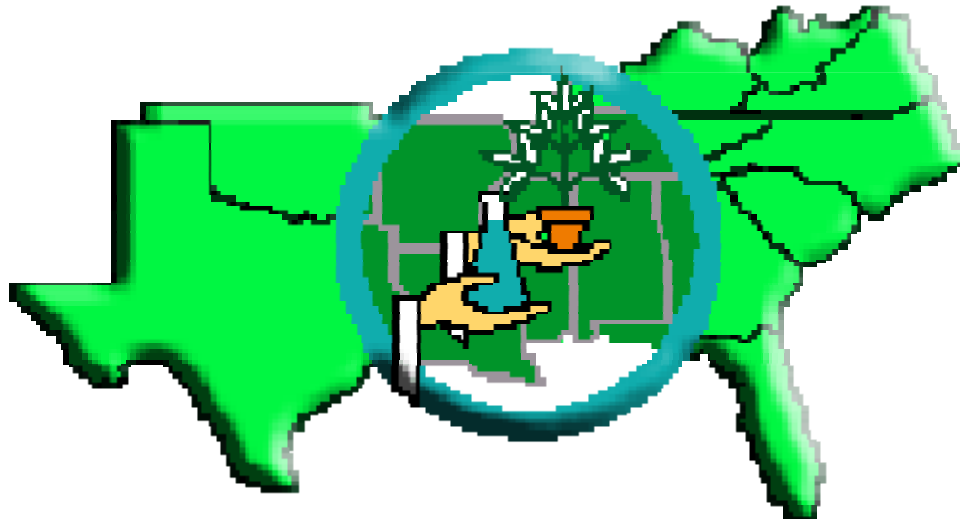


PROGRAM



67th ANNUAL MEETING

Southern Region
of the
American Society for Horticultural Science

February 3-5, 2007
Mobile, Alabama

Program at a Glance

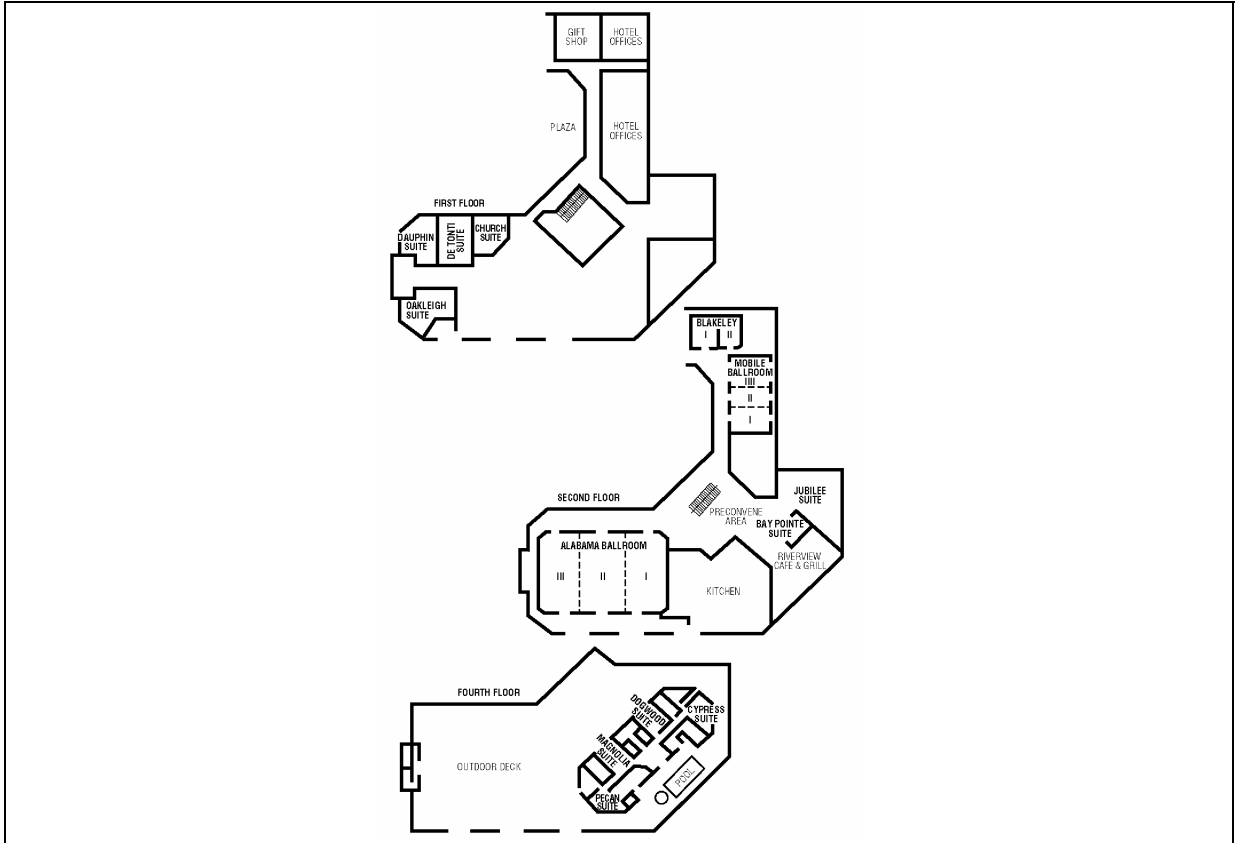
Saturday	8:00				9:00					10:00					11:00					12:00					1:00					2:00					3:00					4:00					5:00				
<i>Riverview Plaza Hotel</i>																																																	
Hotel Lobby	7:00 open Registration																																																
Mobile Ball Room III	National Sweet Potato Collaborators																																																
Mobile Ball Room I	Pecan Research & Extension Forum																																																
Mobile Ball Room II	Southern Blueberry/Small Fruit Workers																																																
Oakleigh Suite																									Horticulture Administrators												Executive Com.												
Dauphin Suite	ACB, Share Club Activities												ACB Group Lunch									ACB Activities												ACB Reception															

Sunday	8:00				9:00					10:00					11:00					12:00					1:00					2:00					3:00					4:00					5:00				
<i>Mobile Convention Center</i>																																																	
Prefunction	7:00 open Registration																																																
Upper Concourse	Poster Session Set-Up																								Poster Session Viewing												Authors at Posters & Judging												
West/East Ball Room																									SAAS General Session												Super Bowl Recep.												
<i>Riverview Plaza Hotel</i>																																																	
De Tonti Suite	J. Benton Storey Horticulture Judging Contest Set-Up																								J. Benton Storey Horticulture Judging Contest																								
Mobile Ball Room III	National Sweet Potato Collaborators																																																
Blakeley I	Southern Region Small Fruit Consortium																								Education Section																								
Oakleigh Suite	Extension Section																																																
Mobile Ball Room II	Watermelon Research Group																																																
Dauphin Suite	Edmond UG Paper Comp.												Childers M.S. Paper Competition												Barham Ph.D. Paper Comp.																								
Mobile Ball Room I	Vigna Crop Germplasm Committee																								National Cowpea Improvement Association																								

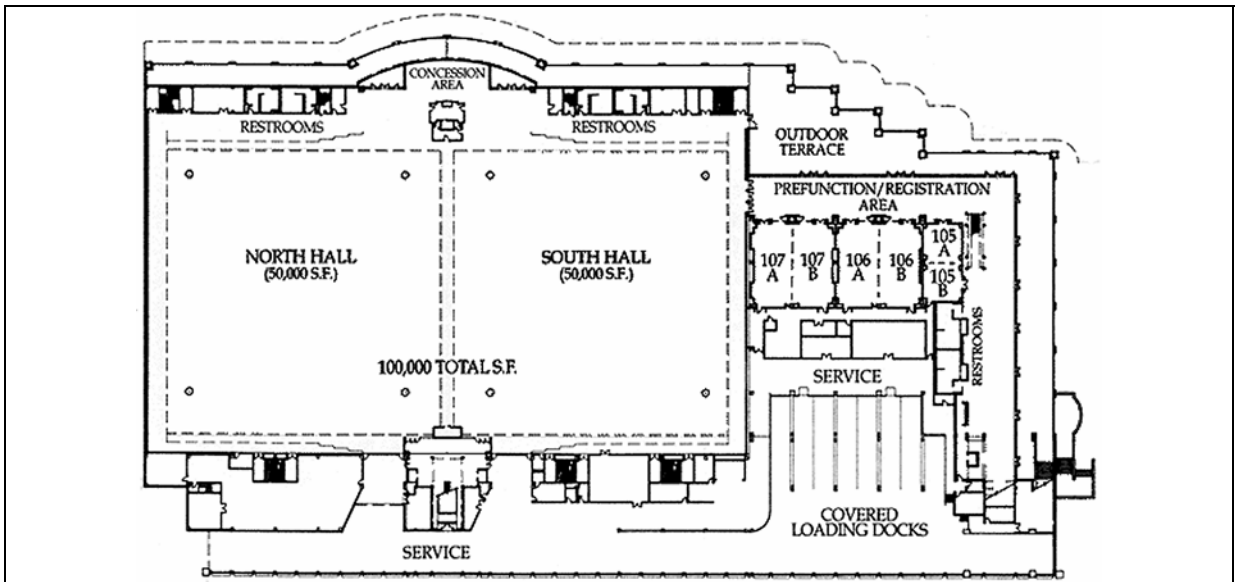
Monday	8:00				9:00					10:00					11:00					12:00					1:00					2:00					3:00					4:00					5:00				
<i>Mobile Convention Center</i>																																																	
Prefunction	7:00 open Registration																																																
Upper Concourse	Poster Session Viewing																								Take Down																								
Room 107B	ACB Business Meeting												Awards & Business Mtg.																																				
<i>Riverview Plaza Hotel</i>																																																	
Mobile Ball Room II	Vegetable Crops Section																								Vegetable Crops Section																								
Blakeley I	Fruit Crops Section - Blackberry Prod. & Mktg.																								Fruit Crops Section																								
Church Suite	Floriculture, Ornamentals & Turf Section																																																
De Tonti Suite	PostHarvest & Biotechnology Section																																																

Meeting Room Locations

Riverview Plaza Hotel



Mobile Convention Center



PROGRAM

67th ANNUAL MEETING

Southern Region

American Society for Horticultural Science

SPECIAL EVENTS AND SESSIONS

SATURDAY, FEBRUARY 3, 2007

7:00 am - 6:00 pm	Registration Presiding: Dave Reed Room: Riverview, Lobby
8:00 am - 5:00 pm	National Sweet Potato Collaborators Presiding: Scott Stoddard Room: Riverview, Mobile Ball Room III
8:00 am - 5:00 pm	Pecan Research and Extension Forum Presiding: Monte Nesbitt Room: Riverview, Mobile Ball Room I
8:00 am - 5:00 pm	Southern Blueberry/Small Fruit Workers Presiding: John Braswell Room: Riverview, Mobile Ball Room II
9:30 am - 11:30 pm	ACB Program, Share Club Activities and Refreshments Presiding: Monica Robinson, ACB President Room: Riverview, Dauphin Suite
12:00 noon	ACB Group Lunch Presiding: Monica Robinson, ACB President Room: Riverview, Dauphin Suite or TBA
1:00 pm - 4:30 pm	ACB Activities Presiding: Monica Robinson, ACB President Room: Riverview, Dauphin Suite
1:00 pm - 5:00 pm	Horticulture Administrators Presiding: Julia Kornegay Room: Riverview, Oakleigh Suite
4:30 pm - 6:00 pm	ACB Reception Presiding: Monica Robinson, ACB President Room: Riverview, Dauphin Suite or TBA
5:00 pm - 6:00 pm	Southern Region - ASHS Executive Committee Meeting Presiding: John Clark Room: Riverview, Oakleigh Suite

SUNDAY, FEBRUARY 4, 2007

- 7:00 am - 6:00 pm Registration**
 Presiding: Dave Reed
 Room: Convention Center, Prefunction/Upper Concourse
- 8:00 am – 12:00 pm Set up Posters**
 Presiding: Christine Coker
 Room: Convention Center, Prefunction/Upper Concourse
- 8:00 am – 12:00 pm J. Benton Storey Horticulture Judging Contest Setup**
 Presiding: Kim Pittcock, ACB Advisor
 Room: Riverview, De Tonti Suite
- 8:00 am - 5:00 pm National Sweet Potato Collaborators**
 Presiding: Scott Stoddard
 Room: Riverview, Mobile Ball Room III
- 8:00 am - 12:00 pm Southern Region Small Fruit Consortium**
 Presiding: Thomas Monaco
 Room: Riverview, Blakeley I
- 8:00 am - 10:00 am Extension Section**
 Presiding: John Braswell
 Room: Riverview, Oakleigh Suite
- 8:00 pm - 5:00 pm Watermelon Research Group**
 Presiding: Benny Bruton
 Room: Riverview, Mobile Ball Room II
- 8:00 am - 9:30 am J. B. Edmond Undergraduate Student Paper Competition**
 Presiding: Monica Robinson, ACB President
 Scott NeSmith, SR-ASHS President
 Pat Williams, Section Chair & Judging Coordinator
 Room: Riverview, Dauphin Suite
- 9:00 am – 12:00 pm Vigna Crops Germplasm Committee**
 Presiding: Richard Fery
 Room: Riverview, Mobile Ball Room I
- 10:00 am - 2:00 pm Norman F. Childers M.S. Student Paper Competition**
 Presiding: Penny Perkins-Veazie, President Elect
 TBA, Judging Coordinator
 Room: Riverview, Dauphin Suite
- 12:00 noon - 6:00 pm Poster Session Viewing**
 Room: Convention Center, Prefunction/Upper Concourse
- 1:00 pm - 5:00 pm National Cowpea Improvement Association**
 Presiding: William Evans
 Room: Riverview, Mobile Ball Room I
- 1:00 pm - 5:00 pm J. Benton Storey Horticulture Judging Contest**
 Presiding: Kim Pittcock, ACB Advisor
 Room: Riverview, De Tonti Suite
- 2:00 pm - 3:00 am Education Section**
 Presiding: Curt Rom
 Room: Riverview, Blakely I

- 3:00 pm - 4:30 pm Warren S. Barham Ph.D. Student Paper Competition**
 Presiding: Penny Perkins-Veazie, President-Elect
 TBA, Judging Coordinator
 Room: Riverview, Dauphin Suite
- 4:00 pm - 6:00 pm Poster Session Viewing - Authors at Posters**
 Presiding: All Authors at all posters
 All students in poster competition at posters
 Christine Coker, Judging Coordinator
 Room: Convention Center, Prefunction/Upper Concourse
- 3:30 pm - 5:00 pm SAAS General Session**
 Presiding: Vance Watson, President, SAAS
 Room: Convention Center, West Ballroom
 Title/Speaker: Immigration Policy, Speaker TBA
- 5:00 pm SAAS Reception and Super Bowl Party (big screen TV)**
 Room: Convention Center, East Ballroom

MONDAY, FEBRUARY 5, 2007

- 7:00 am - 10:00 am Registration**
 Presiding: Dave Reed
 Room: Convention Center, Prefunction/Upper Concourse
- 8:00 pm - 3:00 pm Poster Session Viewing**
 Room: Convention Center, Prefunction/Upper Concourse
- 8:00 am - 10:30 pm Vegetable Crops Section**
 Presiding: David Nagel
 Room: Riverview, Mobile Ball Room II
- 8:00 am - 10:45 pm Fruit Crops Section – Blackberry Production and Marketing**
 Presiding: Robert Boozer
 Room: Riverview, Blakely I
- 8:00 am - 10:45 am Floriculture, Ornamentals and Turf Section**
 Presiding: Gary Wade
 Room: Riverview, Church Suite
- 8:00 am - 10:30 am Postharvest/Biotechnology/Plant Biology Section**
 Presiding: Angela Davis
 Room: Riverview, De Tonti Suite
- 9:00 am - 10:45 am ACB Business Meeting**
 Presiding: Monica Robinson, ACB President
 Room: Convention Center, Room 107B
- 11:00 am - 12:30 pm Annual Business Meeting and Award Program**
 Presiding: Scott NeSmith, President
 Room: Convention Center, Room 107B
- 1:00 pm - 2:45 pm Vegetable Crops Section**
 Presiding: David Nagel
 Room: Riverview, Mobile Ball Room II
- 1:00 pm - 3:45 pm Fruit Crops Section**
 Presiding: Robert Boozer
 Room: Riverview, Blakely I
- 3:00 pm - 4:00 pm Poster Session Take Down**

SECTION TITLES

SUNDAY, FEBRUARY 4, 2007

J. B. EDMOND UNDERGRADUATE STUDENT PAPER COMPETITION

Room: Riverview, Dauphin Suite

Presiding: Monica Robinson, President, ACB

Scott NeSmith, President, Southern Region ASHS

Patrick Williams, Section Chair, Judging Coordinator

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

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

Landscaping for Water Quality: Designing a Demonstration Garden for the Friends of Lake Keowee Society Headquarters. David Warren* and Mary Haque, Department of Horticulture, Clemson University, Clemson, SC 29634. (dmwarre@clemson.edu)

Nitrogen Mineralization in Greenhouse Turnips (*Brassica campestris* L.) Amended with Compost and Organic Fertilizer. Rachel Ben-Avraham*, Danielle Treadwell and Mike Alligood. Department of Horticultural Sciences, University of Florida, Gainesville, FL 33611. (rachba@ufl.edu)

Repellency Effects of Incorporated Worm Castings and Compost Tea Sprays on Whitefly Populations for Poinsettia Production (*Euphorbia pulcherrima*). Erin Cathcart*, Kris-Ann Kaiser and Pat Williams, Department of Agricultural Sciences, 213 S. Oakley Applied Science, Murray State University, Murray, KY 42071-3345. (erin.cathcart@murraystate.edu)

Shortening Germination Periods for California Poppy (*Eschscholzia californica*) Using Incubated Worm Casting Substrates. William Criner*, Justin Sparks, Kris-Ann Kaiser and Pat Williams, Department of Agricultural Sciences, 213 S. Oakley Applied Science, Murray State University, Murray, KY 42071-3345. (william.criner@murraystate.edu)

Ultrastructure of grape petioles infected with Pierce's Disease. Samantha Clark*¹, E. Ann Ellis², George Ray McEachern¹, B. Greg Cobb¹, ¹Dept. of Horticultural Sciences and ²Dept. of Biology EM Center, Texas A&M University, College Station, TX 77843 (samanthac@tamu.edu)

Production of wine from cactus pear, Chris Brundrett* and B. Greg Cobb, Dept. of Horticultural Sciences, Texas A&M University, College Station, TX 77843. (gocatz2002@tamu.edu)

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

Room: Riverview, Dauphin Suite

Presiding: Penny Perkins-Veazie, President-Elect, Southern Region ASHS

Abstracts: To publish your abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair (pperkins-usda@lane-ag.org)

10:00 am – 11:45 am Order of presentations determined by drawing at beginning of contest.

11:45 am – 12:00 pm Break

12:00 pm – 2:00 pm Order of presentations determined by drawing at beginning of contest.

Sensory Properties of Puffed Gorgon Nut M. Pakal*, P.C. Coggins¹, C.E. Coker², P.R. Knight², ¹Garrison Sensory Evaluation Laboratory, Department of Food Science, Nutrition and Health Promotion, Mississippi State University, Stone Blvd., Box 9805, Mississippi State, MS 39762-9805, ²Coastal Research and Extension Center, Mississippi State University, 1815 Popps Ferry Road, Biloxi, MS 39532 (mp195@msstate.edu)

Response of Texas and Florida Live Oak (*Quercus virginiana*) Seedlings to Drought. Amber Bonds* and Thayne Montague, Plant and Soil Science Department, Texas Tech University, Lubbock, TX 79409. (amberbonds@hotmail.com)

The Effect of Drought on Root Growth of Two Native Landscape Shrub Species. Matthew F. Wilkin*, A.N. Wright, R.C. Ebel, and D.J. Eakes, Horticulture Department, Auburn University, 101 Funchess Hall, Auburn, AL 36849-5408. (wilkimf@auburn.edu)

Using Degree Days to Predict Nitrogen Mineralization from Organic Amendments. Alejandra Sierra¹, Danielle Treadwell¹, Eric Simonne¹ and Donald Graetz². ¹Department of Horticultural Science, P.O. Box 110690, University of Florida, Gainesville, FL 32611-0690. ²Soil and Water Science Department, P.O. Box 110510, University of Florida, Gainesville, FL 32611-0510. (iasierra@ufl.edu)

Influence of Four Salinity Treatments on Growth and Leaf Nutrient Concentration of Three Taxodium Genotypes. LiJing Zhou* and D. Creech, Department of Agriculture, PO Box 13000, Stephen F. Austin State University, Nacogdoches, TX 75962. (zhoul@titan.sfasu.edu)

Evaluation of Optimal Substrates and Fertilizers for Organic Vegetable Transplant Production in Alabama. C.J. Mcgrath*, J.M. Kemble, A.N. Wright, and W.G. Foshee III, Department of Horticulture, Auburn University, Auburn, AL 36849. (mcgracj@auburn.edu)

Influence of a Modified Pot-in-pot Production Strategy on Root Temperature and Growth of Rhododendron X 'Mrs. G.G. Gerbing' in Full Sun. Brennan Whitehead* and D. Creech, Department of Agriculture, PO Box 13000, Stephen F. Austin State University, Nacogdoches, TX 75962 (brennanwhitehead@yahoo.com)

Timing of Herbicide Application Effects Weed Germination. Diana R. Cochran¹*, Charles H. Gilliam¹, D.J. Eakes¹, Glenn R. Wehtje¹, and Patricia R. Knight², 101 Funchess Hall, Department of Horticulture, Auburn University, Auburn, AL 36849, ²Mississippi State University, Coastal Research and Extension Center, Biloxi, MS 39532. (cochrdr@auburn.edu).

Consumer Preference and Postharvest Life of Field-grown Fresh-cut Sunflowers. Kara Howard*, Ellen Peffley, Chad Davis, Jorge Vizcarra, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409. (kara.howard@ttu.edu)

Product Development and Optimization of a Soy Concept Food. A. Samala*, P.C. Coggins, M.W. Schilling, Department of Food Science, Nutrition and Health Promotion Mississippi State University, Stone Blvd., Box 9805, Mississippi State, MS 39762-9805 (as337@msstate.edu)

The Effect of Different Colors of ChromatiNet Shading on Growth and Flowering of Seven Bedding Plant Species in Greenhouse Production. Charles R. McElhannon*, R.J. Kessler, G.J. Keever, W.G. Foshee, Horticulture Department, Auburn University, 101 Funchess Hall, Auburn, AL 36849. (mcelhcr@auburn.edu)

Utilization of Commercially Available Pollenizers for Optimizing Triploid Watermelon Production. *Peter J. Dittmar, D. W. Monks, J. R. Schultheis, North Carolina State University, Raleigh, NC 27695-7609. (pjdittma@ncsu.edu)

Sudden inundation affects on urban landscape plants. Karen Blackburn* and Ed Bush, LSU AgCenter Department of Horticulture, Louisiana State University, Baton Rouge, LA 70803-1068 (kblackburn@agcenter.lsu.edu)

Staking, Guying, and Root Ball Anchoring: The Efficacy of Tree Stabilization Systems Installed on Recently Transplanted Trees. Alexis, A. Alvey* and P. Eric Wiseman, Department of Forestry, Virginia Tech, Blacksburg, VA 24061-0324. (alvey@vt.edu)

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

Room: Riverview, Dauphin Suite

Presiding: Penny Perkins-Veazie, President-Elect, Southern Region ASHS

Abstracts: To publish your abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair (pperkins-usda@lane-ag.org)

3:00 pm – 4:30 pm **Order of presentations determined by drawing at beginning of contest.**

Identification of molecular markers associated with sweetpotato resistance to sweetpotato virus disease. D. W. Miano*¹, D. R. LaBonte¹ and C. A. Clark², ¹Department of Horticulture, Louisiana State Univ. Agricultural Center, Louisiana Agricultural Experimental Station, Baton Rouge, LA 70803, ²Department of Plant Pathology and Crop Physiology, Louisiana State Univ. Agricultural Center, Louisiana Agricultural Experimental Station, Baton Rouge, LA 70803 (dmiano1@lsu.edu)

Variation in Ecophysiological traits of Mexican Pecan Provenances. Madhulika Sagaram¹*, Leonardo Lombardini¹, and L.J. Grauke², Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133, ² Pecan Genetics and Breeding Program, Agricultural Research Service, U.S. Department of Agriculture, 10200 FM50, Somerville, TX 77879 (madhulika2@yahoo.com)

Determination of Nitrogen Loads from Field Grown Tomatoes. Aparna Gazula¹*, Eric Simonne¹, Michael D. Dukes², George J. Hochmuth³, Robert Hochmuth⁴, and David W. Studstill¹. ¹Horticultural Sciences Department, 1241 Fifield Hall, University of Florida, Gainesville, FL 32611-0690. ²Agricultural and Biological Engineering Department, 107 Frazier Rogers Hall, P.O. Box 110570, Gainesville, FL 32611. ³1022 McCarty Hall, Gainesville, FL 32611. ⁴North Florida Research and Education Center - Suwannee Valley, 7580 County Road 136, Live Oak, FL 32060. (virgoinc@ufl.edu)

Semi-Quantitative Measurement of Carotenoid Development in Four Watermelon Colors: A Discussion of the Impact of Ploidy and other Genetic Factors. ¹Jennifer Waters, ¹Hae Jeen Bang, ²Angela Davis, ¹Stephen King ¹Department of Horticultural Sciences, Texas A&M University, College Station, TX; ²SCARL, USDA-ARS, Lane, OK 74555. (jennwaters@neo.tamu.edu)

Morphological and physiological studies on Lirope and Ophiopon species, Catherine Broussard* and Ed Bush, LSU AgCenter Department of Horticulture, Louisiana State University, Baton Rouge, LA 70803-1068 (mbrous9@lsu.edu)

Effect of Fertilizer Rate and Clean Chip Residual Substrate for Container-Grown Perennials. Cheryl R. Boyer¹*, Glenn B. Fain², Charles H. Gilliam¹, Thomas V. Gallagher³, H. Allen Torbert⁴, Jeff L. Sibley¹, ¹101 Funchess Hall, Horticulture Department, Auburn Univ., Auburn, AL 36849, ²USDA-ARS Southern Horticultural Laboratory, Poplarville, MS 39470, ³Department of Forestry and Wildlife Sciences, Auburn University, Auburn, AL 36849, ⁴USDA-ARS National Soil Dynamics Laboratory, Auburn, AL 36832. (boyercr@auburn.edu)

EXTENSION SECTION

Room: Riverview, Oakleigh

Presiding: John Braswell

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

- 8:00 am** **Success of the Pecan Management Course at Oklahoma State University.** Eric T. Stafne*, B. Dean McCraw, and Becky L. Carroll, 360 Agricultural Hall, Department of Horticulture and Landscape Architecture, Stillwater, OK 74078 (eric.t.stafne@okstate.edu)
- 8:15 am** **So, you wanted to accept the null hypothesis? Analysis and interpretation of fertilizer trials in the BMP era.** Eric H. Simonne*, Monica Ozores-Hampton, Ramon Littell, Meagan Brennan, and Aparna Gazula, University of Florida, Horticultural Sciences Department, Gainesville, FL 32611-0690, Agricultural Statistics Department, Gainesville FL, 32611-0339 (esimonne@ufl.edu)
- 8:30 am** **Teaching Through Games.** Mary Lamberts* and Christian Miller, University of Florida Miami-Dade County Extension, 18710 SW 288th Street, Homestead, Florida 33030 (millec4@ufl.edu)
- 8:45 am** **The Changing Face of Extension in Alabama.** J. M. Kemble*, Department of Horticulture, 101 Funchess Hall, Auburn University, AL 36849 (kembljm@auburn.edu)
- 9:00 am** **Break**
- 9:15 am** **A Regional Training Program for Methyl Bromide Transition: Regulatory Update, Alternatives Research, and On-Farm Projects.** Welker, R. M.¹, J. P. Smith*², G.E. Fernandez³, D.W. Monks³, P.M. Brannen⁴, E.B. Poling³, and F. J. Louws¹, ¹Dept. of Plant Path., Gardner Hall 3403, Box 7616, NCSU, Raleigh, NC 27695, ²CUCES-Lexington Cty., 605 W. Main St. Suite 109, Lexington, SC 29072, ³Dept. of Hort. Sci., Kilgore Hall 128, Box 7609, NCSU, Raleigh, NC 27695, ⁴Dept. of Plant Path., 2106 Miller Plant Sci. Bldg., Univ. of Georgia, Athens, GA 30602 (jpsmith@clermson.edu)
- 9:30 am** **Making Fire Ants Easier to Live With: Alabama Cooperative Extension System's Fire Ant Education Program.** Kathy Flanders, Department of Entomology and Plant Pathology, 201 Extension Hall, Auburn University, AL 36849 (flandkl@auburn.edu)
- 9:45 am** **Growing Farmers and Establishing Local Markets.** John Braswell¹* and Nana Mejia², Mississippi State University, P.O. Box 193, Poplarville, MS 39470, ²National Center for Appropriate Technology, 106 Crape Myrtle Circle, Covington, LA 70433 (braswell@ext.msstate.edu)

EDUCATION SECTION

Room: Riverview, Blakely I

Presiding: Curt Rom

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

- 2:00 pm** **Benchmarks for Quality Online Course,** Cynthia McKinney*, Dept. of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409-2122
- 2:15 pm** **Using a Horticulture Survey Course as an On-Campus Recruitment Tool.** Curt R. Rom* and M. Richardson. Dep.t of Horticulture, Univ. of Arkansas, Fayetteville, AR 72701 (crom@uark.edu)
- 2:30 pm** **International Curriculum on Post-harvest Technology - An Excellent Opportunity for Horticulture Students to Expand Their Knowledge, Skills and Cultural Horizons.** Leonardo Lombardini¹*, Luis Cisneros¹, and Adel Kader². ¹Department of Horticultural Science, Texas A&M University, College Station, TX 77843-2133, ²Dept. of Pomology, University of California, 1035 Wickson Hall, One Shields Avenue, Davis, CA 95616-8683. (l-lombardini@tamu.edu)
- 2:45 pm** **Teaching the Millennial Student.** David Wm. Reed*, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133 (dwreed@tamu.edu)

POSTERS

- Room:** Convention Center, Prefunction/Upper Concourse
Presiding: Christine Coker
Abstracts: To publish your abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair (ccoker@ra.msstate.edu)
- Set-Up:** Sunday, 8:00 am – 12:00 pm
Poster Viewing Sunday, 12:00 pm – Monday, 3:00 pm
Authors at poster: Sunday, 4:00 pm - 6:00 pm
Take-down: Monday, after Business Meeting and by 4:00 pm

“G” or “U” following the poster number indicates graduate and undergraduate poster, respectively, for the purpose of the National Cowpea Poster Competition. Undergraduate and Graduate students in the poster competition must be by their posters during the “Authors at Poster” time, Sunday, 4:00 pm to 6:00 pm.

Floriculture, Ornamentals and Turf

- 1G. Evaluation of Clean Chip Residual and Composted Poultry Litter as a Growth Substrate for Container-Grown *Lantana camara*.** Cheryl R. Boyer^{1*}, Glenn B. Fain², Charles H. Gilliam¹, Thomas V. Gallagher³, H. Allen Torbert⁴, Jeff L. Sibley¹, ¹101 Funchess Hall, Horticulture Department, Auburn University, Auburn, AL 36849, ²USDA-ARS Southern Horticultural Laboratory, Poplarville, MS 39470, ³Department of Forestry and Wildlife Sciences, Auburn University, Auburn, AL 36849, ⁴USDA-ARS National Soil Dynamics Laboratory, Auburn, AL 36832. (boyercr@auburn.edu)
- 2G. Effect of Phosphorus Concentration on *Catharanthus roseus* (L.) G. Don cv. Pacifica Red in a Recirculating and Top Watering System.** Andrew Cartmill* and David Wm. Reed, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843 (adcartmill@ag.tamu.edu)
- 3. Growth of ‘Red Sparkler’ Celosia Using Four Production Systems in a Tobacco Transplant Greenhouse.** Carl E. Niedziela Jr.* and Guochen Yang. Department of Natural Resources and Environmental Design, North Carolina A&T State University, Greensboro, NC 27411 (cniedzie@ncat.edu)
- 4. Differences in Growth, and Nitrogen Uptake and Storage Between Two Container-Grown Cultivars of *Rhododendron*.** G. Bi* , C.F. Scagel , L.H. Fuchigami , and R.P. Regan, Truck Crops Branch Experiment Station, Mississippi State University, Crystal Springs, MS 39059. (gb250@msstate.edu).
- 5. *In Vitro* Culture of Pearlbush.** Guochen Yang* and Zhongge (Cindy) Lu, Department of Natural Resources and Environmental Design, North Carolina A&T State University, Greensboro, NC 27411 (yangg@ncat.edu)
- 6. Fertilization Comparison in Container Lotus (*Nelumbo*) Production.** Daike Tian*, Ken Tilt, Jeff Sibley, Fenny Dane, Floyd Woods Auburn University, Department of Horticulture, 101 Funchess Hall, Auburn, Alabama 36849 (tiandai@auburn.edu).
- 7. Genetic Diversity Estimates and DNA Fingerprint Database for Crapemyrtle Cultivars.** Timothy A. Rinehart*, USDA-ARS, Thad Cochran Southern Horticultural Laboratory, 810 Highway 26 West, Poplarville, MS 39470. (trinehart@msa-stoneville.ars.usda.gov).

Fruit Crops

- 8G. Sensory Properties of Puffed Gorgon Nut.** M. Paka^{1*}, P.C. Coggins¹, C.E. Coker², P.R. Knight², ¹Garrison Sensory Evaluation Laboratory, Department of Food Science, Nutrition and Health Promotion, Mississippi State University, Stone Blvd., Box 9805, Mississippi State, MS 39762-9805, ²Coastal Research and Extension Center, Mississippi State University, 1815 Poppo Ferry Road, Biloxi, MS 39532 (mp195@msstate.edu).
- 9G. Postharvest Evaluations Comparing Primocane- and Floricane-Fruiting Blackberries.** Colleen McCall-Thomas^{1*}, John R. Clark¹, and Penelope Perkins-Veazie², ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²USDA-ARS, SCARL, Lane, OK 74555. (cxm07@uark.edu)

10. **Effect of Rootstock on Yield Components of ‘Chardonnay’ in Oklahoma.** Eric T. Stafne^{1*}, B. Dean McCraw¹, William G. McGlynn¹, and R. Keith Striegler², ¹Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. ²ICCEV, University of Missouri, Columbia, MO 65211 (eric.t.stafne@okstate.edu)
11. **Effect of various soil amendments on 'Reveille' southern highbush blueberry.** Gerard Krewer^{1*}, D.Scott NeSmith² and Ben Mullinix³, ^{1,2}Department of Horticulture, University of Georgia, Tifton, GA 31793 and Griffin, GA 30223, ³Statistical Services, University of Georgia, Tifton, GA 31793 (gkrewer@uga.edu)
12. **Impact of Weed Barriers on Newly Planted Peach Trees.** D. J. Makus¹ and J. L. Jifon^{2*}, USDA-ARS Subtropical Research Center, ²Texas A&M Research Center, Weslaco, TX 78596. (dmakus@weslaco.ars.usda.gov).
13. **Evaluation of fruit cracking and berry firmness in rabbiteye blueberry germplasm.** D. Scott NeSmith*, Dept. of Horticulture, Univ. of Georgia Griffin Campus, 1109 Experiment Street, Griffin, GA 30223. (snesmith@griffin.uga.edu).
14. **Impact of Weed Barriers on Newly Planted Peach Trees.** D. J. Makus¹ and J. L. Jifon^{2*}, USDA-ARS Subtropical Research Center, ²Texas A&M Research Center, Weslaco, TX 78596. (dmakus@weslaco.ars.usda.gov).
15. **The Influence of Cultivar and Shoot Position on Return Bloom, Nut Quality, Non-structural Carbohydrate Concentration, Organically Bound Nitrogen and Potassium Concentration of Pecan.** Charles T. Rohla^{1*}, Michael W. Smith², Niels O. Maness² and William Reid³, ¹The Samuel Roberts Noble Foundation, Inc. Ardmore Oklahoma, 73401, ²Department of Horticulture & Landscape Architecture, Oklahoma State University, Stillwater, OK 74078, ³Department of Horticulture and Forestry, Kansas State University. (ctrohla@noble.org).
16. **Regulation of flowering in olives under mild temperatures.** Nasir S.A. Malik* and Joe M. Bradford, Kika Dela Garza Subtropical Agricultural Research Center, USDA-ARS, 2413 Hwy 83 Weslaco, TX 78596. (nmalik@weslaco.ars.usda.gov)
17. **First Year Vigor of Primocane Fruiting Blackberries from the University of Arkansas Breeding Program Grown in Kentucky.** Jeremiah D. Lowe^{1*}, Kirk W. Pomper¹, John R. Clark², and John G. Strang³. ¹Atwood Research Facility, Land Grant Program, Kentucky State University, Frankfort, KY 40601. ²Fruit Culture & Breeding, 316 Plant Science Bldg. University of Arkansas Fayetteville AR 72701. ³Department of Horticulture, N-318 Agricultural Sciences North, University of Kentucky, Lexington, KY 40546. (jeremy.lowe@kysu.edu)
18. **Weed Control and Economic Considerations of Flame Cultivation in Pawpaw Orchards.** Kirk W. Pomper* and Sheri B. Crabtree. Atwood Research Facility, Land Grant Program, Kentucky State University, Frankfort, KY 40601. (kirk.pomper@kysu.edu)
19. **Varietal Preference and Vineyard Distribution of Japanese Beetles in a Field Choice Study.** Sanjun Gu, Angela Whitehouse and Kirk W. Pomper*. Atwood Research Facility, Land Grant Program, Kentucky State University, Frankfort, KY 40601. (kirk.pomper@kysu.edu)
20. **‘Eudora’, a New Fresh Market Muscadine Grape Cultivar.** Stephen J. Stringer^{1*}, Dennis J. Gray², and James M. Spiers¹, ¹USDA-ARS Thad Cochran Southern Horticulture Laboratory Poplarville, MS 39470, ²University of Florida Institute of Food and Agricultural Sciences Apopka, FL 32703. (sjstringer@ars.usda.gov)

Vegetable Crops

- 21U. **Nitrogen mineralization in greenhouse turnips (*Brassica campestris* L.) amended with compost and organic fertilizer.** Rachel Ben-Avraham*, Danielle Treadwell and Mike Alligood, Department of Horticultural Sciences, University of Florida, Gainesville, FL 33611. (rachba@ufl.edu).
- 22G. **Changes in Cell Wall Degrading Enzyme Activity and Bulb Firmness During Storage of Onion.** Timothy W. Coolong* and William M. Randle, Dept. of Horticulture, The University of Georgia Athens, GA 30602. (tcoolong@uga.edu).

- 23G. Product Development and Optimization of a Soy Concept Food.** A. Samala*, P.C. Coggins, M.W. Schilling Department of Food Science, Nutrition and Health Promotion Mississippi State University, Stone Blvd., Box 9805, Mississippi State, MS 39762-9805 (as337@msstate.edu).
- 24G. Nitrogen Mineralization from Organic Amendments Approved for Use in Organic Transplant Production.** Alejandra Sierra^{1*}, Danielle Treadwell¹, Eric Simonne¹ and Donald Graetz². ¹Department of Horticultural Science, P.O. Box 110690, University of Florida, Gainesville, FL 32611-0690. ²Soil and Water Science Department, P.O. Box 110510, Univ of Florida, Gainesville, FL 32611-0510. (iasierra@ufl.edu).
- 25. Control of Mildew in Winter Squash.** A.H. Beany^{1*}, K. Pernezny², P. J. Stoffella¹, N. Havranek², and J. Sanchez². ¹University of Florida, IFAS, Indian River Research and Education Center, 2199 South Rock Road, Fort Pierce, Florida 34945-3138, USA. ²University of Florida, IFAS, Everglades Research and Education Center, 3200 East Palm Beach Road, Belle Glade, Florida 33430-4702, USA. (ahbeany@ufl.edu).
- 26. Effects of Deficit Irrigation on Water Use Efficiency and Fruit Quality of Drip-Irrigated Muskmelon.** J.L. Jifon*, J. Enciso and Bob Wiedenfeld; Texas A&M University, Texas Agricultural Experiment Station, Weslaco, TX 78596. (jljifon@agprg.tamu.edu).
- 27. Enzymatic Conversion and Fermentation of Sweetpotato.** Paul W. Wilson^{1*}, Don R. Labonte¹, Gloria B. McClure¹, and Arthur O. Villordon², ¹Horticulture Department, Louisiana State University, Baton Rouge, LA 70803, ²LSU Agcenter Sweet Potato Research Station, 130 Sweet Potato Road, Post Office Box 120, Chase, LA (pwwilson@lsu.edu).
- 28. Foraging behavior, pollinator effectiveness and management potential of the New World squash bees *Peponapis pruinosa* and *Xenoglossa strenua* (Apidae: Eucerini).** Blair J. Sampson^{1,2*}, Patricia R. Knight¹, James H. Cane³, ¹Mississippi State University, Coastal Research and Extension Center, 1815 Popp's Ferry Road, Biloxi, MS 39532 USA, ²USDA-ARS Thad Cochran Southern Horticultural Research Laboratory, 810 Hwy 26 W, Poplarville, MS 39470, USA, ³USDA-ARS Bee Biology and Systematics Laboratory, Logan, UT 84322-5310 USA (bsampson@msa-stoneville.ars.usda.gov).
- 29. Improving the Potential for Drought and Soil-borne Disease Tolerance in Muskmelon by Grafting.** J.L. Jifon*, Texas A&M University, Texas Agricultural Experiment Station, Weslaco, TX 78596. (jljifon@agprg.tamu.edu).
- 30. Learning to use controlled-release nitrogen products for seepage-irrigated tomato.** Kent Cushman*, Eric Simonne, Gene McAvoy, and Kelly Morgan University of Florida - IFAS - Southwest Florida Research & Education Center.(kcushman@ufl.edu).
- 31. Supplemental Foliar Potassium Fertilization Enhances Fruit Quality and Phytochemical Content of Muskmelon.** J.L. Jifon^{1*}, and G.E. Lester²; ¹Fruit and Vegetable Improvement Center-Texas A&M University, Texas Agricultural Experiment Station, Weslaco, TX 78596, and ²USDA-ARS Subtropical Research Center, Weslaco, TX 78596. (jljifon@agprg.tamu.edu).
- 32. The Melons of Uzbekistan.** Richard G. Snyder¹ and David Nagel^{2*}, ¹Truck Crops Experiment Station, Mississippi State University, P.O. Box 231, Crystal Springs, MS 39059; ²Plant & Soil Sciences Department, Mississippi State University, Box 9555, Mississippi State, MS 39762. (davidn@ext.msstate.edu).
- 33. Herbs as Potential High-value Crops for Mississippi.** V.D. Zheljzakov^{*1}, C. Coker², W. Evans³, and W. Ebelhar⁴. ¹NMREC Verona, MS, ⁴Delta Research and Extension Center Stoneville, MS, ²Coastal Research and Extension Center, ³Mississippi Truck Crops Branch Experiment Station, Crystal Springs, MS. (vj40@pss.msstate.edu)
- 34. Lemon Grass as an Essential Oil Crop for Mississippi.** V.D. Zheljzakov (Jeliazkov)*. North Mississippi Research and Extension Center, Verona, MS, 38879 (vj40@pss.msstate.edu)
- 35. Bioprospecting of American mayapple.** V.D. Zheljzakov^{*1}, R.M. Moraes², V. Maddox³ and A.M. Jones¹. ¹Mississippi State University, North Mississippi Research and Extension Center, Verona, MS, 38879, ²National Center for Natural Products Research, School of Pharmacy, The University of Mississippi, University, MS 38677, ³Mississippi State University, GeoResources Institute, P.O. Box 9555, Mississippi State, MS 39762 (vj40@pss.msstate.edu)

Monday, February 5, 2007

POSTERS

Room: Convention Center, Prefunction/Upper Concourse
Presiding: Christine Coker
Abstracts: To publish your abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair (ccoker@ra.msstate.edu)

Poster Viewing Sunday 12:00 pm – Monday 3:00 pm
Take-down: Monday, after Business Meeting and by 4:00 pm

VEGETABLE CROPS SECTION

Room: Riverview, Mobile Ball Room II
Presiding: David Nagel
Abstracts: To publish your abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair (dnagel@pss.msstate.edu)

Morning Session

- 8:00 am** **Nutrient Management for Organic Greenhouse Production of Potted Herbs**, Teresa Olczyk*, Y. Li, Y. Qian, G. Hochmuth, R. Hochmuth, E. Simonne, D. Treadwell, L. Osborne and R. Sprenkel, UF IFAS, Gainesville, FL 32611-0690 (twol@ufl.edu)
- 8:15 am** **Romaine Cultivar Evaluations in NC**, W.R. "Bill" Jester and C.B. Taylor, 202 Cunningham Road, Department of Horticulture Science, North Carolina State University, Kinston, NC 28504 (bill_jester@ncsu.edu)
- 8:30 am** **Results of the Texas Statewide Watermelon Variety Trials**. Juan R. Anciso*, Larry Stein, Stephen King, Russ Wallace, and Robert Whitney. Texas Cooperative Extension, 2401 East Highway 83, Weslaco, TX 78596. (j-anciso@tamu.edu)
- 8:45 am** **Growing 'Okinawan' Sweetpotatoes in Louisiana: Preliminary Yield Trials and Initial Impressions**. A.Q. Villordon¹, J.W. Franklin¹, T.P. Talbot¹, W. McLemore¹, C.Clark², M. Hoi² and D. LaBonte³. ¹LSU AgCenter Sweet Potato Research Station, Chase, LA 71324; ²LSU AgCenter Department of Plant Pathology and Crop Physiology, Baton Rouge, LA 70803; ³LSU AgCenter Department of Horticulture, Baton Rouge, LA 70803. (AVillordon@agcenter.lsu.edu)
- 9:00 am** **Organic Broccoli Production Under Conventional and No-Till Systems**, J.C.Díaz-Pérez¹, S.C. Phatak¹, J. Ruberson², J. Silvoy¹, and R. Morse³, ¹Dept. of Horticulture and ²Dept. of Entomology, UGA-Tifton Campus, Tifton, GA 31793, U.S.A.; ³Dept. of Horticulture, Virginia Tech., Blacksburg, VA 24061, U.S.A. (jcdiaz@tifon.uga.edu)
- 9:15 am** **Break**
- 9:30 am** **Success Seen in Certified Organic Summer Squash Production in Mississippi**. W.B. Evans*, P.M. Hudson, and K.L. Paridon, Mississippi State University Truck Crops Branch Experiment Station. 2024 Experiment Station Rd., P.O. Box 231, Crystal Springs, MS 39059-0231. (wbe@ra.msstate.edu).
- 9:45 am** **Performance of Selected Diploid Pollenizers**. Joshua H. Freeman¹*, Gilbert A. Miller², and Stephen M. Olson³, 2229 Fifield Hall, Department of Horticulture, University of Florida, Gainesville, FL 32611, ²64 Research Road, EREC, Clemson University, Blackville, SC 29817, ³155 Research Road, NFREC, University of Florida, Quincy, FL 32351. (joshuafr@ufl.edu)
- 10:00 am** **Effects of Pruning on 'Florida 47' and 'Sungard' Tomato Yields**. Bielinski M. Santos, Gulf Coast Research and Education Center, IFAS, University of Florida, Wimauma, Florida; (bmsantos@ufl.edu)

- 10:15 am** **Effects of In-row Distances on Eggplant Growth and Yield.** Bielinski M. Santos. Gulf Coast Research and Education Center, IFAS, University of Florida, Wimauma, Florida (bmsantos@ufl.edu)
- 10:30 am** **Break to attend SR-ASHS Business Meeting at 11:00-12:30**

Afternoon Session

- 1:00 pm** **Improving Nitrogen Management of Bell Pepper Production in Southern Georgia.** Roger K. Teal^{1*}, William T. Kelley¹, and Rad Yager², Department of Horticulture, University of Georgia, P.O. Box 748, Tifton, GA 31793, ²C.M. Stripling Irrigation Research Park, 8207 Hwy 37, Camilla, GA 31730. (rkteal@uga.edu)
- 1:15 pm** **Production of Organic Vidalia Onions.** G.E. Boyhan^{1*}, R. Hicks², R. Torrance³, C. Hopkins⁴, C. Riner³, R. Hill⁵, ¹East Ga. Extension Center, PO Box 8112, Statesboro, GA 30460, ²Screven Co. Extension, 321 Rocky Ford Rd., Sylvania, GA 30457, ³Tattall Co. Extension, PO Box 558, Reidsville, GA 30453, ⁴Toombs Co. Extension, 200 Courthouse Square, Suite 1, Lyons, GA 30436, ⁵Vidalia Onion and Vegetable Research Center, 8163 Hwy 178, Lyons, GA 30436. (gboyhan@uga.edu)
- 1:30 pm** **Yellow Nutsedge Management in Plasticulture.** W.G. Foshee, C. Adcock, and G.R. Wehtje, Auburn University, Dept. of Horticulture and Dept of Agronomy and Soils, 101 Funchess Hall; Dept of Horticulture; Auburn University, AL 36849. (foshewg@auburn.edu)
- 1:45 pm** **A Comparison of Internal and External Physiological Changes as a Meansto Determine Maturity in Personal Size Seedless Watermelons.** E.L. Vinson III*, J.M. Kemble, F.M. Woods, W.G. Foshee III and J.E. Burkett, 101 Funchess Hall, Dept of Horticulture, Auburn University, AL 36849. (vinsoed@auburn.edu)
- 2:00 pm** **Potato Cultivar Selection for “B” Size Production Only,** Richard L. Hassell*, Robert J. Dufault, Clemson University, Coastal Research and Education Center, 2700 Savannah Highway, Charleston, SC 29414 (rhassel@clemson.edu))
- 2:15 pm** **Seeding Rates in Romano Snap Beans (*Phaseolus vulgaris*).** John D. Downes, 1231 Miami St., Athens, TN 37303. (dixiedownes_11@juno.com)
- 2:30 pm** **Yield performance of selected tomato cultivars resistant to tomato yellow leaf curl virus.** Kent Cushman* and Phil Stansly, University of Florida, IFAS, Southwest Florida Research & Education Center, 2686 SR 29 N, Immokalee, FL 34142-9515 (kcushman@ufl.edu)

FRUIT CROPS SECTION

Blackberry Production and Marketing

- Room:** Riverview, Blakely I
- Presiding:** Robert Boozer
- Abstracts:** To publish your abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair (boosert@auburn.edu)
- 8:00 am** **New Marketing Opportunities for Blackberry Production in the Southeast.** Stanley Scarborough*, Production Manager, Sunnyridge Farm, Inc., Winter Haven, FL 33881. (stanley.scarborough@sunnyridge.com)
- 8:30 am** **Viruses of Blackberries and Raspberries.** Robert Martin*, USDA-ARS Horticultural Crops Research Unit, Corvallis, OR 97330. (martinrr@science.oregonstate.edu)
- 9:00 am** **Nutrition and Phytochemicals of Blackberries.** Jean Weese*, Alabama Cooperative Extension System, Auburn University, AL 36849. (weesesj@auburn.edu)
- 9:30 am** **Break**

- 9:45 am** **Use of New Technology in Blackberry Production.** Butch Greiffendorf*, Sales Manager, BBC Technologies, South Haven, MI 49090. (butch@bbctechnologies.com)
- 10:15 am** **Towards the Perfect Blackberry Cultivar Improvement.** John R. Clark*, 316 Plant science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (jrclark@uark.edu)
- 10:45 am** **Break to attend SR-ASHS Business Meeting at 11:00-12:30**

FRUIT CROPS SECTION

Room: **Riverview, Blakely I**

Presiding: **Robert Boozer**

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

- 1:00 pm** **Evaluation of Blackberry Production Systems.** Jim Pitts^{1*}, Robert Boozer¹, ¹Auburn University, Chilton Research and Extension Center, 120 Co.Rd. 756, Clanton, AL 35045. (pittsja@auburn.edu)
- 1:15 pm** **Symptomology of Simulated Herbicide Drift Injury in Grape.** Joseph G. Masabni*, Department of Horticulture, University of Kentucky Research and Education Center, Princeton, KY 42445. (jmasabni@uky.edu)
- 1:30 pm** **Influence of Rootstock and Fruit Thinning on Fruit Quality and Yield of ‘Jupiter’, ‘Mars’, ‘Marquis’, and ‘Neptune’ Grapes.** Kenda R. Woodburn^{1*}, M. Elena Garcia¹, and R.K. Striegler², ¹316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, ²Institute for Continental Climate Viticulture and Enology, 108 Eckles Hall, 1406 East Rollins St., University of Missouri-Columbia, Columbia, MO 65211-5140. (woodburn@uark.edu)
- 1:45 pm** **Evaluation of 38 Peach Cultivars in Western Kentucky.** Joseph G. Masabni^{1*} and Dwight Wolfe¹, ¹Department of Horticulture, University of Kentucky Research and Education Center, Princeton, KY 42445. (jmasabni@uky.edu)
- 2:00 pm** **Painting Your Way through Peach Culture.** KC Taylor^{1*} and JF Funderburk², ¹Department of Horticulture, University of Georgia, SE Fruit and Tree Nut Laboratory, 21 Dunbar Rd., Byron, GA 31008, ²Peach County Extension Office, 700 Spruce St., Wing A, Fort Valley, GA 31030. (kctaylor@uga.edu)
- 2:15 pm** **Break**
- 2:30 pm** **Preliminary Assessment of Captan Impact on Fruit Finish.** KC Taylor^{1*} and PM Brannen², ¹Department of Horticulture, University of Georgia, SE Fruit and Tree Nut Laboratory, 21 Dunbar Rd., Byron, GA 31008, ²Department of Plant Pathology, University of Georgia, 3307 Miller Plant Sciences Building, Athens, GA 30602. (kctaylor@uga.edu)
- 2:45 pm** **Analysis of Long-term Pecan Tree Yields from Three Different Orchards Involving Numerous Varieties using Mixed Model Analysis Techniques.** Benjamin G. Mullinix^{1*} and Patrick Conner², ¹Research Statistician and ²Horticulture Associate Professor, UGA Tifton Campus, Tifton, GA 31793-0748. (mullinix@uga.edu)
- 3:00 pm** **The Blueberry Orchard Bee.** Blair J. Sampson^{1,2}, James H. Cane³, Patricia R. Knight¹, ¹Mississippi State University, Coastal Research and Extension Center, 1815 Poppo Ferry Road, Biloxi, MS 39532, ²USDA-ARS Thad Cochran Southern Horticultural Research Laboratory, 810 Hwy 26 W, Poplarville, MS 39470, ³USDA-ARS Bee Biology and Systematics Laboratory, Logan, UT 84322-5310. (tricia@ra.msstate.edu)
- 3:15 pm** **Blueberry Splitting Tendencies as Effected by Fruit Firmness.** Donna A. Marshall^{1*}, J.M. Spiers¹, and S.J. Stringer¹, ¹Thad Cochran Southern Horticultural Laboratory, Poplarville, MS 39470. (damarchall@msa-stoneville.ars.usda.gov)

- 3:30 pm Sheltering Strawberries in the Southeast.** Robert Boozer^{1*}, Wheeler Foshee², and Jim Pitts¹,
¹Auburn University, Chilton Research and Extension Center, 120 Co. Rd. 756, Clanton, AL 35045,
²Department of Horticulture, Auburn University, Auburn University, AL 36849.
 (boozert@auburn.edu)

FLORICULTURE, ORNAMENALS AND TURF SECTION

Room: Riverview, Church Suite

Presiding: Gary Wade

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

- 8:00 am Adopt-A-Tree: A Reforestation Program to Replace Lost Urban Canopy Due to Disasters.** Adrian Hunsberger*, University of Florida/IFAS, Miami-Dade County Extension, 18710 SW 288th St., Homestead, FL 33030. (aghu@ufl.edu)
- 8:15 am Growth and Production of Ginger Lilies Under a Sustainable Agroforestry System with Moringa in the U.S. Virgin Islands.** Ramon A. Arancibia^{1*}, Manuel Palada¹, Mack Thetford², and Shibu Jose², Univ. of the Virgin Islands – Agricultural Experiment Station, St Croix, VI 00850, ²Univ. of Florida – West Florida Research and Education Center, Milton, FL 32583. (raranci@uvi.edu)
- 8:30 am The Impact of Foliage Plant Container Garden Sales on Identifying Consumer Needs, Trends, and Preferences.** Emily A. Stefanski* and Dr. James L. Gibson., Department of Environmental Horticulture, University of Florida, 1545 Fifield Hall, Gainesville, FL 32611. (emilyhrt@ufl.edu)
- 8:45 am Infectivity of Mycorrhizal Products Marketed for Trees in Urban and Landscape Soils.** P. Eric Wiseman^{1*} and Christina E. Wells², 228 Cheatham Hall, Department of Forestry, Virginia Tech, Blacksburg, VA 24061, ²151 Poole Agriculture Center, Department of Horticulture, Clemson University, Clemson, SC 29634. (pwiseman@vt.edu).
- 9:00 am Break**
- 9:15 am Effects of Vernalization and Photoperiod on Growth and Flowering of Three Coreopsis Cultivars.** J. Raymond Kessler, Jr., Department of Horticulture, Auburn University, 101 Funchess
- 9:30 am Biology and Control of the Strawberry Rootworm in Container-grown Ornamental Crops,** Charles (Chazz) Hesselein* and David Boyd, Mobile Ornamental Horticulture Research Center, P.O. Box 8276, Mobile, AL 36689-0276. (hessecp@auburn.edu)
- 9:45 am Irradiation of *Lagerstroemia* to Induce Sterility.** David Knauft* and Michael Dirr, Horticulture Department, 1111 Miller Plant Science Bldg., University of Georgia, Athens, GA 30602-7273. (dknauft@uga.edu)
- 10:00 am Field Evaluation of Palms in Hardiness Zones 7b and 6b.** Gary L. Wade, Department of Horticulture, University of Georgia, 221 Hoke Smith Bldg, Athens, GA 30602-7273. (gwade@uga.edu)
- 10:15 am Final Summary of All-America Daylily Evaluations: Rust Observations, Flowering and Landscape Performance.** Allen Owings*, Gordon Holcomb, C. Allen Broyles, Ann Gray, and Edward Bush, LSU AgCenter, Department of Horticulture, 155 Julian C. Miller Hall, Baton Rouge, LA. (aowings@agctr.lsu.edu)
- 10:30 am Initial Landscape Shrub Rose Observations: Knock Out, Home Run, Wild Thing and Nearly Wild.** Allen Owings*, C. Allen Broyles, and Ann Gray. LSU AgCenter, Department of Horticulture, 155 Julian C. Miller Hall, Baton Rouge, LA (aowings@agctr.lsu.edu)

POST HARVEST/PLANT BIOTECHNOLOGY SECTION

Breeding verses Molecular Approaches

Room: Riverview, De Tonti Suite

Presiding: Angela Davis

Abstracts: To publish your abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair (adavis-usda@lane-ag.org)

8:00 am Introduction to the Session, Plant Breeding Developments. Angela Davis, South Central Agricultural Research Lab, USDA-ARS, P.O. Box 159, Hwy. 3 West, Lane, OK 74555. (adavis-usda@lane-ag.org)

8:15 am Improving Shelf life of Black Berries Through Conventional Breeding. John Clark^{1*}, Penelope Perkins-Veazie², Dept. of Horticulture, University of Arkansas, 316 Plant Science, Fayetteville, AR 72701, ²South Central Agricultural Research Lab, USDA-ARS, P.O. Box 159, Hwy. 3 West, Lane, OK 74555. (jrclark@uark.edu)

8:40 am Carotenoid Analysis Using Xenon Flash Spectrophotometers as a Tool for Germplasm Screening. Angela Davis^{1*}, Wayne Fish, Penelope Perkins-Veazie, South Central Agricultural Research Lab, USDA-ARS, P.O. Box 159, Hwy. 3 West, Lane, OK 74555. (adavis-usda@lane-ag.org)

8:55 am Breeding and Biotechnology at the Vegetable Improvement Center. Bhimanagouda Patil, Veg. & Fruit Improvement Center, Texas A & M University, 1500 Research Parkway, Ste. A 120, College Station, TX, 77843. (b-patil@tamu.edu)

9:20 am Break

9:35 am Semi-Quantitative Measurement of Carotenoid Development in Four Watermelon Colors: A Discussion of the Impact of Ploidy and other Genetic Factors. Jennifer Waters^{1*}, Hae Jeen Bang¹, Angela Davis, and Stephen King¹, Dept. of Horticulture, Texas A & M University, 202 Hort./Forestry Bldg., College Station, TX 77843-2133. (jennwaters@neo.tamu.edu)

9:50 am Microarray Analysis, Uses and Limitations. W. Patrick Wechter, US Vegetable Lab, USDA/ARS, 2700 Savannah Highway, Charleston, SC 29414. (wpwechter@saa.ars.usda.gov)

10:10 am Differential Expression of Genes in Watermelon Fruit. W. Patrick Wechter¹, Amnon Levi^{1*}, Angela Davis², et al., US Vegetable Lab, USDA/ARS, 2700 Savannah Highway, Charleston, SC 29414, ²South Central Agricultural Research Lab, USDA-ARS, P.O. Box 159, Hwy. 3 West, Lane, OK 74555. (alevi@saa.ars.usda.gov)

WORKING GROUP PROGRAMS

(Contact Chairs for Agenda and Presentation times)

National Sweet Potato Collaborators

Presiding: Scott Stoddard (csstoddard@ucdavis.edu)
Saturday: 8:00 am – 5:00 pm
Sunday: 8:00 am – 5:00 pm
Room: Riverview, Mobile Ball Room III
Abstracts: To publish your abstract in *HortScience*, see instructions at end of program. Submit abstract to Chair of Vegetable Crops Section (David Nagel, dnagel@pss.msstate.edu)

Breeding, Genetics, and Molecular Biology

Content and potential biological activity of dicaffeoylquinic acids in sweetpotato storage roots. H.F. Harrison, Jr., J.K. Peterson, M.E. Snook, and W.P. Wechter.

Insect, Disease, and Weed Management

A tospovirus in the sweetpotato virus complex. C.A. Clark and M.W. Hoy. Department of Plant Pathology and Crop Physiology, Louisiana State University AgCenter, Baton Rouge, LA 70803-1720.

Assessment of procedures to quantify insect damage on sweetpotato roots. D.M. Jackson.

Detection of sweetpotato viruses by NCM-ELISA. D. Gutierrez and R. Valverde. Dept. of Plant Physiology and Crop Physiology. LSU AgCenter, Baton Rouge, LA, 70803.

Susceptibility of two cohorts of sweetpotato weevils to selected insecticides. T. Smith¹ and A. Hammond². ¹LSU AgCenter Sweet Potato Research Station, Chase, LA 71324; ²LSU AgCenter Department of Entomology, Baton Rouge, LA 70803.

Response of sweetpotato genotypes to several isolates of southern root-knot nematode. Judy A. Thies^{1*}, Howard H. Harrison¹, and Don LaBonte². ¹U.S. Vegetable Laboratory, USDA, ARS, Charleston, SC; ²Department of Horticulture, Louisiana State University AgCenter, Baton Rouge, LA. (jthies@saa.ars.usda.gov)

Production, Physiology, and Plant/Seed Production

Growing 'Okinawan' sweetpotatoes in Louisiana: preliminary yield trials and initial impressions. A. Villordon¹, J.W. Franklin¹, T.P. Talbot¹, W. McLemore¹, C. Clark², M. Hoy², and D. LaBonte³. ¹LSU AgCenter Sweet Potato Research Station, Chase, LA 71324; ²LSU AgCenter Department of Plant Pathology and Crop Physiology, Baton Rouge, LA 70803; ³LSU AgCenter Department of Horticulture, Baton Rouge, LA 70803.

Post Harvest Physiology, Food Science, and Marketing Posters

Associations of in-season chrysomelid beetle density and sweetpotato damage in Mississippi sweetpotatoes. J. T. Reed, M. Williams, D. Fleming, and C. Jackson. Department of Entomology and Plant Pathology, MSU, Mississippi State, MS 39762.

Commercial sweetpotato varieties in California and potential fit of L-01-29. C. Stoddard and D. LaBonte. UC Cooperative Extension, Merced, CA 95340; LSU Dept. of Horticulture, 137 J.C. Miller Hall, Baton Rouge, LA 70803.

Regenerating Virus-free Materials for USDA Heirloom Sweetpotato Cultivar Collection through the Meristem Shoot-tip Culture Technology. Kai-Shu Ling¹, Mary Hoy², Janice Bohac¹, D. Michael Jackson¹, and Christopher A. Clark². ¹USDA, ARS, U.S. Vegetable Laboratory, 2700 Savannah Highway, Charleston, SC, ²Dept. Plant Pathology & Crop Physiology, Louisiana State University, Baton Rouge, LA.

Starch biosynthesis and genetic modifications of starch in Sweetpotato (*Ipomoea batatas* L.) storage roots. William, A. Akwe, Glory, M. Ashu, Lakeisha Stewart, Celestine Fosung, Adeline Douanla, Qun Xia, Janice Bohac¹, Victor Njiti, Samuel Besong, Sandra Barnes, Zhibiao Gou, Shoucheng Zhang, and Ming Gao* Center for Biotechnology and Genomics, Alcorn State University, MS 39096, 1US Vegetable Lab, Charleston, SC

2006 Sweet Potato Trial in the Mississippi Delta. L. Adams and C. Abel. USDA, ARS, SIMRU, Stoneville, MS.

Vigna Crop Germplasm Committee

Presiding: Richard Fery (rlfery@saa.ars.usda.gov)
Sunday: 9:00 am – 12:00 pm
Room: Riverview, Mobile Ball Room I

Agenda

1. Sign-in and call to order
2. Minutes of the 2006 meeting
3. *Vigna* germplasm curator's report
4. USDA funding for germplasm evaluation
5. Priority evaluation needs for cowpea germplasm
6. Priority enhancement needs for cowpea germplasm
7. Plant exploration and exchange proposals
8. Update from CGC facilitator's office
9. *Vigna* CGC membership
10. Plans for 2008 meeting

Southern Region Small Fruit Consortium

Presiding: Thomas Monaco (tom_monaco@ncsu.edu)
Sunday: 8:00 am – 12:00 pm
Room: Riverview, Blakeley I

Agenda

1. Steering Committee Members
2. Minutes of 2006 Annual Meeting
3. 2006-07 Budget
4. 2006 Research and Outreach Reports
5. Research and Outreach Proposals
6. Web Site Activity
7. SRSFC Activities
8. 2006-07 County Agent Training
9. Research and Extension Proposal Guidelines
10. Steering Committee Members Responsibilities
11. Other Issues

Pecan Research and Extension Forum

Presiding: Monte Nesbitt (nesbiml@auburn.edu)
Saturday: 8:00 am – 5:00 pm
Room: Riverview, Mobile Ball Room I

Agenda

1. Review of personnel movement by state.
2. Review of state acreage expansion/decline and associated changes in research/extension efforts.
3. Pecan cultivar testing, development and recommendations; review of impending releases.
4. Pecan grafting update; new materials and methods.
5. Tree nutrition research and current findings.
6. Pecan orchard economics 101: yield expectations for progressive orchards.

Instructions for Submission of Abstracts for Publication in *HortScience*

To Publish Your Abstract in *HortScience*:

- 1) One of the authors must be an active member (dues paid) of the Southern Region ASHS
- 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) By February 15: Email abstracts as an attached file to the Chair of the session. 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.