, Gordon C. Johnson, and Emmalea Ernest, 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. (dseifrit@udel.edu)
- 10:20 Progressive Pollenizer Spacing for Studying Hollow Heart in Triploid Watermelon.** Gordon C. Johnson, Emmalea Ernest\*, and Donald Seifrit, 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. (dseifrit@udel.edu)

#### **10:40 Break**

#### Biotic and Abiotic Stress

- 11:00 Managing Root-Knot Nematode in Grafted Watermelon.** J.H. Freeman, University of Florida, North Florida Research and Education Center, 155 Research Road, Quincy, FL 32351. (joshuafr@ufl.edu)
- 11:20 Tolerance to powdery mildew conferred in susceptible watermelon scion by grafting on resistant rootstocks.** C.S. Kousik<sup>1\*</sup>, J. L. Ikerd<sup>1</sup> and R. Hassell<sup>2</sup>, <sup>1</sup>U.S. department of Agriculture, Agricultural Research Service, U.S. Vegetable Laboratory, Charleston, SC 29414 and <sup>2</sup>Coastal Research and Education Center, Clemson University, Charleston, SC 29414. (shaker.kousik@ars.usda.gov)

- 11:40 Five Years of Fusarium Wilt: What Did We Learn?** Geoffrey Meru and Cecilia E. McGregor\*, Department of Horticulture, University of Georgia, 1111 Miller Plant Science Bldg., Athens, GA 30602. (cmcgre1@uga.edu)

- 12:00 Race relations among strains of *Fusarium oxysporum f.sp. niveum* from Indiana.** Daniel S. Egel, Southwest Purdue Agricultural Center, 4369 North Purdue Road, Vincennes, IN 47591. (egel@purdue.edu)

#### **12:20 Lunch**

- 2:00 Update from NWPB.** Mark Arney

- 2:20 Progress in Developing ZYMV-Resistant Watermelon Lines Containing the Eukaryotic Translation Elongation Factor eIF4E from PI 595203.** Amnon Levi\* and Kai-shu Ling, U.S. department of Agriculture, Agricultural Research Service, U.S. Vegetable Laboratory, Charleston, SC 29414. (Amnon.Levi@ARS.USDA.GOV)

- 2:40 Evaluation of watermelon plant introductions (PI) in the core collection for tolerance to saline water.** S. Hallman<sup>1</sup> and C.S. Kousik<sup>2</sup>, <sup>1</sup>Academic Magnet High School, Charleston SC and <sup>2</sup>U.S. department of Agriculture, Agricultural Research Service, U.S. Vegetable Laboratory, Charleston, SC 29414. (shaker.kousik@ars.usda.gov)

- 3:00 The Impact of Growth Habit, Planting Density and Weeding Regime on Watermelon Yield in an Organic System.** Suzanne Stone\*, George Boyhan, and Ryan McNeill, Department of Horticulture, University of Georgia, Athens, GA 30605. (sstone2@uga.edu)

- 3:20 Watermelon Top Ten R&D Priorities – Survey Review.** Shaker Kousik

#### **4:00 WRDG Business**

Hot Topics  
Website  
NWA Update  
New chair

## National Cowpea Improvement Association

**Presiding:** Blair Buckley, Chair  
(bbuckley@agctr.lsu.edu)  
**Saturday:** 1:00 pm – 5:00 pm  
**Room:** Chastain G

**Preparing for the Brown Marmorated Stink Bug: Lessons from the invasion of 2014 in the NC Piedmont.** Louis E. N. Jackai<sup>1\*</sup>, Beatrice N. Dingha<sup>2</sup>, Huiping Zhou<sup>1</sup>, Olusola Jeje<sup>1</sup>, and Hum Shrestha<sup>1</sup>. <sup>1</sup>Department of Natural Resources and Environmental Design, NC A&T State University, 1601 East Market Street, Greensboro, NC 27411, <sup>2</sup>Department of Family and Consumer Sciences, NC A&T State University, 1601 East Market Street, Greensboro, NC 27411. (lejackai@ag.ncat.edu)

**New Findings on Post-Harvest Protection of Cowpea with Edible Vegetable Oils -- A Report on Progress.** Beatrice N. Dingha<sup>1\*</sup>, Huiping Zhou<sup>2</sup>, Olusola Jeje<sup>2</sup>, Hum Shrestha<sup>2</sup>, and Louis E. N. Jackai<sup>2</sup>. <sup>1</sup>Department of Family and Consumer Sciences, NC A&T State University, 1601 East Market Street, Greensboro, NC 27411, <sup>2</sup>Department of Natural Resources and Environmental Design, NC A&T State University, 1601 East Market Street, Greensboro, NC 27411. (bndingha@ncat.edu)

**Cowpea Research on a Comeback in North Carolina: Challenges and Metrics for Successful Production and Use in Sustainable Integrated Systems.** Huiping Zhou<sup>\*</sup>, Sarah Adjei-Fremah, Louis E. N. Jackai, Beatrice N. Dingha, Niki Whitley and Millie Worku, School of Agriculture and Environmental Sciences, North Carolina A&T State University, 1601 East Market Street, Greensboro, NC 27411. (hzhou@ncat.edu)

**Preparing for the Brown Marmorated Stink Bug: Lessons from the invasion of 2014 in the NC Piedmont.** Louis E. N. Jackai<sup>\*</sup>, Beatrice N. Dingha, Huiping Zhou, Olusola Jeje, and Hum Shrestha, School of Agriculture and Environmental Sciences, North Carolina A&T State University, 1601 East Market Street, Greensboro, NC 27411. (lejackai@ag.ncat.edu)

**New Findings on Post-Harvest Protection of Cowpea with Edible Vegetable Oils -- A Report on Progress.** Beatrice N. Dingha<sup>\*</sup>, Huiping Zhou, Olusola Jeje, Hum Shrestha, and Louis E. N. Jackai, School of Agriculture and Environmental Sciences, North Carolina A&T State University, 1601 East Market Street, Greensboro, NC 27411.

(bndingha@ncat.edu)

## Horticulture Administrators

**Presiding:** Wayne Mackay, Chair  
(mackay@uark.edu)  
**Friday:** 1:00 pm – 5:00 pm  
**Room:** Chastain B

## Vigna Crop Germplasm Committee

**Presiding:** Judy Thies  
(judy.thies@ars.usda.gov)  
**Saturday:** 9:00 am – 12:00 pm  
**Room:** Chastain G

## Pecan Research and Extension Forum

**Presiding:** Lenny Wells, Chair  
(lwells@uga.edu)  
**Friday:** 8:00 am – 5:00 pm  
**Room:** Chastain C

## Southern Blueberry/Small Fruit Workers

**Presiding:** Donna Marshall, Chair  
(donna.marshall@ars.usda.gov)  
**Friday:** 8:00 am – 5:00 pm  
**Room:** Chastain D

## 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

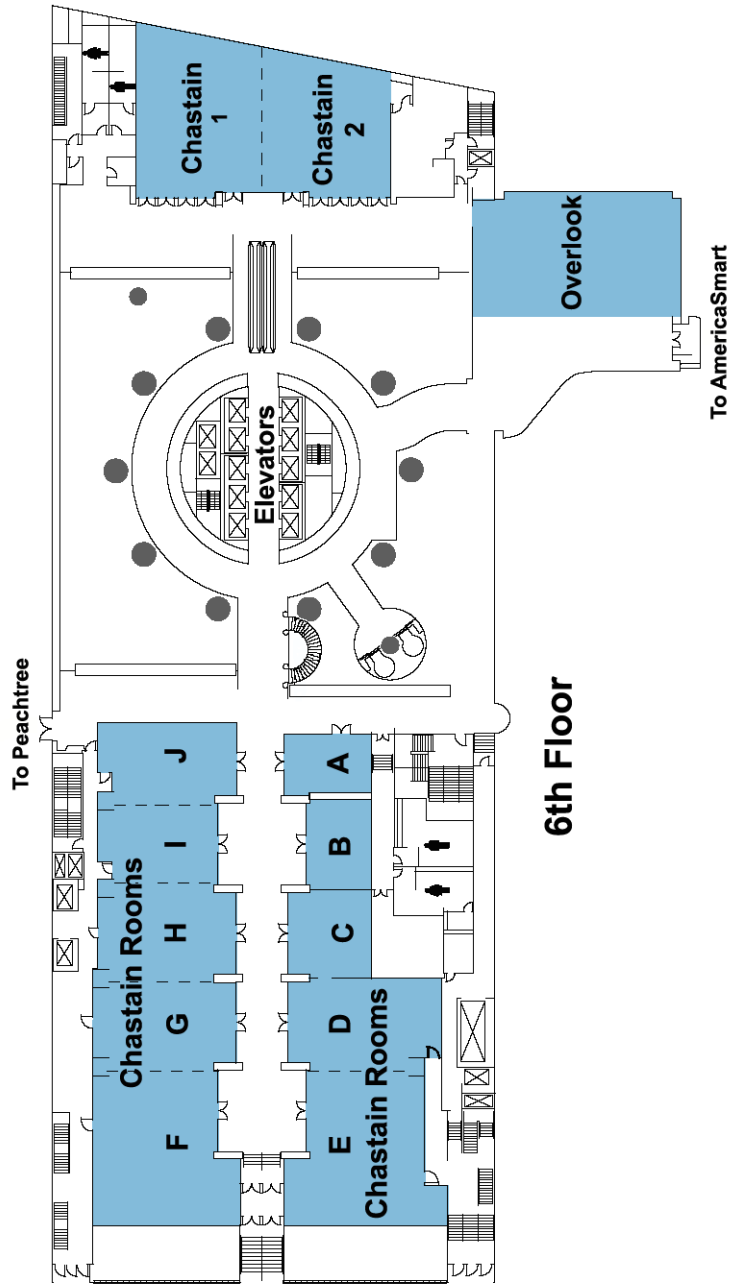
#### **Molecular Marker-Derived Genetic Similarity Analysis of a Segregating Blackberry Population**

Eric T. Stafne\*<sup>1</sup>, John R. Clark<sup>1</sup>, and Kim S. Lewers<sup>2</sup>

<sup>1</sup>316 Plant Sciences, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup>USDA-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'<sup>®</sup> (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



## 2015 Program at a Glance

Friday, January 30																
Room	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00						
Hotel Lobby	7:00 open Registration															
Chastain C	Pecan Research & Extension Forum															
Chastain D	Southern Blueberry/Small Fruit Workers															
Chastain B											Horticulture Administrators					Executive Com.
Chastain E	Watermelon Research Group															
Chastain E	ACB Club Share and Networking															
TBA at Club Share											ACB Activities, Tour, Meal					ACB Mixer
Saturday, January 31																
Room	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00						
Chastain Terrace	7:00 open Registration															
Overlook	Poster Session Set-Up					Poster Session Viewing, Authors at Posters & Judging										
Chastain 1 & 2	Judging Contest Set-Up					J. Benton Storey Horticulture Judging Contest										
Chastain E	Watermelon Research Group															
Chastain G	Vigna Crop Germplasm Committee					National Cowpea Improvement Association										
Chastain B	Extension & Education Section															
Chastain C	Fruit Crops Section					Flor, Orn & Turf Section										
Chastain H	Edmond UG Paper Comp.			Childers M.S. Paper Competition			Barham Ph.D. Paper Comp.									
Sunday, February 1																
Room	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00						
Chastain Terrace	7:00 open Registration															
Overlook	Poster Session Viewing					Poster Take down										
Chastain Room 1	ACB Business Meeting			Business Meeting/Awards Prog.												
Chastain Room 2	Vegetable Crops Section															
Chastain G	Floriculture, Ornamentals & Turf Section															
Chastain H	Fruit Crops Section															
Chastain B	PostHarvest & Biotechnology Sectio															
Agusta Room 1											SAAS Business & Concurrent Sessions					

Super Bowl at Hard Rock Café



in

A banner for the ASHS 2015 event in New Orleans. The left side features a photograph of a black wrought-iron fence with fleur-de-lis finials. The right side contains the text "ASHS 2015" in a bold, sans-serif font, with a green fleur-de-lis symbol between "ASHS" and "2015". Below this, "New Orleans" is written in a cursive script. At the bottom right, "AUGUST 4-7" is displayed in a green box. To the right of the text is a colorful illustration of a saxophone with musical notes and swirls around it.