

**WELCOME TO THE 2010
JOINT ANNUAL MEETING
OF THE**

**FLORIDA STATE
HORTICULTURAL SOCIETY**

AND

**SOIL AND CROP SCIENCE
SOCIETY OF FLORIDA**

FEATURING

WORKSHOPS AND SYMPOSIA:

**Water Quality and Water
Conservation in Ornamental
Crops Production,**

**Marketing Value-added
Horticultural Commodities
Economically and Safely,**

Reclaimed Water

June 6 to 8, 2010

**Plantation Golf Resort & Spa
9301 West Fort Island Trail
Crystal River, FL 34429**



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PROGRAM OVERVIEW

Registration Desk Hours	<i>Pine A/B</i>
Sunday June 6	2:00 AM - 7:00 PM
Monday June 7	7:00 AM - 6:00 PM
Tuesday June 8	7:00 AM - Noon

Sunday Afternoon

1:00-5:00	Certified Horticulturist Examination	<i>TBA</i>
2:00-4:00	FSHS Board of Directors Meeting	<i>The Den</i>
3:00-5:00	SCSSF Board of Directors Meeting	<i>Dogwood Room</i>
5:00-6:00	Awards Ceremony, Mary Lamberts	<i>Magnolia B</i>
5:00-5:30	Posters Set up, Brad Burbaugh	<i>Palm Room</i>
6:00-7:00	Welcome Reception <i>(Included in paid conference registration)</i>	<i>Palm Room</i>
	Silent auction, George Fitzpatrick	

Monday Morning

7:00-8:15	Continental Breakfast <i>(Included in paid conference registration)</i>	<i>Palm Room</i>
7:30-8:15	Poster Session, Brad Burbaugh (See list of posters on p. 16)	<i>Palm Room</i>
8:30-9:45	General Session	<i>Magnolia B</i>
8:30	Introduction and Welcome	
8:40	Presidential Addresses: Jeff Brecht, FSHS President Samira Daroub, SCSSF President	
9:00	General Session Keynote Speaker: Michael Carlton, Executive Director Florida Specialty Crop Foundation and Director, Labor Relations FFVA, Maitland, FL: “Two Hats, Two Topics: The Role of the Foundation in Research and The Health of Agriculture under Health Care Reform”	
	Questions and Answers	
9:45	End of General Session Concurrent Morning Sessions:	
9:50-12:00	Citrus	<i>Magnolia B</i>
9:50-11:45	Krome Memorial Institute	<i>Sabal A</i>
9:50-11:45	Ornamental, Garden & Landscape	<i>Sabal D</i>

9:50-11:45	Handling & Processing	Sabal C
9:50-11:45	Vegetable	Magnolia A
10:00-11:45	SCSSF Sessions	Sabal B

Monday Lunch

12:00-1:10	Lunch <i>on your own</i> – Deli Buffet available (\$12/person)	Dining Room
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Monday Afternoon

Concurrent Afternoon Sessions:

1:20-5:30	Citrus	Magnolia B
1:20-5:00	Krome Memorial Institute	Sabal A
1:20-5:00	Ornamental, Garden & Landscape	Sabal D
1:20-5:15	Handling & Processing	Sabal C
1:20-4:30	Vegetable	Magnolia A
4:30-5:30	Focus Team Meeting	Magnolia A
1:20-4:30	SCSSF Sessions	Sabal B
4:30-5:00	SCSSF Graduate Student Paper Awards	Sabal B
5:00-5:30	SCSSF Business Meeting	Sabal B

Monday Evening

6:00-7:00	Industry Reception (<i>Included in paid conference registration</i>)	Palm Room
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Tuesday Morning-FSHS Program

7:00-8:15	Horticultural Breakfast (<i>Event ticket required</i>) Invited Speaker: Mr. Reggie Brown, Executive Vice President, Florida Tomato Exchange “The Tomato Industry: Past, Present, and Future”	Palm Room
8:30-9:45	FSHS Annual Business Meeting: Student Competition Awards, Carlene Chase Historical Perspectives: Ed Etxeberria, FSHS Editor: “A History of the FSHS Proceedings (IV): Volumes 99 to 122 (1986 to 2009)” Concurrent Morning Sessions:	Magnolia B
9:50-11:30	Citrus	Magnolia B
9:50-11:45	Ornamental, Garden & Landscape	Sabal D

9:50-11:30 Handling & Processing **Sabal C**
9:50-11:45 Vegetable **Magnolia A**

Tuesday Morning-SCSSF Program

8:20-10:00 Scientific Sessions **Sabal B**

Tuesday Lunch

12:00-1:15 Extension Luncheon **Palm Room**

Invited speaker: Mr. Kevin Morgan,
Executive Director of the Florida
Farm Bureau Federation,
Gainesville, FL.

“The Perfect Partnership”

(Event ticket required)

(All posters are taken down)

Tuesday Afternoon

1:30-5:00 In-Service Training and Producer **Magnolia B**
Workshop *(Registration to UF-*

IFAS IST #29144 required)

**Marketing Value-added
Horticultural Commodities
Economically and Safely**

Co-sponsored by

*FSHS, SCSSF and UF/IFAS
Cooperative Extension Service*

End of 2010 Joint meeting. Have a safe trip home, and
See you next year!

MARK YOUR CALENDARS!

THE 2011 JOINT FSHS-SCSSF ANNUAL MEETING

WILL BE HELD AT THE
Renaissance Vinoy Resort & Golf Club
St. Petersburg, FL 33701
June 5-7, 2011





**FLORIDA STATE HORTICULTURAL
SOCIETY
2009-2010
BOARD OF DIRECTORS**

<i>Chairwoman of the Board</i>	<i>Mary Lamberts</i>
<i>President</i>	<i>Jeff Brecht</i>
<i>Sectional Vice-Presidents:</i>	
<i>Citrus</i>	<i>Robert Ebel</i>
<i>Krome Memorial Institute</i>	<i>Peter Anderson</i>
<i>Ornamental, Garden and Landscape Handling & Processing</i>	<i>Ed Skvarch</i>
<i>Vegetable</i>	<i>Michelle Danyluk</i>
	<i>Monica Ozores-Hampton</i>
<i>Secretary and Treasurer</i>	<i>Chris Oswalt</i>
<i>Editor</i>	<i>Ed Etxeberria</i>
<i>Sectional Editors:</i>	
<i>Citrus</i>	<i>Jim Syvertsen</i>
<i>Krome Memorial Institute</i>	<i>Ed Etxeberria</i>
<i>Ornamental, Garden and Landscape Handling & Processing</i>	<i>Doug Caldwell</i>
<i>Vegetable</i>	<i>John Manthey</i>
	<i>Sal Locascio</i>
<i>Marketing Coordinator/Webmaster</i>	<i>Mark Ritenour</i>
<i>Members At-large</i>	<i>Fritz Roka</i>
	<i>David Hall</i>
<i>Program Coordinator</i>	<i>Eric Simonne</i>

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WELCOME 2011 FSHS

SECTIONAL VICE-PRESIDENTS!

Citrus: Ryan Atwood, UF/IFAS Lake County Extension,
Tavares (raatwood@ufl.edu)

HP: Alvin Cheng, JBT FoodTech, Lakeland
(Alvin.cheng@jbt.com)

Krome Memorial Institute: Mehboob Sheikh, FAMU,
Tallahassee (Mehboob.sheikh@famu.edu)

OGL: Mike Orfanedes, UF/IFAS Broward County
Extension, Davie (morf@ufl.edu)

Vegetable: Danielle Treadwell, UF/IFAS Horticultural
Sciences Dept., Gainesville (ddt@ufl.edu)



SOIL AND CROP SCIENCE SOCIETY OF FLORIDA

2010 OFFICERS

<i>President</i>	<i>Samira Daroub</i>
<i>President-Elect</i>	<i>Jerry Sartain</i>
<i>Secretary and Treasurer</i>	<i>Tom Obreza</i>
<i>Director (2010)</i>	<i>Jacque Breman</i>
<i>Director (2011)</i>	<i>Rao Mylavarapu</i>
<i>Director (2012)</i>	<i>James Mabry McCray</i>
<i>Proceedings Editor</i>	<i>Ken Boote</i>

2010 MEETING FACILITATORS

<i>Meeting Coordinator</i>	<i>Tracy Shawn</i>
<i>Local Arrangements Coordinator</i>	<i>Gary England</i>
<i>Sponsorship Coordinator</i>	<i>Gene Albrigo</i>
<i>Student Competitions Coordinator</i>	<i>Carlene Chase</i>
<i>CEU Coordinator</i>	<i>Barton Wilder</i>
<i>Poster Session Coordinator</i>	<i>Bradley Burbaugh</i>

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DON'T FORGET TO THANK OUR STUDENT SECTION ASSISTANTS!

Citrus: Eduardo Chica, Citrus Res. and Edu. Ctr.,
Lake Alfred (G. Albrego)

Handling & Processing: Sherry Kao, Horticultural
Sciences Dept., Gainesville (J. Brecht)

Krome MI: Allison Beyer, Horticultural Sciences
Dept., Gainesville

Ornamental, Garden & Landscape: Rosa Raudales,
Environmental Horticulture Dept., Gainesville
(P. Fisher)

Poster: Bee Ling Poh, Horticultural Sciences Dept.,
Gainesville (E. Simonne)

Vegetable: Camille Esmel, Horticultural Sciences
Dept., Wimauma (B. Santos)



DISPLAYS DURING THE MEETING

Pine A/B

2011 FSHS Meeting in St. Pete, FL. *Jeff Brecht*, UF/IFAS Horticultural Sciences Dept., Gainesville, FL.

2010 Florida Small Farms and Alternative Enterprise Conference. *Robert Hochmuth*, UF/IFAS NFREC-SV, Live Oak, FL.

Citrus Greening. *Jamie Yates*, UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL.

Citrus Mechanical Harvesting and Abscission Program. *Barbara Hyman*, UF/IFAS Southwest Florida Res. & Edu. Ctr., Immokalee, FL.

IFAS Citrus County Extension Programs, *Gary England, Matthew Lenhardt, and Joan Bradshaw*, Sumter, FL.

IFAS Analytical Services Laboratory Res. and Extension Services. *Rao Mylavarapu*, UF/IFAS Soil and Water Science Dept., Gainesville, FL.

IFAS Extension Bookstore, *Audry Pettit and Jenny Mooney*, Gainesville, FL.

IFAS Strawberry Disease Forecasting: A new Tool on AgClimate. *Natalia Perez, Clyde Fraisse, Willingthon Pavan, and Steven Mackenzie*, UF/IFAS GCREC, Wimauma, FL and UF/IFAS Agricultural and Biological Engineering Dept., Gainesville, FL.

(<http://agroclimate.org/tools/strawberry/>)

PAINet: The Protected Agriculture and Information Network for Central America and the Caribbean. *Bielinski Santos*, GCREC. Wimauma, FL.

Small Farms Academy, *Robert Hochmuth*, NFREC-SV, Live Oak, FL.

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ATTENTION FSHS AUTHORS!

DID YOU KNOW?

FSHS welcomes and encourages **color pictures** and **color figures** in Proceedings articles?

Did you know that videos can also be linked to Proceedings articles?

Color pictures and figures, and videos are included **FREE of CHARGE** in the on-line Proceedings.

Take advantage of this possibility and pass the word!



The Societies truly appreciate the support of the following organizations and individuals in helping make this meeting possible.

2010 MEETING SPONSORS

Gold Level Sponsor (above \$2,000)

*Florida Citrus Production
Research Advisory Council*

Silver Level Sponsor (\$1,000–1,999)

*Bayer CropScience
Helena
UF/IFAS Soil and Water Science Dept.*

Bronze Level Sponsor (\$250–\$999)

*AgraQuest
Plant Food Systems
ProFlower.com
Syngenta
Triangle Chemical Company*

2010 FSHS PATRON MEMBERS

<i>Craig Campbell</i>	<i>David J. Hall</i>
<i>Ed Etxeberria</i>	<i>Mary Lamberts</i>
<i>Albert Hendry</i>	<i>Henry Yonce</i>
<i>Theodore Winsberg</i>	<i>Jim Syvertsen</i>

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FSHS PRESENTATION, PUBLICATION, AND SUBMISSION GUIDELINES

Full payment of page charges from past years (<http://shop.ashs.org/home.php?cat=270>) is required before presentations and submissions can be accepted in current year.

The SENIOR AUTHOR must be a member of the Society, and the PRESENTING AUTHOR of the paper must be registered at the annual meeting (except for invited papers) for papers to be accepted for the Proceedings. Papers not presented at the meeting will not be published.

Electronic submissions are highly encouraged and preferred. Manuscripts should be delivered in FINAL electronic form (1) at the time of meeting to the appropriate section VP or (2) no later than two weeks after the meeting at fshsproc@ashs.org.

Manuscripts to be considered as “refereed” MUST be submitted electronically at the time of the meeting.

For all submissions, see complete Manuscript Preparation Guide for the Proceedings of the Florida State Horticultural Society at:

<http://www.fshs.org/Proceedings/FSHS%20Author%20Instructions.pdf>

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**FSHS POSTER AND PAPER AUTHORS:
REMEMBER TO
E-MAIL FULL-LENGTH MANUSCRIPTS AT
FSHSPROC@ASHS.ORG**

BY JUNE 23, 2010

with copy to the sectional VP:

Citrus: Bob Ebel rcebel@ufl.edu
H&P: Michelle Danyluk, mddanyluk@ufl.edu
Krome MI: Peter Andersen, pcand@ufl.edu
OGL: Ed Skvarch, eask@ufl.edu
Vegetable: Monica Ozores-Hampton,
ozores@ufl.edu



FSHS PRESENTATION, PUBLICATION, AND SUBMISSION GUIDELINES FOR POSTERS

This session new in 2010 is intended as a forum for Extension Faculty members who work with horticultural producers and consumers to share ideas on extension programming. County faculty with programmatic responsibilities in Horticulture, Agriculture, and Family and Consumer Sciences are encouraged to submit entries provided the topic of the poster involves horticultural commodities.

Authors should submit a 300-word abstract (similar to the abstract submitted for oral presentations) to the corresponding sectional Vice-President clearly indicating "Poster Session Entry" when the call for abstracts is released. Posters should present **an Extension program** following the format: title, author(s), affiliation, introduction/background, problem faced by the target audience, objectives and educational approach, teaching(s) offered, curriculum used, outcomes and impacts, and pros and cons in adopting this program in another county. Posters must be self-standing (hard back; size not to exceed 4-ft wide x 3-ft tall) and set up will be on Sunday June 6 between 5:00 and 5:30 pm, and poster must be removed by Tuesday, June 8 at 1:30 pm.

For publication in the conference proceedings, authors should submit on-line at fshsproc@ashs.org (with copy to poster session coordinator and sectional VP an expanded abstract (1 page of text and 1 page of tables, figures or pictures) during the meeting and no later than June 23, 2010.

For more information, contact Brad Burbaugh, Poster Session Coordinator at brad784@ufl.edu.

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VOLUNTEERS NEEDED!

FSHS and SCSSF are volunteer-run organizations.
Make a difference, and volunteer your time,
leadership, service and talents!

Visit **fshs.org** or **scssf.org**!



FSHS STUDENT BEST ORAL PRESENTATION AND BEST PAPER AWARDS

FSHS offers two competitions for students: Best Oral Presentation (SBOPC) and Student Best Paper (SBPC). Awards for the SBOPC will be presented during the Annual Business Meeting at the 2010 FSHS annual meeting in Crystal River. The SBPC awards will be announced at the 2011 FSHS annual meeting in St. Pete. Awardees will receive cash prizes and will be recognized in the Proceedings of FSHS. Students may participate in either or both competitions.

Student Best Oral Presentation Competition (SBOPC):

Entries in the SBOPC are marked in blue in the conference program. The number of entries in the SBOPC is limited to 15 and must be submitted jointly to the sectional VP and the Student Competitions Coordinator. Acceptance in the competition is on a first-come, first-serve basis. Participants are judged on importance to Florida horticulture, scientific merit, organization, awareness of current literature, fluency, clarity of presentation, effective use of figures and tables, report of conclusions, completeness, timing, and response to questions.

Student Best Paper Competition (SBPC):

To participate in the SBPC, students must submit a manuscript (use author guidelines for the Proceedings of the FSHS) by email with the subject "Student Best Paper Competition" to fhsproc@ashs.org by June 23, 2010. Student papers will be published in the Proceedings of FSHS. Entries will be judged on relevance to Florida horticulture, scientific merit, experimental design rigor, literature review, completeness, and clarity.

For more information, contact FSHS Student Competition Coordinator Carlene Chase at cachase@ufl.edu.

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HORTICULTURAL ATTRACTIONS IN THE CRYSTAL RIVER AREA

USDA/NRCS Brooksville Plant Materials Center (BPMC). Since 1947, the BPMC has provided new conservation plant releases and technology to improve coastal areas and wildlife habitat, control erosion and prevent water pollution in Florida, the Caribbean, Alabama, Georgia and South Carolina, (<http://plant-materials.nrcs.usda.gov/flpmc/>)

Blueberry U-Pick at Misty Meadows Blueberry Farm. Located near Inverness, this u-pick operation is open in May-June. (<http://www.visitcitrus.com/blueberries.asp>)

Citrus County Butterflies: Flutter into Fun. Located on 6991 W. Cardinal Street, Homosassa, FL 34446 [(352) 628-6362], Homosassa Butterfly opened in mid-January, 2009 and features a 2,500-square-foot enclosed habitat filled with live butterflies. Open 7 days a week from 10 am. to 5 pm. (homosassabutterfly.com)

Fishing: It's just better here in Citrus County! Sport fishers can tackle a wide variety of species in the area's rivers, estuaries, grassy flats and the Gulf of Mexico. Massive redfish, trout, tarpon, cobia, grouper and other species all await in these waters. For a list of fishing opportunities: <http://www.visitcitrus.com/fishing.asp>

Golfing anyone? See the many local options at <http://www.visitcitrus.com/golf.asp>

Ellie Schiller Homosassa Springs Wildlife State Park. [4150 S. Suncoast Boulevard Homosassa, Florida 34446; (352) 628-5343]. The park showcases native Florida wildlife, including manatees, black bears, bobcats, white-tailed deer, American alligators, American crocodiles, and river otters. Highly recommended!

<http://www.floridastateparks.org/homosassasprings/default.cfm>

Yulee Sugar Mill Ruins Historic State Park. [State Road 490, Homosassa, FL; (352) 795-3817. The park contains the remnants of the once-thriving 5,100-acre sugar plantation: a forty-foot limestone masonry chimney, iron gears, and a cane press. The steam-driven mill operated from 1851 to 1864 and served as a supplier of sugar products for southern troops during the Civil War. <http://www.floridastateparks.org/yuleesugarmill/default.cfm>

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WHY SHOULD I BECOME AN ASHS CERTIFIED HORTICULTURIST?

The American Society for Horticultural Science Certified Horticulturist (ASHS-CH) professional certification program is the national credential validating the knowledge and skills of horticultural practitioners working in the industry. The ASHS-CH designation provides employers, governmental agencies, horticultural industry members and the public with the assurance that certified individuals possess the necessary skills, knowledge and experience to competently perform the duties of a working horticulturist.

Goals of Certification

- Promote horticultural industry competency standards
- Provide prospective employers a means to identify professionals who demonstrate an established level of knowledge, skills and expertise in the field of horticulture
- Enhance knowledge and skills in the profession through continuing Edu. and recertification requirements.

Benefits Program

- Certification provides a basis for trusting the horticulturist's work and abilities.
- Certification allows competent horticulturists to distinguish themselves from others in the profession.
- The process of becoming certified and maintaining certification provides incentives to the horticulturist to continue his or her ongoing professional development.
- Certification enables standards and practices in horticulture to be clarified, organized, codified, and publicized.
- Certification promotes best practices in the field of horticulture.

Examination Eligibility Requirement

Candidates must have (a) a minimum of three (3) years of paid fulltime experience in horticulture, or (b) two-year degree in Horticulture or a related field and two (2) years of paid practical experience, or (c) a four-year degree in Horticulture or a related field and one year of paid practical experience.

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For more information, visit the ASHS Website at

ashs.org

JOINT PROGRAM SCHEDULE

POSTER SESSION

Palm Room

Bradley Burbaugh, Coordinator

(brad784@ufl.edu)

Bee Ling Poh, Student Session Assistant

(pohbeeling@ufl.edu)

Monday Morning Session (Authors at posters 7:30 – 8:15 am)

An Educational Model to Facilitate Mandated Environmental Behavior Change. M.S. Orfanedes, UF/IFAS Broward County Extension, Davie, FL. (morf@ufl.edu) [P-1-OGL26]

A Hands-on Course to Improve the Professionalism of "Green Industries" Personnel. A.G.B. Hunsberger and H. Mayer, UF/IFAS Miami-Dade County Extension, Homestead, FL. (aghu@ufl.edu) [P-2-OGL27]

Making the Grade: Restricted-use Pesticide Exam Preparation Workshops in Duval County. E.E. Harlow, UF/IFAS Duval County Extension, Jacksonville, FL. (eeeck@ufl.edu) [P-3-OGL28]

Commercial Ornamental Plant Diagnostic Clinic. L. Parker, UF/IFAS Orange County Extension, Orlando, FL. (l.parker@ufl.edu) [P-4-OGL29]

The Urban Conservation Unit: Promoting Water Conservation for Residential Irrigation Systems. Mary Shedd McCready and Don Pybas, UF/IFAS Miami-Dade County Extension, Homestead, FL; Laura Vasquez, Jesus Lomeli, and Kati Migliaccio, UF/IFAS Tropical Res. and Edu. Ctr., Homestead, FL; Michael Dukes, UF/IFAS Agricultural and Biological Engineering Dept., Gainesville, FL. (mlshedd@ufl.edu) [P-5-OGL30]

Creating Wildlife Habitat and Reducing Mowing Costs. J.V. Morse, R. Albanese, J. Murphy, UF/IFAS Pinellas County Extension, St. Petersburg, FL; and S. Robinson, Environmental Management, Pinellas County Government, St. Petersburg, FL. (jvmorse@ufl.edu) [P-6-OGL31]

Designing an Integrated Pest Management Program for Hispanic Landscape Maintenance Professionals. R.L. Jordi, UF/IFAS Nassau County Extension, Callahan, FL; H. Mayer, UF/IFAS Miami-Dade County Extension, Homestead, FL; and, E.A. Skvarch, UF/IFAS St. Lucie County Extension, Ft. Pierce, FL. (eask@ufl.edu) [P-7-OGL32]

Environmental Horticulture Production Needs Assessment Survey. S.T. Steed, UF/IFAS Hillsborough County Extension, Seffner, FL, and G. Israel, UF/IFAS Professional Development and Evaluation Ctr., Gainesville, FL. (ststeed@ufl.edu) [P-8-OGL33]

Using Strawberry Variety Taste Testing to Promote Agricultural Education and Determine Consumer Preferences. Jim DeValerio¹, A. Gazula², E. Simonne³, and A. Simonne⁴.¹UF/IFAS Bradford County Extension, Stark, FL; ²UF/IFAS Alachua County Extension, ³UF/IFAS Horticultural Sciences Dept., Gainesville, FL; and ⁴ UF/IFAS Family, Youth and Community Sciences, Gainesville, FL. (jtd@ufl.edu) [P-9-V24]

Junior Master Gardeners Explore Alternative Gardening Methods for Growing Fruits, Vegetables and Flowers. Alicia R. Lamborn, UF/IFAS Baker County Extension, Mcclenny, FL. (alamborn@ufl.edu) [P-10-V25]

Magazine and Online CEU Articles as Possible Models of Educational Opportunities for Pesticide Applicators and ASHS Certified Horticulturists. Mary Lamberts¹, E. A. Skvarch, Jr.², and G. K. England³. ¹UF/IFAS Miami-Dade County Extension, Homestead, FL; ² UF/IFAS St. Lucie County Extension, Ft. Pierce, FL; and ³UF/IFAS Sumter County Extension, Bushnell, FL. (lamberts@ufl.edu) [P-11-V26]

Annie's Project - UF/IFAS Extension Program for Women Producers in Horticulture. R.A. Kluson, UF/IFAS Sarasota County Extension, Sarasota, FL, and N.M. Wilson UF/IFAS Marion County Extension, Ocala, FL. (rkluson@scgov.net) [P-12-V27]

Finding Optimum Ratios of Soil Extractants to Determine Plant Available Phosphorus in Florida Calcareous Soils. Assma Zekri¹, Kelly Morgan¹, Shinjiro Sato¹, and Mongi Zekri². ¹Soil and Water Science Dept., Immokalee, FL. ² UF/IFAS Hendry County Extension, LaBelle, FL. (maz@ufl.edu). [P-13-V28]

International Horticulture Training on Landscape Maintenance in Guayaquil, Ecuador. L.M. Seals¹, A. Bolques², P. Vergot³, and W. Bowen⁴. ¹UF/IFAS Brevard County Extension, Palm Bay, FL; ²Florida A&M University, Quincy, FL; ³UF/IFAS Northwest District Extension Director, Quincy, FL; ⁴UF/IFAS International Programs, Gainesville, FL. (lseals@ufl.edu). [P-14-OGL34]

What's in a Name? Using Focus Groups to Brand an Educational Garden. L. Felter, C. White, and R. Tyson, UF/IFAS Orange County Extension, Orlando, FL. (Lfelter@ufl.edu). [P-15-OGL35]

Can Social Marketing Educate Consumers About Complicated Behaviors? The Difficulties of Watering Your Lawn While Conserving Water. L. Felter, UF/IFAS Orange County Extension, Orlando, FL and P. Monaghan, UF/IFAS, Dept. of Agricultural Edu. & Communication,

Gainesville, FL. (Lfelter@ufl.edu). [P-16-OGL36]

Building Your Own Farm's Food Safety Manual and Plan. E. Toro, and K. Allen, UF/IFAS Suwannee County Extension, and R. Hochmuth, and L. Landrum, UF/IFAS North Florida Res. and Edu. Ctr. – Suwannee Valley, Live Oak, FL. (etoro@ufl.edu). [P-17-V29]

Starting a Successful Hydroponic Business. Hochmuth, R., L. Landrum, and W. Laughlin, UF/IFAS North Florida Res. and Edu. Ctr. – Suwannee Valley, Live Oak, FL. (bobhoch@ufl.edu). [P-18-V30]

Vegetable Water Quality/Quantity Best Management Collaboration in West Central Florida. Crystal Snodgrass, UF/IFAS Manatee County Extension, Palmetto, FL; Alicia Whidden, UF/IFAS Hillsborough County Extension, Seffner, FL; and, Jemy June West Hinton and Darren Cole, UF/IFAS BMP Implementation Team, Wimauma, FL. (crys21@ufl.edu) [P-19-V31]

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FSHS PROGRAM

VEGETABLE SECTION

Monica Ozores-Hampton, Presiding

(ozores@ufl.edu)

Camille Esmel, Student Section Assistant

(cami13@ufl.edu)

Magnolia A

Monday Morning Session (9:50 – 11:45 am)

9:50 Welcome and Introductions, Monica Ozores-Hampton

A - Cultural Practices

10:00 Growing and Marketing Pole Beans at Local Green Markets in Southeast Florida. K.D. Shuler, P.N. Shuler, and J. Stephen. Stephen's Produce, 12657 158th St. N, Jupiter, FL 33478. (skshuler@aol.com) [V1]

10:15 A Survey of the Effectiveness of Current Methods Used for the Freeze Protection of Vegetables in South Florida. M. Ozores-Hampton, G. McAvoy, M. Lamberts and D. Sui. UF/IFAS South West Florida Res. and Edu. Ctr., Immokalee, FL. (Ozores@ufl.edu) [V2]

10:30 Estimating Freeze Losses to Vegetable Crop Values and Farm Worker Income. F. Roka, M. Ozores-Hampton, and G. McAvoy. UF/IFAS South West Florida

Res. and Edu. Ctr., Immokalee, FL. (fmroka@ufl.edu) [V3]

10:45 Rootstocks Improve Fruit Yield and Quality of Greenhouse-produced Determinate and Indeterminate Tomato Cultivars. D.J. Cantliffe¹, N.L. Shaw¹, Q.N. Vinh², S.A. Sargent¹, A. Berry¹ and X. Zhao¹. UF/IFAS Horticultural Sciences Dept., Gainesville, FL; ²Institute of Agricultural Science for Southern Vietnam, 121 Nguyen Binh Khiem, District 1, Ho Chi Minh City, Vietnam. (djcant@ufl.edu) [V4]

11:00 Performance of Specialty Melons Cultivars in High Tunnels and Open Fields. T.P. Salame-Donoso¹, B. Santos¹, and D.J. Cantliffe². ¹UF/IFAS Gulf Coast Res. and Edu. Ctr., Wimauma, FL; ²UF/IFAS Horticultural Sciences Dept., Gainesville, FL. (tsalame@ufl.edu) [V5]

11:15 ‘Tasti-Lee’ Tomatoes: Potential Consumer Demand for an Improved UF-developed Shipping Tomato. L. Harrison¹, J. Scott², and E. Harrison³. ¹UF/IFAS Leon County Extension, Tallahassee, FL. ²UF/IFAS Gulf Coast Res. and Edu. Ctr., Wimauma, FL. ³Florida Dept. of Agriculture and Consumer Services, Tallahassee, FL. (harrisong@leoncountyfl.gov) [V6]

11:30 Post-harvest Qualities of Vegetable Crops Grown with or without Compost. N. Roe¹, and M.A. Ritenour². ¹Farming Systems Res., Inc. P.O. Box 741112, Boynton Beach, FL 33474. ²UF/IFAS Indian River Res. and Edu. Ctr., Ft. Pierce, FL. (ner@bellsouth.net) [V7]

11:45 End of morning session/Lunch **on your own** (Deli Buffet available in Dining Room (\$12/person))

Monday Afternoon Session (1:20-5:30 pm)

1:20 Welcome and Introductions, Monica Ozores-Hampton

A - Cultural Practices (ctd.)

1:30 Effect of Added Elemental Sulfur on Soil pH and Phosphorus Availability in Sandy Soils. Morgan, K. UF/IFAS South West Florida Res. and Edu. Ctr., Immokalee, FL. (conserv@ufl.edu). [V19]

1:45 The Impacts of Technology Developments in the Florida Pepper Industry on Production Efficiency. J. Vansickle, D.J. Cantliffe, S. Smith, T. Winsburg, and T. Winsburg. UF/IFAS Food Resource Economic Dept., Gainesville, FL. (sickler@ufl.edu) [V9]

B - Control and Management of Insects, Diseases and Weeds

2:00 Organically Approved and Reduced Risk Pest Control Options from Certis USA for Fruiting Vegetable Production. B.H. Highland, Certis USA, 1069 Eisenhower Dr., Nokomis, FL 34275. (bhighland@certisusa.com) [V10]

- 2:15 Incidence and Spread of Strawberry Necrotic Shock Virus (SNSV) on Strawberries in Florida.** C. Moyer, V. Whitaker and N.A. Peres. UF/IFAS Gulf Coast Res. and Edu. Ctr., Wimauma, FL. (nperes@ufl.edu) [V11]
- 2:30 Bacterial Spot Resistant Pepper Trials in Florida.** E. McAvoy¹, M. Ozores-Hampton², R. Raid³, D. Sui⁴, R. Nagata³, K. Pernezny³ and J. Jones⁵. ¹UF/IFAS Hendry County Extension, La Belle, FL; ²UF/IFAS South West Florida Res. and Edu. Ctr., Immokalee, FL; ³UF/IFAS Everglades Res. and Edu. Ctr., Belle Glade, FL; ⁴UF/IFAS Palm Beach County Extension, West Palm Beach, FL; ⁵UF/IFAS Plant Pathology Dept., Gainesville, FL. (gmcavoy@ufl.edu) [V12]
- 2:45 Evaluation of Herbicides for Management of Weeds in Sweet Basil (*Ocimum basilicum*).** D. Sui¹, W. Stall², E. McAvoy³, and R. Raid⁴. ¹UF/IFAS Palm Beach County Extension, West Palm Beach, FL; ²UF/IFAS Horticultural Sciences Dept., Gainesville, FL; ³UF/IFAS Hendry County Extension, LaBelle, FL; ⁴UF/IFAS Everglades Res. and Edu. Ctr., Belle Glade, FL. (dsui@ufl.edu) [V13]
- 3:00** Vegetable section business meeting
- 3:15** Break
- 3:30 Searching for an Ideal Soil Extractant for Determining Sulfur in Sandy Soils.** Esmel¹, C. E., B. M. Santos¹, J.E. Rechcigl¹, G. Toor¹, E.H. Simonne² and J.W. Noling³. ¹UF/IFAS Gulf Coast Res. and Edu. Ctr., Wimauma; ²UF/IFAS Horticultural Sciences Dept., Gainesville and, ³UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred. (Student competition entry; cam13@ufl.edu) [V14]
- 3:45 Movement of the Wetted Front under Drip-irrigated Tomatoes Grown on a Sandy Soil.** Poh¹, B.L., A. Gazula¹, E.H. Simonne¹, R.C. Hochmuth², and M.R. Alligood¹. ¹UF/IFAS Horticultural Sciences Dept., Gainesville, FL. ²UF/IFAS North Florida Res. and Edu. Ctr.-Suwannee Valley, Live Oak, FL. (Student competition entry; pohbeeling@ufl.edu) [V15]
- 4:00 Callus Formation and Plant Regeneration from Kurrat (*Allium ampeloprasum* var. kurrat) and Leek (*Allium ampeloprasum* var. Porrum).** M.Y. Yasseen, Genetic Engineering and Biotechnology Res. Institute, Sadat City, P.O. Box 79/22857, Minufiya University, Egypt. (mohamedyasseen@hotmail.com) [V16]
- 4:15 Discussion**
- 4:30 Fruits and vegetables focus team meeting (G1C6).** Steve Sargent
- 5:30** End of afternoon session

6:00 Industry Reception (Palm Room; *Included in paid conference registration*)

Tuesday Morning Session (9:50-11:45am)

9:50 **Welcome and Introductions**, Danielle Treadwell, VP-elect (ddt@ufl.edu)

10:00 **Effect of Early Season Weed Competition Duration on Onion Yield**. J.J. Sander, J. S. Ludger, and J. Benord. Mont Gerand Université Notre Dame d'Haiti, B.P. 151 Les Cayes, Haiti. (sanderht@yahoo.fr) [V17]

10:15 **Novaluron for Control of Larval Sap Beetles in Strawberries**. J.F. Price and C.A. Nagle, UF/IFAS Gulf Coast Res. and Edu. Ctr., Wimauma, FL. (ifprice@ufl.edu) [V18]

10:30 **Growing and Marketing Eggplant at Local Green Markets in Southeast Florida**. K.D. Shuler, P. N. Shuler, and J. Stephen. Stephen's Produce, 12657 158th St. N, Jupiter, FL 33478. (skshuler@aol.com) [V8]

10:45 **Monitoring Nutrient Availability and Leaching Below the Root Zone in Organic Vegetable Production**. Treadwell¹, D., M. Alligood¹, E. Simonne², R. Hochmuth³, E. Toro⁴, C. Saft⁴ and B. Hoover⁵. ¹UF/IFAS Horticultural Sciences Dept.. ²UF/IFAS Florida Cooperative Extension Service, Gainesville. ³UF/IFAS North Florida Res. and Extension Ctr. - Suwannee Valley, Live Oak, UF. ⁴UF/IFAS Suwannee County Extension. ⁵Hoover Farms, Live Oak, FL. (ddtreadw@ufl.edu). [V20]

11:00 **Improving Irrigation Management for Strawberry Production in Florida**. B.M. Santos¹, M. Ramirez-Sanchez¹, T.P. Salame-Donoso¹, and A.J. Whidden². ¹UF/IFAS Gulf Coast Res. and Edu. Ctr., Wimauma, FL. ²UF/IFAS Hillsborough County Extension, Seffner, FL. (bmsantos@ufl.edu) [V21]

11:15 **Evaluation of Methodologies to Estimate Historical Reference Evapotranspiration in Florida**. E. Gelcer, C. Fraisse and P. Sentelhas. UF/IFAS Agricultural and Biological Engineering Dept., Gainesville, FL. (cfraisse@ufl.edu) [V22]

11:30 **Nutrient Management Programs for Fresh Market Tomatoes Grown with Plasticulture: Economic Insights**. A. Gazula¹, E. Simonne², F. Roka³, G. Hochmuth⁴, M. Dukes⁵, and P. Nkedi-Kizza⁴. ¹UF/IFAS Alachua County Extension, Gainesville, FL. ²UF/IFAS Horticultural Sciences Dept., Gainesville, FL. ³UF/IFAS Food and Resource Economics Dept., Immokalee, FL. ⁴UF/IFAS Soil and Water Science Dept., Gainesville, FL. ⁵UF/IFAS Agricultural and Biological Engineering Dept., Gainesville, Florida. (agazula@ufl.edu) [V23]

11:45 End of program/Extension luncheon (Palm Room; *Event ticket required*)

Vegetable Section Posters:

Using Strawberry Variety Taste Testing to Promote Agricultural Educational and Determine Consumer Preferences. [V24-P-9]

Junior Master Gardeners Explore Alternative Gardening Methods for Growing Fruits, Vegetables and Flowers. [V25-P-10]

Magazine and Online CEU Articles as Possible Models of Edu.al Opportunities for Pesticide Applicators and ASHS Certified Horticulturists. [V26-P-11]

Annie's Project - UF/IFAS Extension Program for Women Producers in Horticulture. [V27-P-12]

Finding Optimum Ratios of Soil Extractants to Determine Plant Available Phosphorus in Florida Calcareous Soils. [V28-P-13]

Building Your Own Farm's Food Safety Manual and Plan. [V29-P-17]

Starting a Successful Hydroponic Business. [V30-P-18]

Vegetable Water Quality/Quantity Best Management Collaboration in West Central Florida. [V31-P-19]

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ORNAMENTAL, GARDEN AND LANDSCAPE SECTION

Ed Skvarch, Presiding

(eask@ufl.edu)

Rosa Raudales, Student Section Assistant

(rosaraudales@ufl.edu)

Sabal D

Monday Morning Session (9:50 – 11:45)

9:50 Welcome and Introductions, Ed Skvarch

A - Pest Management

10:00 Rose (*Rosa spp.*) Nursery Banker Plants. Juanita Popenoe, UF/IFAS Lake County Extension, Tavares, FL, and Lance Osborne, UF/IFAS Mid Florida Res. and Edu. Ctr., Apopka, FL. (jpopenoe@ufl.edu) [OGL1]

10:15 Effects of Solarization against Weeds and Root-knot Nematodes Limited by Weather. R. McSorley and H. K. Gill, UF/IFAS Dept. of Entomology and Nematology, Gainesville, FL. (mcsorley@ufl.edu) [OGL2]

10:30 Efficacy of Fungicides for the Control of *Myrothecium Roridumon* Dieffenbachia Compacta. Robert T. McMillian, Jr. Kerry's Bromeliad Nursery, Homestead, FL 33031. [OGL3]

10:45 Royal Palm Bug, *Xylastodoris luteolus* (Hemiptera: Thaumastocoridae): Control with Soil Applied Systemic Insecticides. A.D. Ali, Davey Institute, The Davey Tree Expert Co., and Doug Caldwell, UF/IFAS Collier County Extension, Ft. Myers, FL. (dougbug@ufl.edu) [OGL4]

B - Student Papers

11:00 Integrated Impact of Soil Solarization and Organic Mulching on Weeds, Insects, Nematodes, and Plant Parameters. H.K. Gill and R. McSorley, UF/IFAS Dept. of Entomology and Nematology, Gainesville, FL. (Student competition entry: simgill@ufl.edu) [OGL5]

11:15 Effects of Potassium on Shade Tolerance of 'Captiva' St. Augustinegrass. Xiaoya Cai, L. Trenholm, J. Kruse, and J.B. Sartain, UF/IFAS Environmental Horticulture Dept., Gainesville, FL. (Student competition entry; xiaoyacai@ufl.edu) [OGL6]

11:30 Performance of Low-maintenance Roses in Central Florida. Joser Mangandi and S. Park Brown, UF/IFAS Gulf Coast Res. and Edu. Ctr., Wimauma, FL. (Student competition entry; mangandi@ufl.edu) [OGL7]

11:45 End of morning session/Lunch *on your own* (Deli Buffet available in Dining Room (\$12/person))

Monday Afternoon Session (1:20-5:00 pm)

1:20 Welcome and Introductions, Ed Skvarch

C - Water Quality and Water Conservation Workshop C1 - Ornamental Production Section

1:30 Water Quality Issues Facing Florida Growers. Brian Boman, UF/IFAS Indian River Res. and Edu. Ctr., Ft. Pierce, FL, and Tom Obreza, UF/IFAS Soil and Water Science Dept., Gainesville, FL. (bjbo@ufl.edu) [OGL8]

1:45 A Survey of Microbial and Organic Load in Nursery Irrigation Water. P.R. Fisher and D.P. Meador, UF/IFAS Environmental Horticulture Dept., Gainesville, FL. (Student competition entry: pfisher@ufl.edu) [OGL9]

2:00 Considerations for Use of Reclaimed Water in the Nursery. Tom Yeager, UF/IFAS Environmental Horticulture Dept., Gainesville, FL. (yeagert@ufl.edu) [OGL10]

2:15 Potential Impacts of Nursery Management Practices on Water Quality. P. Chris Wilson, UF/IFAS Indian River Res. and Edu. Ctr., Ft. Pierce, FL. (pcwilson@ufl.edu) [OGL11]

2:30 The Importance of Water Quality for Food Safety. Alicia Whidden, UF/IFAS Hillsborough County Extension, Seffner, FL. (awhidden@ufl.edu) [OGL12]

C2. Lawn / Landscape Section

2:45 Nutrient Leaching from Lawngresses – 6 Years of Data. Laurie E. Trenholm, UF/IFAS Environmental Horticulture Dept., Gainesville, FL. (letr@ufl.edu) [OGL13]

3:00 Using Reclaimed Water in the Urban Landscape: Issues and Opportunities. G. J. Hochmuth, UF/IFAS Soil and Water Science Dept., Gainesville, FL. (hoch@ufl.edu) [OGL14]

3:15 The Limited Commercial Fertilizer Applicator Certificate and the Green Industries Best Management Practices (GI-BMP) Training Requirements. D.P. Rainey, UF/IFAS Sarasota County Extension, Sarasota, FL. (drainey@ufl.edu) [OGL15]

3:30 Ornamental, Garden and Landscape section business meeting

3:45 Break

C3. Hands-on Water Quality Training Sessions

4:00 Monitoring the Concentration of Sanitizing Agents and Oxidation-Reduction Potential (ORP) in Irrigation Water. Paul R. Fisher, J. Huang, and D.P. Meador. UF/IFAS Environmental Horticulture Dept., Gainesville, FL. (pfisher@ufl.edu) [OGL16]

4:15 New Techniques for Determining Microbial Levels in Irrigation Water. P.R. Fisher, D.P. Meador, and R.E. Raudales. UF/IFAS Environmental Horticulture Dept., Gainesville, FL. (pfisher@ufl.edu) [OGL17]

4:30 Measuring and Managing pH, Electrical Conductivity, and Alkalinity. Connie Johnson and Tom Yeager, UF/IFAS Environmental Horticulture Dept., Gainesville, FL. (yeagert@ufl.edu) [OGL18]

4:45 Discussion

5:00 End of afternoon session

6:00 Industry Reception (Palm Room; *Included in paid conference registration*)

Tuesday Morning Session (9:50-11:45am)

9:50 Welcome and Introductions, Mike Orfanedes, VP-elect (morf@ufl.edu)

D - Recycling / Energy

10:00 Installation of a Bioretention/rain Garden to Mitigate Agricultural Irrigation Runoff from a Container Plant Nursery. Alex Bolques¹, J. Cherrier², M. Abazinge², and G. Matungwa², ¹FAMU Gadsden County Extension, Quincy, FL; ²Environmental Sciences Institute, Florida A&M

University, Tallahassee, FL. (abol@ufl.edu) [OGL19]

10:15 Description and Performance of Four *Eucalyptus grandis* Cultivars Released by UF/IFAS in 2009. Bijay Tamang and D. L. Rockwood, UF/IFAS School of Forest Resources and Conservation, Gainesville, FL. (bijay@ufl.edu) [OGL20]

E - Garden & Landscape

10:30 Bringing Master Gardening to Costa Rica. A. Bolques, FAMU, Dan F. Culbert, A.G.B. Hunsberger, H. Mayer, D. Marshall, L. Seals, and P. Vergot, UF/IFAS; L.N. Bulgarelli, and B.K. Singh, EARTH University, Cost Rica. (indianco@ufl.edu) [OGL21]

10:45 Communicating Landscape Freeze Damage to the Public in Charlotte County. Ralph E. Mitchell, UF/IFAS Charlotte County Extension, Port Charlotte, FL. (shadowed@ufl.edu) [OGL22]

11:00 A Methodology for Building Community Leader Support for Good Tree Care. Michael S. Orfanedes, UF/IFAS Broward County Extension, Davie, FL. (morf@ufl.edu) [OGL23]

11:15 Evaluating How Accurately Lawn Fertilizers Are Applied Using Homeowner Equipment. K. Stauderman, UF/IFAS Volusia County Extension, Deland, FL; R. Royal, Sunniland Corp., Sanford, FL; and, S.P. Arthurs, UF/IFAS Mid Florida Res. and Edu. Ctr., Apopka, FL. (kstauderman@ufl.edu) [OGL24]

11:30 Water Quality Ordinances Affecting the Lawn & Ornamental Care Service Industry. E. Santella, TruGreen Region Technical Manager, 2820 US Highway 441/27, Fruitland Park, FL 34731. (erica_santella@landcare.com) [OGL25]

11:45 End of program/Extension luncheon (Palm Room; *Event ticket required*)

Ornamental, Garden and Landscape Section Posters:

An Educational Model to Facilitate Mandated Environmental Behavior Change. [OGL26-P-1]

A Hands-on Course to Improve the Professionalism of "Green Industries" Personnel. [OGL27-P-2]

Making the Grade: Restricted-use Pesticide Exam Preparation Workshops in Duval County. [OGL28-P-3]

Commercial Ornamental Plant Diagnostic Clinic. [OGL29-P-4]

The Urban Conservation Unit: Promoting Water Conservation for Residential Irrigation Systems. [OGL30-P-5]

Creating Wildlife Habitat and Reducing Mowing Costs. [OGL31-P-6]

Designing an Integrated Pest Management Program for Hispanic Landscape Maintenance Professionals. [OGL32-P-7]

11:15 The Role of Research and Extension in Establishment of a Florida Stone Fruit Industry. Mercy A. Olmstead, UF/IFAS Horticultural Sciences Dept., Gainesville, FL. (mercy1@ufl.edu) [K6]

11:30 Damage to Low Chill Peach Trees from Ice Accumulation During Severe Winter Freezes in North and North Central Florida. Jeffrey G. Williamson¹, Robert C. Hochmuth² and E. Paul Miller¹. ¹UF/IFAS Horticultural Sciences Dept., Gainesville, FL. ²UF/IFAS North Florida Res. and Edu. Ctr.-Suwannee Valley, Live Oak, FL. (jgrw@ufl.edu) [K7]

11:45 End of morning session/Lunch *on your own* (Deli Buffet available in Dining Room (\$12/person))

Monday Afternoon Session (1:20-5:00 pm)

1:20 Welcome and Introductions, Pete Andersen and Mehboob Sheikh (Mehboob.sheikh@fam.u.edu)

1:30 Deciduous Fruit Crop Demonstration Area at Water Conserv II Project in Central Florida. Gary K. England¹ and Ryan A. Atwood². ¹UF/IFAS Sumter County Extension, Bushnell, FL. ²UF/IFAS Lake County Extension, Tavares, FL. (gke@ufl.edu) [K8]

1:45 Summer 2009 Blueberry Herbicide Evaluations. Gary K. England¹, William M. Stall² and K. R. Muzyk³. ¹UF/IFAS Sumter County Extension, Bushnell, FL. ²UF/IFAS Horticultural Sciences Dept., Gainesville, FL. ³Gowan Company, Brandon, FL. (gke@ufl.edu) [K9]

2:00 Blueberry Gall Midge: A Key Pest of Southern Highbush and Rabbiteye Blueberries. Oscar E. Liburd and C R. Roubos, UF/IFAS Entomology and Nematology Dept., Gainesville, FL. (oeoliburd@ufl.edu) [K10]

2:15 Blackberry Production using Primocane Suppression. Robert T. Boozer¹ and Arlie A. Powell². ¹Chilton Res. and Extension Ctr., Auburn University, Clanton, AL. ²Dept. of Horticulture, Auburn University. (boozer@auburn.edu) [K11]

2:30 Benefits and Challenges of Sheltered Blackberry Production. Robert T. Boozer and J. A. Pitts, Chilton Res. and Extension Ctr., Auburn University, Clanton, AL. (boozer@auburn.edu) [K12]

2:45 Assessment of Genetic Diversity among Selected Raspberry Cultivars. Gohar Umar¹, Hemanth K.N. Vasanthaiah², Devaiah Kambiranda², Sheikh M. Basha², Bobby R. Phills¹, and Wayne Hunter³. ¹Small Fruit Laboratory, Ctr. for Viticulture and Small Fruit Res., Florida A&M University, Tallahassee, FL. ²Plant Biotechnology Lab, Ctr. for Viticulture and Small Fruit Res., Florida A&M University, Tallahassee, FL. ³U.S. Horticultural Res. Laboratory, Ft. Pierce, FL. (gohar1@hotmail.com) [K13]

Fresh Squeezed Juice: Nutrients and Phytonutrients. Jinhe Bai, Bryan L. Ford, John Manthey, Gary Luzio and Elizabeth Baldwin. USDA-ARS, Citrus & Subtropical Products Laboratory, Winter Haven, FL. (Jinhe.Bai@ARS.USDA.GOV) [HP3]

10:45 CC4 Conductivity Detector for Determination of Degree of Esterification of Citrus Pectin. Gary A. Luzio. USDA-ARS Citrus and Subtropical Products Laboratory, Winter Haven, FL. (Gary.Luzio@ARS.USDA.GOV) [HP4]

11:00 Aseptic Processing of Citrus Pulp. Elizabeth Northeimer. JBT FoodTech, Citrus Systems, Lakeland, FL. (Elizabeth.Northeimer@JBTC.COM) [HP5]

11:15 Laser Labeling of Valencia Oranges Does not Facilitate Growth or Penetration of *Salmonella* Present on the Peel Surface. Michelle Danyluk, Preeti Sood, Lisseth Pronoro, Loretta Friedrich, and Ed Etxeberria. UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL. (mddanyluk@ufl.edu) [HP6]

11:30 Improved Removal of Ascorbate Interference in the Folin-Ciocalteu Assay of “Total Phenolic Content”. Bryan L. Ford, Jinhe Bai, John Manthey, and Elizabeth A. Baldwin. USDA-ARS Citrus & Subtropical Products Lab., Winter Haven, FL. (Bryan.Ford@ARS.USDA.GOV) [HP7]

11:45 End of morning session/Lunch *on your own* (Deli Buffet available in Dining Room (\$12/person))

Monday Afternoon Session (1:20-5:15 pm)

1:20 Welcome and Introductions, Michelle Danyluk

B - Student Presentations

1:30 The Relative Contributions of Ascorbic Acid and Phenolic Compounds to the Total Antioxidant Capacity of Acerola (*Malpighia emarginata* DC) Juices. L. Delva and R. M. Goodrich. UF/IFAS Dept. of Food Science and Human Nutrition, Gainesville, FL. (Student competition entry: lemanedelva@ufl.edu) [HP8]

1:45 Daily Intake of Pasteurized Orange Juice Decreases Serum Cholesterol, Fasting Glucose and Diastolic Blood Pressure in Adults. L. G. Basile, C. G. Lima, T. B. César. Paulista University (UNIP), São José do Rio Preto, São Paulo, Brazil, Faculty of Pharmaceutical Sciences, São Paulo State University, Araraquara, São Paulo, Brasil. (Student competition entry: liviabasile13@yahoo.com.br) [HP9]

2:00 Effects of Growing Location, Storage Temperature, and Fruit Coating on Postharvest Quality and Quality Retention of Sugar Belle™ Mandarin. Mark A. Ritenour¹, Fred G. Gmitter², Cuifeng Hu¹, Sambhav¹, William S. Castle², and Jude W. Grosser². ¹UF/IFAS Indian River Res. and Edu. Ctr., Ft. Pierce, FL; ²UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL. (Student competition

entry: sambhav@ufl.edu) [HP10]

2:15 Polygalacturonase Activity Does not Fully Explain Textural Differences of Melting Flesh Versus Non-melting Flesh Peaches. Ming-Wei S. Kao, Jeffrey K. Brecht, and Donald J. Huber. UF/IFAS Horticultural Sciences Dept., Gainesville, FL. (Student competition entry: kaoming@ufl.edu) [HP11]

2:30 Evaluation of Roma Tomato (*Lycopersicon esculentum*) Peeling Methods: Conventional vs. Power Ultrasound. Cheryl Rock, Wade Yang, Akshay Anugu, and Jyotsna Nooji. UF/IFAS Dept. of Food Science and Human Nutrition, Gainesville, FL. (Student competition entry: cherylrock@ufl.edu) [HP12]

2:45 Survival of *Salmonella* spp. on Lime Slices. Rachel McEgan and Michelle D. Danyluk. UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL. (rmcegan@ufl.edu) [HP24]

3:00 Handling & Processing section business meeting

3:15 Break

C- Citrus Greening and Canker

3:30 Fractionation of the Secondary Metabolites of Orange (*Citrus sinensis* L.) Leaves by Fast Centrifugal Partition Chromatography. John A. Manthey, USDA-ARS. Citrus and Subtropical Products Laboratory, Winter Haven, FL. (John.Manthey@ARS.USDA.GOV) [HP14]

3:45 Aroma Differences between HLB/greening Symptomatic and Control 'Valencia' Orange Juice. Lilibeth Dagulo¹, Michelle Danyluk¹, Renee Goodrich², Charles Sims², Filomena Valim³, Timothy Spann¹, Russell Rouseff¹ UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL; ²UF/IFAS Food Science and Human Nutrition Dept., Gainesville, FL; ³Florida Dept. of Citrus, Scientific Res. Dept., Lake Alfred, FL 33850. (rlr@crec.ifas.ufl.edu) [HP15]

4:00 Preharvest Measures for Postharvest Improvement in Marketable Fresh Citrus. J. Narciso, Citrus and Subtropical Products Res. Lab., USDA-ARS, Winter Haven, FL. (Jan.Narciso@ARS.USDA.GOV) [HP16]

4:15 Commercial Packinghouse Practices Used to Handle Fresh Citrus Fruit with Canker Symptoms. Mark A. Ritenour¹, Lucimeire Pilon¹, Ron Muraro², and Jan Narciso³. ¹UF/IFAS Indian River Res. and Edu. Ctr., Ft. Pierce; ²UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL; ³USDA, ARS Citrus & Subtropical Products Lab., Winter Haven, FL. (ritenour@ufl.edu) [HP17]

D – Postharvest

4:30 Electronic Nose for Detecting Strawberry Fruit Maturity. X. F. Du, R. L. Rouseff, J. H. Bai, A. Plotto, E. Baldwin, and V. Whitaker. UF/IFAS Citrus Res. and Edu.

Ctr., Lake Alfred, FL; USDA-ARS Citrus and Subtropical Products Res. Lab., Winter Haven, FL; UF/IFAS Gulf Coast Res. and Edu. Ctr., Wimauma, FL. (Xiaofen.Du@oregonstate.edu) [HP18]

4:45 Using a Postharvest Alkaline Wash to Extend Shelf-life of Papaya. Jan Narciso, J. Bai, E. Baldwin, A. Plotto, and C. Ference. USDA-ARS Citrus and Subtropical Products Res. Lab., Winter Haven, FL. (Jan.Narciso@ARS.USDA.GOV) [HP19]

5:00 Discussion

5:15 End of afternoon session

6:00 Industry Reception (Palm Room; *Included in paid conference registration*)

Tuesday Morning Session (9:50-11:30am)

9:50 Welcome and Introductions, Alvin Cheng, VP-elect (Alvin.cheng@jbt.com)

D – Postharvest (ctd.)

10:00 Effect of Postharvest Application of 1-MCP on Basil Shoot Quality During Storage at Chilling Temperature. Adrian D. Berry and Steven A. Sargent, UF/IFAS Horticultural Sciences Dept., Gainesville, FL. (adberry@ufl.edu) [HP20]

10:15 Potential of 1-Methylcyclopropene to Delay Ripening and Extend Quality of Avocado Fruit During Refrigerated Storage. Steven A. Sargent, Adrian D. Berry, Marcio E.C. Pereira, and Donald J. Huber. UF/IFAS Horticultural Sciences Dept., Gainesville, FL. (sasa@ufl.edu) [HP21]

10:30 Maturity and Postharvest Performance of ‘US Early Pride’ Seedless Mandarins. Greg McCollum, C. Jack Hearn, and Mark Ritenour. USDA-ARS, USHRL, Ft. Pierce, FL; UF/IFAS Indian River Res. and Edu. Ctr., Ft. Pierce, FL. (Greg.McCollum@ARS.USDA.GOV) [HP22]

E – Postharvest and Processing

10:45 Modified Atmosphere Packaging for Fresh-cut ‘Kent’ Mango. Sharon Dea, Jeffrey K. Brecht, Cecilia do Nascimento Nunes, and Jean-Pierre Émond, UF/IFAS Horticultural Sciences Dept.; UF/IFAS Dept. of Food Science and Human Nutrition Dept., Gainesville, FL; College of Technology & Innovation, University of South Florida Polytechnic, FL. (Sharon.Dea@ARS.USDA.GOV) [HP23]

11:00 Eating Quality of Old and New University of Florida Strawberry Cultivars. Anne Plotto, Vance Whitaker, and Craig Chandler. USDA-ARS Citrus and Subtropical Products Res. Lab., Winter Haven, FL and UF/IFAS Gulf Coast Res. and Edu. Ctr., Wimauma, FL.

11:15 Interaction of CMNP Application and Harvest Date of 'Hamlin' Sweet Orange. Robert C. Ebel, UF/IFAS South West Florida Res. and Edu. Ctr., Immokalee, FL; J.K. Burns, UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL; K.M. Morgan, and F. Roka, UF/IFAS, SWFREC, Immokalee, FL. (rcebel@ufl.edu) [C6]

11:30 Citrus Stumps Sprout Control. Steve H. Futch, UF/IFAS, Citrus Res. and Edu. Ctr., Lake Alfred, FL, and S. Weingarten, Orange Co., Arcadia, FL. (shf@ufl.edu) [C7]

11:45 Assay of Citrus Seed for Viable *Xanthomonas citri* pv. *citri* (Xcc) after Extraction from Fruit Affected by Citrus Canker. Jim Graham, UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL; Mike Irey, US Sugar Corp., Clewiston, FL; and Chuck Reed, Reed Brothers Citrus, Dundee, FL. (jhgraham@ufl.edu) [C26]

12:00 End of morning session/Lunch *on your own* (Deli Buffet available in Dining Room; \$12/person)

Monday Afternoon Session (1:20-5:30 pm)

1:20 Welcome and Introductions, Bob Ebel

A - Production (ctd.)

1:30 Alion 200SC – A Promising New Herbicide for Weed Management in Florida Citrus. Steve H. Futch, UF/IFAS, Citrus Res. and Edu. Ctr., Lake Alfred, FL; M. Edenfield and J. Curtis, Bayer CropSciences, Morriston, FL. [C8]

1:45 Estimating Relative Nutrient Uptake by Mature Citrus Trees in Field Conditions. K. Mann, A. Schumann, L. Waldo, K. Hostler, and R. Mann, UF/IFAS, Citrus Res. and Edu. Ctr., Lake Alfred, FL. [C9]

2:00 Phosphite is not a Good Source of Phosphorus for Citrus Rootstock Seedlings. F.C.B. Zambrosi, F.C.B., Instituto Agronômico, Campinas, San Paulo, Brazil; D. Mattos Júnior and J.P. Syvertsen, UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL. [C10]

2:15 Rootstocks for 'Parson Brown' Sweet Orange. William S. Castle and J.C. Baldwin, UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL. [C11]

2:30 Impact of Inflation on the U.S. Orange Juice Tariff and the Competitiveness of Florida Growers and Processors. R.A. Morris, UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL. [C12]

2:45 Effect of Salicylic Acid on Oxidative Metabolism During Xac Infection of Grapefruit. N. Kumar, R.C. Ebel, and P.D. Roberts, UF/IFAS South West Florida Res. and Edu. Ctr., Immokalee, FL. [C13]

3:00 Citrus section business meeting

3:15 Break

A - Production (ctd.)

3:15 Copper Formulations and Duration of Activity for Control of Citrus Canker on Grapefruit. J. Graham, M. Dewdney, and M. Myers, UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL. [C14]

3:30 Screening Program for Products that are Reported to Stimulate Systemic Acquired Resistance Against Bacterial Canker. R.C. Ebel, N. Kumar, and P. Roberts, UF/IFAS South West Florida Res. and Edu. Ctr., Immokalee, FL. [C15]

3:45 Broad Spectrum Insect Control with MOVENTO® (Spirotetramat) in Florida Citrus. M. Edenfield, R. Morris, and J. Bell, Bayer CropScience, Res. Triangle Park, NC. [C16]

4:00 Effect of Stimplex® Crop Biostimulant on Drought Tolerance of Container-grown 'Hamlin' Sweet Orange Trees. Timothy M. Spann, UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL and Holly A. Little, Acadian Agritech, Sacramento, CA. [C17]

B - Huanglongbing

4:15 A Comparison of Common and Different Volatiles in 'White' Guava and 'Hamlin' Orange Leaves. E. Onagbola, J. Smoot, L. Stelinski and R. Rouseff, UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL. [C18]

4:30 Ground Application of Foliar Sprays of Insecticides on 'Valencia' Oranges to Control *Diaphorina citri* Kuwayama. J.A. Qureshi, J.A., B.C. Kostyk, and P.A. Stansly, UF/IFAS South West Florida Res. and Edu. Ctr., Immokalee, FL. [C19]

4:45 Managing Huanglongbing (Citrus Greening) with Foliar-applied Nutrient Sprays and SAR Inducers: Guiding Principles. T.M. Spann and A.W. Schumann, UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL.; K.T. Morgan and R.E. Rouse, UF/IFAS South West Florida Res. and Edu. Ctr., Immokalee, FL. [C22]

5:00 Discussion

5:30 End of afternoon session

6:00 Industry Reception (Palm Room; *Included in paid conference registration*)

Tuesday Morning Session (9:50-11:30am)

9:50 Welcome and Introductions, Ryan Atwood, VP-elect (raatwood@ufl.edu)

B- Huanglongbing (ctd.)

10:00 HLB/ACP Resistance or Tolerance in Non-transgenic Citrus Scion Varieties: Potential Commercial Significance? E. Stover, G. McCollum, B. Shatters, D. Hall, and Y. Duan, USDA/ARS USHRL, Ft. Pierce, FL. [C21]

10:15 Possible Resistance to Huanglongbing in Sweet Orange. R.H. Brlansky, and W.S. Castle, UF/IFAS Citrus Res. and Edu. Ctr., Lake Alfred, FL; S. B. Garrett Citrus Grower, Haines City, FL. [C20]

10:30 Monitoring Trees in a Commercial Grove with HLB in Southwest Florida Receiving a Nutritional/SAR Cocktail. R.E. Rouse, UF/IFAS South West Florida Res. and Edu. Ctr., Immokalee, FL; M. Irey, U.S. Sugar Corporation, Southern Gardens Citrus Corp., FL; P.D. Roberts, UF/IFAS, SWFREC, Immokalee, FL, M.M. Boyd and T.D. Willis, McKinnon Corporation, Immokalee, FL. [C23]

10:45 Observations Gleaned from the Testing at the Southern Gardens HLB Diagnostic Laboratory: Three Years and 150,000 Samples Later. Irey, M.S., J. Johnson, P. Gadea, and T. Gast, United States Sugar Corporation, Southern Gardens Citrus Corporation, FL, and J. H. Graham and O. Cutino, UF/IFAS, CREC, Lake Alfred, FL. [C24]

11:00 Optical Methods for Huanglongbing (HLB) Detection in Citrus Orchards. S. Sankaran and R. Ehsani, UF/IFAS Citrus Res. and Extension Ctr., Lake Alfred, FL. [C25]

11:15 Discussion

11:30 End of program

11:45 Extension luncheon (Palm Room; *Event ticket required*)

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SCSSF PROGRAM

Samira Daroub, Presiding
(sdaroub@ufl.edu)

Sabal B

Monday Morning Session (10:00 - 11:45am)

10:00 Welcome and Introductions, Samira Daroub

A - Graduate Student Forum

10:15 Agronomy: Developing Novel Crops for Bioresource Production. Scott J. Edmundson*, School of Natural Resources and Environment, and Ann C. Wilkie, Soil and Water Science Dept., UF/IFAS. [SC1]

10:30 Biofertilizer Potential of Food Waste Anaerobic Digestion on Small Farms. Ryan E. Graunke*, School of Natural Resources and Environment, and Ann C. Wilkie, Soil and Water Science Dept., UF/IFAS. [SC2]

10:45 Immobilization of Cu in Contaminated Soils Using Ca Water Treatment Residuals. Jinghua Fan*, Zhenli He, Lena Q. Ma and Peter J. Stofella, Soil and Water Science Dept., UF/IFAS. [SC3]

11:00 Evaluation of Fungicides on White Mold of Peanuts. Samuel Glucksman*, Doctor of Plant Medicine Program and Charles R. Semer, IV, Clinical Trials Coordinator, UF/IFAS. [SC4]

11:15 Herbage Accumulation and Nutritive Value of Bahiagrass Genotypes under Two Defoliation Intensities. D.R. Pereira*, L.E. Sollenberger, and A.R. Blount, Agronomy Dept., UF/IFAS. [SC5]

11:30 Response of 'Floritam' St. Augustinegrass and 'Empire' Zoysiagrass to Phosphorus Supply in Hydroponic Culture. Ronald F. Gonzalez*, Jerry B. Sartain, George A. O'Connor, Thomas A. Obreza and Willie Harris, Soil and Water Science Dept., and Jason Kruse, Environmental Horticulture Dept. UF/IFAS. [SC6]

11:45 End of morning session/Lunch *on your own* (Deli Buffet available in Dining Room (\$12/person))

Monday Afternoon Session (1:20 - 5:30pm)

1:20 Welcome and Introductions, Samira Daroub

B - Symposium on Reclaimed Water

1:30 Florida Dept. of Environmental Protection: Reuse Regulations, Status and Trends. Shanin Speas-Frost, Water Reuse/Wastewater Wetlands Coordinator,

Florida Dept. of Environmental Protection. [SC7]

1:55 The Role of Reclaimed Water In the Southwest Florida Water Management District's Long-range Water Supply Plan. Carl P. Wright, Senior Water Conservation Analyst, Southwest Florida Water Management District. [SC8]

2:20 Economics of Using Reclaimed Water. Ted McKim, Civil Engineer, Reddy Creek Energy Services, Walt Disney World. [SC9]

2:45 - 3:00 Break

3:00 Reclaimed Water and Water Quality. Lawrence Parsons, Citrus Res. and Edu. Ctr., UF/IFAS. [SC10]

3:25 Making the Most of Plant Nutrients Contained in Reclaimed Water. George J. Hochmuth, Soil and Water Science Dept., UF/IFAS. [SC11]

3:50 What's in Reclaimed Water and Where Does it Go? Gurpal S. Toor, Soil and Water Quality Laboratory, Gulf Coast Res. and Edu. Ctr., UF/IFAS. [SC12]

4:30 Presentation of Graduate Student Paper Awards.

5:00 Annual Meeting of Soil and Crop Science Society of Florida.

5:30 End of session

6:00 Industry Reception (Palm room; *Included in paid conference registration*)

Tuesday Morning Session (8:20-9:45am)

8:20 Welcome and Introductions, Samira Daroub

8:30 Water Use of Potential Tallgrass Biofuel Crops in Florida. John E. Erickson*, Lynn E. Sollenberger, Jeffrey Fedenko, and Kenneth Woodard, Agronomy Dept., UF/IFAS. [SC13]

8:45 Can Elevated CO₂ Promote Water-use Efficiency and Radiation-use Efficiency of Water-limited C₄ Maize and Grain Sorghum above that of Well-watered Plants? Leon Hartwell Allen, Jr.*, Joseph C.V. Vu, USDA, ARS and Vijaya Gopal Kakani, Plant and Soil Sciences Dept, Oklahoma State Univ., and Kenneth J. Boote, Agronomy Dept., UF/IFAS. [SC14]

9:00 Floc Production and Nutrient N, P Releases During the Decay of Submerged Aquatic Vegetation (SAV) in the Everglades Wetland - A Laboratory Incubation Study. Y.G. Yang, Z.L. He*, Y.B. Wang, and P.J. Stoffella, Indian River Res. and Edu. Ctr., UF/IFAS, and D.B. Ivanoff and M. Korvela, South Florida Water

IN-SERVICE TRAINING AND PRODUCER WORKSHOP

MARKETING VALUE-ADDED HORTICULTURAL COMMODITIES ECONOMICALLY AND SAFELY

Amy Simonne, Organizer
(asim@ufl.edu)

1:30 Introduction and Welcome, Amy Simonne, UF/IFAS Family, Youth and Community Sciences Dept., Gainesville, FL

1:45 Overview of Food Safety Issues related to Value-added Horticultural Commodities, Amy Simonne

2:00 Biology, Microbiology and Control of Pathogens, Michelle Danyluk, UF/IFAS Food Science and Human Nutrition Dept., Gainesville, FL.

2:30 Requirements of Current Rules and Regulations, Inspector or Representative from FDACS.

3:00 Bringing Food Safety Concepts to Small Farms, Mickie Swisher, UF/IFAS Family, Youth and Community Sciences Dept., Gainesville, FL.

3:30 Special Issues Facing the Farmers' Market Setting. Sharon Yeago, President, Farmers Market Coalition, High Springs, FL.

4:00 Discussion and Program Evaluation

5:00 End of program

EXTENSION LUNCHEON SPEAKERS

Mr. Kevin Morgan, 2010
Dr. Jim Horne, 2009
Mr. Armando Campos, 2008
Mr. Ted Winsberg, 2007
Mr. Chuck Obern, 2006
Dr. Larry Arrington, 2005

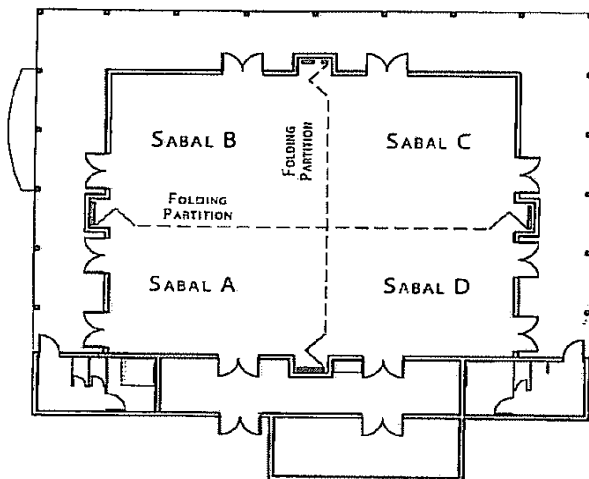


NOTES



2010 PLANTATION INN AND SPA MAP

SABAL BALLROOM



EXECUTIVE CONFERENCE CENTER

