PROGRAM

70th ANNUAL MEETING

Southern Region
of the
American Society for Horticultural Science

February 6-8, 2010
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 400 to 500 active members. Membership is composed of research scientists, teachers and extension specialist from Universities, State, Federal and private research organizations, and industry. The Southern Region also contains a student section, the Association of Collegiate Branch, 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 national 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
Jim Ballington
Dept. of Horticulture
North Carolina State Univ.
Box 7609
Raleigh, NC
27695-7609
Phone: (919) 515-1214
Fax: (919) 515-2505
jim_ballington@ncsu.edu

President-Elect
Mike Arnold
Dept. of Horticultural Sci.
Texas A&M University
College Station, TX
77843-2133
Phone: (979) 845-1499
Fax: (979) 845-0627
ma-arnold@tamu.edu

Secretary-Treasurer
David Wm. Reed
Dept. of Horticultural Sci.
Texas A&M University
College Station, TX
77843-2133
Phone: (979) 845-0710
Fax: (979) 845-6083
dwreed@tamu.edu

Web Site
srashs.org
Visit It
PROGRAM
70th ANNUAL MEETING
Southern Region
American Society for Horticultural Science
Wyndham Orlando Resort
Orlando, FL
February 6-8, 2010

SPECIAL EVENTS AND SESSIONS

FRIDAY, February 5, 2010 (Pre-Conference)
8:00 am - 6:00 pm  Sweet Potato SCRI Project
Presiding: Tara Smith
Room: Tangerine A

SATURDAY, February 6, 2010
7:00 am - 6:00 pm  Registration
Presiding: Dave Reed
Room: Hotel Lobby
8:00 am - 4:00 pm  Certified Horticulturist Examination
Presiding: Mike Neff
Room: Orange
8:00 am - 5:00 pm  Pecan Research and Extension Forum
Presiding: Lenny Wells
Room: Lime
8:00 am - 5:00 pm  National Sweetpotato Collaborators
Presiding: Michael Jackson
Room: Tangerine A
8:00 am - 5:00 pm  Southern Blueberry/Small Fruit Workers
Presiding: Elena Garcia
Room: Tangerine B
10:00 am - 11:30 pm  ACB Program, Share Club Activities and Refreshments
Presiding: Stacy Bridges, ACB President
Room: Lemon
12:00 noon 1:30 pm  ACB Group Lunch
Presiding: Stacy Bridges, ACB President
Room: Lemon or TBA
1:30 pm - 4:00 pm  ACB Activities and/or Tour:
Presiding: Stacy Bridges, ACB President
Room: Lemon or TBA
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presiding</th>
<th>Room</th>
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<tbody>
<tr>
<td>1:00 pm -</td>
<td><strong>Horticulture Administrators</strong></td>
<td>Doug Bailey</td>
<td>Executive Boardroom</td>
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<tr>
<td>5:00 pm -</td>
<td><strong>ACB Reception and Mixer</strong></td>
<td>Stacy Bridges, ACB President</td>
<td>Lemon or TBA</td>
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<tr>
<td>5:00 pm -</td>
<td><strong>Executive Committee Meeting</strong></td>
<td>Richard Harkess, Chair, Executive Committee</td>
<td>Executive Boardroom</td>
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<td>6:00 pm</td>
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<td><strong>SUNDAY, FEBRUARY 7, 2010</strong></td>
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<tr>
<td>7:00 am -</td>
<td><strong>Registration</strong></td>
<td>Dave Reed</td>
<td>Floral Ballroom Foyer</td>
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<td>6:00 pm</td>
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<tr>
<td>8:00 am –</td>
<td><strong>Set up Posters</strong></td>
<td>Gary Bachman</td>
<td>Palms Ballroom Salon E</td>
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<td>12:00 pm</td>
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<tr>
<td>8:00 am –</td>
<td><strong>J. Benton Storey Horticulture Judging Contest Setup</strong></td>
<td>Leo Lombardini, ACB Advisor</td>
<td>Orange</td>
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<td>12:00 noon</td>
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<td>8:00 am -</td>
<td><strong>Extension Section</strong></td>
<td>Robert Boozer</td>
<td>Azalea</td>
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<td>10:00 am</td>
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<tr>
<td>8:00 am -</td>
<td><strong>National Sweetpotato Collaborators</strong></td>
<td>Michael Jackson</td>
<td>Oleander A</td>
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<td>5:00 pm</td>
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<td>8:00 pm -</td>
<td><strong>Watermelon Research Group</strong></td>
<td>Elisabetta Vivoda</td>
<td>Magnolia</td>
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<tr>
<td>8:00 am -</td>
<td><strong>J. B. Edmond Undergraduate Student Paper Competition</strong></td>
<td>Stacy Bridges, ACB President</td>
<td>Palms Ballroom Salon A</td>
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<td>9:15 am</td>
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<td>Jim Ballington, SR-ASHS President</td>
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<td>David Creech, Section Chair &amp; Judging Coordinator</td>
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<tr>
<td>9:00 am –</td>
<td><strong>Vigna Crops Germplasm Committee</strong></td>
<td>Richard Fery</td>
<td>Oleander B</td>
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<td>12:00 noon</td>
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<tr>
<td>9:15 am -</td>
<td><strong>Norman F. Childers M.S. Student Paper Competition</strong></td>
<td>Mike Arnold, President Elect</td>
<td>Palms Ballroom Salon A</td>
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<tr>
<td>1:30 pm</td>
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<td>TBA, Judging Coordinator</td>
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<td>12:00 noon</td>
<td><strong>Poster Session Viewing</strong></td>
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<td>Palms Ballroom Salon E</td>
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<td>5:00 pm</td>
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<tr>
<td>1:00 pm -</td>
<td><strong>National Cowpea Improvement Association</strong></td>
<td>Lynn Brandenberger</td>
<td>Oleander B</td>
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<td>5:00 pm</td>
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1:00 pm - 5:00 pm  J. Benton Storey Horticulture Judging Contest  
Presiding: Leo Lombardini, ACB Advisor  
Room: Orange  

1:30 pm - 3:00 pm  Warren S. Barham Ph.D. Student Paper Competition  
Presiding: Mike Arnold, President Elect  
TBA, Judging Coordinator  
Room: Palms Ballroom Salon A  

1:00 pm - 3:00 pm  Poster Session - Authors at Posters  
1:00 pm - 2:00 pm even numbered posters  
2:00 pm - 3:00 pm odd numbered posters  
Room: Palms Ballroom Salon E  

3:00 pm - 4:00 pm  Poster Session - Students at posters for judging  
Presiding Gary Bachman, Judging Coordinator  
Room: Palms Ballroom Salon E  

3:00 pm - 5:00 am  Education Section  
Presiding: Richard Harkess  
Room: Azalea  

3:00 pm - 5:00 pm  Vegetable Crops Section  
Presiding: Annette Wszelaki  
Room: Palms Ballroom Salon A  

SAAS Program  
4:00 pm - 6:00 pm  SAAS General Session  
Presiding: Robert Whitson, President SAAS  
Room: Jasmine  

6:00 pm  SAAS Reception  
Room: Poolside Pavilion/Gardenroom  

MONDAY, FEBRUARY 8, 2010  
7:00 am - 10:00 am  Registration  
Presiding: Dave Reed  
Room: Floral Ballroom Foyer  

8:00 pm - 11:00 pm  Poster Session Viewing  
Room: Palms Ballroom Salon E  

8:00 am - 10:45 pm  Vegetable Crops Section  
Presiding: Annette Wszelaki  
Room: Oleander A  

8:00 am - 10:30 pm  Fruit Crops Section  
Presiding: Elina Coneva  
Room: Oleander B  

8:00 am - 10:30 am  Floriculture, Ornamentals and Turf Section  
Presiding: Allen Owings  
Room: Magnolia  

8:00 am - 10:30 am  Postharvest/Biotechnology/Plant Biology Section  
Presiding: Donna Marshall  
Room: Largo
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<th>Time</th>
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<tr>
<td>9:00 am</td>
<td><strong>ACB Business Meeting</strong></td>
<td>Stacy Bridges, ACB President</td>
<td>Jasmine</td>
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<tr>
<td>11:00 am</td>
<td><strong>Annual Business Meeting and Award Program</strong></td>
<td>Jim Ballington, President</td>
<td>Jasmine</td>
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<tr>
<td>1:00 pm</td>
<td><strong>Vegetable Crops Section</strong></td>
<td>Annette Wszelaki</td>
<td>Oleander A</td>
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<tr>
<td>1:00 pm</td>
<td><strong>Fruit Crops Section</strong></td>
<td>Elina Coneva</td>
<td>Oleander B</td>
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<tr>
<td>1:00 pm</td>
<td><strong>Postharvest/Biotechnology/Plant Biology Section</strong></td>
<td>Donna Marshall</td>
<td>Largo</td>
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<tr>
<td>1:00 pm</td>
<td><strong>Poster Session Take Down</strong></td>
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WORKING GROUPS

(Contact Chairs for Agenda and Presentation times)

Sweet Potato SCRI Project
Presiding: Tara Smith
(TSmith@agcenter.lsu.edu)
Friday: 8:00 am – 5:00 pm
Room: Tangerine A

Pecan Research and Extension Forum
Presiding: Lenny Wells (lwells@uga.edu)
Saturday: 8:00 am – 5:00 pm
Room: Lime

National Sweetpotato Collaborators
Presiding: Mike Jackson
(mike.jackson@ars.usda.gov)
Saturday: 8:00 am – 5:00 pm
Sunday: 8:00 am – 5:00 pm
Room: Tangerine A (Sat.), Oleander A (Sun.)

S. Blueberry/Small Fruit Workers
Presiding: Elena Garcia (megarcia@uark.edu)
Saturday: 8:00 am – 5:00 pm
Room: Tangerine B

Horticulture Administrators
Presiding: Doug Bailey (dabailey@uga.edu)
Saturday: 1:00 am – 5:00 pm
Room: Executive Boardroom

Watermelon Research Group
Presiding: Elisabetta Vivoda, Chair
(e.vivoda@hmclause.com)
Sunday: 8:00 am – 5:00 pm
Room: Magnolia

Vigna Crop Germplasm Committee
Presiding: Richard Fery
(rfery@saa.ars.usda.gov)
Sunday: 9:00 am – 12:00 pm
Room: Oleander B

National Cowpea Improvement Assoc.
Presiding: Lynn Brandenberger
(lynn.brandenberger@okstate.edu)
Sunday: 1:00 am – 5:00 pm
Room: Oleander B

SECTION TITLES

SUNDAY, FEBRUARY 7, 2010

J. B. EDMOND
UNDERGRADUATE STUDENT PAPER COMPETITION

Room: Palms Ballroom Salon A
Presiding: Stacy Bridges, President, ACB
Jim Ballington, President, SRASHS
David Creech, 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: (dcreech@sfasu.edu)

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


Characterization and Inheritance Assessment of Fruit and Leaf Shape in Unique Vitis Seedlings. Paul Sandefur*, John R. Clark, and Douglas Karcher, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701 (psandefu@uark.edu)

Effect of vine cutback on disease resistance and Severity of Virus Titers on resistant and susceptible varieties. Maureen Thiessen1*, Carly Gillett1, Don LaBonte2, Chris Clark2, and Cecilia McGregor3, 1School of Plant, Environmental, and Soil Sciences, Louisiana State University, Baton Rouge, LA 70803, 2Department of Plant Pathology and Crop Physiology, Louisiana State University, Baton Rouge, LA 70803, 3Department of Horticulture, University of Georgia, Athens, GA 30602. (mthies1@tigers.lsu.edu)

The Petty Residence: A Landscape Design Based on Principles of Sustainability. Erik J. Healy*, Renee K. Byrd, Mary T. Haque, Tyler Miller, and Karl Muzii, Department of Horticulture, Clemson University, Clemson, SC, 29634-0319. (ehealy@clemson.edu)

Timing of Application of Benzyladenine (6-BA) Affects Branching of Herbaceous Perennials. Margaret G. Tackett*, John R. Freeborn, Joyce G. Latimer, and Holly L. Scoggins, Department of...
Evaluation of Sixteen Accessions of Sunn Hemp (Crotalaria juncea) for Seed Production Potential in Florida. Alyssa Cho¹*, Carlene A. Chase¹, Rosalie Koenig², and Danielle Treadwell¹, ¹Department of Horticultural Sciences, ²Department of Agronomy, University of Florida, Gainesville, FL 32611. (alycho@ufl.edu)

Screening ornamental peppers (Capsicum spp.) for high temperature tolerance using in vitro pollen germination, pollen tube length and cell membrane thermostability. Bandara Gajanayake, Brian W. Trader, K. Raja Reddy, Richard L. Harkess, Mengmeng Gu and Frank B. Matta, Department of Plant and Soil Sciences, 117 Dormon Hall, Box 9555, Mississippi State University, Mississippi State, MS 39762, USA

Using GIS Technology to Evaluate Transportation of Ornamental Crops in Georgia. Javier Mantilla¹*, Paul Thomas¹, Forrest Stegelin², Jack Houston³, Matthew Chappel¹, ¹222 Hoke Smith Building, Department of Horticulture, University of Georgia, Athens, GA 30602, ²313 Conner Hall, University of Georgia, Department of Agricultural and Applied Economics, Athens, GA 30602. (javiermc@uga.edu)

Yield and quality characteristics of selected blueberry (V. ashei) cultivars. Richard Potter*, E. Coneva¹, J. Sibley², F. Woods, J. Spiers¹, B. Wilkins¹, E. Vinson¹, and A. Caylor², ¹Department of Horticultural Science, Auburn University, Auburn, AL 36830-7418, ²North Alabama Horticultural Experiment Station, 765 County Road 1466, Cullman, AL 35055. (potterj@auburn.edu)

Horticulture, Virginia Tech, Blacksburg, VA 24061 (mtack5@vt.edu)

NORMAN F. CHILDERS
M.S. GRADUATE STUDENT
PAPER COMPETITION
Room: Palms Ballroom Salon A
Presiding: Mike Arnold, 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: (ma-arnold@tamu.edu)

9:30 am – 12:00 pm Order of presentations determined by drawing at beginning of contest.

Benzyladenine (6-BA) Promotes Branching of Herbaceous Perennials. William K. Harris*, John R. Freeborn, Joyce G. Latimer, and Holly L. Scoggin, Department of Horticulture, Virginia Tech, Blacksburg, VA 24061 (wkharris@vt.edu)

Cultivation and Nutraceutical Content of Virginia Grown Edamame. Luther C. Carson*, Josh Freeman¹, Kequan Zhou¹ and Gregory Welbaum¹, ¹Department of Horticulture, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, ²Virginia Polytechnic Institute and State University, Eastern Shore Agricultural Research and Extension Center, Painter, VA 23420, ³Department of Food Science, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061. (lutherc@vt.edu)

Determination of Quercus series Virentes heredity in Texas. Adam L. Purnell*, Cynthia McKenney, Robert Wright, and Thayne Montague, Department of Plant & Soil Science, Texas Tech University, M.S. 2122, Lubbock, TX 79409 (adam.l.purnell@ttu.edu)

Effect of parboiled rice hulls on physical and chemical properties of amended pine bark substrates and the growth of container grown ornamentals. Celina Gómez* and James Robbins, 316 Plant Science Building, Department of Horticulture, University of Arkansas, Fayetteville, 72701. (cgomezv@uark.edu)

Efficient asexual propagation of Lindera glauca (Siebold & Zucc.) Blume and Lindera aggregata (Sims) Kosterm. Andrea Schroeder* and Jeffrey A. Adkins, Department of Horticulture, Stephen F. Austin State University, Nacogdoches, TX 75962. (schroedea@titan.sfasu.edu).
Establishing a transformation system for western-shipper and honey-dew melons (Cucumis melo). Yan Ren¹, Ian Curtis², Haejeen Bang¹, Jean Gould¹,³, Bhimanagouda S. Patil¹, and Kevin M. Crosby¹, ¹Vegetable and Fruit Improvement Center, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77845, ²Texas AgriLife Research, Weslaco, TX 78596, ³Department of Ecosystem Science and Management, Texas A&M University, College Station, TX 77843. (kcrosby@ag.tamu.edu)

Evaluating the Genetic Diversity of Natural C. leavenworthii Populations and Gene Flow from C. tinctoria. Sarah M. Smith*, David M. Czarnecki II and Zhanao Deng, Depatment of Environmental Horticulture, Gulf Coast Research and Education Center, University of Florida, Wimauma, FL 33598. (smith04@ufl.edu)

Fresh market tomato irrigation management on sandy loam soils. Catherine Fleming¹*, Mark Reiter², and Joshua Freeman², ¹Department of Crop and Soil Environmental Sciences, Virginia Polytechnic Institute & State University, Blacksburg, VA 24061, ²Virginia Polytechnic Institute and State University Eastern Shore Agricultural Research and Extension Center, 33446 Research Drive, Painter, VA 23420. (cathy@vt.edu)

Mulch Type. Theodore McAvoy*¹ and Josh H. Freeman¹, ¹Department of Horticulture, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, ²Eastern Shore Agriculture Research and Extension Center, Painter, VA 23420. (mcavoy@vt.edu)

Polyploids in Lantana (Lantana camara): Possible Origins, Uses for Breeding and Association with Invasiveness. David M. Czarnecki II* and Zhanao Deng, Environmental Horticulture Department, Gulf Coast Research and Education Center, University of Florida, Wimauma, FL 33598. (aggator@ufl.edu)

Soil Persistence of Dimethyl Disulfide Fumigant due to Application Rate, Chemical Formulation, and Plastic Mulch Type. Theodore McAvoy*¹ and Josh H. Freeman², ¹Department of Horticulture, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, ²Eastern Shore Agriculture Research and Extension Center, Painter, VA 23420. (mcavoy@vt.edu)

EXTENSION SECTION

Room: Azalea Room
Presiding: Robert Boozer
Abstracts: To publish abstract in HortScience, see instructions at end of program. Submit on disk at meeting or email to Chair: (boozert@auburn.edu)

8:00 Formation of an eXtension Grape Community of Practice, Eric T. Stafne¹*, Ed Hellman², Keith Striegler³, and Kathleen Kelsey³, ¹358 Agricultural Hall, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078, ²Texas AgriLife Extension Service Agricultural Research and Extension Center, 1102 E. FM 1294 Lubbock, TX 79403-6603, ³Institute for Continental Climate Viticulture and Enology, Division of Food Systems and Bioengineering, College of Agriculture, Food, and Natural Resources, 108 Eckles Hall, University of Missouri—Columbia, Columbia, MO 65211-5140, 4Agricultural Education, Communications, & Leadership, Oklahoma State University, 466 Agricultural Hall, Stillwater, OK 74078. (eric.t.stafne@okstate.edu)

8:15 Development of the All about Blueberries eXtension CoP SCRI Proposal, Natalie Hummel*, LSU AgCenter, Department of Entomology, 404 Life Sciences Building, Louisiana State University, Baton Rouge, LA 70803-1710. (nhummel@agcenter.lsu.edu)

8:30 Urban Water Conservation through Rainwater Harvesting: Evaluation of Knowledge Gains and Behavioral Changes, Tony A. Glover¹*, Sallie Lee¹, Cathy Sabota² and Kerry Smith³, ¹Alabama Cooperative Extension System, C. Beaty Hanna Horticulture Center, 2612 Lane Park Road, Birmingham, AL 35223, ²Alabama Cooperative Extension System, Urban Affairs, Alabama A&M University, P.O. Box 69, Normal, AL 35762, ³Auburn University, Department of Horticulture, 101 Funches Hall, Auburn University, AL 36849. (gloveta@aces.edu)

8:45 Sweetpotatoes as an alternative crop for small farms in East Kentucky, Timothy Coolong*, Department of Horticulture, University of Kentucky, Lexington, KY 40546. (timcoolong@uky.edu)
Establishing Priorities for Pest Management Research and Extension Activities for Vegetable Production in Miami-Dade County through Grower/Supplier Surveys
Mary Lamberts1, Dakshina Seal2 and Shouan Zhang2. 1UF Miami-Dade County Extension, 18710 SW 288th Street, Homestead, FL 33030, 2UF Tropical Research & Education Center, 18905 SW 280th Street, Homestead, FL 33031 (lamberts@ufl.edu)

Break

The Green Industries: A Horticulture Course to Improve Professionalism.
Adrian Hunsberger* and Henrique Mayer, University of Florida Miami-Dade County Extension, 18710 SW 288th Street, Homestead, FL 33030 (aghu@ufl.edu)

Programmatic Teams for State Extension Professionals: Experiences since 2006 at Clemson University, Desmond R. Layne*, 165 Poole Agricultural Center, Box 340375, Department of Horticulture, Clemson University, Clemson, SC, 29634-0319. (dlayne@clemson.edu)

Increasingly blurred state boundaries in Small Fruit Crop Extension and How the Southern Region Small Fruit Consortium is Helping from a State Specialist's Perspective, Barclay Poling*, Tom Monaco1, Gina Fernandez1, Bill Cline2, Powell Smith3, 1Department of Horticulture Science, Kilgore Hall, Box 7609, North Carolina State University, Raleigh, NC 27695-7609, 2Horticultural Crops Research Station, 3800 Castle Hayne Road, Castle Hayne, NC 28429, 3CUCES-Lexington County, 605 W. Main Street Ste. 109, Lexington, SC 29072. (barclay_poling@ncsu.edu)

Peach Germplasm Evaluation Program at Clemson University: An Overview
Desmond R. Layne*, 165 Poole Agricultural Center, Box 340375, Department of Horticulture, Clemson University, Clemson, SC, 29634-0319. (dlayne@clemson.edu)

Preliminary Findings from the Alabama Insect Pest Survey using Pheromone Traps, Ayanava Majumdar1*, Henry Fadamiro2, and Robert Boozer3, 1Gulf Coast Research and Extension Center, 8300 State Hwy 104, Fairhope, AL 36532, 2Department of Entomology and Plant Pathology, 346 Funchess Hall, Auburn University, Auburn, AL 36849, 3Chilton Research and Extension Center, 120 County Road 756, Clanton, AL 35045. (bugdoctor@auburn.edu)

EDUCATION SECTION
Room: Azalea Room
Presiding: Richard Harkess
Abstracts: To publish abstract in HortScience, see instructions at end of program. Submit on disk at meeting or email to Chair: (rharkess@pss.msstate.edu)

Horticulture Career and Professional Development: A seminar course to talk about the “real world”, Curt R. Rom*
Department of Horticulture, PTSC 316, University of Arkansas, Fayetteville, AR 72701. (crom@uark.edu)

History and Analysis of the Environmental Education Program at SFA Gardens. David Creech* and Elyce Rodewald, College of Forestry and Agriculture, PO Box 13000, Stephen F. Austin State University, Nacogdoches, TX 75962-3000. (dcreech@sfasu.edu)


VEGETABLE CROPS SECTION
Room: Palms Ballroom Salon A
Presiding: Annette Wszelaki
Abstracts: To publish abstract in HortScience, see instructions at end of program. Submit on disk at meeting or email to Chair: (awszelak@utk.edu)

Solanaceous Crops
Utilization of Grafted Tomato Seedlings for Open Field Production. Josh H. Freeman*, Theodore McAvoy2, Steve Rideout1, Adam Wimer1, Virginia Polytechnic Institute and State University, Eastern Shore Agricultural Research and Extension Center, 33446 Research Drive, Painter, VA 23420. Department of Horticulture, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061. (joshfree@vt.edu)
3:15  Fresh Market Tomato Irrigation Management on Sandy Loam Soils.
Catherine Fleming*, Mark Reiter, and Joshua Freeman, 1Department of Crop and
Soil Environmental Sciences, Virginia Polytechnic Institute and State University,
Blacksburg, VA 24061. 2Virginia Polytechnic Institute and State University, Eastern Shore
Agricultural Research and Extension Center, 33446 Research Drive, Painter, VA 23420.
(cathy@vt.edu)

3:30  Water Movement below Drip-irrigated Tomatoes Grown in Sandy Soil.
Bee Ling Poh*, Aparna Gazula and Eric H. Simonne, Horticultural Sciences Dept, University of
Florida, 1228 Fifield Hall, PO Box 110690, Gainesville, FL 32611-0690.
(pohbeeling@ufl.edu)

3:45  Quality and Yield of Hybrid and Heirloom Tomatoes Grown for the Early Market
Using Season Extension Structures.  Annette L. Wszelaki* and Mary Rogers, Department
of Plant Sciences, University of Tennessee, 252 Ellington Plant Sciences Building, 2431
Joe Johnson Dr., Knoxville, TN 37996.
(annettew@utk.edu)

4:00  Break

4:15  Effects of Shoot Pruning on Bacterial Spot Infection on Tomato Cultivars.
Bielinski M. Santos* and Gary E. Vallad. Gulf Coast Research and Education Center, IFAS,
University of Florida. (bmsantos@ufl.edu).

4:30  Earth-Kind Tomato Production.  Joseph G. Masabni* and Patrick Lillard, Department of
Horticultural Sciences, Texas A&M University, College Station, TX 77843-2134.
(jmasabni@ag.tamu.edu)

4:45  Height Control in Three Pepper Varieties Using Exogenous ABA Applications.
Christopher J. Biai*, Jose Garzon and Chris Gunter, Department of Horticultural Science,
North Carolina State University, 230 Kilgore Hall, Box 7609, Raleigh, NC 27695-7609.
(cjbiai@ncsu.edu)

POSTERS

Room:  Palms Ballroom Salon E
Presiding:  Gary Bachman
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)

Set-Up:  Sunday, 8:00 am – 12:00 pm
Poster Viewing  Sunday noon to Monday 11:00 am
Authors at Poster:
Sunday, 1:00 - 2:00 pm even numbered posters
Sunday, 2:00 - 3:00 pm odd numbered posters

Students in Competition at Poster:
Sunday, 3:00 - 4:00 pm all students at posters
Take-down:  Monday, after Business Meeting

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 posters Sunday, 3:00 -
4:00 pm.

1G  A Bioassay To Determine Potential Phytotoxicities In Aged And Fresh Whole Tree.
Whitney Griffin, G.B. Fain, D.J. Eakes, C.H. Gilliam, and J.L. Sibley. Department of
Horticulture, Auburn University, Auburn, AL 36849. (griffwn@auburn.edu)

2G  Drought Tolerance of Quercus series Virentes accessions in Texas.
Adam L. Purnell*, Cynthia McKenney, and Thayne Montague, Department of Plant & Soil
Science, Texas Tech University, M.S. 2122, Lubbock, TX 79409 (adam.l.purnell@ttu.edu)

3G  Impact of Post-establishment Applied Organic Mulch on Gas Exchange and
Growth of Landscape Tree Species.  Kaylee Whitehurst*, Thayne Montague, Cynthia McKenney, Department of Plant and Soil
Science, Texas Tech University, Lubbock, Texas, U.S.A. 79409-2122
(thayne.montague@ttu.edu)

4G  Survey of white-tailed deer impacts on ornamental plants in Alabama.
L. Ashley Baker*, D. Joseph Eakes, Christine H. Coker, Carolyn W. Robinson, Glenn B.
Fain, Stephen S. Ditchkoff, 101 Funchess Hall, Department of Horticulture, Auburn
University, Auburn University, AL 36849, 1815 Popp's Ferry Rd., Coastal Research and
Extension Center, Biloxi, MS 39532, 3301
33G) Nuclear DNA content of *Hydrastis canadensis* L. and genome size stability of *in vitro* regenerated plantlets. Samuel G. Obae* and Todd P. West, Division of Plant and Soil Sciences, West Virginia University, Morgantown, WV 26505-6108 (Todd.West@mail.wvu.edu).

34U) Landscape Design of a Vertical Plane: The Clemson University Green Wall Project. K. Thomas Baker*, Mary T. Haque, and Dr. James Brown-Faust, Department of Environmental Horticulture, Clemson University, Clemson, SC 29634-0319. (ktbaker@clemson.edu).

5) Developing Cell Membrane Thermostability and Triphenyl Tetrazolium Chloride Cell Viability Tests for Assessing Heat Tolerance in Ivy Geraniums. Mingshu Zhang* and Richard L. Harkess, Department of Plant and Soil Science, Mississippi State University, Mississippi State, MS 39762. (rharkess@pss.msstate.edu).

6) Efficacy of Biofungicides for Control of *Pythium* root rot in Poinsettia (*Euphorbia pulcherrima* Wild. ex Klotzsch). Mengmeng Gu* and Maria Tomas-Peterson, 1 BOX 9555, Department of Plant and Soil Science, Mississippi State University, Mississippi State, MS 39762. 2 BOX 9655, Department of Entomology and Plant Pathology, Mississippi State University, Mississippi State, MS 39762. (mgu@pss.msstate.edu).

7) Evaluation of Oxyfluorfen + Prodiame Herbicide Combination for Safety in Woody Ornamentals. B. W. Trader*, M. Gu, A. May, K. Gajanayake, D. Cochran, and S. Huff, Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS 39762. (btrader@pss.msstate.edu).

8) Home gardening workshop demographics of South Mississippi. Gary R. Bachman, Christine Coker, Nancy Freeman. Mississippi State University, Coastal Research and Extension Center, Biloxi, MS 39532. (gbachman@ext.msstate.edu).

**Fruit Crops**

9) Lack of nut production in a potentially sterile, late-flowering ornamental tung oil tree (*Aleurites fordii*).” Timothy A. Rinehart and Ned Edwards. USDA-ARS-MSA, Southern Horticultural Laboratory, 810 Highway 26 West, Poplarville, MS 39470 (tim.rinehart@ars.usda.gov).

10) A New Blueberry Variety for Home Gardeners. D. Scott NeSmith*, Dept. of Horticulture, 1109 Experiment Street, University of Georgia, Griffin, GA 30223-1797 (snesmith@griffin.uga.edu).


12) Discovering Raspberries: Molecular Markers For *Rubus idaeus* Fruit And Fruiting Traits. Jessica Spencer, Gina Fernandez and Bryon Sosinski. NC State University, Dept of Horticultural Science. Raleigh, NC 27695. (yenchez@nc.rr.com).

13) Effect of growing location on fruit quality of muscadine grape cultivars. Elina Coneva*, J. Burkett*, J. Pitts*, and E. Vinson1, 101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849. 2Alabama Agricultural Experiment Station, 4725 County Rd. 40, Shorter, AL 36075. 3Alabama Agricultural Experiment Station, 120 County Rd. 756, Clanton, AL 35045. (edc0001@auburn.edu).


15) Fruiting Characteristics of Ten Fig Cultivars for the Gulf South Region. R.A. Mirabello, Jr*, C.E. Johnson and J.E. Boudreaux, School of Plant, Environmental and Soil Sciences, Louisiana State University, Baton Rouge, LA 70803. (RMirabello@agcenter.wsu.edu).
16) Influence of Biostimulants on Growth and Systemic Acquired Resistance in Avocado and Citrus in the Nursery Stage. J. Pablo Morales-Payan*, 010-A Pinero Hall, Department of Crops and Agro-Environmental Sciences. University of Puerto Rico, Mayaguez Campus, Mayaguez, PR 00681 (morales.payan@upr.edu)

17) Influence of Rootstocks on Physiology of Merlot Grapevines on the Texas High Plains. Thayne Montague*, Edward Hellman, and Keith Jenkins, Texas AgriLife Research and Extension Center, Lubbock, Texas, U.S.A. 79403-6603, Department of Plant and Soil Science, Texas Tech University, Lubbock, Texas, U.S.A. 79409-2122 (thayne.montague@ttu.edu)

18) Postharvest Evaluation of Prime-Ark® 45 Primocane-Fruiting Blackberry. Sandra Sleezer and John. R. Clark, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701 (ssleezer@uark.edu)

19) Suziblue: A New Early Ripening Southern Highbush Blueberry. D. Scott NeSmith*, Dept. of Horticulture, 1109 Experiment Street, University of Georgia, Griffin, GA 30223-1797 (snesmith@griffin.uga.edu)

20) Three New Fig Cultivars for the Gulf South. C.E. Johnson*, RA. Mirabello, Jr. and J.E. Boudreaux, School of Plant, Environmental and Soil Sciences, Louisiana State University, Baton Rouge, LA 70803. (CEJohnson@agcenter.lsu.edu)

Vegetable Crops

21) ClO₂ as a Sanitizer for Closed Loop Irrigation Systems in Bell Pepper. Libby Davies*, Danielle Treadwell, and Michael Alligood, Department of Horticultural Sciences, University of Florida. PO Box 110690, Gainesville, FL 32611-0690. (libbydavies@ufl.edu)

22) Effect of Cultural Practices on Pumpkin, Gourd, and Squash Production. G.D. Hoyt and R.J. Gehl, Department of Soil Science, North Carolina State University, Mountain Horticultural Crops Research and Extension Center, Mills River, NC 28759. (greg_hoyt@ncsu.edu)

23) Hydraulic conductance characteristics of common rootstocks for watermelon grafting. John L. Jifon* 1Texas AgriLife Research and Extension Center, Weslaco, TX 78596. (jljifon@ag.tamu.edu).

24) Hydraulic Conductance Characteristics of Common Rootstocks for Watermelon Grafting. John L. Jifon* 1Texas AgriLife Research and Extension Center, Weslaco, TX 78596. (jljifon@ag.tamu.edu)

25) Investigating Flavonoid and Capsaicin Levels in Various Texas A&M Habanero (Capsicum chinense) Breeding Lines When Grown in Multiple Locations in Texas. Justin Butcher1, Kevin Crosby1, Daniel Leskovar2, and Kil Sun Yoo1, 1Vegetable and Fruit Improvement Center, Dept. of Horticultural Sciences, Texas A&M University, College Station, TX 77845, 2Texas AgriLife Experiment Station, Texas A&M University, 1619 Garner Field Rd., Uvalde, TX 78801

26) Response of Mustard Greens to Gypsum in Sulfur Deficient Light and Heavy Textured Soils. D.J. Makus, USDA, ARS, Weslaco, TX 78596. (Donald.Makus@ars.usda.gov)

27) Row Arrangements, Seeding Rates, and Gibberellic Acid Treatments to Improve Yield of Machine-Harvested Cilantro. Brian A. Kahn* and Niels O. Maness, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078-6027. (brian.kahn@okstate.edu)

28) Soil Changes after Four Years of Organic Vegetable Production. Warren Roberts*, Jim Shreffler, and Merritt Taylor. Wes Watkins Agricultural Research and Extension Center, Oklahoma State University, PO Box 128, Lane, OK 74555. (wroberts@lane-ag.org)

29) The Effects of Daminozide on Flower Production and Sex Ratios in Hydroponic Greenhouse Cucumbers (Cucumis sativus). Daniel C. Messick* and Nathan C. Phillips, School of Agribusiness and Agriscience, Middle Tennessee State University, Murfreesboro, TN 37132. (dcm3r@mtsu.edu)

30) Yield of Watermelon and Suppression of Purple Nutsedge as Affected by Mulching with Polyethylene and Selected Plant Materials Available in Puerto Rico. Jorge Fuentes-Fuster, Jose Pablo Morales-Payan*, Pedro Marquez-Mendez and Sonia Martinez-Garrastazu. 010-A Pinero Hall, Department of Crops and Agro-Environmental Sciences. University of Puerto Rico, Mayaguez Campus. Mayaguez, PR 00681 (morales.payan@upr.edu)
31) Yield Response of Okra to Transplanting.
James Shrefler¹, Lynn Brandenberger², Merritt Taylor³* and Warren Roberts¹. ¹Wes Watkins Agricultural Research and Extension Center, Oklahoma State University, PO Box 128, Lane, OK 74555, ²Department of Horticulture and L.A., 360 Ag Hall, Stillwater, OK 74078. (jim.shrefler@okstate.edu)

Other

32) Multiple Comparisons of Treatment Means Using the Simulation-Stepdown Method in SAS.
Eugene K. Blythe*, Coastal Research and Extension Center, Mississippi State University, South Mississippi Branch Experiment Station, Poplarville, MS 39470. (blythe@pss.msstate.edu)

Monday, February 8, 2010

POSTERS
Room: Palms Ballroom Salon E
Presiding: Gary Bachman
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)
Poster Viewing Monday 8:00-11:00 am
Take-down: Monday, after Business Meeting

ANNUAL BUSINESS MEETING AND AWARDS PROGRAM
Room: Jasmine
Time: 11:00 – 12:30
Presiding: Jim Ballington, President

VEGETABLE CROPS SECTION
Room: Oleander A
Presiding: Annette Wszelaki
Abstracts: To publish abstract in HortScience, see instructions at end of program. Submit on disk at meeting or email to Chair: (awszelak@utk.edu)

Morning Session
8:00 Cultivation and Nutraceutical Content of Virginia Grown Edamame. Luther C. Carson¹*, Josh Freeman², Kequan Zhou³ and Gregory Welbaum¹. ¹Department of Horticulture, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, ²Virginia Polytechnic Institute and State University, Eastern Shore Agricultural Research and Extension Center, Painter, VA 23420, ³Department of Food Science, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061. (lutherc@vt.edu)

8:15 Control of Spring Weed Populations in Mustard (Brassica juncea) Utilizing Preemergence Herbicides.
Lynn Brandenberger* and Lynda Carrier. Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078-6027. (lynn.brandenberger@okstate.edu)

8:30 Breeding Disease Resistant Pumpkins for Georgia. George E. Boyhan*, Suzanne Tate, and Ryan McNeill. Department of Horticulture, University of Georgia, 1111 Miller Plant Science Bldg., Athens, GA 30602. (gboyhan@uga.edu)

8:45 Three-year Study Examining Storability of Sweet Onions Using Various Harvest Methods and Cultivars at Vidalia, Georgia.
B. G. Mullinix¹*, B. W. Maw², D. Dales², and C. Welsh². ¹Texas A&M University – Lubbock, 1102 East FM 1294 Road, Lubbock, TX 79403, ²University of Georgia – Tifton, P.O. Box 748, Tifton, GA 31793-0748. (bgmullinax@ag.tamu.edu)

9:00 Snap Bean Nitrogen Management in the Mid-Atlantic.
Mark Reiter* and Joshua Freeman, Virginia Polytechnic Institute and State University, Eastern Shore Agricultural Research and Extension Center, 33446 Research Drive, Painter, VA 23420. (mreiter@vt.edu)

9:15 Break

9:30 Rootstock Selection Effects Grafted Melons by Impacting Yield and Fruit Quality.
Richard L. Hassell, Department of Environmental Horticulture, Clemson University CREC, 2700 Savannah Highway, Charleston, South Carolina 29424. (rhassel@clemson.edu)

9:45 Evaluation of Reflex in Watermelon, Squash, and Pepper.
Joseph G. Masabni* and Patrick Lillard, Department of
10:00 Developing Cantaloupe Lines with Resistance to Multiple Vine Decline Pathogens. Kevin M. Crosby1,* and Daniel I. Leskovar2. Vegetable and Fruit Improvement Center, Dept. of Horticultural Sciences, Texas A&M University, College Station, TX 77845
2Texas AgriLife Research and Extension Center, 1619 Garner Field Rd., Uvalde, TX 78801. (kcrosby@ag.tamu.edu)

10:15 Effects of Chlorfluorenol and an Ascophyllum nodosum Extract on Watermelon. J. Pablo Morales-Payan*, 010-A Pinero Hall, Department of Crops and Agro-Environmental Sciences. University of Puerto Rico, Mayaguez Campus. Mayaguez, PR 00681. (morales.payan@upr.edu)

10:30 Maturity Date and Transplant Stage Influence Productivity of Transplanted Sweet Corn. Timothy Coolong*, Darrell Slone, and Janet Pfeiffer, Department of Horticulture, University of Kentucky, Lexington, KY 40546. (timcoolong@uky.edu)

Break to attend SR-ASHS Business Meeting at 11:00-12:30 and lunch

Afternoon Session

1:00 Efforts to Improve Sulfur Nutrition in Sandy Soils. Camille E. Esmel1,*; Bielinski M. Santos1, John E. Rechcigl1, Gurpal Toor1, Eric H. Simonne2, Joseph W. Noling3, Department of Horticultural Sciences, University of Florida, 114625 CR 672 Wimauma, FL 33598, 2P.O. Box 110220 Gainesville, FL 32611, 3700 Experiment Station Rd., Lake Alfred, FL33580. (cami13@ufl.edu)

1:15 Soil Persistence of Dimethyl Disulfide Fumigant due to Application Rate, Chemical Formulation, and Plastic Mulch Type. Theodore McAvoy*1, and Josh H. Freeman2, 1Department of Horticulture, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061, 2Eastern Shore Agriculture Research and Extension Center, Painter, VA 23420. (mcavoy@vt.edu)

1:30 The Relative Abundance of Weeds in Reduced-Till, Organic Broccoli Utilizing Living Mulches. Sarah E. Broughton* and Annette L. Wszelaki, Department of Plant Sciences, University of Tennessee, 252 Ellington Plant Sciences Building, 2431 Joe Johnson Dr., Knoxville, TN 37996. (sbrought@utk.edu)

1:45 Performance of Strawberry Cultivars in High Tunnel Culture. Teresa P. Salame*, Bielinski M. Santos, Craig K. Chandler, and Steven A. Sargent. Gulf Coast Research and Education Center, IFAS, University of Florida. (bmsantos@ufl.edu).

2:00 Break

2:15 Effects of Irrigation Volumes and Frequencies on the Growth, Yield and Postharvest Quality of Strawberry. Maricruz Ramirez-Sanchez*, Bielinski M. Santos, Craig K. Chandler, and Steven A. Sargent. Gulf Coast Research and Education Center, IFAS, University of Florida. (bmsantos@ufl.edu).


2:45 Effects of Irrigation Rates on Plant Growth and Fruit Yield in Seedless Watermelon. Juan Diaz-Perez1, Ji Pingsheng2, and Dan MacLean1, 1Department of Horticulture, 2Department of Plant Pathology, University of Georgia. Plant Sciences Building, Coastal Plain Experiment Station, Tifton, GA 31793. (jcdiaz@uga.edu)

FRUIT CROPS SECTION

Room: Oleander B
Presiding: Elina Coneva
Abstracts: To publish abstract in HortScience, see instructions at end of program. Submit on disk at meeting or email to Chair: (edc0001@auburn.edu)

Morning Session

8:00 Survey of Dehydrin Genes in Peach Germplasm. Ksenija Gasic*, Nannan Yang1,
Carole L. Bassett\textsuperscript{2}, Chris Dardick\textsuperscript{2} and Vladislav Ogjanov\textsuperscript{3}, \textsuperscript{1}Department of Environmental Horticulture, Clemson University, E-143 Poole, Clemson, SC, 29634, \textsuperscript{2}USDA-ARFS, 2217 Wiltshire Rd., Kearneysville, WV 25430, \textsuperscript{3} Department of Pomiculture and Viticulture, University of Novi Sad, Faculty of Agriculture, Sq. Do sitej Obradovic 8, 21000 Novi Sad, Serbia. (kgasic@clemson.edu)

8:15 Mechanical Flower Thinning of Peach Trees trained to a Quad-V System. Gregory L. Reighard* and W. Henderson, 170 Poole Ag Center, Department of Horticulture, Clemson University, Clemson, SC, 29634-0319. (grghrd@clemson.edu)

8:30 Preharvest application of ethephon to enhance quality of ‘Alfred’ peach. F.M. Woods\textsuperscript{1+}, E. Coneva\textsuperscript{1}, E.L. Vinson, III\textsuperscript{1}, J. Pitts\textsuperscript{2}, B.D. Blasius\textsuperscript{1} and B. S. Wilkins\textsuperscript{1}. \textsuperscript{1}101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, \textsuperscript{2}Alabama Agriculture Experiment Station, 120 County Rd. 756, Clanton, AL 35045. (woodsfm@acesag.auburn.edu).

8:45 The Effects of Girdling and Benefit\textsuperscript{®} Application on Fruit Growth of New Kiwifruit Cultivars. Jay D. Spiers\textsuperscript{1*}, William Dozier\textsuperscript{1}, Bryan Wilkins\textsuperscript{1}, and Jim Pitts\textsuperscript{2}. \textsuperscript{1}Department of Horticulture, Auburn University, 101 Funchess Hall, Auburn, AL 36849, \textsuperscript{2}Alabama Agricultural Experiment Station, Chilton Research and Extension Center, 120 Co. Rd. 756, Clanton, AL 35045. (jds0017@auburn.edu).

9:00 Physiological Differences of Cool, Warm, and Hot Climate Grapevine Varieties on the Texas High Plains. Thayne Montague*, Edward Hellman, and Keith Jenkins. Texas AgriLife Research and Extension Center, Lubbock, Texas, U.S.A. 79403-6603, Department of Plant and Soil Science, Texas Tech University, Lubbock, Texas, U.S.A. 79409-2122. (thayne.montague@ttu.edu)

9:15 Break

9:30 Using High Tunnels and Day-neutral for 9 Months of Continuous Strawberry Fruiting in the Upper Mountains of North Carolina. E. Barclay Poling\textsuperscript{1+}, Rocco Schiavone\textsuperscript{1}, and Larry Wohlers\textsuperscript{2}. \textsuperscript{1}Department of Horticultural Science, NC State University, Raleigh, NC 27695-7609, \textsuperscript{2} Upper Mountain Research Station (NCDA), Laurel Springs, NC 28644-9406. (barclay_poling@ncsu.edu)

9:45 Timing of bloom and harvest for autumn production of primocane fruiting blackberries for high tunnels. Curt R. Rom\textsuperscript{1}, Heather Friederich, and Elena Garcia, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (crom@uark.edu)

10:00 Prospects for Midas as an Alternative to Methyl Bromide in North Carolina. E. Barclay Poling\textsuperscript{1*}, and Rocco Schiavone, Department of Horticultural Science, NC State University, Raleigh, NC 27695-7609. (barclay_poling@ncsu.edu)

10:15 Impacts of temperature on node formation and bloom date of primocane-fruiting blackberry genotype APF-52 under hightunnel and ambient conditions and multiple mowing treatments. Christopher I. Vincent\textsuperscript{1*} and M. Elena Garcia, 316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (civince@uark.edu)

Break to attend SR-ASHS Business Meeting at 11:00-12:30 and lunch

Afternoon Session

1:00 Regional influence on antioxidant properties of selected rabbiteye blueberry cultivars in Alabama. F. M. Woods\textsuperscript{1}, E. Coneva\textsuperscript{1}, E. Vinson, III\textsuperscript{1}, A. Caylor\textsuperscript{2}, and B.D. Blasius\textsuperscript{1}. \textsuperscript{1}101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, \textsuperscript{2}Alabama Agriculture Experiment Station, 765 County Rd. 1466, Cullman, AL 35055. (woodsfm@acesag.auburn.edu).

1:15 Survey of Commercial Blueberry Farms in Arkansas. M. Elena Garcia\textsuperscript{1*}, Christopher I. Vincent\textsuperscript{1}, Donn T. Johnson\textsuperscript{2}, Ioannis Tzanetakis\textsuperscript{1}, \textsuperscript{1}316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, \textsuperscript{2}310 Agriculture, Department of Entomology, University of Arkansas, Fayetteville, AR 72701. (megarcia@uark.edu)

1:30 Brushy Weed Control in Blueberries. Stephen Stringer* and Ned Edwards. USDA-ARS Southern Horticulture Laboratory, Poplarville, MS, 39470.
1:45 Effect of irrigation on fruit production and quality of rabbiteye blueberry. Elina Coneva1, T. Tyson2, R. Boozer3, N. Kelly3, and E. Vinson1. 1101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849. 2200 Corley Building, Department of Biosystems Engineering, Auburn University, Auburn, AL 36849. 3ACES, 104 Duncan Hall, Auburn University, Auburn, AL (edc0001@auburn.edu)

9:00 Break

9:15 Cutting propagation of two perennial species in whole pine tree substrates. Anthony Witcher4, Eugene Blythe6, Glenn B. Fain5, Kenneth J. Curry5, and James M. Spiers1. 1USDA-ARS Southern Horticultural Laboratory, 8210 Hwy 26 W, Poplarville, MS 39470; 2Mississippi State University/MAFES, South MS Branch Experiment Station, Poplarville, MS 39470; 3University of Southern Mississippi, Department of Biological Sciences, Hattiesburg, MS 39401; 4Department of Horticulture, Auburn University, Auburn, AL 36849. (anthony.witcher@ars.usda.gov)

9:30 Evaluation of two perennials (Agastache ‘Red Fortune’ and Penstemon digitalis ‘Huskers Red’) in low-input nursery production systems. Nathan C. Phillips6, Jesse R. Traub, and Justin G. Gardner, School of Agribusiness and Agriscience, Middle Tennessee State University, Murfreesboro, TN 37132. (nphillip@mtsu.edu)

9:45 Initial evaluation of Griffith Buck rose cultivars under Louisiana growing conditions. Allen Owings, LSU AgCenter, Hammond Research Station, 21549 Old Covington Highway, Hammond, LA 70403. (aowings@agctr.lsu.edu)

10:00 Alternative media substrates for seasonal crops. Ed Bush6, Jeff Kuehny, Wanda Ellis and Leslie Moree-Kerin LSU AgCenter, 137 J. C. Miller Hall, Baton Rouge La. 70803. (ebush@agcenter.lsu.edu)

10:15 Magnesium fertilizer sources for woody ornamental container production. Ed Bush6, Daniel Wells, Allen Owings and Steve Borst, LSU AgCenter, 137 J. C. Miller Hall, Baton Rouge, LA 70803. (ebush@agcenter.lsu.edu)

POST HARVEST/PLANT BIOTECHNOLOGY SECTION

Room: Largo
Presiding: Donna Marshall
Abstracts: To publish abstract in HortScience, see instructions at end of program. Submit on disk at meeting or email to Chair: (Donna.Marshall@ars.usda.gov)
Morning Session

8:00 Tracking water absorption in split-susceptible blueberries. Donna A. Marshall1*, Kenneth J. Curry2, and James M. Spiers1. 1USDA-ARS, Southern Horticultural Laboratory, 810 Highway 26 West, Poplarville, MS 39470, 2118 College Drive, #5018, Department of Biological Sciences, University of Southern Mississippi, Hattiesburg, MS 39406 (Donna.Marshall@ars.usda.gov)

8:15 Blueberry Fruit Development and Splitting. Carrie L. Witcher1*, Kenneth J. Curry1, Donna A. Marshall2, and James M. Spiers1. 1USDA-ARS, Southern Horticultural Laboratory, 810 Highway 26 West, Poplarville, MS 39470, 2118 College Drive, #5018, Department of Biological Sciences, University of Southern Mississippi, Hattiesburg, MS 39406, 3USDA-ARS, Southern Horticultural Laboratory, 810 Highway 26 West, Poplarville, MS 39470. (carrie.witcher@usm.edu)

8:30 Developing a protocol for evaluation of fresh market raspberries. Penny Perkins-Veazie*, G. Fernandez, Jim Ballington. North Carolina State University, Plants for Human Health Institute, Suite 1329, 600 Laureate Way, Kannapolis, NC 28081 (penelope_perkins@ncsu.edu)

8:45 Effect of plastic mulch color and row cover on yield and quality of sweet potato. D. M. Sullen1*, F.M. Woods1, J. R. Kessler1, J. E. Brown1, B.D. Blasius1, E. L. Vinson, III1, and, J.E. Burkett2. 1101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, 2Alabama Agriculture Experiment Station,4725 County Rd. 40, Shorter, AL 36075. (woodsfm@acesag.auburn.edu)

9:00 Break

9:15 Effect of Laser Labeling on Survival of Salmonella spp. on Tomato Surfaces during postharvest storage. Lenin O. Interiano Villeda, Loretta M. Friedrich, Keith Schneider, Ed Etxeberria and Michele Danyluk. University of Florida, Citrus Research and Education Center. 700 Experiment Station Rd. Lake Alfred, FL 33850. (eje@crec.ifas.ufl.edu)

9:30 Response of the ascorbate-glutathione cycle to storage temperature in carambola fruit. Jinhe Bai, Y. Imahori and Elizabeth Baldwin. USDA-ARS, Citrus & Subtropical Products Laboratory, 600 Avenue S, NW, Winter Haven, FL 33881 (Jinhe.Bai@ars.usda.gov)

9:45 Evaluation of the antimicrobial capacity and phenolics of extracts from different section of various muscadine cultivars. Chen, Weimei1, Taejo Kim1, Juan L. Silva1, Donna Marshall2, Stephen Stringer2. 1Mississippi State University 2 USDA-ARS Thad Cochran Southern Horticultural Laboratory Poplarville, MS 39470 (JSilva@foodscience.msstate.edu)

10:00 A study on aromatic profiles of Thymus hyenalis and Spanish T. vulgaris essential oils at five physiological stages. Francisco-Emesto Loayza-Davila1, Anne Plotto2, Kanjana Mahattanatawe3, Kevin Goodner1, and, María J. Jordán5. 1University of Florida, Department of Horticulture, Fifield Hall, Gainesville, FL 32611, 2 USDA-ARS, Citrus & Subtropical Products Laboratory, 600 Avenue ‘S’, NW, Winter Haven, FL 33881, 3 Siam University, 235 Petchkasem Road, Phasi-charoen, Bangkok 10160, Thailand, 4 Sensus, LLC, 7255 Hamilton Enterprise Park Dr., Hamilton, OH 45011, 5 IMIDA, Departamento de Recursos Naturales y Desarrollo Rural. C./ Mayor s/n, 30150 La Alberca Murcia, Spain (Anne.Plotto@ars.usda.gov)

10:15 Facile removal of ascorbate interference when measuring total phenolics in orange juice with Folin-Ciocalteu method. Brian Ford, Jinhe Bai, Elizabeth A. Baldwin. USDA-ARS Citrus and Subtropical Products Laboratory, 600 Avenue “S” Northwest, Winter Haven FL 33881 (Brain.Ford@ars.usda.gov)

Break to attend SR-ASHS Business Meeting at 11:00-12:30 and lunch

Afternoon Session

1:00 Invited talk on Food Safety in Fresh Fruits and Vegetables

Dynamics between fruit cuticles and surface microflora can affect sanitizing methods Jan Narciso USDA-ARS Citrus and Subtropical Products Laboratory 600 Avenue S, NW, Winter Haven, FL, 33881 (Jan.Narciso@ars.usda.gov)

1:30 Reduced O₂ and elevated CO₂ tolerance limits of fresh-cut ‘Kent’ mango during storage. Sharon Dea1*, Jeffrey .K. Brecht2,
Cecilia do Nascimento Nunes ², Elizabeth A. Baldwin ¹, USDA-ARS Citrus & Subtropical Products Laboratory, 600 Ave. S N.W., Winter Haven, FL 33881, ² IFAS Horticultural Sciences Department, University of Florida, 1301 Fifield Hall, Gainesville, FL 32611, ³ IFAS Food Science & Human Nutrition Department, University of Florida, SW 23rd Dr., Bldg. 685, Gainesville, FL 32611. (Sharon.Dea@ars.usda.gov) ¹:45 Sanitization treatments of blueberries for the frozen/processing market. Melody Corbitt, Taejo Kim, Juan L. Silva. Department of Food Science, Nutrition and Health Promotion, Mississippi State University, Miss. State, MS 39762 (jsilva@foodscience.msstate.edu)

2:00 Kiwi fruit quality and antioxidant properties as affected by preharvest application of plant growth stimulating compounds. Floyd M. Woods ¹*, D.A. Burnie ¹, J.R. Kessler ¹, W.A. Dozier ¹, C. Wall ¹, J. Pitts ², B.D. Blasius ¹ and B. Wilkins ¹. ¹101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, ²Alabama Agriculture Experiment Station, 120 County Rd. 756, Clanton, AL 35045. (woodsfm@acesag.auburn.edu). 2:15 The Fate of E. coli O157:H7 and Salmonella on Fresh and Frozen Cut Pineapples. Laura Strawn ¹* and Michelle Danyluk ². ¹Cornell University, Department of Food Science, 410B Stocking Hall, Ithaca, NY 14850 ²University of Florida, Citrus Research and Education Center. 700 Experiment Station Rd. Lake Alfred, FL 33850 (lks67@cornell.edu)
Examination
Saturday, February 6, 1:00–4:00 p.m., Orange Room, Wyndham Orlando Resort

Application and Deadlines
Go to the ASHS website (ashs.org) to download the complete ASHS Certified Horticulturist Candidate Handbook and the Application to sit for the examination. Applications and proper payment must be received in the ASHS office no later than 14 (fourteen) working days before a scheduled exam. No exceptions.

Fees for the Examination
ASHS Members—$160.00; Nonmembers—$235.00

For additional information:
- Download: CH Booklet; CH Study Outline; Application to sit for the ASHS CH Examination

Format of the Examination
- The certification examination consists of 200 multiple-choice questions.
- Each question has four choices listed, only one of which is correct. The answer to each question can be derived independently of the answer to any other question.
- You will have 4 hours to complete the examination. It is always advisable to first answer the questions that are easy for you, skipping over those questions to which you will need to return to give more thought. Working in such a manner, you should feel no time pressure because 4 hours will be more than enough time to complete the examination.
- You must achieve an overall score of at least 71%. If you do NOT achieve a passing score, you must retake the exam. You will be allowed to retake the exam one time for $100 within one year of the original test date. After one year from the original test date, you must again pay the full exam fee of $160 for members of ASHS or $235 for nonmembers.

Content of the Certification Examination
The certification examination is designed to test your understanding of the following topics:
- Landscape Design and Maintenance
- Production of Fruits, Vegetables, Turf and Ornamental Plants
- Shipping and Handling of Final Product
- Propagation
- Monitoring and Testing
- Diagnosing and Managing Plant Problems
- Business Practices

Examination Eligibility Requirements
The ASHS Certified Horticulturist Board requires candidates to have a minimum of:
- three (3) years of paid fulltime experience in Horticulture, or
- a two-year degree in Horticulture and two (2) years of paid practical experience, or
- a four-year degree in Horticulture or a related field and one (1) year of paid practical experience.

By submitting your application, you authorize ASHS certification staff to contact the practical experience reference named on your application to substantiate your eligibility.

The ASHS Certified Horticulturist Program does not discriminate in determining eligibility on the basis of race, color, religion, gender, national origin, age, disability, or any other characteristic protected by law.
Instructions for Submission of Abstracts for Publication in HortScience

To Publish Your Abstract in HortScience:
1) One of the authors must registered for the conference.
2) The abstract must be submitted as a document file in the proper format.
3) 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.
# 2010 Program at a Glance

## Friday (Pre-Conference)

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## Venue

- Wyndham Orlando Resort
- Hotel Lobby
- Palm Ballroom Salon E
- Azalea Room
- Oleander A
- Magnolia
- Oleander B
- Palm Ballroom Salon A
- Floral Ballroom Foyer
- Jasmine
- Oleander A
- Magnolia
- Oleander B
- Largo
Meeting Room Locations
ASHS Annual Conference
Palm Desert, California
2 - 5 August 2010

Abstract Submissions
now accepted online at ashs.org
Deadline: February 15, 2010

American Society for Horticultural Science
1018 Duke Street, Alexandria, VA 22314
phone: 703.836.4606
fax: 703.836.2024
ashs.org • meetings@ashs.org

Photos courtesy of Desert Springs JW Marriott Resort & Spa