

PROGRAM



73rd ANNUAL MEETING

Southern Region
of the
American Society for Horticultural Science

February 1-5, 2013
Orlando, FL

Southern Region ASHS

The Southern Region ASHS is a regional scientific society of the American Society for Horticultural Science. 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 300 to 500 active members. Membership is composed of 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 consist of presentations of scientific papers, student paper competitions and judging contest, 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 in the southern regions**
- **Encourage participation in the international society of the American Society for Horticultural Science**

The Southern Region ASHS is recognized widely as the strongest and most active Region of the American Society for Horticultural Science, and has a history that goes back to 1920! Join us and become a part of the Tradition.

President

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PROGRAM
73rd ANNUAL MEETING
Southern Region
American Society for Horticultural Science
Orlando, FL
February 1-4, 2013

SPECIAL EVENTS AND SESSIONS

FRIDAY, February 1, 2013

8:00 am - 5:00 pm **Sweet Potato SCRI**
 Room: Oleander B

SATURDAY, February 2, 2013

7:00 am - 6:00 pm **Registration**
 Room: Hotel Lobby

8:00 am - 5:00 pm **National Sweet Potato Collaborators**
 Room: Oleander B

8:00 am - 5:00 pm **Pecan Research and Extension Forum**
 Room: Largo

8:00 am - 5:00 pm **Southern Blueberry/Small Fruit Workers**
 Room: Tangerine B

10:00 am - 11:30 am **ACB Program, Share Club Activities and Refreshments**
 Room: Lime

12:00 noon - 5:00 pm **ACB Group Lunch and/or Tour**
 Room: TBA

1:00 pm - 5:00 pm **Horticulture Administrators**
 Room: Longboat

5:00 pm - 6:00 pm **Executive Committee Meeting**
 Room: Longboat

6:00 pm - until **ACB Reception and Mixer**
 Room: Lime

SUNDAY, FEBRUARY 3, 2013

7:00 am - 4:00 pm **Registration**
 Room: Citrus Ballroom Foyer

8:00 am - 12:00 pm **Set up Posters**
 Room: Palms Ballroom Salon E

8:00 am - 12:00 noon **J. Benton Storey Horticulture Judging Contest Setup**
 Room: Palms Ballroom Salon I

8:00 am - 10:00 am **Extension Section**
 Room: Palms Ballroom Salon C

8:00 am - 5:00 pm **National Sweet Potato Collaborators**
 Room: Oleander

8:00 am - 4:00 pm **Watermelon Research Group**
 Room: Lime

8:00 am - 10:30 am **J. B. Edmond Undergraduate Student Paper Competition**

	Room:	Lemon
9:00 am – 12:00 noon		Vigna Crop Germplasm Committee
	Room:	Orange
10:00 am - 12:00 pm		Education Section
	Room:	Palms Ballroom Salon C
10:30 am - 2:30 pm		Norman F. Childers M.S. Student Lemon
		Lemon
12:00 noon - 4:00 pm		Poster Session Viewing
	Room:	Palms Ballroom Salon E
12:00 pm - 4:00 pm		J. Benton Storey Horticulture Judging Contest
	Room:	Palms Ballroom Salon I
1:00 pm - 4:00 pm		National Cowpea Improvement Association
	Room:	Orange
2:30 pm - 4:00 pm		Warren S. Barham Ph.D. Student Paper Competition
	Room:	Lemon

SAAS Program

4:00 pm - 4:30 pm		SAAS Business Meeting
	Room:	Jasmine Ballroom
4:00 pm - 5:00 pm		SAAS Graduate Student Mixer
	Room:	Poolside Pavilion
6:00-pm - 10:00 pm		Super Bowl Party
		NASCAR Sports Grille (University City Walk)
		Shuttle starts at 5:00

MONDAY, FEBRUARY 4, 2013

7:00 am - 10:30 am		Registration
	Room:	Citrus Ballroom Foyer
8:00 am - 10:30 pm		Poster Session Viewing
	Room:	Palms Ballroom Salon E
8:00 am - 10:45 am		Vegetable Crops Section
	Room:	Biscayne
8:00 am - 10:30 am		Fruit Crops Section
	Room:	Lime
8:00 am - 10:30 am		Floriculture, Ornamentals and Turf Section
	Room:	Siesta
8:00 am - 9:30 am		Postharvest/Biotechnology/Plant Biology Section
	Room:	Executive Boardroom
9:00 am - 10:30am		ACB Business Meeting
	Room:	Lemon
11:00 am - 12:30 pm		Annual Business Meeting and Award Program
	Room:	Lemon
1:00 pm - 3:00 pm		Vegetable Crops Section
	Room:	Biscayne
1:00 pm - 2:30 pm		Fruit Crops Section
	Room:	Lime
1:00 pm - 2:15 pm		Floriculture, Ornamentals and Turf Section
	Room:	Siesta
1:00 pm - 4:00 pm		Poster Session Take Down
	Room:	Palms Ballroom Salon E

SECTION TITLES

SUNDAY, FEBRUARY 3, 2013

J. B. EDMOND UNDERGRADUATE STUDENT PAPER COMPETITION

Room: Lemon

Presiding: Alaina Tobbe, President, ACB
David Creech, President, SRASHS
John Clark, 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: (jrclark@uark.edu).

8:00 am –10:30 am Order of presentations determined by drawing at beginning of contest.

Assessing the Effects of Horticulture Therapy on School-Aged Children. Clotivel Hernandez^{*1}, Nathan Phillips¹, and Debra H. Sullivan², School of Agribusiness and Agriscience, Middle Tennessee State University, Murfreesboro, TN 37132, ²School of Nursing, Middle Tennessee State University, Murfreesboro, TN, 37132. (ch4a@mtmail.mtsu.edu)

Cool Season Bedding Plant Leaf Tissue Content In Relationship to Lime Rates. Ben Agnew^{*} and Ed Bush, 137 J. C. Miller Hall, LSU Ag Center, Baton Rouge LA, 70803. (ebush@agctr.lsu.edu)

Descriptive Sensory Analysis and Composition of Blackberry Genotypes. Bethany Sebesta^{1*}, John R. Clark¹, Renee T. Threlfall², and Luke R. Howard², ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²Department of Food Science, University of Arkansas, Fayetteville, AR 72701. (bmstone@uark.edu)

Effect of 4-CPA on Fruit Set and Yield of Heat Tolerant Tomato Cultivars. Shamali Dennery and Dilip Nandwani, Agricultural Experiment Station, University of the Virgin Islands, Kingshill VI 00850. (dnandwa@live.uvi.edu)

Evaluation of Cover Crops in High Tunnel Vegetable Production Rotation. Tyler A. Patrick and Curt. R. Rom, Department of Horticulture, 316 Plant Science, University of Arkansas, Fayetteville, AR 72701. (txp004@email.uark.edu)

Influence of Nitrogen Source and Rate on Growth

and Leaf Nutrient Content of a Taxodium Clone. Spence Simmons^{*} and D. L. Creech, Agriculture Department, Stephen F. Austin State University, Nacogdoches, TX 75962-3000. (spence32188@yahoo.com)

Influence of Organic Groundcovers on Mycorrhizal Colonization and Symbiosis of Organically Managed Fruit Crops. Raven A. Bough^{*} and Curt R. Rom. Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (rbough@uark.edu)

Release Curves of Calcium and Magnesium Fertilizers in Nursery Production. Lee Rouse^{*} and Ed Bush, 137 J. C. Miller Hall, LSU Ag Center, Baton Rouge LA, 70803. (ebush@agctr.lsu.edu)

Substitution of a Soilless Medium with Yard Waste Compost for Basil Transplant Production. Courtney D. DeKalb^{*1}, Brian A. Kahn¹, Allen V. Barker², and Bruce L. Dunn^{1, 1} 358 Agricultural Hall, Oklahoma State University, Stillwater, OK 74078, ² 202 Bowditch Hall, University of Massachusetts, Amherst, MA 01003. (brian.kahn@okstate.edu)

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

Room: Lemon

Presiding: Curt Rom, 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: (crom@uark.edu).

10:30 am – 2:30 pm Order of presentations determined by drawing at beginning of contest.

A new grafting procedure decreases grafting cost and increases grafting efficiency by eliminating rootstock re-growth. Shawna Daley^{*} and R.L. Hassell, School of Agriculture, Forest, and Environmental Sciences, Clemson University Coastal REC, Charleston, SC 29414. (sdaley@clemson.edu)

A Physiological Comparison of Heat Tolerance Between Two Cultivars of Ivy Geranium (*Pelargonium peltatum*). Anna M. Horton^{1*}, Richard L. Harkess¹, David Chevalier², Guihong Bi³ and Cetin Yuceer⁴, ¹Department of Plant and Soil Sciences, Mississippi State University, Starkville, MS 39759, ²Department of Biological Sciences, Mississippi State University, Starkville, MS 39759,

³Truck Crop Experiment Station, Mississippi State University, Crystal Springs, MS 39059, ⁴Department of Wildlife Fisheries and Aquaculture, Mississippi State University, Starkville, MS 39759. (rharkess@pss.msstate.edu)

Comparing Phenotypical Variation Among Echinacea purpurea and Echinacea angustifolia Varieties Grown as Medicinal Herbs in Two Environments. Jennifer Crumley^{1*}, Lijing Zhou¹, John Balles², and Jeanine Davis¹. Dept. of Horticultural Science, NC State University, Mountain Horticultural Crops Research and Extension Center, 455 Research Drive, Mills River, NC 28759, ² Nutrition Product Development, Amway Corporation, 19600 6th St., Lakeview, CA 92567. (Jennifer_Crumley@ncsu.edu)

Determining Salinity Tolerance of Three High Plains Bedding Plant Species in a Hydroponics Setting. Rebecca Grubbs^{1*}, C.B. McKenney¹, D.T. Montague¹, & S. Oswald², ¹Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409-2122, ² Bayer Crops Science Trait Development, 1301 East 50th St., Lubbock, TX 79404. (rebecca.grubbs@ttu.edu)

Effects of Cover Crops and Reduced Tillage on Yield and Weed Population in Organic Lettuce Production Yushen Huang*, Xin Zhao, Carlene A. Chase, and Jason M. Neumann, Horticultural Sciences Department, University of Florida, Gainesville, FL 32611. (zxin@ufl.edu)

Evaluation of an Organic Nitrogen Source in a Yellow Squash - Collard Rotation. C.Z. Ogles^{1*}, J.M. Kemble¹, A.N. Wright¹, and E.A. Guertal², Auburn University, ¹ Dept. of Horticulture, 101 Funchess Hall, Auburn, AL 36849, ² 201 Funchess Hall, Dept. of Agronomy & Soils, Auburn, AL., 36849, (kembljm@auburn.edu)

Evaluation of Salinity Effects on Four Texas Native Plants Using a Hydroponics System. Jessica Poole*, C.B. McKenney, and D.T. Montague, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409-2122. (jessica.poole@ttu.edu)

Implementing Irrigation on Small-Scale Farms: An Economic Feasibility Study Using Sweet Potato Irrigation. Rockiell Woods^{*1}, Gretchen F. Sassenrath², John Halloran³, and Wesley Whittaker⁴, ¹Alcorn State Experiment Station, Mound Bayou, MS, 38762, ²USDA-ARS Crop Production Systems Research Unit, Stoneville, MS 38776, ³USDA-ARS New England Plant, Soil and Water Research Laboratory, University of Maine, Orono, ME, 04469,

⁴Alcorn State University, Department of Agriculture Education, Alcorn State, MS 39096. (rwoods@alcorn.edu)

Influence of Planting Density on Growth and Fruit Yield of Grafted Tomatoes Ruhiyyih Dyrdaahl-Young^{1*}, Xin Zhao¹, Stephen M. Olson², and Jason M. Neumann¹, ¹Horticultural Sciences Department, University of Florida, Gainesville, FL 32611, ²North Florida Research and Education Center, Quincy, FL 32351. (zxin@ufl.edu)

Optimizing Sweetpotato Seed Bed Density for Plant Production. Susan L. Barkley*, Jonathan R. Schultheis, Katie M. Jennings, Department of Horticultural Sciences, North Carolina State University, Raleigh, NC 27695-7609. (slweiss2@ncsu.edu)

Phosphorus uptake by two southeastern native plant species in flooded and non-flooded bioretention substrates. Amanda Meder* and A.N. Wright, Department of Horticulture, Auburn University, Auburn, AL, 36849. (alm0040@auburn.edu)

Planting/Population Density and Its Effects on Yield and Quality of Sweet Corn (*Zea Mays*.) Kyle Schmitt^{1*}, Jonathan Schultheis¹, and Chris Gunter¹, Department of Horticultural Science, North Carolina State University, Raleigh, NC 27606, Ron Heiniger², Vernon G. James Research & Extension Center 207 Research Station Road, Plymouth, NC 27962. (kcschmit@ncsu.edu)

Response of Hydroponic Bibb Lettuce (*Lactuca sativa*) to Salt Additives in Integrated Aquaponic Systems W. Robert Beauchamp*¹, Jeff L. Sibley¹, Jesse A. Chappell², N. Rob Martin³, and Jeremy M. Pickens¹. ¹Department of Horticulture, Funchess Hall; ²Department of Fisheries and Allied Aquacultures, Swingle Hall; ³Emeritus Professor, Department of Agricultural Economics and Rural Sociology, Comer Hall; Auburn University, AL 36849. (wrb0007@auburn.edu)

Saline Irrigation of Selected Annual Bedding Plants for the Southeastern United States. Judson S. LeCompte^{1*}, Amy N. Wright¹, J. Raymond Kessler¹, Charlene Lebleu², ¹Department of Horticulture, 101 Funchess Hall, Auburn University, AL 36849, ²Department of Landscape Architecture, 305 Dudley Hall, Auburn University, AL 36849. (jsl0009@auburn.edu).

Utilization of Pigeon Pea (*Cajanus cajan* L.) and Sorghum Sudangrass [*Sorghum bicolor* (L.) Moench var. *sudanense* (Piper) Hitchc.] Summer

Cover Crops to Improve Yield of Fall Cabbage. Dakson Sanon^{1*}, Danielle D. Treadwell¹, Lincoln Zotarelli¹, and Oscar E. Liburd², ¹ Department of Horticultural Sciences, University of Florida, P.O. Box 110690, Gainesville, FL 32611, ²Department of Entomology and Nematology, University of Florida, Bldg.970, Natural Area Dr., Gainesville, FL 32611 (dsanon@ufl.edu)

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

Room: Lemon

Presiding: Curt Rom, 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: (crom@uark.edu).

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

Anthocyanin profile of organically grown blackberries Moo Jung Kim¹, Penelope Perkins-Veazie², and Gina Fernandez¹ ¹Department of Horticulture Sciences, North Carolina State University, Raleigh NC 27695; ²Plants for Human Health Institute, NC Research Campus, North Carolina State University, Kannapolis, NC 28081 (mkim10@ncsu.edu)

Effects of Nitrogen Rates on Reblooming Iris. Xiaojie Zhao^{1*}, Guihong Bi², and Richard L. Harkess¹. ¹Department of Plant and Soil Sciences, Mississippi State University, Starkville, MS 39759, ²Truck Crop Experiment Station, Mississippi State University, Crystal Springs, MS 39059, (gb250@msstate.edu)

Evaluation of Irrigation Scheduling Regimes for Drip Irrigated Sweetpotatoes in Eastern North Carolina. Robert L. Vick, Jr.^{1*}, Jonathan R. Schultheis², and Garry L. Grabow¹, ¹Department of Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC 27695, ²Department of Horticultural Science, North Carolina State University, Raleigh,

Grafting Specialty Melons for Root-knot Nematode Management Wenjing Guan^{1*}, Xin Zhao¹, Donald W. Dickson², and Judy Thies³, ¹Horticultural Sciences Department, ²Entomology and Nematology Department, University of Florida, Gainesville, FL 32611, ³USDA, ARS, U.S. Vegetable

Laboratory, 2700 Savannah Highway, Charleston, SC 29414. (zxin@ufl.edu)

Irrigation and tillage regime affects soil quality and yield of bell pepper (*Capsicum annuum* L.). Zheng Wang* and Timothy Coolong, Department of Horticulture, University of Kentucky, Lexington, KY 40546-0091. (zheng.wang@uky.edu)

Soil Type and Cultivar Effect on Root Growth and Stomatal Conductance of Muskmelon (*Cucumis melo* L.). Sat Pal Sharma^{1*}, Daniel Leskovar¹, Kevin M. Crosby², A.M.H Ibrahim³ and Astrid Volder², ¹Texas A&M AgriLife Research and Extension Center, 1619 Garner Field Rd, Uvalde, TX 78801, ²Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, ³Department of Soil and Crop Sciences, Texas A&M University, College Station, TX 77843 (sharma145@neo.tamu.edu)

EXTENSION SECTION

Room: Palms Ballroom Salon C

Presiding: Kathryn Fontenot

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

8:00 Teaching and Demonstration of Urban Nano Farm Techniques. Gary R. Bachman*, Coastal Research and Extension Center, Mississippi State University, Biloxi, MS 39532. (gbachman@ext.msstate.edu)

8:15 Timely Communication to Nursery and Landscape Industry Clientele: Facebook, E-News Updates and Trial Garden Reports. Allen Owings*, LSU AgCenter, Hammond Research Station, 21549 Old Covington Hwy, Hammond, LA 70403. (aowings@agcenter.lsu.edu)

8:30 Promoting The Crosby Arboretum Through Social Media. Richelle Stafne*, Mississippi State University Extension Service P.O. Box 1639, 370 Ridge Road, Picayune, MS 39466. (rstafne@ext.msstate.edu)

8:45 Twitter for the Extension Specialist. Eric T. Stafne*, Coastal Research and Extension Center, Mississippi State University Poplarville, MS 39470. (estafne@ext.msstate.edu)

9:00 Break

- 9:15 Integrating Teaching, Research and Community Outreach Using Coastal Roots Nursery Program.** Edward Bush^{1*} and Pam Blanchard², ¹LSU AgCenter, School of Plant, Environmental and Soil Sciences Louisiana State University 147 JC Miller Hall, Baton Rouge, LA 70803, ² Louisiana State University Curriculum and Instruction 223-D Peabody Hall, Baton Rouge, LA 70803. (ebush@agcenter.lsu.edu)
- 9:30 Using Electronic Newsletters to Communicate with the School Garden Community.** Kathryn Fontenot*, LSU AgCenter, School of Plant, Environmental and Soil Sciences 155 JC Miller Hall, Baton Rouge, LA 70803. (kkfontenot@agcenter.lsu.edu)
- 9:45 Horticulture Extension in China: 2 Case Studies.** Mengmeng Gu^{1*}, Yan Chen², Guihong Bi³, Genhua Niu⁴, and James A. Robbins⁵. ¹Texas A&M Agrilife Extension, College Station, TX, 77843, ²LSU AgCenter, Hammond Research Station, 21549 Old Covington Hwy, Hammond, LA, 70403, ³Mississippi State University, Truck Crops Expt. Sta., Crystal Springs, MS, 39059, ⁴Texas A&M Agrilife Research, El Paso, TX 79927, ⁵Univ. of Arkansas, Little Rock, AR 72204. (mgu@tamu.edu)

EDUCATION SECTION

Room: Palms Ballroom Salon C

Presiding: Garry McDonald

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

- 10:00 Experiences Teaching Plant Growth and Development Online.** Richard L. Harkess, Dept. Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762. rharkess@pss.msstate.edu
- 10:15 Where Did All the Students Go?** Cynthia B. McKenney* and Thayne Montague, Department of Plant and Soil Science, Texas Tech University, Lubbock TX 79409-2122 (cynthia.mckenney@ttu.edu)
- 10:30 Extending the International Experience into the Horticulture Classroom: The Creation and Use of Reusable Learning Objects (RLOs).** M'Randa Sandlin*, Theresa Pesl

Murphrey, Kim Dooley, James Lindner, Leo Lombardini, and Dan Lineberger, Department of Agricultural Leadership, Education, and Communications, Ag and Life Sciences Building, 600 John Kimbrough Boulevard, Room 128J, Texas A&M University, College Station, TX 77843-2116 (msandlin@tamu.edu)

- 10:45 Use of Interaction and Chat Platforms to Bring Connections to an On-line Class.** C.R. Rom*, Department of Horticulture, Plant Sciences 316, University of Arkansas, Fayetteville, AR 72701 (crom@uark.edu)

11:00 Bread

- 11:15 Teaching a Greenhouse Management Laboratory On-Line.** Michael R. Evans* Department of Horticulture, Plant Sciences 316, University of Arkansas, Fayetteville, AR 72701(mrevans@uark.edu)

- 11:30 Using Blogs to Communicate Student International Experiences** Mengmeng Gu^{1*}, Xin Zhao², Guihong Bi³, and James A. Robbins⁴, ¹Texas Agrilife Extension, College Station, TX 77843, ²Horticultural Sciences Department, 1235 Fifield Hall, University of Florida, P.O. Box 110660, ³Mississippi State University, Truck Crops Expt. Sta., Crystal Springs, MS 39059, ⁴Division of Agriculture, University of Arkansas System, Little Rock, AR 72204. (mgu@tamu.edu)

- 11:45 Opportunities and Challenges in Internationalizing Organic Agriculture Education.** Xin Zhao^{1*}, Charlene A. Chase¹, Marilyn E. Swisher², and Teresa Briz³, ¹Horticultural Sciences Department, ²Department of Family, Youth and Community Sciences, University of Florida, Gainesville, FL 32611, ³Agricultural Economics Department, Polytechnic University of Madrid, Madrid Spain 28040. (zxin@ufl.edu)

VEGETABLE CROPS SECTION

Room: Largo

Presiding: Chris Gunter

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

- 1:00 Sensory Attributes of Tomato and**

- Muskmelon Fruits as Affected by Grafting**
Xin Zhao^{1*}, Charles A. Sims², Charles E. Barrett¹, and Eric Q. Dreyer², ¹Horticultural Sciences Department, ²Food Science and Human Nutrition Department, University of Florida, Gainesville, FL 32611. (zxin@ufl.edu)
- 1:15 Influence of Planting Density on Growth and Fruit Yield of Grafted Tomatoes Ruhyyih Dyr Dahl-Young^{1*}, Xin Zhao¹, Stephen M. Olson², Robert McSorley³, and Jason M. Neumann¹**, ¹Horticultural Sciences Department, University of Florida, Gainesville, FL 32611, ²North Florida Research and Education Center, Quincy, FL 32351, ³Entomology and Nematology Department, University of Florida, Gainesville, FL 32611. (zxin@ufl.edu)
- 1:30 Nitrogen Rates Effects on Yields and Profitability of Tomato with Subsurface Irrigation in Florida.** Monica Ozores-Hampton^{1*}, Eric Simonne², Fritz Roka¹, Kelly Morgan¹, Steven Sargent², Crystal Snodgrass³ and Eugene McAvoy⁴. ¹University of Florida, Institute of Food and Agricultural Sciences, South West Florida Research and Education Center, Immokalee, FL. ²University of Florida, Institute of Food and Agricultural Sciences, Horticultural Sciences Department, Gainesville, FL. ³Manatee County Extension Service, Palmetto, FL. ⁴Hendry County Extension Service, LaBelle, FL. ozores@ufl.edu.
- 1:45 Effect of Plant Population and Pruning on Grafted Tomatoes for Open Field Production.** Joshua H. Freeman* and Theodore P. McAvoy, Virginia Tech, Eastern Shore Agricultural Research and Extension Center, Painter, VA 23420. (joshfree@vt.edu)
- 2:00 Evaluation of Colored Shade Cloth in Tomato Production in Oklahoma.** Joshua W. Chaney*, Charles T. Rohla and Steve D. Upson, The Samuel Roberts Noble Foundation, Ardmore, OK 73401. (jwchaney@noble.org)
- 2:15 Break**
- 2:30 Nitrogen Rate Effect Using a Hybrid Controlled-Release and Soluble Fertilizer Program on Tomato Production in South Florida.** Luther C. Carson*, Monica Ozores-Hampton, and Kelly T. Morgan, Southwest Florida Research and Education Center, University of Florida, Immokalee, FL 34142. (ozores@ufl.edu).
- 2:45 Influence of a Soil Surfactant on the Lateral Movement and Control of Nutsedge (*Cyperus* spp.) Populations with Metam Potassium in Tomato and Pepper.** Bielinski M. Santos*, Gulf Coast Research and Education Center, IFAS, University of Florida, Wimauma, FL 33598 (bmsantos@ufl.edu).
- 3:00 Methods for controlling soil moisture-based irrigation in field-grown vegetables.** Timothy Coolong* and Zheng Wang, Department of Horticulture, University of Kentucky, Lexington, KY 40546-0091. (timcoolong@uky.edu)
- 3:15 Irrigation and tillage regime affects soil quality and yield of bell pepper (*Capsicum annuum* L.).** Zheng Wang* and Timothy Coolong, Department of Horticulture, University of Kentucky, Lexington, KY 40546-0091.
- 3:30 Implementing Irrigation on Small-Scale Farms: An Economic Feasibility Study Using Sweet Potato Irrigation. Rockiell Woods^{*1}, Gretchen F. Sassenrath², John Halloran³, and Wesley Whittaker⁴**, ¹Alcorn State Experiment Station, Mound Bayou, MS, 38762, ²USDA-ARS Crop Production Systems Research Unit, Stoneville, MS 38776, ³USDA-ARS New England Plant, Soil and Water Research Laboratory, University of Maine, Orono, ME, 04469, ⁴Alcorn State University, Department of Agriculture Education, Alcorn State, MS 39096. (rwoods@alcorn.edu)
- 3:45 Inheritance of pericarp thickness and fruit shape traits of consumer interest in *Capsicum annuum*.** Dene K. Salazar^{*1}, Ann M. Greene¹, Lucianne Vilharinho^{1,2}, and Bala Rathinasabapathi¹ ¹Horticultural Sciences Department, University of Florida, Gainesville, FL 32611-0690, ²Universidade Federal de Roraima, Aeroporto-Boa Vista 69304220, Brazil

POSTERS

Room: Palms Ballroom Salon E
Presiding: Bodie Pennisi

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

Set-Up: Sunday, 8:00 am –12:00 pm

Poster Viewing Sunday noon to Monday 10:30 am

Authors at Poster:

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

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

Students in Competition at Poster:

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

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

Take-down: Monday, 1:00 pm – 4:00 pm

Student Poster Competition

“G” or “U” 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 appointed time listed above.

Floriculture, Ornamentals and Turf

- 1) **Salinity Tolerance of Lantana X 'Luscious Citrus', Buddleia davidii 'Nanho Blue', and Artemesia schmidtiana 'Silver Mound'** Genhua Niu¹, Youping Sun¹, and Pedro Osuna², ¹Texas A&M AgriLife Research Center at El Paso, 1380 A&M Circle, El Paso, TX 79927, ²Universidad Autónoma de Cd. Juárez, Chihuahua, México
- 2) **Effect of Ethylene on Adventitious Root Formation in Abelia.** Bodie Pennisi* and C. Robacker. University of Georgia, Dept. of Horticulture, 1109 Experiment St. Griffin, GA 30223 (bpennisi@uga.edu)

Fruit Crops

- 3U) **Characterization of Seediness Attributes of Blackberry Genotypes.** Bethany Sebesta^{1*}, John R. Clark¹, Renee T. Threlfall², and Luke R. Howard², ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²Department of Food Science, University of Arkansas, Fayetteville, AR 72701. (bmstone@uark.edu)
- 4U) **Papaya: The Influence of Sex on Plant Height and Production.** Tyrone Pascal* and Thomas W. Zimmerman, Agricultural Experiment Station, University of the Virgin Islands, RR#1 Box 10,000, Kingshill, VI 00850. (tzimmer@live.uvi.edu)
- 5G) **Characterization and Lineage Verification of**

NC Raspberry Germplasm Using Microsatellite Markers Christine Bradish*, Nahla Bassil, April Nyberg, Gina Fernandez; Department of Horticultural Science; North Carolina State University, Campus Box 7609 Raleigh, NC 27695 (cmbradis@ncsu.edu)

- 6) **Blueberry Cultivar Trial in Central Mississippi: 2012 Yield and Fruit Quality Update.** William B. Evans^{1*} Sarah Reynolds¹ and Donna Marshall². IMAFES Truck Crops Branch, P.O. Box 231, Crystal Springs, MS 39059-0231; USDA Thad Cochran Southern Horticultural Laboratory, 810 Highway 26 West (P. O. BOX 287) Poplarville MS 39470 (bill.evans@msstate.edu)
- 7) **Evaluation of Antioxidant Potential of Selected Georgia-grown Banana Cultivars: An Underutilized Fruit Crop.** F.M. Woods^{*1}, E.G. Fonsah², E. Coneva¹, E.L. Vinson¹ and J.S. Parker³. ¹101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, ²230 Rainwater Road, Department of Agricultural and Applied Economics, University of Georgia, Tifton, GA 31793. ³Coastal Botanic Garden, 2 Canebrake Road Savannah, GA31419
- 8) **Response of Muscadine Grape (*Vitis rotundifolia* Michx) Cultivars to Cane Pruning.** Stephen J. Stringer*, Donna A. Marshall and Blair J. Sampson. USDA ARS Thad Cochran Southern Horticultural Laboratory, Poplarville, MS, 39466. Stephen.Stringer@ars.usda.gov
- 9) **Storage retention of Stilbene, Ellagic Acid, Flavonol, and Phenolic Content of Muscadine Grape (*Vitis rotundifolia* Michx.) Cultivars** Donna A. Marshall, and Stephen J. Stringer. USDA-ARS Thad Cochran Southern Horticultural Laboratory, Poplarville, MS 39470, USA; Address correspondence to this author at USDA-ARS Thad Cochran Southern Horticultural Laboratory, Poplarville, MS 39470, USA; E-mail: Donna.Marshall@ars.usda.gov
- 10) **Growth of Seedling *Vaccinium arboreum* Influenced by Provenance and Substrate pH.** Jonathan Meador¹, James Spiers^{*1}, Elina Coneva¹, Jeff Sibley¹, and Rebecca Darnell², ¹101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849, ²1131 Fifield Hall, Department of Horticultural Sciences, University of Florida,

Gainesville, FL 32611. (jds0017@auburn.edu)

- 11) **Pitaya (*Hylocereus* sp.) Cultivation in the CNMI**. Dilip Nandwani^{1*} and Anthony Tudela, ^{*} Plant Science Laboratory, Agricultural Experiment Station, University of the Virgin Islands, Kingshill, VI 00850, ²Cooperative Research, Extension and Education Service (CREES), Northern Marianas College, Saipan MP 96950 (dilipnandwani@yahoo.com)

Vegetable Crops

- 12U) **Differences in Phenotype, Growth, and Maturation among Five Accessions of *Mucuna pruriens* (Velvetbean) Grown in Middle Tennessee.** Ethan M. Swiggart, Bryan Sallman, and Nathan C. Phillips, School of Agribusiness and Agriscience, Middle Tennessee State University, Murfreesboro, TN 37130. (Eswiggart@gmail.com)

- 13G) **Use of Fatty Alcohol Treatments to Control Rootstock Regrowth in Grafted Watermelon (*Citrullus lanatus* [Thunb.].** Shawna Daley* and R.L. Hassell, School of Agriculture, Forest, and Environmental Sciences, Clemson University Coastal REC, Charleston, SC 29414. (sdaley@clemson.edu)

- 14G) **Pigeon Pea (*Cajanus cajan* L.) and Sorghum Sudangrass [*Sorghum bicolor* (L.) Moench var. *sudanense* (Piper) Hitchc.] Management Changes Populations of Pest and Beneficial Insects in Cabbage.** Dakson Sanon^{1*}, Dr. Danielle D. Treadwell¹, Dr. Lincoln Zotarelli¹, and Dr. Oscar E. Liburd², ¹ Department of Horticultural Sciences, University of Florida, P.O. Box 110690, Gainesville, FL 32611, ² Department of Entomology and Nematology, University of Florida, Bldg.970, Natural Area Dr., Gainesville, FL 32611 (dsanon@ufl.edu)

- 15) **Growth of Tomato (*Lycopersicon esculentum*) Seedlings in Commercial Substrate Amended with Dewatered Aquaculture Effluent.** Jason J. Danaher^{1*}, Jeffrey L. Sibley², Jesse A. Chappell¹, Jeremy M. Pickens², Terrill R. Hanson¹, Claude E. Boyd¹, ¹ Auburn University, Department of Fisheries and Allied Aquaculture, 203 Swingle Hall, Auburn, AL 36849, ² Auburn University, Department of Horticulture, 101 Funchess Hall, Auburn, AL 36849. (jjd0011@auburn.edu)

- 16) **Can Exogenous Abscisic Acid Application Improve Survival Rate and Quality of**

Grafted Tomato Transplants? Shuan Hao Teo^{1*}, Xin Zhao¹, Craig Campbell², and Stephen M. Olson³, ¹Horticultural Sciences Department, University of Florida, Gainesville, FL 32611, ²Valent Biosciences Corporation, Ocoee, FL 34761, ³North Florida Research and Education Center, Quincy, FL 32351. (zxin@ufl.edu)

- 17) **Responses of Bioactive Compounds in Jalapeño Peppers to Potassium Fertilization** John Jifon^{1*}, Gene Lester, Kevin Crosby, Daniel Leskovar; ¹Texas A&M AgriLife Research and Extension Center, Weslaco, TX 78596. (jljifon@ag.tamu.edu).

- 18) **Economics of Growing Microgreens for the Local Food Market.** Gary R. Bachman*, Coastal Research and Extension Center, Mississippi State University, Biloxi, MS 39532 (gbachman@ext.msstate.edu)

- 19) **Grower Trials for Heat-Set Capabilities in Tomato.** Lynn Brandenberger^{1*}, Brian Kahn¹, and Jim Shrefler², ¹358 Agriculture Hall, Stillwater, OK 74078, ²P.O. Box 749, Durant, OK 74702, (lynn.brandenberger@okstate.edu)

- 20) **Heavy Pest Pressure in 2012 Pumpkin Variety Trial.** George E. Boyhan^{1*}, Suzanne C. Tate¹, Ryan D. McNeil¹, and William A. Mills², ¹Department of Horticulture, University of Georgia, 1111 Miller Plant Science Bldg., Athens, GA 30602, ²Attapulugus Research & Education Center, PO Box 189, Attapulugus, GA 39815. (gboyhan@uga.edu)

- 21) **Comparison of Tomato Varieties Under Organic Production Practices.** George E. Boyhan*, Jeffrey McConnaughey, Suzanne C. Tate, and Ryan D. McNeil, Department of Horticulture, University of Georgia, 1111 Miller Plant Science Bldg., Athens, GA 30602. (gboyhan@uga.edu)

- 22) **Cool Season Organic Vegetable Rotation for the Southeast: A Wholistic Assessment.** George E. Boyhan^{1*}, Julia W. Gaskin¹, Elizabeth L. Little¹, E. Greg Fonsah², Sam K. Tshikala¹, Suzanne Tate¹, and Ryan McNeil¹, ¹Department of Horticulture, University of Georgia, 1111 Miller Plant Science Bldg., Athens, GA 30602, ²Agricultural Economics, PO Box 1209, Tifton, GA 31793. (gboyhan@uga.edu)

- 23) **Effect of Preemergence Herbicide on Weed Control in Eggplant (*Solanum melongena* L.)**

Dilip Nandwani, Plant Science Laboratory, Agricultural Experiment Station, University of the Virgin Islands, Kingshill, VI 00850 (dnandwa@live.uvi.edu)

- 24) **Evaluation of Reflex (fomesafen) Herbicide for Watermelon in Oklahoma.** James Shrefler¹, Merritt Taylor¹, Lynn Brandenberger² and Charles Webber III³, ¹Wes Watkins Agricultural Research and Extension Center, Oklahoma State University, P O Box 128, Lane, OK 74555, ²Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078 and Sugarcane Research Unit, United States Department of Agriculture, Agricultural Research Service, 5883 USDA Road, Houma, LA 70360. (jim.shrefler@okstate.edu)

Cross Commodity

- 25U) **Hibiscus sabdariffa Breeding for Plant Improvement.** Kalunda Cuffy*, Khalid Matthew, Kenya Emanuel and Thomas W. Zimmerman, Agricultural Experiment Station, University of the Virgin Islands, RR#1 Box 10,000, Kingshill, VI 00850. (tzimmer@live.uvi.edu)
- 26) **Freezing Characteristics of Soils with Various Moisture Content.** Bodie Pennisi^{*1}, O. Lindstrom¹, and M. Habtessellassie². University of Georgia, Dept. of Horticulture, 1109 Experiment St. Griffin, GA 30223; ² University of Georgia, Dept. of Crop and Soil Sciences (bpennisi@uga.edu)
- 27) **Overview of the ASHS Local Foods Working Group.** Christine Coker, Coastal Research and Extension Center, Mississippi State University, Biloxi, MS 39532. (ccoker@ra.msstate.edu)
- 28) **The Role of Universities in Local Food Systems.** Christine Coker, Coastal Research and Extension Center, Mississippi State University, Biloxi, MS 39532. (ccoker@ra.msstate.edu)

Monday, February 6, 2012

POSTERS

Room: Palms Ballroom Salon E
Presiding: Bodie Pennisi

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

Set-Up: Sunday, 8:00 am –12:00 pm

Poster Viewing Sunday noon to Monday 10:30 am

ANNUAL BUSINESS MEETING AND AWARDS PROGRAM

Room: Lemon

Time: 11:00 – 12:30

Presiding: David Creech, President

VEGETABLE CROPS SECTION

Room: Biscayne

Presiding: Chris Gunter

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

Morning Session

- 8:00 Microgreens: Specialty Crop for the Local Food Market.** Gary R. Bachman*, Coastal Research and Extension Center, Mississippi State University, Biloxi, MS 39532 (gbachman@ext.msstate.edu)
- 8:15 Comparison of In-row Distances of Determinate and Indeterminate Colored Bell Pepper (*Capsicum annuum*) under High Tunnel Culture.** Emmanuel A. Torres-Quezada* and Bielinski M. Santos, Gulf Coast Research and Education Center, IFAS, University of Florida, Wimauma, FL 33598 (bmsantos@ufl.edu).
- 8:30 Conducting Variety Trials for an Emerging Southeastern Hops Industry.** Jeanine Davis^{1*}, Scott King², and Robert Austin². ¹Dept. of Horticultural Science, NC State University, Mountain Horticultural Crops Research and Extension Center, 455 Research Drive, Mills River, NC 28759, ²Dept. of Soil Science, NC State University, Box 7619, Raleigh, NC 27695. (jeanine_davis@ncsu.edu)
- 8:45 Studies in Support of Western NC Mountain Broccoli Production.** Jeanine Davis* and Emily Bernstein, Dept. of Horticultural Science, NC State University,

Mountain Horticultural Crops Research and Extension Center, 455 Research Drive, Mills River, NC 28759.
(Jeanine_Davis@ncsu.edu)

9:00 Comparing Phenotypic Variation

Among *Echinacea purpurea* and *Echinacea angustifolia* Varieties Grown as Medicinal Herbs in Two

Environments. Jennifer Crumley^{1*}, Lijing Zhou¹, John Balles², and Jeanine Davis¹. Dept. of Horticultural Science, NC State University, Mountain Horticultural Crops Research and Extension Center, 455 Research Drive, Mills River, NC 28759, ² Nutrition Product Development, Amway Corporation, 19600 6th St., Lakeview, CA 92567. (Jennifer_Crumley@ncsu.edu)

9:15 Break

9:30 Phytoremediation of Aquaculture Effluent Using Beit Alpha Cucumber

Production. Jeremy M. Pickens¹, Jeff L. Sibley¹, Jesse A. Chappell², Jason J. Danaher², Terrill R. Hanson², Claude E. Boyde². 1101 Funches Hall, Department of Horticulture, Auburn University, AL, 36849, 2203 Swingle Hall, Department of Fisheries and Allied Aquaculture, Auburn University, AL, 36849 (pickej@auburn.edu)

9:45 Micropropagation of *Artemisia annua*, a Medicinal Plant with Anti-malarial and Anti-cancer Activities.

Theophilus M. Mutui¹, Jorge F.S. Ferreira², and Hazel Y. Wetzstein^{3*}, ¹Department of Seed, Crop and Horticultural Sciences, Chepkoilel University College (Moi University), P.O. Box 1125-30100, Eldoret, Kenya, ²US Salinity Laboratory, USDA/ARS, 450 W. Big Springs Rd., Riverside, CA 92507-4617, ³Department of Horticulture, 1111 Plant Science Building, University of Georgia, Athens, GA 30602-7273. (hywetz@uga.edu)

10:00 Evaluation of Pollenizer Varieties for Triploid Watermelon (*Citrullus lanatus*) Production in Southwestern Indiana.

Shubin K. Saha^{1*} and Dan Egel², ¹Horticulture and Landscape Architecture Department, ²Botany and Plant Pathology Department, Southwest Purdue Ag Program, Purdue University, Vincennes, IN 47591. (ssaha@purdue.edu)

10:15 Degradeable Mulches May Have a Place

in Southern Vegetable Farming. William B. Evans*, Richard G. Snyder, and Vasile Cerven. MAFES Truck Crops Branch, P.O. Box 231, Crystal Springs, MS 39059-0231. (bill.evans@msstate.edu)

10:30 High Tunnel Vegetable Update From Mississippi: Crops, Fertilizers, and Production techniques.

William B. Evans*, Guihong Bi and Vasile Cerven. MAFES Truck Crops Branch, P.O. Box 231, Crystal Springs, MS 39059-0231. (bill.evans@msstate.edu)

Afternoon Session

1:00 Soil Type and Cultivar Effect on Root Growth and Stomatal Conductance of Muskmelon (*Cucumis melo* L.).

Sat Pal Sharma^{1*}, Daniel Leskovar¹, Kevin M. Crosby², A.M.H Ibrahim³ and Astrid Volder², ¹Texas A&M AgriLife Research and Extension Center, 1619 Garner Field Rd, Uvalde, TX 78801, ²Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, ³Department of Soil and Crop Sciences, Texas A&M University, College Station, TX 77843 (sharma145@neo.tamu.edu)

1:15 Plant Spacing Affects Number and Weight of Small Paintable Pumpkins.

Greg D. Hoyt^{1*} and Liz A. Driscoll², Departments of Soil Science and Horticultural Science, North Carolina State University, ¹ Mountain Horticultural Crops Research & Extension Center, 455 Research Drive, Mills River, NC 28759, ² Department of Horticulture, 218 Kilgore Hall, Raleigh, NC 27695-7609. (greg_hoyt@ncsu.edu)

1:30 Growth and Yield Response of Okra (*Abelmoschus esculentus*) in the island of St. Croix

Dilip Nandwani, Plant Science Laboratory, Agricultural Experiment Station, University of the Virgin Islands, Kingshill, VI 00850 (dnandwa@live.uvi.edu)

1:45 Selected Insecticides for Soil Insect

Control in Sweetpotato. Shaun A. Francis*, James O. Garner and Obadiah M. Njue, Department of Agriculture, University of Agriculture at Pine Bluff, 1200 North University Drive, Mail Slot 4913, Pine Bluff, AR 71601 (francis5739@uapb.edu)

- 2:00 Grafting Specialty Melons for Root-knot Nematode Management** Wenjing Guan^{1*}, Xin Zhao¹, Donald W. Dickson², and Judy Thies³, ¹Horticultural Sciences Department, ²Entomology and Nematology Department, University of Florida, Gainesville, FL 32611, ³USDA, ARS, U.S. Vegetable Laboratory, 2700 Savannah Highway, Charleston, SC 29414. (zxin@ufl.edu)
- 2:15 Break**
- 2:30 Effects of Cover Crops and Reduced Tillage on Yield and Weed Population in Organic Lettuce Production.** Yushen Huang*, Xin Zhao, Carlene A. Chase, and Jason M. Neumann, Horticultural Sciences Department, University of Florida, Gainesville, FL 32611. (zxin@ufl.edu)
- 2:45 Opportunities to produce broccoli in Florida.** Monica Ozores-Hampton^{1*}, Lincoln Zotarelli² and Gene McAvoy³. ¹University of Florida, Institute of Food and Agricultural Sciences, South West Florida Research and Education Center, Immokalee, FL. ²University of Florida, Institute of Food and Agricultural Sciences, Horticultural Sciences Department, Gainesville, FL. ³Hendry County Extension Service, LaBelle, FL. ozores@ufl.edu.
- 3:00 Evaluation of Three Foliar Fertility Programs in Bell Pepper in North Carolina.** Christopher C. Gunter^{*1}, Christopher J. Biai¹, Jose G. Garzon¹, Jonathan R. Schultheis¹, Ronald J. Gehl². ¹Department of Horticultural Science, North Carolina State University, Raleigh, NC ²Department of Soil Science, North Carolina State University, Mills River, NC (cgunter@ncsu.edu).
- 3:15 Poblano Pepper (*Capsicum annum* L.) Cultivars as Affected by Color of Plastic Film Mulch.** Juan Carlos Díaz-Pérez, Department of Horticulture, University of Georgia, Tifton, GA 31793. (jcdiaz@uga.edu)

FRUIT CROPS SECTION

- Room:** Lime
Presiding: Elena Garcia
Abstracts: To publish abstract in *HortScience*, see instructions at end of program. Submit

on disk at meeting or email to Chair: (megarcia@uark.edu).

Morning Session

- 8:00 Amore Sweet' and 'Bowden' Nectarines and 'Souvenirs' Peach Offer New Options for Mid-South Growers.** John R. Clark and Paul Sandefur, 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (jrclark@uark.edu)
- 8:15 'Correlating fruit maturity at harvest with fruit quality in peach** by Ksenija Gasic* and G.L. Reighard, School of Agricultural, Forestry and Environmental Sciences, Clemson University, Clemson, SC 29634. (kgasic@clemson.edu)
- 8:30 'Osage' Thornless Blackberry and 'Hope', 'Faith', 'Joy', and 'Gratitude' Table Grapes.** John R. Clark and James. N. Moore, 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (jrclark@uark.edu)
- 8:45 Investigations to Determine the Performance of Recently Released Seedless Table Grapes and Advanced Selections from the University of Arkansas Breeding Program.** Elina D. Coneva^{*1}, Y. Hu¹, J.R. Clark², R. Kessler¹, J. Spiers¹, E. Vinson¹, and A.W. Caylor³, ¹101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, ²316 Plant Science Bldg., Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ³765 County Road 1466, North Alabama Horticulture Research Center, Cullman, AL 35055. (edc0001@auburn.edu)
- 9:00 Preliminary Results of Performance of Three Arkansas Seedless Table Grape Cultivars ('Faith', 'Hope', and 'Mars') under High Tunnel Conditions.** M. Elena Garcia*, D. Dickey, and S. Frey, Dept. of Horticulture, University of Arkansas, Fayetteville, AR 72701 (megarcia@uark.edu).
- 9:15 Break**
- 9:30 Assessing the Crop Potential and Vigor of Selected Pierces Disease Tolerant Bunch Grape Cultivars in North Alabama's Environment During the Years of Vineyard Establishment.** Elina D. Coneva^{*1}, Y. Hu¹, R. Kessler¹, J. Spiers¹, E. Vinson¹, and J. Ducar², ¹101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849,

²13112 Highway 68, Crossville, AL 35962.(edc0001@auburn.edu)

9:45 Is it Feasible to Grow Pierces Disease Resistant 87% *Vitis vinifera* Grapes within the High Disease Pressure Southeastern Region? Elina D. Coneva*¹, E. Vinson¹, and J. Pitts², ¹101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, ²Chilton Research and Extension Center, 120 Co. Rd. 756, Clanton, AL, 35045. (edc0001@auburn.edu)

10:00 An Improved and Efficient Micropropagation System for Grapevine (*Vitis* sp.) Kyung-Hee Kim*, Zhijian T. Li, Jonathan R. Jasinski and Dennis J. Gray Mid-Florida Research & Education Center, University of Florida/IFAS, 2725 Binion Road, Apopka, FL 32703. (djg@ufl.edu)

10:15 Evaluation of Freeze Protection Methods for Strawberry (*Fragaria x ananassa*) Production in Florida. Ixchel M. Hernandez-Ochoa* and Bielinski M. Santos, Gulf Coast Research and Education Center, IFAS, University of Florida, Wimauma, FL 33598. (bmsantos@ufl.edu).

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

Afternoon Session

1:00 Influence of Late Nitrogen and Potassium Rates on Fruit Yield and Quality of Strawberry (*Fragaria x ananassa*) Cultivars. Bielinski M. Santos* and Vance M. Whitaker, Gulf Coast Research and Education Center, IFAS, University of Florida, Wimauma, FL 33598. (bmsantos@ufl.edu).

1:15 Comparison of Population Densities of Strawberry (*Fragaria x ananassa*) Cultivars Growing in High Tunnels and in Open Fields. Bielinski M. Santos* and Vance M. Whitaker, Gulf Coast Research and Education Center, IFAS, University of Florida, Wimauma, FL 33598. (bmsantos@ufl.edu).

1:30 Chestnut Gall Wasp Susceptibility of Castanea Cultivars and Seedlings. Gregory L. Reighard, SAFES, Clemson University, Clemson, SC 29634. (grghrd@clemson.edu).

1:45 Iternative Flood Irrigation Strategies That Improve Water Conservation in Citrus Production. Shad D. Nelson*¹, Juan Enciso², Hugo Perea², Lou Beniken³, Mamoudou

Setamou⁴, Mac Young⁵, and Clinton F. Williams⁶. ¹700 University Blvd, MSC 228, Department of Agriculture, Agribusiness and Environmental Sciences, Texas A&M University, Kingsville, TX 78363, ²Texas A&M University, Texas Agricultural Experiment Station, Weslaco, TX 78596, ³N.E. Borlaug Fellow Visiting Scientist, Institut National De La Recherche Agronomique (INRA), Morocco, ⁴312 N International Blvd, TAMU-Kingsville Citrus Center, Weslaco, TX 78596, ⁵Texas A&M University, Texas Agricultural Experiment Station, Corpus Christi, TX 78410, ⁶United States Department of Agriculture-Agricultural Research Service, Maricopa, AZ 85238. (shad.nelson@tamuk.edu)

2:00 Effects of Irrigation Regime on Gas Exchange of Field Grown *Olea Europea* L. Staci Parks*,Thayne Montague, C.B. McKenney. Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409-2122. (staci.parks@ttu.edu)

FLORICULTURE, ORNAMENALS AND TURF SECTION

Room: Siesta

Presiding: Raymond Kessler

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

Morning Session

8:00 Easy Elegance roses - Landscape Observations on Cultivars Recommended for the South. Allen Owings*, Roger Rosendale and Regina Bracy. LSU AgCenter, Hammond Research Station, 21549 Old Covington Hwy, Hammond, LA 70403.

8:15 The Gardens at the LSU AgCenter Hammond Research Station. Allen Owings*, Regina Bracy, Yan Chen, Roger Rosendale and Joey Quebedeaux. LSU AgCenter, Hammond Research Station, 21549 Old Covington Hwy, Hammond, LA 70403.

8:3 Landscape Evaluation of *Acalypha* (Copper Plant) Cultivars. Allen Owings* and Roger Rosendale. LSU AgCenter, Hammond

Research Station, 21549 Old Covington Hwy, Hammond, LA 70403.

8:45 Determining the Carbon Footprint of a Field-grown Colorado Spruce Tree using Life Cycle Assessment. Dewayne L. Ingram*. Department of Horticulture, University of Kentucky, N-318 ASN, Lexington, KY 40546-0091.

9:00 Landscape Performance of Caladiums in Full Sun in Southern Louisiana. Yan Chen*, Regina Bracy, and Allen Owings LSU AgCenter, Hammond Research Station, 21549 Old Covington Hwy, Hammond, LA 70403.

9:15 Break

9:30 Effects of TopflorG on KnockOut rose Growth in Container Production. Yan Chen*, Regina Bracy, and Allen Owings LSU AgCenter, Hammond Research Station, 21549 Old Covington Hwy, Hammond, LA 70403.

9:45 Finding a Fit in Floriculture: A Qualitative Study on why Graduate Students Struggle to Find Floriculture as a Career Path. Lauri M. Baker^{1*}, Quisto Settle², and Tracy Irani², ¹Kansas State University, Department of Communications and Agricultural Education, 307 Umberger Hall, Manhattan, KS, 66506, ²University of Florida, Agricultural Education and Communication Department, 121E Bryant Hall Gainesville, FL 32611.

10:00 Use of Artificial Shade for Heliconia Cut-Flower Production. Alma R. Solis-Perez^{1,2}, Raul I. Cabrera^{2*}, and Edgardo Zalazar-Marcial¹, ¹Colegio de Postgraduados, Carr. Fed. Cordoba-Veracruz km. 348, Amatlan de los Reyes, Veracruz, 94946 (Mexico), ²Department of Horticultural Sciences, Texas A&M AgriLife Research, 1619 Garner Field Road, Uvalde, TX 78801.

10:15 Alternative Irrigation Sources for Urban Landscape Water Conservation. Raul I. Cabrera* and Daniel I. Leskovar, Department of Horticultural Sciences, Texas A&M AgriLife Research, 1619 Garner Field Road, Uvalde, TX 78801.

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

Afternoon Session:

1:00 Rooting Response of Cuttings from Three Woody Ornamentals Using Water-Soluble

Forms of IBA. Eugene K. Blythe*, Coastal Research and Extension Center, Mississippi State University, South Mississippi Branch Experiment Station, Poplarville, MS 39470.

1:15 Field and GIS-based Surveys Implicate Anthropomorphic Causes for Population Losses and Decline of Georgia plume, *Elliottia racemosa*, a Rare Endemic Tree. Justin A. Porter*, David Berle, and Hazel Y. Wetzstein, Department of Horticulture, 1111 Plant Science Building, University of Georgia, Athens, GA 30602-7273.

1:30 Gas Exchange and Growth of Field Grown, Ornamental Landscape Tree Species to Post Establishment Applied Organic Mulch and Drought. Thayne Montague*, C.B. McKenney, K. Decker, and S. Parks. Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409-2122.

1:45 Timing Effects of Growth Retardants Applied to Herbaceous Perennials Grown Under Night- interrupted Lighting Outdoors in the Southern United States. J. Raymond Kessler* and Gary J. Kever. 101 Funchess Hall, Auburn University, AL 36849.

POST HARVEST/PLANT BIOTECHNOLOGY SECTION

Room: Executive Boardroom

Presiding: Cecilia McGregor

Abstracts: To publish abstracts in *HortScience*, see instructions at the end of the program. Submit on disk at meeting or email to Chair: (cmcgre1@uga.edu).

8:00 Postharvest Curing, Treatment and Storage of Short-Day Onions. George E. Boyhan^{1*}, Manish K. Bansal¹, Daniel MacLean², Anthony G. Bateman³, and Suzanne Tate¹, ¹Department of Horticulture, University of Georgia, 1111 Miller Plant Science Bldg., Athens, GA 30602, ²Agrofresh, 620 Cantrill Drive, Davis, CA 95618, ³Vidalia Onion Research Laboratory, 2360 Rainwater Road, Tifton, GA 31793. (gboyhan@uga.edu)

8:15 Effectiveness of Ethephon for De-greening Satsuma (*Citrus unshiu*). James D. Spiers^{1*}, Bryan S. Wilkins², David H. Picha³, and William A. Dozier, Jr.^{1, 101} Funchess Hall, Department of Horticulture,

Auburn University, Auburn, AL 36849,
²Gulf Coast Research and Extension Center,
 Fairhope, AL, ³School of Plant,
 Environmental and Soil Sciences, Louisiana
 State University Agricultural Center, Baton
 Rouge, LA 70803. (jds0017@auburn.edu)

- 8:30 Evaluation of Peach Browning in North Carolina Yellow and White Fleshed Selections.** Penelope Perkins-Veazie*, Shawn Beam, Joyce O'Neal, PHHI, NC State University, Kannapolis NC 28081. (penelope_perkins@ncsu.edu)
- 8:45 Anthocyanin Composition in Organically Produced Blackberries after Storage.** Moo Jung Kim^{1*}, Penelope Perkins-Veazie¹, Guoying Ma¹, Gina Fernandez², ¹PHHI, NC State University, Kannapolis NC 28081, ²Department of Horticultural Sciences, Raleigh, NC 27695. (mkim10@ncsu.edu)
- 9:00 Fresh Market Muscadines: Evaluation of New Selections and Postharvest Treatments for Longer Shelf life.** Penelope Perkins-Veazie^{1*}, Jim Ballington², Joyce O'Neal¹, ¹PHHI, NC State University, Kannapolis NC 28081, ²Department of Horticultural Sciences, Raleigh, NC 27695. (penelope_perkins@ncsu.edu)
- 9:15 Genetic Factors Associated with Seed Oil Percentage in Watermelon.** Geoffrey Meru^{1*}, Jason Prothro², Katherine C. Sandlin², Rattandee Gill², Cecilia McGregor¹, ¹Department of Horticulture, University of Georgia, Athens GA, 30602, ²Institute of Plant Breeding, Genetics and Genomics, University of Georgia, Athens GA, 30602. (merujeff@uga.edu)
- 11:00 – 12:30 Attend Business Meeting and Awards Program**

WORKING GROUPS

(Contact Chairs for Agenda)

Sweet Potato SCRI Project

Presiding: Tara Smith
 (tsmith@agcenter.lsu.edu)
Friday: 8:00 am – 5:00 pm
Room: Oleander B

National Sweet Potato Collaborators Group

Presiding: Arnold Caylor (caylow@auburn.edu)
Saturday: 8:00 am – 5:00 pm
Room: Oleander B

Sweetpotato Insect, Disease, and Weed Management

- 9:00 Sweetpotato tip and end rot incidence in response to pathogen inoculations and preharvest foliar applications of ethephon.** Ramón Arancibia¹, Chris Clark², Lori Grelen¹ Washington da Silva², and Jeff Main¹. ¹Pontotoc Ridge-Flatwoods Branch Experiment Station, North Mississippi Research and Extension Center, Mississippi State University, Pontotoc, MS 38863; ²Department of Plant Pathology & Crop Physiology, LSU AgCenter, Baton Rouge 70803-1720.
- 9:15 End rots, tip rot, and internal necrosis: investigations into cause and resistance.** Chris Clark¹, Washington da Silva¹, Ramón Arancibia², Jeff Main², Jonathan Schultheis³, Zvezdana Pesic van-Esbroeck³, and Chen Jiang³. ¹Department of Plant Pathology & Crop Physiology, LSU AgCenter, Baton Rouge 70803-1720; ²Pontotoc Ridge-Flatwoods Branch Experiment Station, North Mississippi Research and Extension Center, Mississippi State University, Pontotoc, MS 38863; ³North Carolina State University, Department of Horticultural Science, Box 7609, 2721 Founders Drive, Raleigh, NC 27695-7609
- 9:30 Lenticel proliferation and flooding associated soft rot in sweetpotato.** Chris Clark¹, Washington da Silva¹, and Arthur Villordon². ¹Department of Plant Pathology & Crop Physiology, LSU AgCenter, Baton Rouge 70803-1720; ²LSU AgCenter Sweet Potato Research Station, Chase, LA 71324.
- 9:45 Response of Sweetpotatoes To Weed Interference and Clomazone** H.F. Harrison, Jr. and D.M. Jackson, U.S. Vegetable Laboratory, ARS-USDA, Charleston, SC.
- 10:00 Evaluation of Various Insecticides in Sweetpotato Production for Control of Wireworms in the Mid-South, 2012.** Larry Adams¹, Randall Luttrell¹ and Tara Smith²,

1USDA, ARS, SIMRU, Stoneville, MS 38776, 2LSU AgCenter, Chase, LA 70803

10:15 Evaluation of Selected Insecticides Regimes for Management of Sugarcane Beetle in Sweetpotato. T.P. Smith^{*1}, J. Beuzelin², T. Arnold¹. ^{*1}LSU Agricultural Center: Sweet Potato Research Station, Chase, LA, ^{*2} LSU Agricultural Center: Dean Lee Research Station, Alexandria, LA.

10:30 Break

10:45 Optimizing insecticide applications for management of white grubs and wireworms in Ontario sweetpotato Melanie Filotas and Jason Deveau, Ontario Ministry of Agriculture, Food and Rural Affairs, OMAFRA-Simcoe Resource Centre, Simcoe, ON, Canada N3Y 4K3

11:00 Field survey and detection of sweetpotato viruses in North Carolina. Christie V Almeyda, Tamara Abernethy and Zvezdana Pesic-VanEsbroeck, Department of Plant Pathology, NCSURaleigh, NC 27695-7616

11:15 Evaluation of weed control and sweet potato tolerance to alternative herbicides. D. K. Miller, T. P. Smith, and M. S. Mathews, LSU AgCenter, Baton Rouge, La.

11:30 ‘Covington Sweetpotato Tolerance to Dual Magnum Applications Followed by Simulated Rainfall. Stephen L. Meyers, Katie M. Jennings, and David W. Monks, NCSU, Raleigh, NC.

NSCG Student Contest

PhD Papers

1:00 S-metolachlor, rainfall and temperature on sweetpotato storage root development. Issah A. Abukari^{1*}, Mark W. Shankle², K. Raja Reddy¹, and Ramon A. Arancibia². ¹Plant and Soil Sciences Dept. Mississippi State University, 117 Dorman Hall, Mississippi State, MS 39762; ²Pontotoc Ridge-Flatwoods Branch Experiment Station, North Mississippi Research and Extension Center, Mississippi State University, Pontotoc, MS 38863 (iaa20@msstate.edu)

1:15 Changes in the level of lignification/suberization in sweetpotato skin with preharvest defoliation and ethephon induced stress by confocal microscopy. Nestor Bonilla^{1*}, Ramon A. Arancibia², Frank Matta¹, Mark Shankle², K. Raja Reddy¹, Juan

Silva³, and Don LaBonte⁴. ¹Plant and Soil Sciences Dept. Mississippi State University, 117 Dorman Hall, Mississippi State, MS 39762; ²Pontotoc Ridge-Flatwoods Branch Experiment Station, North Mississippi Research and Extension Center, Mississippi State University, Pontotoc, MS 38863; ³Food Sciences, Nutrition and Health Promotion, Mississippi State University, Miss. State, MS; ⁴School of Plant, Environmental, and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803 (njb13@msstate.edu)

1:30 Effect of Cultivar, Curing, and Preparation Method on Water-soluble Vitamin Content in Sweetpotatoes. Wilmer Barrera* and David Picha, School of Plant, Environmental and Soil Sciences, Louisiana State University, Baton Rouge, LA 70803 (wbarre1@tigers.lsu.edu)

1:45 Modeling Respiration Rate of Five Sweetpotato Varieties (*Ipomoea batatas* (L) Lam) at Different Temperature Ranges by Applying the Mass Balance Principle. José G. Garzon* and Michael D. Boyette. Department of Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC 27695. (jggarzon@ncsu.edu) **4:15**

2:00 Evaluation of Irrigation Scheduling Regimes for Drip Irrigated Sweetpotatoes in Eastern North Carolina. Robert L. Vick, Jr.^{1*}, Jonathan R. Schultheis², and Garry L. Grabow¹, ¹Department of Biological and Agricultural Engineering, North Carolina State University, Raleigh, NC 27695, ²Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695. (rlvick@ncsu.edu)

2:15 Break

MS Papers

2:30 Development of a Mechanical Undercutting System to Minimize Sweetpotato Skinning during Harvest. Bradley H. Hayes^{1*}, Jason K. Ward¹, John W. Lowe¹ Jeremiah D. Davis¹, Mark W. Shankle², Ramon A. Arancibia², Agricultural and Biological Engineering, Mississippi State University, Mississippi State, MS 39762, ²Pontotoc Ridge-Flatwoods Branch Experiment Station., 8320 Hwy 15 S., Pontotoc, MS 38863 (bhh27@msstate.edu)

2:45 Selected Insecticides for Soil Insect Control in Sweetpotato. Shaun A. Francis*, James O.

Garner and Obadiah M. Njue, Department of Agriculture, University of Agriculture at Pine Bluff, 1200 North University Drive, Mail Slot 4913, Pine Bluff, AR 71601 (francis5739@uapb.edu)

- 3:00 Optimizing Sweetpotato Seed Bed Density for Plant Production.** Susan L. Barkley*, Jonathan R. Schultheis, Katie M. Jennings, Department of Horticultural Sciences, North Carolina State University, Raleigh, NC 27695-7609. (slweiss2@ncsu.edu)
- 3:15 Implementing Irrigation on Small-Scale Farms: An Economic Feasibility Study Using Sweet Potato Irrigation.** Rockiell Woods*¹, Gretchen F. Sassenrath², John Halloran³, and Wesley Whittaker⁴, ¹Alcorn State Experiment Station, Mound Bayou, MS, 38762, ²USDA-ARS Crop Production Systems Research Unit, Stoneville, MS 38776, ³USDA-ARS New England Plant, Soil and Water Research Laboratory, University of Maine, Orono, ME, 04469, ⁴Alcorn State University, Department of Agriculture Education, Alcorn State, MS 39096. (rwoods@alcorn.edu)
- 3:30 Internal Necrosis in ‘Covington’ Sweetpotato; its Occurrence and Severity in the Commercial Industry and in Response to Various Chemistries.** Chen Jiang^{1*}, Mike D. Boyette², Sylvia M. Blankenship¹, and Jonathan R. Schultheis¹, ¹Department of Horticultural Science, ²Department of Biological & Agricultural Engineering, North Carolina

Poster presentation:

- 5:00` Simultaneous Analysis of Thiamine and Riboflavin in Sweetpotato by HPLC.** Wilmer Barrera* and David Picha, School of Plant, Environmental and Soil Sciences, Louisiana State University, Baton Rouge, LA 70803 (wbarre1@tigers.lsu.edu)

2012 USDA, ARS, Southern Insect Management Research Unit Sweetpotato Demonstration Study, Chris Johnson and Larry Adams USDA, ARS, SIMRU, Stoneville, MS During the 2012 growing season USDA, ARS, Southern Insect Management Research Unit transplanted sweetpotato demonstration plots to illustrate the value in taking soil samples for nematode populations and applying a preplant incorporated insecticide to control soil insects attacking the developing sweetpotato roots. Three Mississippi Delta

locations, Sanders Farm, Mound Bayou, MS, Alcorn State University Research Farm, Mound Bayou, MS and Livingston Farm, Elizabeth, MS were transplanted with Beauregard 14 slips in mid May. Treatments were applied approximately two weeks prior to transplanting and included Lorsban, K-Pam, Lorsban and K-Pam, a grower field and an untreated control. Soil samples were taken preplant, mid season and preharvest to determine nematode populations. All locations were harvested at ~115 days. Yield, quality and insect damage were recorded and analyzed

Presiding: Arnold Caylor (cayloaw@auburn.edu)
Sunday: 8:00 am – 5:00 pm
Room: Oleander B

Sweetpotato Production, Physiology, and Plant/Seed Production

Presiding: C. Scott Stoddard (University of California) (csstoddard@ucdavis.edu)

- 8:00 Sweetpotato variety evaluation and development in California.** C. Scott Stoddard (1)* and Don La Bonte (2). (1) University of California Cooperative Extension, 2145 Wardrobe Ave., Merced, CA 95341; (2) Louisiana State University, 131 J.C. Miller Hall, Baton Rouge, LA 70803. (csstoddard@ucanr.edu)
- 8:15 Diversity and density indices of the pathogenic microbial community present in tip/end rot disease of sweetpotato.** C. Elizabeth Stokes^{1*}, Richard E. Baird¹, and Ramon Arancibia², ¹Department of Biochemistry, Molecular Biology, Entomology, and Plant Pathology, 32 Creelman St., Mail Stop 9655, Mississippi State University, Mississippi State, MS 39762, ²North Mississippi Research and Extension Center, Pontotoc Ridge-Flatwoods Branch Experiment Station, 8320 Highway 15 South, Pontotoc, MS
- 8:30 Comparison of light-emitting diode, fluorescent, and ambient light treatments for sweetpotatoes grown in greenhouse conditions.** Arnold, Theresa*, Tara Smith, and Arthur Villordon
- 8:45 Influence of nitrogen rates on lateral root development in ‘Beauregard’ sweetpotato adventitious roots.** Arthur Villordon^{1*}, Don LaBonte² and Nurit Firon³. ¹LSU AgCenter

Sweet Potato Research Station, Chase, La 71324 USA; ²LSU AgCenter School of Plant, Environmental, and Soil Sciences, 137 J.C. Miller Hall, Baton Rouge, LA 70803-2120 USA; ³Institute of Plant Sciences, The Volcani Center, Agricultural Research Organization, P.O. Box 6, Bet Dagan, 50250, Israel

- 9:00 Yield response to potassium sidedressing in sweetpotato under drip irrigation.** Ramon A. Arancibia* and Jeff L. Main. Pontotoc Ridge-Flatwoods Branch Experiment Station, North Mississippi Research and Extension Center, Mississippi State University, Pontotoc, MS 38863. (raa66@msstate.edu)
- 9:15 Use of confocal microscopy to determine skin characteristics and the degree of lignification/suberization in sweetpotato.** Ramon A. Arancibia¹*, Nestor Bonilla², Don LaBonte³, and Jeff L. Main. ¹Pontotoc Ridge-Flatwoods Branch Experiment Station, North Mississippi Research and Extension Center, Mississippi State University, Pontotoc, MS 38863; ²Plant and Soil Sciences Dept. Mississippi State University, 117 Dorman Hall, Mississippi State, MS 39762; ³School of Plant, Environmental, and Soil Sciences, Louisiana State University Agricultural Center, Baton Rouge, LA 70803 (raa66@msstate.edu)
- 9:30 Three years of winter cover crops effect on soil characteristics and sweetpotato production in North Mississippi.** Jeff L. Main*, Xiang Wang, Lori B, Grelen, and Ramon A. Arancibia, Pontotoc Ridge-Flatwoods Branch Experiment Station, North Mississippi Research and Extension Center, Mississippi State University, Pontotoc, MS 38863. (jmain@ra.msstate.edu)
- 9:45 Three years sweetpotato production with winter cover crops and stale beds in North Mississippi.** Jeff L. Main* and Ramon A. Arancibia, Pontotoc Ridge-Flatwoods Branch Experiment Station, North Mississippi Research and Extension Center, Mississippi State University,

Watermelon Research Group

Presiding: Jonathan Schultheis, Chair
(jonr@ncsu.edu)

Sunday: 8:00 am – 5:00 pm

Room: Lime

Morning Program

8:00 Welcome: Jonathan Schultheis, Chair, WRDWG

8:10 Introductions: All in attendance

Regional Watermelon Production Updates

8:20 California & Arizona – James Brusca
Carolinas – Allan Thornton / Gilbert Miller
DelMarva – Gordon Johnson
Georgia – George Boyhan
Indiana & Midwest – Shubin Saha
Texas – Juan Ansico

International Updates from Seed Company Representatives

8:50 **Snapshot of the Australian watermelon industry.** Jérôme Bernier, Watermelon Breeder, Monsanto Vegetable Seeds, 37437 State Highway 16, Woodland, CA, 95695, USA (jerome.bernier@monsanto.com)
Other Updates, dependent on availability of Seed Company representatives, TBA

Updates from Seed Companies

9:20 agroGene – Peter Mes
Monsanto – Jerome Bernier
Syngenta – James Brusca

Issues Affecting National Watermelon Industry

9:50 Bob Morrissey, National Watermelon Association, Executive Director, Lakeland, FL
Funding, Immigration Reform, New Farm Bill, Other NWA Activities

Hot Topic Issues

10:10 Shaker Kousik, Research Scientist, USDA, Charleston, SC

10:25 Break

Research Reports:

Cultivar Considerations

10:45 **Texas Statewide Watermelon Trials for 2012.** Juan R. Anciso¹*, Larry Stein², Joseph Masabni, and Russ Wallace⁴, Department of Horticultural Sciences, Texas A&M University, ¹Weslaco TX, ²Uvalde TX, ³College Station TX, ⁴Lubbock TX. (j-anciso@tamu.edu).

11:00 **Delaware Triploid Watermelon Cultivar Evaluations.** Gordon C. Johnson and Emmalea G. Ernest*, University of Delaware, Carvel REC, 16483 County Seat Highway, Georgetown, DE 19947 (emmalea@udel.edu)

- 11:15 2012 Evaluation of Triploid Watermelon Varieties in Southwestern Indiana.** Shubin K. Saha* and Larry Sutterer, Horticulture and Landscape Architecture Department, Southwest Purdue Ag Program, Purdue University, Vincennes, IN 47591. (ssaha@purdue.edu)
- 11:30. Comparison of staminate flower production and Fusarium wilt reaction in diploid cultivars used as pollenizers for triploid watermelon.** Chris Gunter^{1*} and Daniel S. Egel², ¹Department of Horticultural Science, 230 Kilgore Hall, Box 7609, North Carolina State University, Raleigh, NC 27695-7609 (chris_gunter@ncsu.edu), ²Department of Botany and Plant Pathology, 4369 North Purdue Road, Purdue University, Vincennes, IN 47591 (egel@purdue.edu)
- 11:45 LUNCH BREAK**
- Afternoon Program**
- 1:00 Update promotion activities National Watermelon Promotion Board in 2012**
Mark Arney, Exec. Director, Orlando, FL
- Research Reports (continued)**
- Flowering and Pollination**
- 1:15 Flowering Time in Watermelon.** Cecilia McGregor* and V. Waters, Department of Horticulture, University of Georgia, Athens, GA 30602. (cmcgrel@uga.edu)
- 1:30 Evaluation of Pollenizer Varieties for Triploid Watermelon (*Citrullus lanatus*) Production in Southwestern Indiana.** Shubin K. Saha^{1*} and Dan Egel², ¹Horticulture and Landscape Architecture Department, ²Botany and Plant Pathology Department, Southwest Purdue Ag Program, Purdue University, Vincennes, IN 47591. (ssaha@purdue.edu)
- Disease**
- 1:45 North Carolina Triploid Watermelon Cultigen Evaluations for 2012.** Jonathan R. Schultheis* and Bradfred Thompson, Dept. of Horticultural Science, North Carolina State University, Box 7609, 2721 Founders Drive, Raleigh, NC 27695-7609. (jonathan_schultheis@ncsu.edu)
- 2:00 Use of SqVYV resistant germplasm line 39291-VDR as a pollenizer for managing watermelon vine decline in Florida.** C.S. Kousik^{1*}, S. Adkins², W.W. Turechek², C. G. Webster² and P.D. Roberts³, ¹U.S. Vegetable Laboratory, USDA, ARS, 700 Savannah Highway, Charleston, SC 29414, USA, ²U.S. Horticultural Research Laboratory, USDA, ARS, Fort Pierce, FL 34945, ³SWFREC, University of Florida, Immokalee, FL 34142 (Shaker.Kousik@ars.usda.gov)
- 2:15 Exploiting genetic resources of *Citrullus* spp. to enhance disease or pest resistance in watermelon cultivars.** A. Levi*, J. A. Thies, W. P. Wechter, H. Harrison, A. Simmons, K. Ling, and C. Kousik. USDA, ARS, U.S. Vegetable Laboratory 2700 Savannah Highway, Charleston, South Carolina 29414, USA. (Amnon.Levi@ARS.USDA.GOV)
- 2:30 Response of *Citrullus lanatus* var. *citroides* Rootstocks for Grafted Watermelon to Root-knot Nematodes.** Judy A. Thies¹, Sharon Buckner¹, Richard Hassell², and Amnon Levi¹. ¹U.S. Vegetable Laboratory, USDA, ARS, 2700 Savannah Highway, Charleston, SC, 29414-5334; ²Clemson University, 2700 Savannah Highway, Charleston, SC, 29414-5334 Judy.Thies@ARS.USDA.GOV)
- 2:45 MelCast Fungicide Application Scheduling for mid-Atlantic Watermelons: A Re-evaluation.** Kathryn L. Everts* and Mason J. Newark, Department of Plant Science and LARC, University of Maryland College Park, LESREC- Salisbury, 21801 (keverts@umd.edu)
- 3:05 Break**
- Hot Topic Issues**
- 3:30 Shaker Kousik, Research Scientist, USDA, Charleston, SC**
- Research Reports (continued)**
- Research Methods and Cultural Management**
- 3:45 Optimum Plot Size and Number of Replications for Watermelon Trials and 2012 Watermelon Trial Results.** George E. Boyhan*, Suzanne C. Tate, and Ryan D. McNeil, Department of Horticulture, University of Georgia, 1111 Miller Plant Science Bldg., Athens, GA 30602. (gboyhan@uga.edu)
- 4:00 Grafting Methods: What Makes Each Acceptable and Unacceptable.** Richard L.

Hassell, Clemson University CREC, 2700 Savannah Highway, Charleston, SC (rhassel@clemson.edu)

4:15 The Effect of Particle Films, Growth Regulators, and a Bacterial Inoculant on Stress Indicators, Fruit Yield, and Fruit Quality in Triploid Watermelons. Gordon C. Johnson*, Emmalea G. Ernest, and D. Janine Sherrier University of Delaware, Carvel REC, 16483 County Seat Highway, Georgetown, DE 19947 (gcjohn@udel.edu)

4:30 Health Comparison of Watermelon and Gatorade on Exercise-Induced Oxidative Stress, Inflammation, and Immune Dysfunction in Masters Cyclists. Penelope Perkins-Veazie*, Plants for Human Health Institute, Department of Horticultural Sciences, Kannapolis, NC 28081 and R. Andrew Shanley, Human Performance Laboratory, Appalachian State University, North Carolina Research Campus, Kannapolis, NC 28081 (penelope_perkins@ncsu.edu)

4:45 Watermelon Group Business

5:00 Adjourn

Saturday: 8:00 am – 5:00 pm
Room: Largo

S. Blueberry/Small Fruit Workers

Presiding: Elina Coneva, Chair
(edc0001@auburn.edu)

Saturday: 8:00 am – 5:00 pm
Room: Tangerine B

National Cowpea Improvement Assoc.

Presiding: J. Trachta, Chair
(john@ctsmithco.com)

Sunday: 1:00 pm – 4:00 pm

Room: Orange

Horticulture Administrators

Presiding: Wayne Mackay, Chair
(wmackay@ufl.edu)

Saturday: 1:00 pm – 4:00 pm

Room: Longboat

Vigna Crop Germplasm Committee

Presiding: Jeff Ehlers
(jeff.ehlers@ucr.edu)

Sunday: 9:00 am – 12:00 pm

Room: Orange

Pecan Research and Extension Forum

Presiding: Charles Rohla, Chair
(ctrohla@noble.org)

Instructions for Submission of Abstracts for Publication in *HortScience*

To publish your abstract 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.

2013 Program at a Glance Friday February 1

Wyndham Orlando

Room	8:00				9:00				10:00				11:00				12:00				1:00				2:00				3:00				4:00				5:00			
Oleander B	Sweetpotato SCRI Project																																							

Saturday February 2

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																																							
Largo	Pecan Research & Extension Forum																																							
Tangerine B	Southern Blueberry/Small Fruit Workers																																							
Oleander B	National Sweet Potato Collaborators																																							
Longboat																									Horticulture Administrators				Executive Com.											
Lime	ACB Club Share								ACB Group Lunch								ACB Activities or Tour								ACB Reception															

Sunday February 3

Room	8:00				9:00				10:00				11:00				12:00				1:00				2:00				3:00				4:00				5:00											
Citrus Ballroom Foyer	7:00 open Registration																																															
Palms Ballroom Salon E	Poster Session Set-Up																Poster Session Viewing, Authors at Posters & Judging																															
Palms Ballroom Salon I	Judging Contest Set-Up																J. Benton Storey Horticulture Judging Contest																															
Lime	Watermelon Research Group																																															
Orange	Vigna Crop Germplasm Committee																National Cowpea Improvement Association																															
Oleander B	National Sweet Potato Collaborators																																															
Palms Ballroom Salon C	Extension Section																Education Sect.																															
Largo	Vegetable Crops Section																																															
Lemon	Edmond UG Paper Comp.																Childers M.S. Paper Competition																Barham Ph.D. Paper Comp.															
Poolside Pavilion	Graduate Student Mixer																																															

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Monday February 4

Room	8:00				9:00				10:00				11:00				12:00				1:00				2:00				3:00				4:00				5:00			
Citrus Ballroom Foyer	7:00 open Registration																																							
Palms Ballroom Salon E	Poster Session Viewing																Poster Take Down																							
Lemon	ACB Business Meeting																Business Meeting/Awards Prog.																							
Biscayne	Vegetable Crops Section																Vegetable Crops Section																							
Siesta	Floriculture, Ornamentals & Turf Section																Flori, Orn & Turf Section																							
Lime	Fruit Crops Section																Fruit Crops Section																							
Executive Boardroom	PostHarvest & Biotechnology Sectio																																							

Note: Super Bowl Party, NASCAR Sports Grille (University City Walk), Shuttle starts at 5:00

Meeting Room Locations



