

# PROGRAM



**71st ANNUAL MEETING**

**Southern Region**

of the

**American Society for Horticultural Science**

**February 5-7, 2011**

**Corpus Christi, TX**

## Southern Region ASHS

The Southern Region ASHS is a regional scientific society of the American Society for Horticultural Science. The Southern Region encompasses the 14 southern states of Texas, Louisiana, Oklahoma, Arkansas, Mississippi, Georgia, Alabama, Florida, South Carolina, North Carolina, Virginia, West Virginia, Kentucky and Tennessee. Membership varies over the years from about 300 to 500 active members. Membership is composed of research scientists, teachers and extension specialists from Universities, State, Federal and private research organizations, and industry. The Southern Region also contains a student section, the Association of Collegiate Branches, which is composed of student clubs from departments of horticulture and plant science across the region. The main focus of the Southern Region is the Annual Meeting, which is held every February in conjunction with the Southern Association of Agricultural Scientists (SAAS). The Annual Meeting consist of presentations of scientific papers, student paper competitions and judging contest, commodity group meetings, and awards presentations.

### Goals:

- **Encourage and facilitate the mutual exchange of ideas and information concerning horticultural research, extension, education, and industry in the south**
- **Promote stronger bonds among horticulturists in the southern regions**
- **Encourage participation in the international society of the American Society for Horticultural Science**
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**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

**Mike Arnold**

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### Web Site

**srashs.org**

**Visit It**

**PROGRAM**  
**71st ANNUAL MEETING**  
**Southern Region**  
**American Society for Horticultural Science**  
**Corpus Christi, TX**  
**February 5-7, 2011**

**SPECIAL EVENTS AND SESSIONS**

**SATURDAY, February 5, 2011**

<b>7:00 am - 6:00 pm</b>	<b>Registration</b> Presiding: Dave Reed Room: Bayfront Hotel Lobby
<b>9:00 am - 11:00 pm</b>	<b>Certified Horticulturist Workshop</b> Presiding: Fred Davies Room: Bayfront Laguna Madre
<b>1:00 pm - 5:00 pm</b>	<b>Certified Horticulturist Examination</b> Presiding: Fred Davies Room: Bayfront Laguna Madre
<b>8:00 am - 5:00 pm</b>	<b>Pecan Research and Extension Forum</b> Presiding: Monty Nesbitt Room: Bayfront Copano
<b>8:00 am - 5:00 pm</b>	<b>Southern Blueberry/Small Fruit Workers</b> Presiding: Elena Garcia Room: Bayfront Matagorda
<b>10:00 am - 11:30 am</b>	<b>ACB Program, Share Club Activities and Refreshments</b> Presiding: Chris von Kohn, ACB President Room: Bayfront Nueces Ballroom A
<b>12:00 noon - 5:00 pm</b>	<b>ACB Group Lunch and/or Tour</b> Presiding: Chris von Kohn, ACB President Room: Bayfront Nueces Ballroom A or TBA
<b>1:00 pm - 5:00 pm</b>	<b>Horticulture Administrators</b> Presiding: Doug Bailey Room: Bayfront Partnership Boardroom
<b>6:00 pm - until</b>	<b>ACB Reception and Mixer</b> Presiding: Chris von Kohn, ACB President Room: Bayfront Nueces Ballroom A or TBA
<b>5:00 pm - 6:00 pm</b>	<b>Executive Committee Meeting</b> Presiding: Cynthia McKenney, Chair, Executive Committee Room: Bayfront Partnership Boardroom

**SUNDAY, FEBRUARY 6, 2011**

- 7:00 am - 6:00 pm Registration**  
 Presiding: Dave Reed  
 Room: AmBank Level 1 Foyer
- 8:00 am - 12:00 pm Set up Posters**  
 Presiding: Jay Spiers  
 Room: AmBank Level 1 Foyer
- 8:00 am - 12:00 noon J. Benton Storey Horticulture Judging Contest Setup**  
 Presiding: Leo Lombardini, ACB Advisor  
 Aaron Griffith, ACB Vice President  
 Room: AmBank room 225A/B
- 8:00 am - 11:00 am Extension Section**  
 Presiding: Tim Coolong  
 Room: AmBank room 105
- 8:00 am - 12:00 pm Watermelon Research Group**  
 Presiding: Richard Hassel  
 Room: AmBank room 107
- 8:00 am - 9:30 am J. B. Edmond Undergraduate Student Paper Competition**  
 Presiding: Chris von Kohn, ACB President  
 Mike Arnold, SR-ASHS President  
 David Lockwood, Section Chair & Judging Coordinator  
 Room: AmBank room 104
- 9:00 am - 12:00 noon Vigna Crop Germplasm Committee**  
 Presiding: Richard Fery  
 Room: AmBank room 106
- 10:00 am - 12:00 pm Norman F. Childers M.S. Student Paper Competition**  
 Presiding: Brian Kahn, President Elect  
 Room: AmBank room 104
- 12:00 noon - 5:00 pm Poster Session Viewing**  
 Room: AmBank Level 1 Foyer
- 1:00 pm - 5:00 pm National Cowpea Improvement Association**  
 Presiding: John Trachta  
 Room: AmBank room 106
- 1:00 pm - 5:00 pm J. Benton Storey Horticulture Judging Contest**  
 Presiding: Leo Lombardini, ACB Advisor  
 Aaron Griffith, ACB Vice President  
 Room: AmBank room 225A/B
- 1:00 pm - 3:00 pm Warren S. Barham Ph.D. Student Paper Competition**  
 Presiding: Brian Kahn, President Elect  
 Room: AmBank room 104
- 1:00 pm - 4:00 pm Poster Session - Authors and Students in Competition at Posters**  
 1:00 pm - 2:30 pm even numbered posters  
 2:30 pm - 4:00 pm odd numbered posters  
 Room: AmBank Level 1 Foyer
- 1:00 pm - 3:00 pm Vegetable Crops Section**  
 Presiding: Richard Hassell  
 Room: AmBank room 107

**3:00 pm - 5:00 pm**      **Education Section**  
 Presiding:    David Berle  
 Room:         AmBank room 105

### **SAAS Program**

**4:00 pm - 6:00 pm**      **SAAS Opening Session and Business Meeting**  
 Presiding:    Mark Hussey, President SAAS  
 Room:         Bayfront Nueces Ballroom A

**6:00 pm**                 **SAAS Super Bowl Party and Reception**  
 Location:      Brewster Street Icehouse

## **MONDAY, FEBRUARY 7, 2011**

**7:00 am - 10:30 am**      **Registration**  
 Presiding:    Dave Reed  
 Room:         AmBank Level 1 Foyer

**8:00 am - 10:30 pm**      **Poster Session Viewing**  
 Room:         AmBank Level 1 Foyer

**8:00 am - 10:30 am**      **Vegetable Crops Section**  
 Presiding:    Richard Hassell  
 Room:         AmBank room 106

**8:00 am - 10:30 am**      **Fruit Crops Section**  
 Presiding:    Niels Maness  
 Room:         AmBank room 107

**8:00 am - 10:30 am**      **Floriculture, Ornamentals and Turf Section**  
 Presiding:    Raul Cabrera  
 Room:         AmBank room 105

**8:00 am - 10:30 am**      **Postharvest/Biotechnology/Plant Biology Section**  
 Presiding:    Amnon Levi  
 Room:         AmBank room 104

**9:00 am - 10:30am**      **ACB Business Meeting**  
 Presiding:    Chris von Kohn, ACB President  
 Room:         AmBank Bayview C

**11:00 am - 12:30 pm**      **Annual Business Meeting and Award Program**  
 Presiding:    Mike Arnold, President  
 Room:         AmBank Bayview C

**1:00 pm - 3:00 pm**         **Vegetable Crops Section**  
 Presiding:    Richard Hassell  
 Room:         AmBank room 106

**1:00 pm - 3:00 pm**         **Fruit Crops Section**  
 Presiding:    Niels Maness  
 Room:         AmBank room 107

**1:00 pm - 4:00 pm**         **Poster Session Take Down**

## SECTION TITLES

**SUNDAY, FEBRUARY 6, 2011**

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

**Room:** AmBank Room 104

**Presiding:** Chris von Kohn, President, ACB  
Mike Arnold, President, SRASHS  
David Lockwood, 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: (dlockwood@utk.edu)

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

**Increasing Sweet Potato Transplanting Efficiency by Creating a Way to Mechanize the Process,** Brian Ward\*, D. LaBonte, E. Bush. School of Plant, Environmental and Soil Sciences, Louisiana State University, Louisiana State University AgCenter, Baton Rouge, Louisiana. (dlabonte@agcenter.lsu.edu)

**Alternative Propagation Media for Ornamental Crops.** Mark Wilson and Edward Bush, LSU AgCenter-SPESS, 137 J.C. Miller Hall Baton Rouge, LA 70803. (ebush@agctr.lsu.edu)

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

**Room:** AmBank Room 104

**Presiding:** Brian Kahn, 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: (brian.kahn@okstate.edu)

**10:00 am – 12:00 pm Order of presentations determined by drawing at beginning of contest.**

**Differential Protein Expression of Drought Stressed Tall Fescue (*Festuca arundinacea* Schreb.).** Xiaowei Pan\*, Justin Quetone Moss, Kemin Su, and Yichen Liu, Department of Horticulture and Landscape Architecture, Oklahoma

State University, Stillwater, OK 74078. (natalie.pan@okstate.edu)

**Effect of Paclobutrazol, Uniconazole, or Flurprimidol Applied as a Substrate Drench or by Subirrigation on Growth of Monarda.** Rachael Pepin\* and Janet C. Cole, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078-6027. (rramon@okstate.edu)

**Effects of Organic Fertilizers on *Chrysanthemum nankingense*.** Yan Zhao\* and Mengmeng Gu, 32 Creelman Street, Department of Plant and Soil Science, Mississippi State University, Starkville, MS 39762. (yz218@msstate.edu)

**Influence of Induced Polyploidy on Fertility and Morphology of *Rudbeckia* Species and Hybrids.** Kelly Oates\*, Thomas G. Ranney, and Darren H. Touchell, Department of Horticulture Science, North Carolina State University, Mills River, NC 28759. (kmoates@ncsu.edu)

**Orchard Design Influences Satsuma Mandarin Production.** Michael R. Harrison<sup>1\*</sup>, Jay D. Spiers<sup>1</sup>, Elina Coneva<sup>1</sup>, William Dozier<sup>1</sup>, Floyd M. Woods<sup>1</sup>, and David A. Burnie<sup>2</sup>, <sup>1</sup>Department of Horticulture, Auburn University, 101 Funchess Hall, Auburn, AL 36849, <sup>2</sup>Gulf Coast Research and Extension Center, Fairhope, AL 36532. (harrimr@auburn.edu)

**The Effect of Aluminum Stress on Root Exudation of Bermudagrass [*Cynodon dactylon* (L.) Pers.].** Yang Tian<sup>1\*</sup>, Justin Q. Moss<sup>1</sup>, Bruce L. Dunn<sup>1</sup>, Shiping Deng<sup>2</sup>, and Greg E. Bell<sup>1</sup>, <sup>1</sup>Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078, <sup>2</sup>Department of Plant and Soil Sciences, Oklahoma State University, Stillwater, OK 74078. (yang.tian@okstate.edu)

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

**Room:** AmBank Room 104

**Presiding:** Brian Kahn, 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: (brian.kahn@okstate.edu)

**1:00 pm – 3:00 pm Order of presentations determined by drawing at beginning of contest.**

**An Assessment of Texas AgriLife Extension's Need for Information on Organic Agriculture.** Patrick T. Lillard<sup>1\*</sup>, James R. Lindner<sup>2</sup>, and Joseph G. Masabni<sup>1</sup>, <sup>1</sup>225 Horticulture/Forest Science Building, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2134, <sup>2</sup>226 Scoates Hall, Department of Agricultural Leadership, Education, and Communications, Texas A&M University, College Station, TX 77843-2116. (ptlillard@ag.tamu.edu)

**Anthocyanins, Phenolics, and Antioxidant Capacity of *Vaccinium L.* in Texas, USA.** Lijing Zhou<sup>1\*</sup>, David Creech<sup>1</sup>, Wei Yuan<sup>2</sup>, Guangrui Deng<sup>2</sup>, Ping Wang<sup>2</sup>, and Shiyu Li<sup>2\*</sup>, <sup>1</sup>SFA Gardens, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, TX 75962, <sup>2</sup>National Center for Pharmaceutical Crops, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, TX 75962. (zhoul@titan.sfasu.edu)

**Enhancing Plant Tolerance to Drought through the Use of Selected Fungicides.** Diana R. Cochran\* and Richard L. Harkess, 117 Dorman Hall, Mississippi State University, Mississippi State, Mississippi 39762. (dc849@pss.msstate.edu)

**Evaluation of Salinity on Citrus and Watermelon Rootstock Seed Germination.** C.R. Simpson<sup>1\*</sup>, S.D. Nelson<sup>1</sup>, S. Cornell<sup>1</sup>, G. Schuster<sup>1</sup> and M. Setamou<sup>2</sup>. <sup>1</sup>Texas A&M University-Kingsville, MSC 228, Kingsville, TX 78363, <sup>2</sup>Texas A&M University-Kingsville Citrus Center, 315 N. International Blvd., Weslaco, TX 78596. (kucrs002@tamuk.edu)

## EXTENSION SECTION

**Room:** AmBank Room 105

**Presiding:** Timothy Coolong

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

**8:00 Large-scale Nethouse for Vegetable Production, Year 1: Pest Management Successes and Challenges.** Ayanava Majumdar<sup>1\*</sup> and M. Powell<sup>2</sup>, <sup>1</sup>Gulf Coast Research and Extension Center, 8300 State Hwy 104, Fairhope, AL 36532, <sup>2</sup>American Farm Systems, 13840 County Road 51, Jemison, AL 35085. (bugdoctor@auburn.edu)

**8:15 A low cost high tunnel demonstration**

**program in Kentucky** Timothy Coolong\* and Darrell Slone, N-318 Ag. Sciences North, Department of Horticulture, University of Kentucky, Lexington, KY 40546-0091 (timcoolong@uky.edu)

**8:30 Small Acreage Horticultural Crops: A Webinar-Based Model Plan.** Joseph G. Masabni\*, 225 Horticulture/Forest Science Building, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2134. (jmasabni@ag.tamu.edu)

**8:45 Helping Growers Understand the New Fumigant Management Plans** Mary Lamberts\*, UF Miami-Dade County Extension, 18710 SW 288th Street, Homestead, FL 33030-2309 (lamberts@ufl.edu)

**9:00 Break**

**9:15 Rolling the dice: Risk management education for specialty cut flower growers.** James Robbins<sup>1\*</sup>, Ron Rainey<sup>1</sup>, Mengmeng Gu<sup>2</sup>, and Allen Owings<sup>3</sup>, <sup>1</sup>Univ. of Ark. CES, 2301 S. University Ave., Little Rock, AR 72204; <sup>2</sup>PSS, Miss. State Univ., Box 9555 Mississippi State, MS 39762; <sup>3</sup>Louisiana State Univ., Hammond Research Station, 21549 Old Covington Highway, Hammond, LA 70403 (jrobbins@uaex.edu)

**9:30 eViticulture.org: A National Grape Community of Practice** Eric T. Stafne<sup>1\*</sup>, Lane Greer<sup>1</sup>, Ed Hellman<sup>2</sup>, R. Keith Striegler<sup>3</sup>, and Kathleen Kelsey<sup>4</sup>, <sup>1</sup>358 Agricultural Hall, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078, <sup>2</sup>Texas AgriLife Extension Service Agricultural Research and Extension Center, 1102 E. FM 1294 Lubbock, TX 79403-6603, <sup>3</sup>Institute 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, <sup>4</sup>Agricultural Education, Communications, & Leadership, Oklahoma State University, 466 Agricultural Hall, Stillwater, OK 74078. (eric.t.stafne@okstate.edu)

**9:45 Using Facebook to Provide Clientele ornicultural Information.** Allen Owings\*, LSU AgCenter, Hammond Research Station,

21549 Old Covington Hwy, Hammond, LA  
70403. (aowings@agcenter.lsu.edu)

- 10:00 First Year Experience as a Horticulture Agent: Working with McCracken Co. KY Master Gardeners.** Kathryn Wimberly\*  
McCracken County Cooperative Extension,  
2705 Olivet Church Road, Paducah, KY  
42001-9755 (kathryn.wimberley@uky.edu)

## EDUCATION SECTION

**Room: AmBank Room 105**

**Presiding: David Berle**

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

- 3:00 What makes Retention Possible?** Marihelen Glass, Department of Natural Resources and Environmental Design, North Carolina A&T State University, Greensboro, NC 27411 (glassm@ncat.edu)

- 3:15 Engaging Underserved Undergraduate Student Populations through Experiential Learning for Careers in the Horticultural Sciences.** S.D. Nelson<sup>1</sup> and M. Setamou<sup>2</sup>.  
<sup>1</sup>Texas A&M University-Kingsville, MSC 228, Kingsville, TX 78363; <sup>2</sup>Texas A&M University-Kingsville Citrus Center, 315 N. International Blvd., Weslaco, TX 78596 (kfsdn00@tamuk.edu)

- 3:30 Cultivating global leaders in agriculture: A successful attempt to create international learning experiences for students in agriculture.** Leonardo Lombardini<sup>1\*</sup> and Gary J. Wingenbach<sup>2</sup>. <sup>1</sup>Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843, <sup>2</sup>Department of Agricultural Leadership, Education, and Communications, Texas A&M University, College Station, TX 77843. (lombardini@tamu.edu)

- 3:45 Horticulture education abroad: a study in contrasts.** Mengmeng Gu<sup>1\*</sup>, James R. Robbins<sup>2</sup>, and Curt Rom<sup>3</sup>, <sup>1</sup>BOX 9555, Department of Plant and Sciences, Mississippi State University, MS State, MS 39762, <sup>2</sup>PO BOX 391, University of Arkansas-CES, Little Rock, AR 72703, <sup>3</sup>316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701.

(mgu@pss.msstate.edu)

- 4:00 International field experience: an effective approach to enhancing organic agriculture curriculum.** Xin Zhao<sup>1\*</sup>, Carlene A. Chase<sup>1</sup>, Marilyn E. Swisher<sup>2</sup>, Teresa Briz<sup>3</sup>, and Maria Asunción Molina<sup>4</sup>, <sup>1</sup>Horticultural Sciences Department, <sup>2</sup>Department of Family, Youth and Community Sciences, University of Florida, Gainesville, FL 32611, <sup>3</sup>Agricultural Economics Department, <sup>4</sup>Department of Chemistry and Agricultural Analysis, Polytechnic University of Madrid, Madrid 28040, Spain. (zxin@ufl.edu)

- 4:15 Feedback and evaluation of service learning projects in horticulture.** David Berle. Horticulture Department, University of Georgia, Athens, GA 30602. (dberle@uga.edu)

## VEGETABLE CROPS SECTION

**Room: AmBank Room 107**

**Presiding: Richard Hassell**

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

### Solanaceous Crops

- 1:00 Spray Application of Abscisic Acid Phytohormone Can Improve Drought Tolerance and Potentially Provide Short-Term Growth Inhibition in Tomato (*Solanum lycopersicum* L.) Transplants.** Craig A. Campbell and J. A. Bergh. Valent BioSciences Corp., Ocoee, FL, 34761-3720. (craig.campbell@valentbiosciences.com)

- 1:15 Evaluation of New Experimental Tomato Hybrids from the Texas A&M Vegetable Improvement Center.** Kevin Crosby, Associate Professor, Texas A&M University Vegetable and Fruit Improvement Center, 1500 Research Parkway Ste 120, College Station, TX 77845. (kcrosby@ag.tamu.edu)

- 1:30 Effects of the Soil Surfactant IrrigAid Gold<sup>®</sup> on Nutrition and Water Management for Tomato Production in Florida Spodosols** Bielinski M. Santos\*, Gulf Coast Research and Education Center, IFAS, University of Florida, 14625 CR 672, Wimauma, FL 33598. (bmsantos@ufl.edu).



- 1:45 Rootstock Effect on Root-knot Nematode Resistance in Tomato** Xin Zhao\*<sup>1</sup>, Christine E. Johns<sup>1</sup>, and Robert McSorley<sup>2</sup>, <sup>1</sup>Horticultural Sciences Department, <sup>2</sup>Entomology and Nematology Department, University of Florida, Gainesville, FL 32611. (zxin@ufl.edu)
- 2:00 Effect of Deficit Irrigation and Pruning on Grafted Tomato Plants** Theodore McAvoy<sup>1</sup> and Joshua H. Freeman<sup>1</sup>\*. <sup>1</sup>Department of Horticulture, Virginia Tech – Eastern Shore AREC, 33446 Research Drive, Painter, VA 23420. (joshfree@vt.edu)
- 2:15 Performance of Grafted Heirloom Tomatoes on Beaufort, Celebrity, and Maxifort Rootstocks** Joseph G. Masabni, Astrid Volder, Patrick T. Lillard, and Stephen R. King, 225 Horticulture/Forest Science Building, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2134. (jmasabni@ag.tamu.edu)

## POSTERS

- Room:** AmBank Level 1 Foyer  
**Presiding:** Jay Spiers  
**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: (jds0017@auburn.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 - 2:30 pm even numbered posters  
 Sunday, 2:30 - 4:00 pm odd numbered posters  
**Students in Competition at Poster:**  
 Sunday, 1:00 - 2:30 pm even numbered posters  
 Sunday, 2:30 - 4:00 pm odd numbered posters  
**Take-down:** Monday, 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 poster at the appointed time listed above.

### Education

- 1U) Science-Based Experiential Learning in the Greenhouse for Special Needs Students:**

**Linking Secondary and Higher Education Institutions.** D.C. Messick<sup>1</sup>\*, T. Coffey<sup>2</sup>, and N.C. Phillips<sup>1</sup>, <sup>1</sup>School of Agribusiness and Agriscience, Middle Tennessee State University, Murfreesboro, TN 37132; <sup>2</sup>Oakland High School, Murfreesboro, TN 37130. (dcm3r@mtmail.mtsu.edu)

### Floriculture, Ornamentals and Turf

- 2U) Influence of Spacing on Production for Two Sorrel (*Hibiscus sabdariffa*) Varieties**, Khalid Matthew\*, Charkym Philemon and Thomas W. Zimmerman, University of the Virgin Islands Agricultural Experiment Station, RR#1 Box 10,000, Kingshill, VI 00850. (tzimmer@uvi.edu)
- 3U) Seed Source Location and Captan Influence Germination Behavior in *Rhododendron calendulaceum***, E.J. Limbird\*, N.C. Phillips, and J.R. Jones, Middle Tennessee State University, Murfreesboro, TN 37132. (ejl2t@mtmail.mtsu.edu)
- 4G) Efficacy of Biofungicides for Control of Pythium Root Rot in Poinsettia (*Euphorbia pulcherrima* Wild. ex Klotzsch)**. Yan Zhao<sup>1</sup>\*, Maria Tomaso-Peterson<sup>2</sup> and Mengmeng Gu<sup>1</sup>, <sup>1</sup>32 Creelman Street, Department of Plant and Soil Science, Mississippi State University, Starkville, MS 39762, <sup>2</sup>32 Creelman Street, Department of Entomology and Plant Pathology, Mississippi State University, Starkville, Ms 39762. (yz218@msstate.edu)
- 5G) Assessing Variation in Vegetative and Floral Morphology of Four Native Gulf Coast Species for Use as Ornamental Groundcovers**, Sean T. Carver<sup>1</sup>\*, Michael A. Arnold<sup>1</sup>, David H. Byrne<sup>1</sup>, Anna R. Armitage<sup>2</sup>, and Andrew R. King<sup>1</sup>, <sup>1</sup>Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133, <sup>2</sup>Department of Marine Biology, Texas A&M University, Galveston, TX 77551. (scarver@neo.tamu.edu)
- 6G) Evening Primrose Yield Response to Harvest Aids.** Amber Bates\*, Cynthia McKenney, and Steve Oswalt. Department of Plant and Soil Science, Texas Tech University, Lubbock, Texas, U.S.A. 79409-2122. (amber.n.bonds@ttu.edu)
- 7G) The Effects of Irrigation Treatments on Stomatal Conductance in *Olea europaea* L.**, Kaylee Decker\*, Cynthia McKenney, and Thayne Montague, Department of Plant and

Soil Science, Texas Tech University, Lubbock, Texas, U.S.A. 79409-2122. (kaylee.whitehurst@ttu.edu)

- 8G) Water Use of Three Viburnum Species Grown Under Three Shade Intensities**, Arjina Shrestha\* and Janet C. Cole, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078-6027 (arjina.shrestha@okstate.edu)
- 9) Effects of Organic Rooting Treatments on Spring and late Summer Cuttings of *Vaccinium darrowii* ‘Native Blue’ Blueberry**. C. Melea Martin, Michael A. Maurer\*, and David Creech, Department of Agriculture, Stephen F. Austin State University, P.O. Box 13000, SFA Station, Nacogdoches, TX 75962. (melea\_martin@hotmail.com)
- 10) Comparison of Organic and Inorganic Fertilizers on the Growth and Development of Containerized *Rosa hybrida* ‘Radtko’ and *Hibiscus rosa-sinensis* ‘Evangeline’**, C. Melea Martin and Michael A. Maurer\*. Department of Agriculture, Stephen F. Austin State University, P.O. Box 13000, SFA Station, Nacogdoches, TX 75962. (melea\_martin@hotmail.com)
- 11) Slippery When Wet: Monitoring Insect Populations in the Nursery**, Christopher Werle and Blair Sampson, United States Department of Agriculture-Agricultural Research Service, Thad Cochran Southern Horticultural Laboratory, 810 Hwy 26 West, Poplarville, MS 39470. (chris.werle@ars.usda.gov)
- 12) Poinsettia Crop Production as a Multi-Course Teaching Tool**, W.A. Anderson and N.C. Phillips\*, School of Agribusiness and Agriscience, Middle Tennessee State University, Murfreesboro, TN 37132. (wanderso@mtsu.edu)
- Fruit Crops**
- 13G) Evaluating the Effects of Nitrogen Fertilization Rates on Growth and Gas Exchange in Young Pecan Seedlings**, Hayley Hannah\*, Astrid Volder, and Leonardo Lombardini. Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133. (hhannah@tamu.edu)
- 14G) Effects of Variable Irrigation Regimes on Containerized Olives**, Vikram Baliga\*, Thayne Montague, and Cynthia Mckenney, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409-2122. (vikram.baliga@ttu.edu)
- 15U) Impact of Plant Available Calcium to Reduce Asian Citrus Psyllid Survival in ‘Rio Red’ Grapefruit**. M. Esparza<sup>1\*</sup>, J. Raygoza<sup>2</sup>, M. Setamou<sup>2</sup>, and S.D. Nelson<sup>1</sup>, <sup>1</sup>Texas A&M University-Kingsville, MSC 228, Kingsville, TX 78363; <sup>2</sup>Texas A&M University-Kingsville Citrus Center, 315 N. International Blvd., Weslaco, TX 78596. (oceanandsun33@aol.com)
- 16) Fruit Quality Characteristics of Selected Hybrid Bunch Grape Cultivars**, Elina D. Coneva<sup>1\*</sup>, Edgar Vinson<sup>1</sup>, and Jim Pitts<sup>2</sup>, <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL, 36849, <sup>2</sup>Chilton Research and Extension Center, 120 County Road 756, Clanton, AL, 35045. (edc0001@auburn.edu)
- 17) Antioxidant Properties of Selected Rabbiteye Blueberry as Affected by Cultivar and Environment**, F. M. Woods<sup>1\*</sup>, E. Coneva<sup>1</sup>, K. Shetty<sup>2</sup>, D. Sarkar<sup>2</sup>, A. Gebrekidan<sup>3</sup>, A. Caylor<sup>4</sup>, D.M. Sullen<sup>1</sup>, and B.D. Blasius<sup>1</sup>. <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, <sup>2</sup>100 Holdsworth Way, Department of Food Science, University of Massachusetts, Amherst, Massachusetts, <sup>3</sup>221 Parker Hall, Mathematics and Statistics, Auburn, University, 36849, <sup>4</sup>Alabama Agriculture Experiment Station, 765 County Rd. 1466, Cullman, AL 35055. (woodsfm@auburn.edu).
- 18) Yield and Fruit Quality Characteristics of Selected Muscadine Grape Cultivars**, Elina D. Coneva<sup>1\*</sup>, Edgar Vinson<sup>1</sup>, and Jason Burkett<sup>2</sup>, <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL, 36849, <sup>2</sup>E. V. Smith Research Center, 4725 County Road 40, Shorter, AL, 36075. (edc0001@auburn.edu)
- 19) The Efficacy of Flower Bud Removal Techniques for Enhanced Growth of Young Blueberry Cultivars**, Jay D. Spiers<sup>1\*</sup>, Elina Coneva<sup>1</sup>, Robert Boozer<sup>2</sup>, Bryan Wilkins<sup>1</sup>, and Jessica Bowerman<sup>1</sup>, <sup>1</sup>Department of Horticulture, Auburn University, AL 36849, <sup>2</sup>Chilton Research and Extension Center, Clanton, AL, 35045. (jds0017@auburn.edu)

- 20) **Evaluation of Rootstocks for 'Owari' Satsuma Production in South Alabama.** D. Alan Burnie<sup>1\*</sup>, Jay D. Spiers<sup>2</sup>, Monte Nesbitt<sup>3</sup>, Floyd Woods<sup>2</sup>, and Bryan Wilkins<sup>2</sup>, <sup>1</sup>Gulf Coast Research and Extension Center, Fairhope, AL 36532, <sup>2</sup>Department of Horticulture, Auburn University, AL 36849, <sup>3</sup>Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843. (burnida@auburn.edu)
- 21) **Postharvest Storage Life of 'Golden Dragon' Kiwifruit (*Actinidia chinensis*).** Jason Stroman, Jay D. Spiers\*, William Dozier, Floyd Woods, Elina Coneva, and Bryan Wilkins, Department of Horticulture, Auburn University, AL 36849 (jds0017@auburn.edu)
- 22) **Vegetation-free Area Surrounding Pecan Trees Affects Production.** Michael W. Smith\*, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (mike.smith@okstate.edu)
- 23) **Phosphorus and Potassium Shortage Affects Pecan Production and Fruit Quality.** Michael W. Smith, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (mike.smith@okstate.edu)
- 24) **Growing Blueberry Knowledge via Social Networks.** A. Denise Attaway\*<sup>1</sup>, Natalie A. Hummel<sup>1</sup> and Krisanna Machtmes<sup>2</sup>, <sup>1</sup>404 Life Sciences Bldg., Department of Entomology, LSU AgCenter, Baton Rouge, LA 70803, <sup>2</sup>223 Knapp Hall, Organization Development and Evaluation, LSU AgCenter, Baton Rouge, LA 70803. (dattaway@agcenter.lsu.edu)
- 25) **Performance of Persimmon (*Diospyros kaki*) Cultivars in Southern Mississippi.** Donna A. Marshall\*, James. M. Spiers and Ned Edwards, USDA/ARS Thad Cochran Southern Horticultural Laboratory, Poplarville, MS 39470 (donna.marshall@ars.usda.gov)
- 26) **'Victoria Red' Table Grape, A New Option for Southern Grape Producers.** James N. Moore<sup>1</sup>, John R. Clark<sup>1\*</sup>, James Kamas<sup>2</sup>, Larry Stein<sup>3</sup>, Fiench Tarkington<sup>4</sup>, and Martha Tarkington<sup>4</sup>, <sup>1</sup>316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup>Texas AgriLife Extension, Fredericksburg, TX 78624, <sup>3</sup>Texas A&M Research and Extension Center, Uvalde, TX 78802, <sup>4</sup>Tarkington Vineyard, 1715 Refugio Highway, Victoria, TX 77905. (JRClark@uark.edu)
- 27) **Broad Mites, a Potential Pest in Blackberry Crops of the Southern United States.** Sandra Sleezer<sup>1\*</sup>, Chris Vincent<sup>1</sup>, John. R. Clark<sup>1</sup> and Donn T. Johnson<sup>2</sup>, <sup>1</sup>316 Plant Science, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup>319 Agriculture Building. (ssleezer@uark.edu)
- 28) **Addressing Plant and Yield Decline of Northern Highbush Blueberry Plantings in Arkansas.** M. Elena Garcia\* and Chris I. Vincent, Dept. of Horticulture, University of Arkansas, Fayetteville, AR 72701. (megarcia@uark.edu)
- 29) **Using the Plant Growth Regulator, Gibberellic Acid and also Coconut Oil to Improve Yield and Berry Quality for Zygomorphic Blueberries.** Blair Sampson, Donna Marshall, Steve Stringer, Hamidou Sakhanohko, Christopher Werle and James Spiers, USDA-ARS, Thad Cochran Southern Horticultural Laboratory, 810 Hwy 26 West, Poplarville, MS 39470. (blair.sampson@ars.usda.gov)
- 30) **Evaluation of Compost Management in Citrus for Improved Crop Sustainability.** S.D. Nelson<sup>1\*</sup>, M. Young<sup>2</sup>, M. Setamou<sup>3</sup>, X. Peries<sup>4</sup>, and J. Enciso. <sup>1</sup>Texas A&M University-Kingsville, MSC 228, Kingsville, TX 78363; <sup>2</sup>Texas Agrilife Extension Center, 10345 State Hwy 44, Corpus Christi, TX 78406-1412; <sup>3</sup>Texas A&M University-Kingsville Citrus Center, 312 N. International Blvd., Weslaco, TX 78596; <sup>4</sup>Texas Agrilife Research and Extension Center, 2401 E. Hwy 83, Weslaco, TX 78956-8398. (Shad.Nelson@tamuk.edu)

### Vegetable Crops

- 31G) **Grafting Heirloom Tomatoes for Improved Crop Vigor, Yield, and Fruit Quality.** Charles Barrett<sup>1\*</sup>, Xin Zhao<sup>1</sup>, Robert McSorley<sup>2</sup>, and Charles A. Sims<sup>3</sup>. <sup>1</sup>Horticultural Sciences Department, 1301 Fifield Hall, <sup>2</sup>Entomology and Nematology Department, Bldg. 970 Natural Area Drive, <sup>3</sup>Food Science and Human Nutrition, 359 FSHN Building, University of Florida, Gainesville, FL 32611. (soulpole@ufl.edu)
- 32) **Field-Level Water Productivity of Deficit-Irrigated Watermelons.** John L. Jifon<sup>1\*</sup>

Daniel Leskovar, Juan Enciso; <sup>1</sup>Texas AgriLife Research and Extension Center, Weslaco, TX 78596. (jljifon@ag.tamu.edu).

- 33) **Variation in L-Citruline, Lycopene and Soluble Sugars in Fruits of Watermelon (*Citrullus lanatus*) Genotypes**, John L. Jifon<sup>1\*</sup>, Gene Lester, Wayne Fish, Juan Anciso; <sup>1</sup>Texas AgriLife Research and Extension Center, Weslaco, TX 78596. (jljifon@ag.tamu.edu).
- 34) **Impact of Transplant Method on Watermelon Yield and Quality**, Donald J. Makus, USDA-ARS, Subtropical Agricultural Research Center, Weslaco, TX 78596. (donald.makus@ars.usda.gov)
- 35) **Onion Transplant Production System for Oklahoma**. James Shrefler<sup>\*1</sup>, Merritt Taylor<sup>1</sup>, Warren Roberts<sup>1</sup> and Charles Webber III<sup>2</sup>, <sup>1</sup>Wes Watkins Agricultural Research and Extension Center, Oklahoma State University, P O Box 128, Lane, OK 74555, <sup>2</sup>Wes Watkins Agricultural Research Laboratory, United States Department of Agriculture, Agricultural Research Service, P O Box 159, Lane, OK 74555. (jim.shrefler@okstate.edu)
- 36) **High Tunnel Design: Moving a Semi-Permanent Structure**, Christine E.H. Coker<sup>\*</sup>, S.A. Langlois, R.M. Ely, and T.E. Freeman, Coastal Research and Extension Center, Mississippi State University, Biloxi, MS 39532. (ccoker@ra.msstate.edu)
- 37) **Establishing a Maturity Index for Lotus (*Nelumbo spp.*)**, R. Shevade<sup>\*1</sup>, F.M.Woods<sup>1</sup>, K.M. Tilt<sup>1</sup>, and X. Wang<sup>1</sup>. <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849. (woodsfm@auburn.edu)
- 38) **Pre-harvest Antioxidant Content as a Determinant for Lotus (*Nelumbo spp.*) Maturity**, X. Wang<sup>\*1</sup>, F.M.Woods<sup>1</sup>, K.M. Tilt<sup>1</sup>, and R. Shevade<sup>1</sup>. <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849. (woodsfm@auburn.edu)

## Monday, February 7, 2011

### POSTERS

**Room:** AmBank Level 1 Foyer

**Presiding:** Jay Spiers

**Abstracts:** To publish abstract in *HortScience*, see instructions at end of program. Submit on disk at meeting or email to Chair: (jds0017@auburn.edu)

**Poster Viewing** Monday 8:00-10:30 am

**Take-down:** Monday, after Business Meeting

### ANNUAL BUSINESS MEETING AND AWARDS PROGRAM

**Room:** AmBank Bayview C

**Time:** 11:00 – 12:30

**Presiding:** Mike Arnold, President

### VEGETABLE CROPS SECTION

**Room:** AmBank 106

**Presiding:** Richard Hassell

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

#### Morning Session

**8:00 Quantifying Ascorbic Acid, Capsaicin, and Flavonoid Levels in Various Peppers (*Capsicum spp.*) Grown in Different Texas Locations.** Justin Butcher<sup>1</sup>, Kevin Crosby<sup>1</sup>, Daniel Leskovar<sup>2</sup>, John Jifon<sup>3</sup>, Kil Sun Yoo<sup>1</sup>, and Bhimanagouda Patil<sup>1</sup>. <sup>1</sup>Vegetable and Fruit Improvement Center, Dept. of Horticultural Sciences, Texas A&M University, College Station, TX 77845, USA. <sup>1</sup>Texas Agri-Life Experiment Station, Texas A&M University, 1619 Garner Field Rd., Uvalde, TX 78801, USA. <sup>1</sup>Texas Agri-Life Experiment Station, Texas A&M University, 2415 E. Highway 83, Weslaco, TX 78596, USA. (justin13@tamu.edu)

**8:15 Weed Control in Watermelons using Reflex.** Juan Anciso, Ph.D., Associate Professor and Extension Vegetable Specialist, Department of Horticulture, 2401 East Highway 83, Weslaco, TX 78596, Texas

AgriLife Extension Service . (j-anciso@tamu.edu)

**8:30 Using Summer Cover Crops for Fall Vegetable Production.** Carl Motsenbocker<sup>1\*</sup>, William Evans<sup>2</sup>, Robert Williams<sup>1</sup>, and Andrea Morales<sup>1,3</sup>, <sup>1</sup>School of Plant, Environmental, and Soil Sciences, Louisiana State University AgCenter, 137 Julian Miller Hall, Baton Rouge, LA 70803, <sup>2</sup>Truck Crops Branch Experiment Station, MAFES, Mississippi State, MS 39059, <sup>1,3</sup>EARTH University, Guácimo, Limón, Costa Rica. (cmotsenbocker@agcenter.lsu.edu)

**8:45 Vegetable Yields in Mississippi High Tunnels: First Year Results** W.B. Evans\*, V. Cerven, G. Bi, M. Gu<sup>2</sup>, K. Hood<sup>3</sup>, and R. Little<sup>3</sup>. Mississippi Agriculture and Forestry Station, Truck Crops Branch Experimental Station, 2024 Experiment Station Rd., P.O. Box 231, Crystal Springs, MS 39059-0231, <sup>2</sup>Department Plant and Soil Sciences, 117 Dorman Hall, Mississippi State, MS 39762, <sup>3</sup>Department of Agricultural Economics, 300 Lloyd Ricks, Mississippi State, MS 39762. (wbe1@ra.msstate.edu)

#### 9:00 Break

**9:15 Early Season Production of Summer Squash (*Cucurbita pepo*) in High Tunnels** V. Cerven\*<sup>1</sup>, G. Bi<sup>1</sup>, M. Gu<sup>2</sup>, K. Hood<sup>3</sup>, R. Little<sup>3</sup>, and W.B. Evans<sup>1</sup>, <sup>1</sup>2024 Experiment Station Road, Truck Crops Branch Experiment Station, Mississippi State, MS 39059, <sup>2</sup>Department Plant and Soil Sciences, 117 Dorman Hall, Mississippi State, MS 39762, <sup>3</sup>Department of Agricultural Economics, 300 Lloyd Ricks, Mississippi State, MS 39762. (vc116@msstate.edu)

**9:30 Weed Control Options for Organically-Grown Vine Crops** James Shrefler<sup>1</sup>, Merritt Taylor<sup>1</sup> Warren Roberts<sup>1</sup> and Charles Webber III<sup>2</sup>, <sup>1</sup>Wes Watkins Agricultural Research and Extension Center, Oklahoma State University, P O Box 128, Lane, OK 74555, <sup>2</sup>Wes Watkins Agricultural Research Laboratory, United States Department of Agriculture, Agricultural Research Service, P O Box 159, Lane, OK 74555. jim.shrefler@okstate.edu

**9:45 Nitrogen Management for Snap Beans on Sandy Loam Soils in the Mid-Atlantic** Mark S. Reiter<sup>1\*</sup> and Joshua H. Freeman<sup>2</sup>. <sup>1</sup>33446 Research Drive, Department of Crop

and Soil Environmental Sciences, Virginia Tech, Painter, VA 23420, <sup>2</sup>33446 Research Drive, Horticulture Department, Virginia Tech, Painter, VA 23420. (mreiter@vt.edu)

**10:00 Tunnel Vision: A View of Tunnel Production in China** Curt Rom<sup>1</sup>, Mengmeng Gu<sup>2</sup>, James Robbins<sup>3</sup>. <sup>1</sup>Dept of Horticulture, Univ. of Ark., 316 Plant Science, Fayetteville, AR 72701, <sup>2</sup>PSS Miss. State Univ., Box 9555, Mississippi State, MS 39762, <sup>3</sup>Univ. of Ark. CES, 2301 S. Univ. Ave., Little Rock AR 72204. (crom@uark.edu)

**10:15 The Protected Agriculture Information Network for Central America and the Caribbean (PAINet): Cultural Practices for Indeterminate Bell Pepper Production in Dominican Republic, Honduras, Nicaragua, Costa Rica, and El Salvador** Emmanuel A. Torres-Quezada\*<sup>1</sup> Teresa P. Salame-Donoso<sup>1</sup>, Bielinski M. Santos<sup>1</sup>, Henner A. Obregon-Olivas<sup>2</sup>, Jessie E. Inestroza<sup>3</sup>, Maria G. Cuevas<sup>4</sup>, Marco V. Saenz<sup>5</sup>, and Mauricio Martinez<sup>6</sup>. <sup>1</sup>Gulf Coast Research and Education Center, IFAS, University of Florida, 14625 CR 672, Wimauma, FL 33598, <sup>2</sup>Agropecuaria San Antonio, Tecolostote, Nicaragua; <sup>3</sup>Corporación Dinant, Comayagua, Honduras; <sup>4</sup>Instituto Dominicano de Investigaciones Agropecuarias y Forestales, Santo Domingo, Dominican Republic; <sup>5</sup>Laboratorio de Tecnología Poscosecha, Universidad de Costa Rica, San Jose, Costa Rica; <sup>6</sup>Hidroexpo, San Salvador, El Salvador (bmsantos@ufl.edu).

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

#### Afternoon Session

**1:00 Validation of Multiple Soilless Culture Practices under Protective Structures for Vegetable and Small Fruit Production in Florida** Teresa P. Salame-Donoso\* and Bielinski M. Santos. Gulf Coast Research and Education Center, IFAS, University of Florida, 14625 CR 672, Wimauma, FL 33598. (bmsantos@ufl.edu).

**1:15 Exogenous ABA Application Impacts Seedling Height and Survival in Bell Pepper** Chris Gunter, Assistant Professor,

Vegetable Production, 230 Kilgore Hall, Box 7609, North Carolina State University, Raleigh, NC 27695-7609 (chris\_gunter@ncsu.edu)

- 1:30 Yield Performance, Quality and Antioxidant Content of Sweet Potato in Response to Photoselective Mulch and Row Covers** D. M. Sullen<sup>1\*</sup>, F.M. Woods<sup>1</sup>, A. Gebrekidan<sup>2</sup>, J. R. Kessler<sup>1</sup>, J. E. Brown<sup>1</sup>, B.D. Blasius<sup>1</sup>, and, J.E. Burkett<sup>3</sup>. <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, <sup>2</sup>221 Parker Hall, Mathematics and Statistics, Auburn University, 36849, <sup>3</sup>Alabama Agriculture Experiment Station, 4725 County Rd. 40, Shorter, AL 36075. (woodsfm@acesag.auburn.edu)
- 1:45 Soil Nitrogen, Leaf Nitrogen, and Fruit Yield in Bell Pepper (*Capsicum annum* L.) as Affected by Fertilization with Slow Release Nitrogen Fertilizer** Juan Carlos Diaz-Perez and Jesús Bautista, Department of Horticulture, University of Georgia, Tifton, GA 31793-0748. (jcdiaz@uga.edu)
- 2:00 What is Earth-Kind Vegetable Production?** Joseph G. Masabni\*, and Patrick T. Lillard, 225 Horticulture/Forest Science Building, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2134. (jmasabni@ag.tamu.edu)
- 2:15 Effects of Melon Grafting on Scion Compatibility, Yield, and Fruit Quality** Richard L. Hassell, Clemson University CREC, 2700 Savannah Highway, Charleston, SC. 29414 (rhassel@clemson.edu)
- 2:30 Evaluating the Sole Reliance on Biorational Pesticides for Pest Management on Specialty Vegetables.** Henry O-Sintim<sup>1\*</sup>, Louis E. N. Jackai<sup>1</sup> and Beatrice N. Dingha<sup>2</sup>, <sup>1</sup>Department of Natural Resource & Environmental Design North Carolina A & T State University, Greensboro, NC 27411; <sup>2</sup>Department of Family & Consumer Sciences, North Carolina A & T State University, Greensboro, NC
- 2:45 Crops Strategies for Globe Artichoke in Texas.** Daniel Leskovar, Professor, Horticulture Department, Texas A&M Agriculture Experiment Station, 1619

Garner Field Rd, Uvalde, Texas 78801 (d-leskovar@tamu.edu)

## FRUIT CROPS SECTION

**Room:** AmBank 107

**Presiding:** Niels Maness

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

### Morning Session

- 8:00 High Tunnel Production of Papaya (*Carica papaya* L.) as an Alternative Niche Crop for Southern Virginia Growers.** A. R. Rafie\* and Chris Mullins, School of Agriculture, Virginia State University, Petersburg, VA 23806. (arafie@vsu.edu)
- 8:15 Field Evaluation of Tissue culture Banana in the Northern Mariana Islands.** Dilip Nandwani, Cooperative Research, Extension and Education Services, Northern Marianas College, Saipan, Northern Mariana Islands MP 96950 (dilipnandwani@yahoo.com)
- 8:30 Water Use Efficiency and Water Savings in South Texas Grapefruit Production.** S.D. Nelson<sup>1\*</sup>, J. Enciso<sup>2</sup>, X. Peries<sup>2</sup>, and M. Young<sup>3</sup>. <sup>1</sup>Texas A&M University-Kingsville, MSC 228, Kingsville, TX 78363; <sup>2</sup>Texas Agrilife Research and Extension Center, 2401 E. Hwy 83, Weslaco, TX 78956-8398; <sup>3</sup>Texas Agrilife Extension Center, 10345 State Hwy 44, Corpus Christi, TX 78406-1412. (kfsdn00@tamuk.edu)
- 8:45 Advances on the Performance of Containerized Strawberry Transplants under Diverse Establishment Practices in Florida.** Pei-Wen Huang\*, Bielinski M. Santos, and Vance M. Whitaker. Gulf Coast Research and Education Center, IFAS, University of Florida. (bmsantos@ufl.edu)
- 9:00 Break**
- 9:15 am Using Kaolin Clay to Reduce Sprinkler Irrigation for Strawberry Transplant Establishment.** Bielinski M. Santos\*, Teresa P. Salame-Donoso<sup>1</sup>, Craig D. Stanley<sup>1</sup>, Alicia J. Whidden<sup>2</sup>, Crystal A. Snodgrass<sup>2</sup>, and Mary B. Henry<sup>2</sup>. <sup>1</sup>Gulf Coast Research and Education Center, IFAS, University of Florida; <sup>2</sup>Hillsborough, Manatee, and Polk County Cooperative Extension Service,

respectively, IFAS, University of Florida. (bmsantos@ufl.edu)

**9:30 Susceptibility of Prunus Rootstock Cultivars to Peach Tree Short Life in South Carolina.** Gregory L. Reighard\*<sup>1</sup>

<sup>1</sup>Department of Environmental Horticulture, Clemson University, Clemson, SC 29634. (grghrd@clemson.edu)

**9:45 ‘White Diamond’ Peach.** John. R. Clark\* and James N. Moore, Department of Horticulture, University of Arkansas, Fayetteville, AR, 72701. (jrclark@uark.edu)

**10:00 Blackberry Performance in a Sheltered Environment.** Robert T. Boozer and James A. Pitts, Auburn University, Chilton Research and Extension Center, 120 County Road 756, Clanton, AL 35045 (boozert@auburn.edu)

**10:15 Pruning to change time of bloom and cropping of fall-fruiting primocane blackberries.** Rom, C.R., H. Friedrich, and J. McAfee. <sup>1</sup>Department of Horticulture, PTSC 316, University of Arkansas, Fayetteville, AR 72701. ( crom@uark.edu)

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

**Afternoon Session**

**1:00 Anthocyanins, Phenolics, and Antioxidant Capacity of Vaccinium L. in Texas, USA.** Lijing Zhou<sup>1\*</sup>, David Creech<sup>1</sup>, Wei Yuan<sup>2</sup>, Guangrui Deng<sup>2</sup>, Ping Wang<sup>2</sup>, and Shiyu Li<sup>2\*</sup>, <sup>1</sup>SFA Gardens, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, TX 75962, <sup>2</sup>National Center for Pharmaceutical Crops, Arthur Temple College of Forestry and Agriculture, Stephen F. Austin State University, Nacogdoches, TX 75962. (zhoul@titan.sfasu.edu)

**1:15 Vegetative Growth Differences in Pierce’s Disease Tolerant Hybrid Grapes During the Years of Vineyard Establishment.** Elina D. Coneva<sup>1\*</sup>, Edgar Vinson<sup>1</sup>, and Joyce Ducar<sup>2</sup>, <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL, 36849, <sup>2</sup>13112 Alabama 68, Sand Mountain Research and Extension Center, Crossville, AL, 35962. (edc0001@auburn.edu)

**1:30 Influence of rootstocks on physiology of Cabernet Sauvignon grapevines grown on the Texas High Plains.** Thayne Montague\*,

Ed 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)

**1:45 An overview of the eXtension “All about Blueberries” website.** Natalie A. Hummel\*<sup>1</sup>, A. Denise Attaway<sup>1</sup>, Elina D. Coneva<sup>2</sup>, John Braswell<sup>3</sup>, William O. Cline<sup>4</sup>, Donna Marshall<sup>5</sup>, Don M. Ferrin<sup>6</sup>, Krisanna L. Machtmes<sup>7</sup>, and Heli J. Roy<sup>8</sup>. <sup>1</sup>LSU AgCenter, Dept. of Entomology, 404 Life Sciences Bldg., Baton Rouge, LA 70803; <sup>2</sup>Auburn University, Dept. of Horticulture, 101 Funchess Hall, Auburn, AL 36849; <sup>3</sup>Mississippi State University-Coastal Research and Extension Center, P.O. Box 193, Poplarville, MS 39470; <sup>4</sup>North Carolina State University, Hort Crops Res Stn, 3800 Castle Hayne Rd., Castle Hayne, NC 28429; <sup>5</sup>USDA-ARS, Southern Horticultural Laboratory, P.O. Box 287, Poplarville, MS 39470; <sup>6</sup>LSU AgCenter Dept of Plant Path. & Crop Phys., 432 Life Sciences Bldg, Baton Rouge, LA 70803; <sup>7</sup>LSU AgCenter, School of Human Resources Education and Workforce Development, 142 Old Forestry Bldg., Baton Rouge, LA 70803; <sup>8</sup>LSU AgCenter, Nutrition and Health, 275 Knapp Hall, Baton Rouge, LA 70803. (NHummel@agcenter.lsu.edu)

## FLORICULTURE, ORNAMENALS AND TURF SECTION

**Room:** AmBank 105

**Presiding:** Raul Cabrera

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

**8:00 Use of IBA and IBA+NAA Solutions for Softwood Cutting Propagation of Selected Ornamentals.** Eugene K. Blythe\*, Coastal Research and Extension Center, Mississippi State University, South Mississippi Branch Experiment Station, Poplarville, MS 39470 (blythe@pss.msstate.edu)

**8:15 The Ability of Low Dose Mefluidide and Flurprimidol to Control Sale-Year Growth**

of Acer ‘Autumn Blaze’. Matthew Chappell. Department of Horticulture, University of Georgia, 211 Hoke Smith Building, Athens, GA 30602. (hortprod@uga.edu)

- 8:30 Plant Age and Cultivar Affect Western Flower Thrips Damage on Impatiens.** Yan Chen<sup>1\*</sup>, Richard N. Story<sup>2</sup>, Roger Hinson<sup>3</sup> and Allen D. Owings<sup>1</sup>, <sup>1</sup>LSU AgCenter Hammond Research Station, 21549 Old Covington Highway, Hammond, LA 70403; <sup>2</sup>LSU AgCenter Department of Entomology, 404 Life Sciences Bldg., LSU, Baton Rouge, LA 70803 and <sup>3</sup>Department of Agricultural Economics and Agribusiness, 221 Ag. Admin. Bldg., LSU, Baton Rouge, LA 70803 (yachen@agcenter.lsu.edu)
- 8:45 Partial Rootzone Stresses and Flower Yield and Quality in Roses.** Raul I. Cabrera\*. Texas A&M AgriLife Research and Extension Center, 17360 Coit Road, Dallas, TX 75252 (r-cabrera@tamu.edu)
- 9:00 Break**
- 9:15 Salt Tolerance of Selected Bedding Plants.** Genhua Niu\* and Denise Rodriguez, Texas AgriLife Research and Extension at El Paso, 1380 A&M Circle, El Paso, TX 79927 (gniu@ag.tamu.edu)
- 9:30 Salt Tolerance of Five Wildflowers.** Genhua Niu<sup>1\*</sup>, Denise Rodriguez<sup>1</sup>, and Cynthia McKenney<sup>2</sup>, <sup>1</sup>Texas AgriLife Research and Extension at El Paso, 1380 A&M Circle, El Paso, TX 79927; <sup>2</sup>Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409 (gniu@ag.tamu.edu)
- 9:45 Lotus (*Nelumbo nucifera*) Leaf Plasticity in Response to Metalachlor Concentration.** W. Orozco-Obando<sup>1\*</sup>, F.M. Woods<sup>1</sup>, K.M. Tilt<sup>1</sup>, J.R. Kessler<sup>1</sup>, F.K. Dane<sup>1</sup>, W. Foshee<sup>1</sup>, J. Sibley<sup>1</sup>, J. Chappell<sup>2</sup>, D. Cline<sup>2</sup>, and J. Pickens<sup>1</sup>. <sup>1</sup>101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849, <sup>2</sup>125 Swingle Hall, Fisheries & Allied Aquaculture, Auburn University, AL 36849 (woodsfm@auburn.edu).
- 10:00 China: A Study in Contrasts.** James Robbins<sup>1\*</sup>, Mengmeng Gu<sup>2</sup>, and Curt Rom<sup>3</sup>. <sup>1</sup>University of Arkansas CES, 2301 S. University Ave., Little Rock, AR 72204, <sup>2</sup>Plant & Soil Sciences, Mississippi State University, Box 9555, Mississippi State, MS 39762, <sup>3</sup>University of Arkansas, 316 Plant

Science, Fayetteville, AR 72701 (jrobbins@uaex.edu)

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

## POST HARVEST/PLANT BIOTECHNOLOGY SECTION

**Room:** AmBank 104

**Presiding:** Amnon Levi

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

### Morning Session

- 8:00 Results of five years of studying the effect of curing on individual *Vidalia* sweet onions.** Ben G. Mullinix<sup>1\*</sup> and Bryan W. Maw<sup>2</sup>. <sup>1</sup>Texas A&M Univ-Lubbock, 1103 East FM 1294 Road, Lubbock TX 79403 and <sup>2</sup>University of Georgia-Tifton, P.O. Box 748, Tifton GA 31793. (bgmullinix@ag.tamu.edu)
- 8:15 Phytophthora fruit rot: an emerging problem on watermelon.** Chandrasekar S. Kousik<sup>1\*</sup>, Judy A. Thies<sup>1</sup>, Howard F. Harrison<sup>1</sup>, Mike Adams<sup>2</sup>, Wilfred R. Jester<sup>2</sup> and Gerald J. Holmes<sup>2</sup>. <sup>1</sup>USDA, ARS, U.S. Vegetable Laboratory, 2700 Savannah Highway, Charleston, SC 29414 and <sup>2</sup>Plant Pathology Extension, NC State University, Raleigh, NC 27695-7609. (shaker.kousik@ars.usda.gov)
- 8:30 Food Quality and Safety of Fresh-Cut Sweet Potatoes (*Ipomoea batatas*).** Katriel Alexander\*, Jaheon Koo, and James Garner, Department of Agriculture, University of Arkansas at Pine Bluff, Pine Bluff, AR 71601. (kooj@uapb.edu)
- 8:45 Citrulline content in diverse watermelon varieties.** Angela Davis<sup>1</sup>, Todd Wehner<sup>2</sup>, Amnon Levi<sup>3</sup>, and Steve King<sup>4</sup>. <sup>1</sup>USDA, ARS 911 East highway 3, Lane, Ok 74555-0159; <sup>2</sup>Department of Horticultural Science, 222 Kilgore Hall, Box 7609, North Carolina State University, Raleigh, NC 27695-7609; <sup>3</sup>USDA, ARS, U.S. Vegetable Laboratory, 2700 Savannah Highway, Charleston, SC 29414 and <sup>4</sup>Department of Horticultural Sciences, Vegetable & Fruit Improvement Center, Texas A&M University, College Station, TX 77843-



2133 (angela.davis@lane-ag.org)

**9:00 Potential of cucurbit rootstocks for managing root-knot nematodes in watermelon and melon.** Judy A. Thies<sup>1\*</sup>, Jennifer Ariss<sup>1</sup>, Richard Hassell<sup>2</sup>, Chandrasekar S. Kousik<sup>1</sup> and Amnon Levi<sup>1</sup>. <sup>1</sup>USDA, ARS, U.S. Vegetable Laboratory, 2700 Savannah Highway, Charleston, SC 29414 and <sup>2</sup>Coastal Research and Education Center, 2700 Savannah Highway, Charleston, SC 29414 (judy.thies@ars.usda.gov)

**9:15 Replacing the cytoplasm of watermelon cultivar with that of the desert watermelon *Citrullus colocyntis*.** Amnon Levi<sup>1\*</sup>, Judy Thies<sup>1</sup>, Richard Hassell<sup>2</sup>, Anthony Keinath<sup>2</sup>, Howard Harrison<sup>1</sup> and Angela Davis<sup>3</sup>. <sup>1</sup>USDA, ARS, U.S. Vegetable Laboratory, 2700 Savannah Highway, Charleston, SC 29414 and <sup>2</sup>Coastal Research and Education Center, 2700 Savannah Highway, Charleston, SC 29414 and <sup>3</sup>USDA, ARS 911 East highway 3, Lane, OK 74555-0159 (amnon.levi@ars.usda.gov)

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

## WORKING GROUPS

(Contact Chairs for Agenda and Presentation times)

### Watermelon Research Group

**Presiding:** Richard Hassel, Chair  
(rhassel@clemson.edu)

**Sunday:** 8:00 am – 12:00 pm

**Room:** AmBank room 107

**Irrigation Levels Affect Fruit Yield and Quality of Watermelon.** Juan C. Díaz-Pérez, Dan MacLean, Pingsheng, Department of Horticulture, Tifton Campus, University of Georgia, Tifton, GA 31793 (jcdiaz@uga.edu)

**Tolerance to Phytophthora Fruit Rot in Watermelon Plant Introductions.** C.S. Kousik, U.S. Vegetable Laboratory, USDA, ARS, 2700 Savannah Highway, Charleston, SC 29414 (shaker.kousik@ars.usda.gov)

**Results of 2010 Fungicide Trials to Manage Phytophthora Fruit Rot of Watermelon in South Carolina.** C.S. Kousik, H.F. Harrison and J.A. Thies, U.S. Vegetable Laboratory, USDA, ARS,

2700 Savannah Highway, Charleston, SC 29414 (shaker.kousik@ars.usda.gov)

**Performance of grafted watermelon in root-knot nematode infested soils** Judy A. Thies, U.S. Vegetable Laboratory, USDA, ARS, Charleston, SC, 29414 Richard L. Hassell, Clemson University CREC, 2700 Savannah Highway, Charleston, SC 29414 Jennifer J. Ariss, and Amnon Levi, U.S. Vegetable Laboratory, USDA, ARS, Charleston, SC 29414 (Judy.Thies@ars.usda.gov)

**Field Survey of Pollenizer Flowering, Triploid Fruit Set, and Pollinator Activity in Delaware Watermelons,** Gordon C. Johnson, University of Delaware Carvel REC, 16483 County Seat Highway, Georgetown, DE 19947 (gcjohn@udel.edu)

**QTL Mapping of Important Horticultural Traits in Watermelon,** Cecilia E. McGregor. Department of Horticulture, University of Georgia, Athens, GA 30602 (cmcgrel@uga.edu)

**Watermelon Fruit Quality Study 2010.** Richard L. Hassell, Clemson University CREC, 2700 Savannah Highway, Charleston, SC. 29414 Penelope Perkins-Veazie, NC Research Campus, Kannapolis NC 28083 (rhassel@clemson.edu),

### National Cowpea Improvement Assoc.

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

**Sunday:** 1:00 pm – 5:00 pm

**Room:** AmBank room 106

**The emergence of cowpea as a major food legume in the 21st century.** B. Singh. Dept. of Soil and Crop Sciences, Texas A&M University, College Station, TX 77843

**Potential of cowpea as a health promoting food to prevent chronic disease.** Joseph Awika, Dept. of Nutrition and Food Science, Texas A&M University, College Station, TX 77840

**Resolving the Impasse in the Use of Plant Oils in Cowpea Post-harvest Pest Control – A Progress Report.** Louis EN Jackai\*, Beatrice N. Dingha, and Henry O. Sintim, North Carolina A&T State University, Greensboro, NC 27411

**High-throughput phenotyping of drought tolerance in cowpea using thermal imaging.** David Verbree, Dept. of Soil and Crop Science, Texas A&M University, 370 Olsen Blvd, 2474 TAMU, College Station, TX 77843-2474

**Pecan Research and Extension Forum**

**Presiding:** Monty Nesbitt, Chair  
(mlnesbitt@ag.tamu.edu)

**Saturday:** 8:00 am – 5:00 pm

**Room:** Bayfront Copano

**S. Blueberry/Small Fruit Workers**

**Presiding:** Elena Garcia, Chair  
(megarcoa@uark.edu)

**Saturday:** 8:00 am – 5:00 pm

**Room:** Bayfront Matagorda

**Horticulture Administrators**

**Presiding:** Doug Bailey, Chair  
(dabailey@uga.edu)

**Saturday:** 1:00 pm – 5:00 pm

**Room:** Bayfront Partnership Boardroom

**Vigna Crop Germplasm Committee**

**Presiding:** Richard Fery  
(richard.fery@ars.usda.gov)

**Sunday:** 9:00 am – 12:00 pm

**Room:** AmBank room 106

**Certified Horticulturist Workshop**

**Presiding:** Fred Davies, Chair  
(f-davies@tamu.edu)

**Saturday:** 9:00 am – 11:00 am Workshop  
1:00 pm – 4:00 pm Examination

**Room:** Bayfront Laguna Madre



## ASHS Certified Horticulturist Examination

### American Society for Horticultural Science

1018 Duke Street  
Alexandria, VA 22314

phone: 703.836.4606 fax: 703.836.2024

E-mail: [ashsch@ashs.org](mailto:ashsch@ashs.org)

#### Workshop

Saturday, February 5, 9:00–11:00 a.m., Omni Bayfront Hotel, Laguna Madre Room

#### Examination

Saturday, February 5, 1:00–4:00 p.m., Omni Bayfront Hotel, Laguna Madre Room

#### Application and Deadlines

Go to the ASHS website ([ashs.org](http://ashs.org)) to download the ASHS Certified Horticulturist Candidate Handbook and the Application. Applications and proper payment must be received in the ASHS office no later than 14 (fourteen) working days before a scheduled exam. Deadline for this Exam is January 22. No exceptions.

#### Fees for the Examination

ASHS Members—\$160.00; Non-members—\$235.00

#### For additional information:

- Download from [ashs.org](http://ashs.org): [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 be registered for the conference.
- 2) The title of the abstract must appear in the published conference program.
- 3) The abstract must be submitted as a document file in the proper format.
- 4) The abstract must be submitted to the Chair of the session by the deadline.

## Submission of Abstract

**File Format:** Each abstracts must be submitted as a separate Word (.doc) file. If you use another word processing language, submit abstract in rich text format (.rtf).

**Deadline:**

- 1) At meeting: Give disk with file to the Chair of the session.
- 2) Email abstracts as an attached file to the Chair of the session before the meeting or within a few days after the meeting. See the Section Program for the Chair's email address.

## Abstract Format

**Length:** Limit the abstract body to about 2000 characters.

**Font:** 12 point, Times New Roman or similar

**Format:** Format abstract as below. Asterisk denotes presenting author.

## Example Format

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

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

<sup>1</sup>316 Plant Sciences, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701, <sup>2</sup>USDA-ARS Fruit Lab, 10300 Baltimore Ave., BARC-West Bldg. 010A, Beltsville, MD 20705

A tetraploid blackberry population that segregates for two important morphological traits, thornlessness and primocane fruiting, was tested with molecular marker analysis. Both randomly amplified polymorphic DNA (RAPD) and simple sequence repeat (SSR) markers were used to screen a population of 98 genotypes within the population plus the two parents, 'Arapaho' and 'Prime-Jim'<sup>®</sup> (APF-12). RAPD analysis averaged 3.4 markers per primer, whereas SSR analysis yielded 3.0 markers per primer pair. Similarity coefficient derived from the Dice index averaged over all individuals was 63% for RAPD markers, 73% for SSR markers, and 66% for RAPD and SSR markers together. The average similarity coefficients ranged from a high of 72% to a low of 38% for RAPD markers, 80% to 57% for SSR markers, and 73% to 55% for both. Comparison of the parents indicated a similarity of 67% for RAPD markers, 62% for SSR markers, and 67% for both. This is similar to a previous study that reported the similarity coefficient at 66%. Although inbreeding exists within the population, the level of heterozygosity is high. Also, evidence of tetrasomic inheritance was uncovered within the molecular marker analysis. This population will be used to identify potential markers linked to both morphological traits of interest. Further genetic linkage analysis and mapping is needed to identify any putative markers.

## 2011 Program at a Glance

### Saturday

Omni Bayfront Hotel	8:00				9:00					10:00					11:00					12:00					1:00					2:00					3:00					4:00					5:00																																							
Hotel Lobby	7:00 open																																										Registration																																									
Copano	Pecan Research & Extension Forum																																																																																			
Laguna Madre	Certified Horticulturist Workshop																																																																																			
Matagorda	Southern Blueberry/Small Fruit Workers																																																																																			
Partnership Boardroom																						Horticulture Administrators																					Executive Com.																																									
Nueces Ballroom A	ACB Club Share										Depart for Group Lunch, Activities or Tour																																6 pm ACB Reception																																									

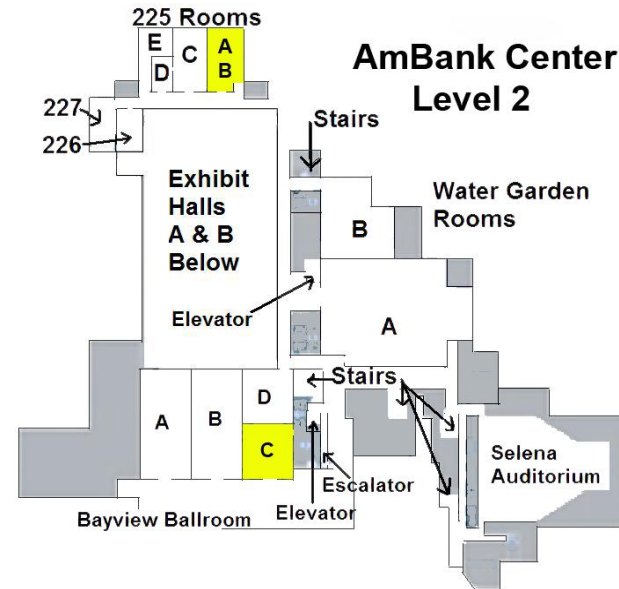
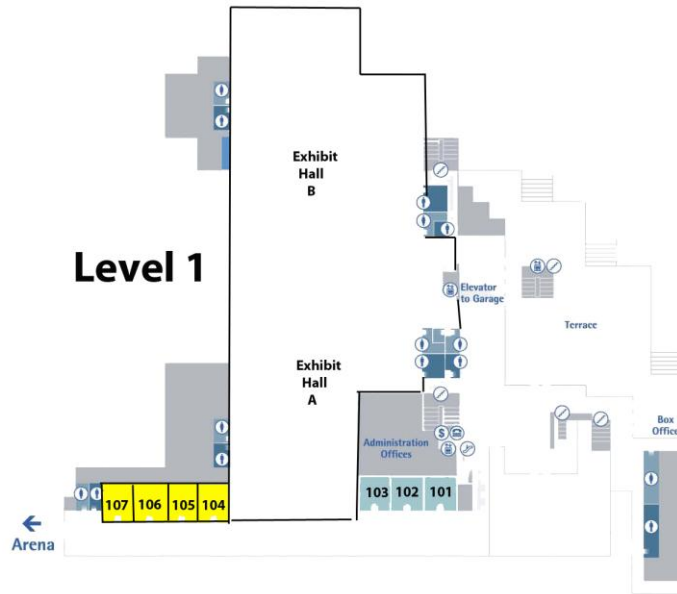
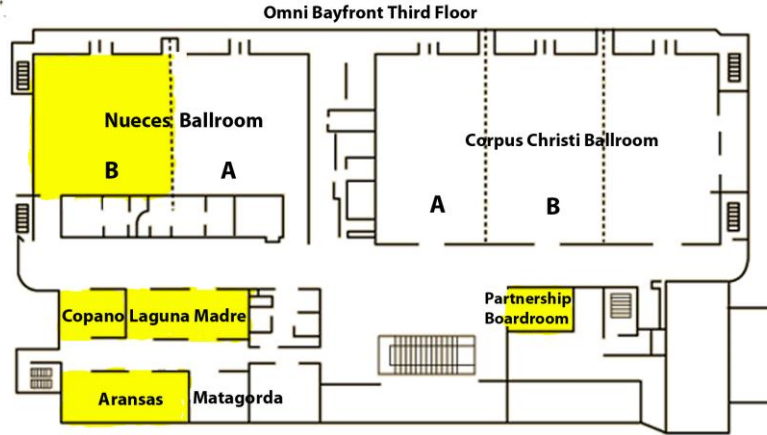
### Sunday

AmericanBank Center	8:00				9:00					10:00					11:00					12:00					1:00					2:00					3:00					4:00					5:00																																							
AmBank Level 1 Foyer	7:00 open																																										Registration																																									
AmBank Level 1 Foyer	Poster Session Set-Up										View Posters										Even # authors at poster										Odd # authors at poster										View Posters																																											
AmBank Room 225A/B	Judging Contest Set-Up																					J. Benton Storey Horticulture Judging Contest																																																														
AmBank Room 107	Watermelon Research Group																					Vegetable Crops Section																																																														
AmBank Room 106	Vigna Crop Germplasm Committee																					National Cowpea Improvement Association																																																														
AmBank Room 105	Extension Section																					Education Sect.																																																														
AmBank Room 104	Edmond UG Paper Comp.							Childers M.S. Paper Competition							Barham Ph.D. Paper Comp.																																																																					

### Monday

AmericanBank Center	8:00				9:00					10:00					11:00					12:00					1:00					2:00					3:00					4:00					5:00																																							
AmBank Level 1 Foyer	7:00 open																																										Registration																																									
AmBank Level 1 Foyer	Poster Session Viewing																					Take Down																																																														
AmBank Bayview C	ACB Business Meeting										Business Meeting/Awards Prog.																																																																									
AmBank Room 106	Vegetable Crops Section																					Vegetable Crops Section																																																														
AmBank Room 105	Floriculture, Ornamentals & Turf Section																																																																																			
Am Bank Room 107	Fruit Crops Section																					Fruit Crops Section																																																														
AmBank Room 104	PostHarvest & Biotechnology Section																																																																																			

# Meeting Room Locations



# **ASHS Annual Conference**

**September 25-28, 2011 • Waikoloa, Hawaii**

Abstract Submissions are open!  
**ashs.org**



Scenes from Hawaii, courtesy of Hawaii Visitors & Convention Bureau.