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### **MARK YOUR CALENDARS!**

THE 2009 JOINT ANNUAL MEETING OF THE  
FLORIDA STATE HORTICULTURE SOCIETY  
AND THE  
SOIL AND CROP SCIENCE SOCIETY OF FLORIDA

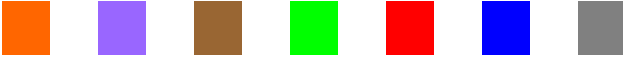
WILL BE HELD

June 7 to 9, 2009  
at the Windham Riverwalk  
in Jacksonville, Florida

***WELCOME***  
**TO THE**  
**2008**  
**JOINT ANNUAL MEETING**  
**OF THE**  
**FLORIDA STATE**  
**HORTICULTURE SOCIETY**  
**AND THE**  
**SOIL AND CROP SCIENCE**  
**SOCIETY OF FLORIDA**

***June 1 to 4***

**Ft. Lauderdale Marriott North**  
**6650 N. Andrews Ave.**  
**Ft. Lauderdale, Florida**



## PROGRAM OVERVIEW

<b>Registration Desk Hours</b>	<i>Assembly Foyer</i>
Sunday June 1	2:00 PM – 7:00 PM
Monday June 2	7:00 AM – 6:00 PM
Tuesday June 3	7:00 AM - Noon

**Sunday Afternoon**

- 2:00 - 4:00      FSHS Board of Directors Mtg.      *Intracoastal*
- 3:00 - 5:00      SCSSF Board of Directors Mtg.      *Sawgrass*
- 5:00 - 6:00      Awards Ceremony      *Cypress Salon D*
- Awards announcements: *Peter McLure*
- Feature presentation: *Paul Driscoll, Citrus Consultant*

**”Changing Times in FSHS”**

- 6:00 - 7:00      Welcome Reception      *Cypress Salon A/B/C*
- Silent Auction, *George Fitzpatrick*      *CS A/B/C*

**Monday Morning**

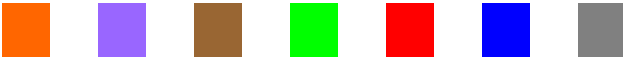
- 7:00 - 8:00      Continental Breakfast      *Cypress Salon D*
- Professional development seminar: *Steve Rogers, Scientific Coordinator, FCPRAC*

**”Digital Imaging and Photoshop for Agricultural Scientists”**

- 8:30 - 9:45      Joint General Session      *Cypress Salon D*
- 8:30      Introduction and Welcome
- 8:40      Presidential Addresses:  
*Jim Syvertsen, President, FSHS*  
*Thomas Obreza, President, SCSSF*
- 9:00      General Session Keynote Speaker:  
*Florida Agriculture Commissioner Charles Bronson*

**”Horticulture in Florida: A Pensacola to Key West Perspective from Tallahassee”**

- Questions and answers
- 10:00 - Noon      Concurrent Morning Sessions  
*(Continuing Education Units are approved)*
- Citrus      *Cypress Salon D*
- Handling & Processing      *Salon C*
- Krome Memorial Institute      *Salon B*
- Ornamental, Gardening & Landscape      *Intracoastal*



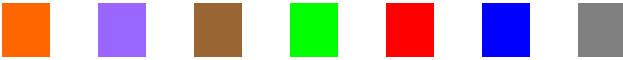
- Vegetable *Atlantic/Gulf Stream*
- SCSSF Sessions *Salon A*
- 12:00 Lunch (on your own)  
*Assembly Foyer*

**Monday Afternoon**

- 1:30 - 3:00 Concurrent Afternoon Sessions
  - Citrus *Cypress Salon D*
  - Handling & Processing *Salon C*
  - Krome Memorial Institute *Salon B*
  - Ornamental, Gardening & Landscape *Intracoastal*
  - Vegetable *Atlantic/Gulf Stream*
  - SCSSF Sessions *Salon A*
- 3:00 - 3:15 Sectional Business Meetings
- 3:15 - 3:30 Break
- 3:30 - 5:00 Concurrent Afternoon Sessions
  - Citrus *Cypress Salon D*
  - Handling & Processing *Salon C*
  - Krome Memorial Institute *Salon B*
  - Ornamental, Gardening & Landscape *Intracoastal*
  - Vegetable *Atlantic/Gulf Stream*
  - SCSSF Sessions *Salon A*
- 5:15 - 6:00 Vegetable/Fruit Focus Team Meeting *Atlantic/Gulf Stream*
- 6:00 - 7:00 Industry Reception *Royal Palm Ballroom*

**Tuesday Morning**

- 7:00 - 8:30 Horticultural Breakfast *Salon A/B*  
Invited Speaker: *Terril Nell, Professor and Chair, UF/IFAS Environmental Horticulture Dept.*  
**“Horticultural Challenges and Opportunities:  
2008 and Beyond”**
- 8:30 - 9:45 Concurrent business meetings:  
FSSH Annual Business Meeting *Cypress Salon D*
  - Student Best Paper Competition Awards, *Rose Reyes*
  - Historical Perspectives: *Ed Etxeberria***“A History of the FSSH proceedings (II):  
Volumes 50 to 75 (1938 to 1963)”**
- SCSSF Annual Business Meeting *Salon A*
- 10:00 - Noon Concurrent Morning Sessions
  - Citrus *Cypress Salon D*



- Handling & Processing Salon C
  - Krome Memorial Institute Salon B
  - Ornamental, Gardening & Landscape Intracoastal
  - Vegetable Atlantic/Gulf Stream
  - SCSSF Sessions Salon A
- 

**Tuesday**

**Afternoon**

**UF/IFAS EXTENSION IN-SERVICE TRAINING PROGRAM**

*(Continuing Education Units are approved)*

*Co-sponsored by*

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

12:00 - 1:15 Extension Luncheon Salon A/B

Invited Speaker: *Armando Campos, Vice-President of Sales, Douglas Fertilizer & Chemical Inc.*

**“Transforming Science into Technology: Opportunities for Extension in a Constantly Changing Environment”**

1:30 - 5:00 Phytosanitary inspections and quarantine treatments of imported fruits, vegetable, and floral crops.

In-Service Training Program Atlantic/Gulf Stream

**Wednesday Morning**

7:30 - 11:00 Meet in front of hotel for tour of APHIS facilities at Miami International Airport (pre-registration required; round-trip transportation provided; checkout from hotel before leaving for tour)

**END OF MEETING**

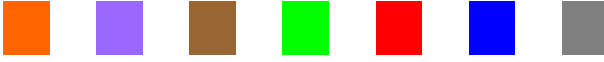
**EXTENSION LUNCHEON  
SPEAKERS SERIES**

Mr. Armando Campos, 2008

Mr. Ted Winsberg, 2007

Mr. Chuck Obern, 2006

Dr. Larry Arrington, 2005



**FLORIDA STATE HORTICULTURAL  
SOCIETY  
2007-2008  
BOARD OF DIRECTORS**

<b>Chairman of the Board</b>	Peter McLure
<b>President</b>	Jim Syvertsen
<b>Sectional Vice-Presidents:</b>	
<i>Citrus</i>	Kelly Morgan
<i>Krome Memorial Institute</i>	Jeff Williamson
<i>Ornamental, Gardening, Landscape</i>	Juanita Popenoe
<i>Handling &amp; Processing</i>	Gary Luzio
<i>Vegetable</i>	Craig Chandler
<b>Secretary and Treasurer</b>	Jeff Brecht
<b>Editor</b>	Ed Etxeberria
<b>Sectional Editors:</b>	
<i>Citrus</i>	Jim Syvertsen
<i>Handling &amp; Processing</i>	John Manthey
<i>Krome Memorial Institute</i>	Ed Etxeberria
<i>Ornamental, Gardening, Landscape</i>	Robert Stamps
<i>Vegetable</i>	Sal Locascio
<b>Marketing Coordinator</b>	Mark Ritenour
<b>Members At-Large</b>	William Castle
	Fritz Roka
<b>Program Coordinator</b>	Eric Simonne

**SOIL AND CROP SCIENCE  
SOCIETY OF FLORIDA  
2008 OFFICERS**

<b>President</b>	Tom Obreza
<b>President-Elect</b>	Robert McGovern
<b>Secretary-Treasurer</b>	Ken Boote
<b>Director (2008)</b>	Samira Dahoub
<b>Director (2009)</b>	Billy Crow
<b>Director (2010)</b>	Jacque Bremen

**2008 MEETING FACILITATORS**

<b>Meeting Coordinator</b>	Tracy Shawn
<b>Local Arrangement Coordinator</b>	George Fitzpatrick
<b>Sponsorship Coordinator</b>	Gene Albrigo
<b>Student Best Paper Competition Coordinator</b>	Jose Reyes
<b>Continuing Education Units Coordinator</b>	Alicia Whidden



## **DISPLAYS DURING THE MEETING**

**Agricultural BMP Programs in Florida.** *Jemy Hinton,*  
UF/IFAS BMP Implementation Team, GCREC, Wimauma

**ARL/ESTL Analytical Services.** *Rao Mylavarapu,* UF/IFAS Soil  
and Water Sciences Department

**Bringing Plant Potential to Life.** *John Taylor and Pablo  
Perez,* Syngenta Corp.

**Broward County Tree Trimmer Licensing Ordinance.**  
*Michael Orfanedes, Michelle Leonard and John  
Pipoly,* Broward County Extension, Ft. Lauderdale

**Citrus Mechanical Harvesting and Abscission Program.**  
*Barbara Hyman,* UF/IFAS Southwest Florida Research &  
Education Center, Immokalee

**Emerging Pests in Florida – Division of Plant Industries,  
Florida Department of Agriculture and Consumer  
Services.** *Luis Lodyga,* FDACS, Miami

**Florida's Bevy of BMP Manuals: Voluntary Programs to  
Protect Water Resources.** *Thomas Obreza, Brian Boman,  
and Eric Simonne,* UF/IFAS Soil and Water Sciences  
Department, Gainesville

**Horticultural Art: Paintings, Prints and Murals.** *Effie Lewis,* Fine  
Arts Studio, Pembroke Pines

**IPM Florida: Resources for You to Use.** *Denise Thomas,*  
UF/IFAS Entomology and Nematology, Gainesville

**Oriental and Tropical Vegetables.** *Teresa Olczyk and Mary  
Lamberts,* Miami-Dade County Extension, Homestead

**The Grower.** *Mike Stockwell,* Meister Media

**UF/IFAS Florida Agriculture Weather Network (FAWN).** *Rick  
Lusher,* UF/IFAS FAWN, Gainesville

**UF/IFAS Protected Agriculture Project.** *Dan Cantliffe and Nicole  
Shaw,* Horticultural Sciences Department, Gainesville

**Tropical Fruits.** *Jonathan Crane,* UF/IFAS Tropical Research  
and Education Center, Homestead

\* \* \* \* \*



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

## **2008 MEETING SPONSORS**

### ***Gold Level Sponsor (above \$2,000)***

*Florida Citrus Production  
Research Advisory Council*

### ***Silver Level Sponsor (\$1,000–1,999)***

*Bayer CropScience*

*Double K Groves, Inc.*

*Grove Tractor Service Inc.*

*OXBO International*

*UF/IFAS Soil and Water Science Department*

### ***Bronze Level Sponsor (\$250–\$999)***

*BASF Freshseal*

*Helena*

*Syngenta Crop Protection*

## **2008 FSHS PATRON MEMBERS**

*Dr. Ed Etxeberria*

*Dr. Jim Syvertsen*

\* \* \* \* \*





## **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](mailto:fshsproc@ashs.org).

Manuscripts to be considered as "refereed" have to be submitted electronically at the time of the meeting for proper review.

For refereed and non-referred 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>

\* \* \* \* \*

### **VOLUNTEERS NEEDED!**

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



## HORTICULTURAL ATTRACTIONS IN THE FT. LAUDERDALE AREA

**Flamingo Gardens**, 3570 Flamingo Road, in Davie (22 miles SW of the hotel) is a 60-acre botanical garden that was designed and planted beginning in 1930 by Frank Stirling, a former FSHS president (1948-49). Flamingo Gardens is the home of the largest collection of Champion Trees in the State of Florida, mostly tropical species that would not survive in areas colder than USDA zone 10. For those interested in history, the restored home of Floyd L. Wray, former Hollywood municipal judge and the original owner of the grove, is decorated as it was in the 1930s. Open 7 days, 9:30 AM to 5:30 PM. General admission is \$17.00, with discounts for children, seniors, and students. ([www.flamingogardens.org](http://www.flamingogardens.org); 954-473-2955)

**Bonnet House**, 900 North Birch Road, in Fort Lauderdale (8 miles SE of the hotel), is a 35-acre beachfront estate built in 1920 by Frederick Clay Bartlett, the prominent landscape painter. Although best known for their interest in the arts and philanthropy, the Bartletts were consummate gardeners who were widely known for the lush tropical landscaping of their estate as well as for their extensive orchid collection, which is still on display. Mrs. Bartlett donated the estate to the State of Florida, which currently manages it as a state park. Open Tuesday through Saturday, 10:00 AM to 4:00 PM, Sundays 12:00 noon to 4:00 PM, closed Mondays. General admission is \$20.00; Discounts are available for children and seniors. ([www.bonnethouse.org](http://www.bonnethouse.org); 954-563-5393)

**Butterfly World**, 3600 West Sample Road, in Coconut Creek (7 miles NW of the hotel), is a 10-acre collection of aviaries and gardens housing the largest collection of living butterflies and their host plants in the State of Florida. Open 7 days, 11:00 AM to 5:00 PM. General admission is \$21.95; Discounts are available for children. ([www.butterflyworld.com](http://www.butterflyworld.com); 954-977-4400)

**Fern Forest**, 201 Lyons Road, South, in Coconut Creek (5 miles NW of the hotel), is a 243-acre county park that contains one of the northernmost tropical hardwood hammocks in Florida, as well as bald cypress and low hammock habitats. Marked trails and elevated boardwalks allow visitors to see tropical hardwood hammock vegetation similar to that in the Florida Keys and other islands to the south. Open 7 days, 8:00 AM to 6:00 PM. Free admission (information can be found on the Broward County Parks and Recreation Division website: [www.broward.org/parks](http://www.broward.org/parks); Park phone number is 954-970-0150)

**The closest beach to our meeting hotel** is at Lauderdale-By-The-Sea (bounded on the south and west sides by Fort Lauderdale and on the north by Pompano Beach), east of the intersection of State Road A1A and East Commercial Boulevard (about 4.5 miles SE of the hotel). There is a spectacular living coral reef within 100 yards of the shore. Maps and directions will be posted at the registration desk.

\* \* \* \* \*

# JOINT PROGRAM SCHEDULE

## FSHS PROGRAM

(\* = STUDENT COMPETITION PRESENTER)

## CITRUS SECTION

*Kelly Morgan, Presiding*

*Cypress Salon D*

### Monday Morning Session

10:00-12:00

#### A-Mechanical Harvest

- 10:00 **Scheduling the Harvest of Florida Oranges to Maximize Juice Production.** Jacob Searcy\*, Fritz Roka, and Thomas Spreen, Food Resource Economics Department, UF/IFAS, Gainesville, FL. [C1]
- 10:15 **The Economic Value of Abscission for Mechanically Harvest Late-season 'Valencia' Oranges.** German Blanco\*, Fritz Roka and Jackie Burns. UF/IFAS, Food Resource Economics Department, Gainesville, FL, Southwest Florida Research and Education Center, Immokalee, FL and Citrus Research and Education Center, Lake Alfred, FL. [C2]
- 10:30 **Interaction of Drought Stress and CMNP on Abscission of Oranges.** Robert C. Ebel, Kelly Morgan, Peter Newman, Jacqueline K. Burns, and Jim Syvertsen, UF/IFAS Southwest Florida Research and Education Center, Immokalee, FL and Citrus Research and Education Center, Lake Alfred, FL. [C3]

#### B-Weather Data Collection and Management Inputs

- 10:45 **The Florida Automated Weather Network: Ten Years of Providing of Weather Information to Florida Growers.** William R. Lusher, John L. Jackson, and Kelly T. Morgan, UF/IFAS, Gainesville, FL and Southwest Florida Research and Education Center, Immokalee, FL. [C4]
- 11:00 **El Niño-Southern Oscillation Effects on Freeze Probabilities in Florida,** Clyde Fraisse, Howard Hu, and Guillermo Baigoria. UF/IFAS, Agricultural and Biological Sciences Department, Gainesville, FL. [C5]
- 11:15 **Citrus Cold Weather Protection and Irrigation Scheduling Tool Using Florida Automated Weather Network Data.** John L. Jackson, Kelly T. Morgan, and William R. Lusher, UF/IFAS, Gainesville, FL and Southwest Florida Research and Education Center, Immokalee, FL. [C6]

11:30 **Glyphosate and Carfentrazone Tank-mix for Hard-to-control Weeds in Citrus.** Shiv D Sharma, M. Singh and S.H. Ftuch. CREC, UF/IFAS, Lake Alfred, FL. [C7]

11:45 Discussion

12:00 End of morning session/Lunch

### Monday Afternoon Sessions

1:30-5:00

#### C – Workshop: Greening, Canker, and Psyllid Management

1:30 **Metabolite Profiling of Healthy and Huanglongbing-infected Citrus Leaves: Work in Progress.** Juan M. Cevallos\* and José I. Reyes De Corcuera, CREC, UF/IFAS, Lake Alfred, FL. [C8]

1:45 **How the Florida Citrus Production Research Advisory Council Works Together with Other Industry Organizations for Solutions to the Greening Crisis.** Steve Rodgers, Ecostat, Inc., Highland City, FL. [C9]

2:00 **Means and Pathways for Long-range Movement of Citrus Greening in Florida.** Susan Halbert, Manjunath Keremane and Chandrika Ramadugu, Division of Plant Industry, Fla. Dept. of Agriculture and Consumer Services, LaBelle, FL. [C10]

2:15 **Real-Time PCR Increases Efficiency and Sensitivity for Testing Citrus Budwood Source Trees.** Peggy J. Sieburth, Karen Nolan, Richard Dexter and Steve Alderman. Bureau of Citrus Budwood Registration, Division of Plant Industry, Fla. Dept. of Agriculture and Consumer Services, Winter Haven, FL. [C11]

2:30 **Greening Effects on Fruit Size Distribution in a Citrus Tree.** Tim Spann, CREC, UF/IFAS, Lake Alfred, FL, and Chris Oswalt, Polk County Extension, Bartow, FL. [C12]

2:45 **Progress in Manipulating Citrus Defense Pathways in Favor of Citrus Resistance Against Greening and Canker.** Abeer Adhed Khalaf, Vicente J. Febres, Frederick G. Gmitter, and Gloria A. Moore, CREC, UF/IFAS, Lake Alfred, FL. [C13]

3:00 Citrus Section Business Meeting

3:15 Break

3:30 **Greenhouse Investigations on the Effect of Guava on Infestations of Asian Citrus Psyllid in Citrus.** D.G. Hall, T.R. Gottwald, N.M. Chau, K. Ichinose, L.Q. Dien, and G.A.C. Beattie. [C14]

3:45 **Evaluation of Low-volume Application Technologies for Psyllid Control: Initial results.** Ryan Atwood, Lukasz Stelinski and Masoud Salyani.,

Lake County Extension, UF/IFAS, Tavares, FL, and CRCEC, Lake Alfred, FL. [C15]

- 4:00 **Impact of Insecticidal Control on Asian Citrus Psyllid and its Natural Enemies.** Jawwad, A. Qureshi, Alejandro H. Arevalo, and Philip A. Stansly. SWFREC, UF/IFAS, Immokalee, FL. [C16]
- 4:15 **Dynamics of Mortality Factors of the Citrus Psyllid in South Florida.** Jorge E. Peña, R.E. Duncan and Josep A. Jacas. CREC, Lake Alfred, FL. [C17]
- 4:30 **Streptomycin Controls Citrus Canker in Brazil and Florida and Reduces Risk of Copper Phytotoxicity on Grapefruit.** J.H. Graham, CREC, UF/IFAS, Lake Alfred, FL; R.P. Leite, Jr., Instituto Agronômico do Paraná, Londrina, Paraná, Brazil; and, H.D. Yonce, KAC Agricultural Research, Inc. Deland, FL. [C18]
- 4:45 **Combating Huanglongbing and Canker via Genetic Engineering of Citrus.** M. Dutt, A. Omar, V. Orbovic, G. Barthe, J. Gmitter, M. Vasconcellos, C. Dunning and J.W. Grosser, CREC, UF/IFAS, Lake Alfred, FL. [C19]
- 5:00 End of Afternoon Sessions

## **Tuesday Morning Sessions**

**10:00-12:15**

### **D-Citrus Horticultural Management**

- 10:00 **Citrus Best Management Practices: Efforts and Achievements in Florida.** Geovanne Stingenen, BMP Project, UF/IFAS, Immokalee, FL. [C20]
- 10:15 **Spectral Differentiation of Young Flush and Old Citrus Leaves.** M. Salyani, R. Ehsani, A. Mishra, and R. Sweeb. CREC, UF/IFAS, Lake Alfred, FL. [C21]
- 10:30 **Results of Ground and Foliar Application of Nitamin Urea Polymer to Citrus.** Gene Albrigo, CREC, UF/IFAS, Lake Alfred, FL. [C22]
- 10:45 **Microbial Soil Amendments do Little to Improve Citrus Tree Performance in Florida Soils.** A.W. Schumann, J.P. Syvertsen, and J.H. Graham, CREC, UF/IFAS, Lake Alfred, FL. [C23]
- 11:00 **Rootstocks Affect the Yield and 16-Year Survival of 'Valencia' Trees Grown in Immokalee.** Bill Castle, CREC, UF/IFAS, Lake Alfred, FL. [C24]
- 11:15 **Growth, Tree Survival, and Juice Quality of Early-Season Sweet Oranges Grown on Seven Rootstocks in Immokalee.** Bill Castle, CREC, UF/IFAS, Lake Alfred, FL. [C25]
- 11:30 **In Vitro Germination of Citrus Seed to Produce Seedlings for Genetic Transformation.** R.P. Niedz, U.S. Horticultural Research Laboratory, ARS-USDA, Ft. Pierce, FL. [C26]

- 11:45 **The Likelihood and Consequences of Introduction of the Spherical Mealybug, *Nipaecoccus viridis*, into Florida, and its Effects on Citrus Production.** D.D. Thomas, Plant Medicine Program, Plant Pathology Dept., UF/IFAS, Gainesville, FL. [C27]
- 12:00 **Considering the Citrus Grove of the Future.** Ed Stover, USDA, Fort Pierce, FL, and William S. Castle, CREC, UF/IFAS, Lake Alfred, FL. [C28]
- 12:15 **Incorporation of Air Temperature into a Model That Predicts Loosening of Oranges by CMNP.** Robert C. Ebel, SWFREC, UF/IFAS, Immokalee, and Jacqueline K. Burns, CREC, UF/IFAS, Lake Alfred, FL. [C29]
- 12:30 End of meeting/Extension luncheon

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## HANDLING & PROCESSING SECTION

### *Gary Luzio, Presiding*

*Salon C*

#### Monday Morning Session

**10:00-12:00**

#### **A - Fruit Quality and Postharvest Physiology**

- 10:00 **Optimization of Strawberry Volatile Sampling by Odor Representativeness.** Celine Jouquand, Craig Chandler, GCREC, UF/IFAS, Wimauma, FL and Anne Plotto, USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven, FL. [HP1]
- 10:15 **Effect of Early Detection of Greening on Juice Flavor and Chemistry.** Anne Plotto and Elizabeth Baldwin, USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven, FL; Greg McCollum, USDA/ARS, USHRL Fort Pierce, FL; and, Mike Irey, US Sugar Corporation, Clewiston, FL. [HP2]
- 10:30 **Consumer Evaluation of New Tangerine Hybrids from the UF-CREC Citrus Breeding Program.** M. Filomena Valim, Florida Dept. of Citrus, Lake Alfred, FL, Fred G. Gmitter Jr., Citrus Research and Education Center, UF, Lake Alfred, FL, Anne Plotto and Elizabeth Baldwin, USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven, FL. [HP3]
- 10:45 **Improving Tomato Flavor.** Elizabeth A. Baldwin, USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven, FL, John W. Scott, GCREC, UF/IFAS, Wimauma, FL; and, Charles Sims, Food Science & Human Nutrition Dept., UF/IFAS, Gainesville, FL. [HP4]

- 11:00 **Effect of Controlled Atmosphere on *In Vivo* Oxygen Levels of Tomato Fruit.** Adrian D. Berry and Steven A. Sargent, Horticultural Sciences Dept., UF/IFAS, Gainesville, FL. [HP5]
- 11:15 **Characterization of Citrus Flower Headspace Volatiles Using SPME and GC-MS.** Fatima Jabalpurwala\*, Russell Rouseff, and Jack Smoot, CREC, UF/IFAS, Lake Alfred, FL. [HP6]
- 11:30 **Fruit Quality and Aroma Characteristics of 'Red Moon' Specialty Red-fleshed Cantaloupe (*Cucumis melo* L.).** Jeanmarie M. Mitchell\*, Daniel J. Cantliffe, Steven A. Sargent, Denise Tieman, Harry J. Klee, Horticultural Sciences Dept., UF/IFAS; and, Peter J. Stoffella, IRREC, UF/IFAS, Fort Pierce, FL. [HP7]
- 11:45 **Are Fruit Firmness and Calcium Content Associated in Strawberry?** Camille E. Esmel, John R. Duval, Eric H. Simonne, Steve A. Sargent, and Bielinski M. Santos, GREC, UF/IFAS, Wimauma, FL. [HP8]
- 12:00 End of morning session/Lunch

#### Monday Afternoon Sessions

1:30- 3:00

#### B - Pre-harvest and Postharvest Studies

- 1:30 **Weight Loss During Simulated Retail Display Affects Color and Chlorophyll Content of Cucumber.** Cecilia N. Nunes, Food Science and Human Nutrition Dept., UF/IFAS, Sharon Dea, Horticultural Sciences Dept., UF/IFAS; and, Jean-Pierre Emond, Agricultural and Biological Engineering Dept., UF/IFAS, Gainesville, FL. [HP9]
- 1:45 **Force Distribution Along a Tree Branch During Harvesting of Citrus by a Canopy Shaker.** Sajith Kumar Udumala Savary\* and Reza Ehsani, CREC, UF/IFAS, Lake Alfred, FL. [HP10]
- 2:00 **Effect of Citrus Tree Canopy on the Signal Strength of a ZigBee-Based Multi-Node Wireless Sensor Network.** Raghav Panchapakesan\*, Reza Ehsani, and M. Hebel, CREC, Lake Alfred, FL. [HP11]
- 2:15 **The Use of 1-Methylcyclopropene (1-MCP) on Fresh-cut Fruits and Vegetables.** Jinhe Bai and Elizabeth Baldwin, USDA/ARS Citrus & Subtropical Products Lab, Winter Haven, FL. [HP12]
- 2:30 **Spectral Discrimination of Healthy vs. HLB-Infected Citrus Trees in the VIS-NIR Range.** Ashish R. Mishra\*, Reza Ehsani, D. Lee, and Gene Albrigo, CREC, UF/IFAS, Lake Alfred, FL. [HP13]
- 2:45 **Differences in Secondary Metabolites in Leaves from Trees Affected with the Greening (HLB) Disease.** John A. Manthey, USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven, FL. [HP14]

3:00 Handling and Processing sectional business meeting

3:15 Break

**3:30-5:00**

### **C - Postharvest Studies**

3:30 **Impact of Environmental Conditions During Distribution on Tomato Fruit Quality and Decay.** Sharon Dea\*, Jeffrey K. Brecht, Horticultural Sciences Dept., UF/IFAS, Cecilia M. N. Nunes, Food Science and Human Nutrition Dept., UF/IFAS, Jean-Pierre Emond, and Khe V. Chau, Agricultural and Biological Engineering Dept., UF/IFAS, Gainesville, FL. [HP15]

3:45 **Detection of Microbial Populations on Freshly Packed Florida Valencia Oranges.** John Zhang, Florida Department of Citrus, Lake Alfred, FL. [HP16]

4:00 **Effects of Hydroxyl Ion Fumigation on Postharvest Pathogens.** Greg McCollum, Ric Stange, and Darel Resch, USDA/ARS U.S. Horticultural Research Laboratory, Fort Pierce, FL. [HP17]

4:15 **Microbiological Evaluation of Mechanically-harvested Citrus Fruit.** Michelle D. Danyluk, Lori M. Friedrich and Reza Ehsani, CREC, UF/IFAS, Lake Alfred, FL. [HP18]

4:30 **Temperature Mapping of a Pineapple Supply Chain.** Cecillia Amador, Jean-Pierre Emond, Agricultural and Biological Engineering Dept., UF/IFAS; and, Cecilia N. Nunes, Food Science and Human Nutrition Dept., UF/IFAS, Gainesville, FL. [HP19]

4:45 **Effect of Wax Coating, Fungicide Treatment and Storage on Antioxidant Content and Associated Physiological Changes in Satsuma Mandarin.** Floyd M. Woods, Julie H. Campbell, W.A. Dozier, Jr., Junbae Jee, Robert C. Ebel, Dept. of Horticulture, Auburn Univ., Auburn, AL; Chang Y. Lee, Dept. of Food Science and Technology, Cornell University, Geneva, NY; Monte Nesbitt and Randy McDaniel, Gulf Coast Research and Extension Center, Fairhope, AL. [HP20]

5:00 End of afternoon session

### **Tuesday Morning Sessions**

**10:00-11:30**

### **D - Quality and Uses of Citrus Products**

10:00 **Effects of Laser Labeling on the Quality of Citrus Fruit During Storage.** Preeti Sood, and Ed Etxeberria, CREC, UF/IFAS, Lake Alfred, FL; Chris Ference and Jan Narciso, USDA/ARS, Citrus & Subtropical Products Lab, Winter Haven, FL. [HP21]



- 10:15 **Technical and Economic Assessments of Ethanol Production from Citrus Peel Waste.** Weiyang Zhou, Wilbur Widmer, and Karel Grohmann, USDA/ARS Citrus & Subtropical Products Lab, Winter Haven, FL. [HP22]
- 10:30 **Biosorption Properties of Citrus Peel Derived Oligogalacturonides, Enzyme-modified Pectin and Peel Hydrolysis Residues.** Randall G. Cameron, Gary A. Luzio, and Wilbur W. Widmer, USDA/ARS Citrus & Subtropical Products Lab, Winter Haven, FL; and, M. Iqbal, Biotechnology and Food Research Centre, Lahore, Pakistan. [HP23]
- 10:45 **Microwave Extraction of Citrus Peel to Release Pectin Using a Closed Vessel Reactor.** Gary Luzio, USDA/ARS Citrus & Subtropical Products Lab, Winter Haven, FL. [HP24]
- 11:00 **Removal of Furanocoumarins in Grapefruit Juice by Four Edible Fungi.** Kyung Myung, Jan A. Narciso, and John A. Manthey, USDA/ARS Citrus & Subtropical Products Lab, Winter Haven, FL. [HP25]
- 11:15 **Effect of Pre- and Postharvest Factors on Fresh Citrus Peel Breakdown.** Mark A. Ritenour, Brian J. Boman, Cuifeng Hu, Indian River Research and Education Center, UF/IFAS, Fort Pierce, Jacqueline K. Burns, Citrus Research and Education Center, UF/IFAS, Lake Alfred and Jean Bertrand Contina, Pan-American Agricultural School, Zamorano, Honduras. [HP26]
- 11:30 Discussion
- 12:00 End of meeting/Extension luncheon

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## **KROME MEMORIAL INSTITUTE** ***Jeff Williamson, Presiding***

*Salon B*

### **Monday Morning Session**

**10:00-12:00**

#### **A- Tropical Fruits: Pest Management**

- 10:00 **Effect of Pesticides on Pests Affecting Tropical Fruit.** Jorge E. Peña and R. E. Duncan, TREC, UF/IFAS, Homestead, FL; and J. Jacas, Universita Jaume I, Castellon, Spain. [K1]
- 10:15 **Biology, Parasitoids and Damage of *Leptoglossus zonatus* and *Leptoglossus gonagra* (Heteroptera: Coreidae) on Citrus in Colombia.** S.A. Irwin Duarte, Facultad de Ciencias, Escuela de Biología, Universidad Industrial de Santander, Bucaramanga-Colombia, Ligia Nuñez, Fundación para el Desarrollo Integrado del Campo (FUNDIC), Bucaramanga-

Colombia, J. E. Peña, TREC, UF/IFAS, Homestead, FL; and, Libardo Pinto, Grupo de Prevención y Erradicación de Riesgos Fitosanitarios, Instituto Colombiano Agropecuario, Bucaramanga-Colombia. [K2]

- 10:30 **Microlepidoptera Complex Affecting Sapodilla, (*Manilkara zapota* van Royen) in Florida.** Lisa Myers, Ministry of Agriculture and Lands, Jamaica, J.E. Peña and R. Duncan, TREC, UF/IFAS, Homestead, FL; and, J.B. Heppner, Division of Plant Industry, FDACS. [K3]

#### **B- Tropical Fruits: Breeding, Culture and Management**

- 10:45 **The IFAS Center for Tropical Agriculture.** Richard E. Litz, Director, Center for Tropical Agriculture, TREC, UF/IFAS, Homestead, FL. [K4]

- 11:00 **Response of Mamey Sapote (*Pouteria sapota*) Trees to Flooding in a Very Gravelly Loam Soil in the Field.** Mark Nickum\*, Jonathan Crane and Bruce Schaffer, TREC, UF/IFAS, Homestead, FL; and, Fred Davies, Horticultural Sciences Dept., UF/IFAS, Gainesville, FL. [K5]

- 11:15 **Breeding and Selection of Mangos for Florida.** Richard J. Campbell and N. Ledesma, Fairchild Tropical Botanic Garden, Homestead, FL; and, G. Zill, Zill High Performance Plants, Boynton Beach, FL. [K6]

- 11:30 **Effect of Foliar-applied Acids and FeSO<sub>4</sub> on Iron Content and Greenness of Lychee Leaves.** Jonathan H. Crane, B. Schaffer, Y. C. Li, E.A. Evans, W. Montas and C. Li, TREC, UF/IFAS, Homestead, FL. [K7]

- 11:45 **Challenges for High Tunnel Production of White Guava in Southern Virginia.** A. Ray Rafie and C. D. Mullins, Virginia State University, Petersburg, Virginia. [K8]

12:00 End of morning session/Lunch

#### **Monday Afternoon Sessions**

**1:30-5:15**

#### **C- Temperate Fruits: Pest Management**

- 1:30 **Control of Caribbean Fruit Fly on Three Peach Cultivars in Adjuntas, Puerto Rico.** Sara Ramos, María Librán and José Morales, Dept. of Horticulture, University of Puerto Rico, PR, Ángel González, Crop Protection, Univ. of Puerto Rico, Robert Rouse and Phil Stansley, SWFREC, UF/IFAS, Immokalee, FL; Annette Wszelaki, Univ. of Tennessee, Knoxville, TN; and, Evelio Hernández, UPR-Research Center, Adjuntas, PR. [K9]

- 1:45 **Thrips Monitoring in Florida Blueberries.** G.K. England, Sumter County Extension, UF/IFAS, E.M. Rhodes and O.L. Liburd, Entomology and Nematology Dept., UF/IFAS, Gainesville, FL. [K10]

- 2:00 **Monitoring and Phenology of Thrips in Southern Highbush Blueberries.** Oscar E. Liburd, Teresia Nyoike, and Alejandro Arevalo, Entomology and Nematology Dept., UF/IFAS, Gainesville, FL. [K11]

#### **D – Blueberry: Culture and Management**

- 2:15 **Florida's Commercial Blueberry Industry: Past, Present and Future.** Ken Patterson, General Manager, Island Grove Ag Products, Island Grove, and SE Representative for the United States Highbush Blueberry Council. [K12]

- 2:45 **Performance of Highbush Blueberries in North Florida.** Peter C. Andersen, NFREC, UF/IFAS, Quincy, FL, Jeffrey G. Williamson, E. Paul Miller and Paul M. Lyrene, Horticultural Sciences Dept., UF/IFAS, Gainesville, FL. [K13]

- 3:00 Krome Memorial Institute sectional business meeting

- 3:15 Break

#### **D- Blueberry: Culture and Management (continued)**

- 3:30 **Commercial Blueberry Production Methods in Hillsborough County.** Alicia Whidden, Hillsborough County Extension, UF/IFAS, Seffner, FL. [K14]

- 3:45 **Effect of Fertilizer Rate on Growth and Yield of Container-grown Southern Highbush Blueberry.** Wendy L. Wilber, Alachua County Extension, UF/IFAS, and Jeffrey G. Williamson, Horticultural Sciences Dept., UF/IFAS, Gainesville, FL. [K15]

#### **E-Temperate Fruits: Breeding and Cultivar Evaluation**

- 4:00 **Application of Embryo Rescue in Grape (*Vitis*) Cultivar Development.** Xia Xu, Jiang Lu, Danae Dalling, Huang Hong, Clifford Louime, Zhongbo Ren, Fitz Bradley, and Rashad Reed, Center for Viticulture and Small Fruit Research, Florida A&M University, Tallahassee, FL. [K16]

- 4:15 **Chestnut (*Castanea sp.*) Cultivar Evaluations for North Florida.** Robert C. Hochmuth, L.L. Davis, W.L. Laughlin, and A.L. Warner, NFREC-Suwannee Valley, UF/UFAS, Live Oak, FL. [K17]

#### **F- Stone Fruits: Culture and Management**

- 4:30 **Preliminary Results on the Performance of Low-chill Stone Fruit Cultivars in North-Central Florida.** Paul Miller and Jeffrey G. Williamson, Horticultural Sciences Dept., UF/IFAS, Gainesville, FL. [k18]

- 4:45 **Incidence of Blind Node Development of Four Low-chill Peach Cultivars in Three Locations in Florida.** T.W. Wert, Jeffrey G. Williamson, J.X. Chaparro, and E.P. Miller, Horticultural Sciences Dept., UF/IFAS, Gainesville, FL; and, R.E. Rouse, SWFREC, UF/IFAS, Immokalee, FL. [K19]

- 5:00 **Climate influences Fruit Shape of Peach in Florida.** T.W. Wert, Jeffrey G. Williamson, J.X. Chaparro, and E.P. Miller, Horticultural Sciences Dept., UF/IFAS, Gainesville, FL; and, R. E. Rouse, SWFREC, Immokalee, FL. [K20]
- 5:15 End of Meeting

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## ORNAMENTAL, GARDEN AND LANDSCAPE SECTION

### *Juanita Popenoe, Presiding*

*Intracoastal*

#### Monday Morning Session

10:00-12:00

#### A – Best Management Practices, Irrigation and Soils

- 10:00 **Use of Manure to Grow Impatiens (*Impatiens wallerana* Hook.f.).** Kimberly K. Moore FLREC, UF/UFAS, Ft. Lauderdale, FL. [GL1]
- 10:15 **Trees, Urban Environments and Soil Volumes.** Jimmy Socash, JFS Design Inc., and Henrique Mayer, Miami-Dade County Extension, UF/IFAS, Homestead, FL. [GL2]
- 10:30 **Irrigation Scheduling Using Evapotranspiration-based Irrigation Controllers in Florida.** Stacia L. Davis\* and Michael D. Dukes, Agricultural and Biological Engineering Dept., UF/IFAS, Gainesville, FL; and, Grady L. Miller, Turfgrass Science, North Carolina State University, Raleigh, NC. [GL3]
- 10:45 **Growing Medium Effects on The Establishment of *Muhlenbergia capillaris*.** J.J. Muchovej<sup>1</sup>, O.U. Onokpise<sup>1</sup>, M.J. Williams<sup>2</sup>, and K. Livingston<sup>1</sup>, <sup>1</sup>Florida A&M University, Tallahassee, FL; <sup>2</sup>USDA-ARS, Gainesville, FL. [GL4]
- 11:00 **Evaluation of Irrigation Control on Turfgrass Quality and Root Growth** Mary Shedd, Michael D. Dukes, Agricultural and Biological Eng. Dept., UF/IFAS, Gainesville, FL; and, Grady L. Miller, Turfgrass Science, North Carolina St. Univ., Raleigh, NC. [GL5]
- 11:15 **Evaluations of New Controlled-release Fertilizers for Use in Production of Interiorscape and Landscape Plants.** R.H. Stamps, J. Chen, and S. Natarajan, Environmental Horticulture Dept., UF/IFAS; and, J. Popenoe, Lake County Extension. [GL6]
- 11:30 **Update on Fertilizer Ordinances and BMP Education for the Green Industries.** Laurie E. Trenholm, Environmental Horticulture Dept., UF/IFAS, Gainesville, FL. [GL7]

- 11:45 Discussion
- 12:00 End of morning session/Lunch

### Monday Afternoon Sessions

1:30- 3:00

#### B – Pests and Integrated Pest Management

- 1:30 **Cercospora Leaf Spot Caused by *Cercospora Dendrobii* on Dendrobium and its Control.** Robert T. McMillan, Jr., Kerry's Nursery, Inc., Homestead, FL; Aaron J. Palmateer and Wagner A. Vendrame, TREC, UF/IFAS, Homestead, FL. [GL8]
- 1:45 **Designing an Integrated Pest Management Program for Hispanic Landscapers.** H. Mayer, Miami-Dade County Extension, UF/IFAS; E.A. Skvarch, St. Lucie County Extension, UF/IFAS; P.R. Mattis, Duval County Extension, UF/IFAS; and, R. Jordi, Nassau County Extension, UF/IFAS. [GL9]
- 2:00 **Developing a Bilingual Video / Video Podcast to Teach Clients How to Control a New Pest, the Fig Whitefly.** Mary Lamberts, Henrique Mayer, Ruben Regalado, Adrian Hunsberger and Catharine Mannion, Miami-Dade County Extension, UF/IFAS, Homestead, FL. [GL10]
- 2:15 **The Truth about Staining and Black Olive Trees, *Bucida buceras*: (Combretaceae).** Douglas L. Caldwell, Collier County Extension, UF/IFAS, LaBelle, FL. [GL11]
- 2:30 **Observations on the Erythrina Gall Wasp, *Quadrastichus erythrinae* (Hymenoptera: Eulophidae), an Adventive Insect Pest in Florida.** F.W. Howard, UF/IFAS. [GL12]
- 2:45 **Response of Cut Flowers and Bedding Plants to Root-knot Nematodes.** Namgay Om, Robert McSorley, and John J. Frederick, Entomology and Nematology, Dept., UF/IFAS, Gainesville, FL. [GL13]
- 3:00 Ornamental, Gardening and Landscape sectional business meeting
- 3:15 Break
- 3:30 **TAME Invasives Portal: A Solution For Your Life.** K.T. Gioeli, St Lucie County Extension, UF/IFAS. [GL14]
- 3:45 **Trap Cropping: A Farm-Scale and Philosophy-Neutral Suppression Tactic for the Major Pesticiferous Genera of Stink and Leafhopper Bugs in the Southern U.S.** R. F. Mizell, III, and T. C. Riddle, NFREC, UF/IFAS, Quincy, FL. [GL15]
- 4:00 **Comparison of Ramete and Genete Establishment for *Imperata cylindrica*.** J.J. Muchovej, O.U. Onokpise, and S. Bambo, Florida A&M University, Tallahassee, FL. [GL16]

- 4:15     **Using Banker Plants as a Biocontrol System for Spidermites and Whiteflies.** Lelan Parker and Juanita Popenoe, Lake County Extension, UF/IFAS. [GL17]
- 4:30     **Natural Solutions for Your Gardening Life.** G.K. England, Sumter County Extension, UF/IFAS. [GL18]
- 4:45     **Evaluation of Biofungicides for Control of Powdery Mildew of Gerbera Daisy.** Catalina Moyer and Natalia A. Peres, GCREC, UF/IFAS, Wimauma, FL. [GL19]
- 5:00     End of afternoon session

**Tuesday Morning Sessions**

**10:00-11:30**

**D-Cultivars and Education**

- 10:00    **An Ecological Assessment of the Urban and Urbanizing Forests of the Tampa Bay Watershed.** M.G. Andreu, and M.H. Friedman, School of Forest Resources and Conservation, UF, Gainesville, FL; Landry, S., University of South Florida; and, R.J. Northrop, Hillsborough County Extension, UF/IFAS. [GL20]
- 10:15    **Caladium Breeding: Progress in Developing Lance-leaved Cultivars.** Zhanao Deng and Brent K. Harbaugh, GCREC, UF/IFAS, Wimauma, FL. [GL21]
- 10:30    **Fort Lauderdale Trial Garden – Year 6 (2007-2008).** Kimberly K. Moore and Luci Fisher, FLREC, UF/IFAS, Fr. Lauderdale, FL. [GL22]
- 10:45    **Providing Core Continuing Education Units in Partnership with a Regional Commercial Nursery Horticulture Magazine.** Edward A. Skvarch, St. Lucie County Extension, UF/IFAS. [GL23]
- 11:00    **Shade Tolerance in St. Augustinegrass Cultivars.** Laurie E. Trenholm, Environmental Horticulture Dept, UF/IFAS, Gainesville, FL. [GL24]
- 11:15    **Identification of the Four Forms Of Plumeria Rubra.** Stephen H. Brown, Lee County Extension, UF/IFAS. [GL25]
- 11:30    Discussion
- 12:00    End of meeting/Extension luncheon

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# VEGETABLE SECTION

## *Craig Chandler, Presiding*

*Atlantic/Gulf Stream*

### Monday Morning Session

10:00-12:00

#### A - Everything Tomato

10:00 **Evaluation of Nitrogen Rates and Irrigation Programs for Tomato Production in West Central Florida.** Bielinski M. Santos, GCREC, UF/IFAS, Wimauma, FL. [V1]

10:15 **Plant Tumor Development on Tomatoes Derived from *Lycopersicon hirsutum*.** Xin Zhao, Jeremy D. Edwards, Eric H. Simonne, Karen E. Koch, Robert Hochmuth, Stephen M. Olson, and J. W. Scott, Horticultural Sciences Dept., UF/IFAS, Gainesville, FL. [V2]

10:30 **Yield, Chemical Composition and Eating Quality of Heirloom Tomatoes Grown in the Subtropical Climate of Florida.** Danielle D. Treadwell, Horticultural Sciences Department, UF, Amy H. Simonne, Thabile P. Nkambule, Kim Evans, Family, Youth and Community Sciences Dept., UF/IFAS, Robert C. Hochmuth, Wanda L. Laughlin, NFREC–Suwannee Valley, UF/IFAS, Corstiana Peavy, Columbia County Extension, UF/IFAS, Catherine J. Rogers, Suwannee County Extension, UF/IFAS; and, Teresa Olczyk, Miami-Dade County Extension, UF/IFAS. [V3]

10:45 **Response of ‘Tasti-Lee’ Tomato to Nitrogen Fertilization Programs and In-row Distances.** Bielinski M. Santos and John W. Scott. GCREC, UF/IFAS, Wimauma, FL. [V4]

11:00 **Sensory Evaluation of Red and Yellow Grape Tomato Varieties.** Eric Simonne and Reva Datar, Horticultural Sciences Dept., UF/IFAS, Amy Simonne Family, Youth and Community Sciences Dept., UF/IFAS, and Robert Hochmuth, NFREC–Suwannee Valley, UF/IFAS. [V5]

#### B – Fertilizers and Best Management Practices

11:15 **Fate and Movement of Nitrogen and Phosphorus in Deep Creek in the Lower St Johns River Basin of Northeast Florida.** Christine M. Worthington and Chad M. Hutchinson, Horticultural Sciences Dept., UF/IFAS, Gainesville, FL. [V6]

11:30 **Adapting the CROPGRO Model to Simulate Fresh Market Production and Quality of Snap Bean as Affected by N Fertilization and Irrigation.** Desire Djidonou, Kenneth Boote, Jim Jones, Jerry Bennett, Jon Lizaso, and Eric Simonne, Agronomy Dept., UF/IFAS. [V7]

11:45 **Evaluation of Alternative Fertilizer Programs in Seepage Irrigated Potato Production.** Zhiwei Chen\* and Chad Hutchinson. [V8]

12:00 **Effect of Controlled-release Nitrogen Fertilizers on Potato Yield and Nitrate Leaching in Northeast Florida.** Y. Fan and R.S. Mylavarapu, Soil and Water Science Dept., UF/IFAS; and, C.M. Hutchinson, Horticultural Sciences Dept., UF/IFAS, Gainesville, FL. [V9]

12:15 End of morning sessions/Lunch

### **Monday Afternoon Sessions**

**1:30-3:00**

#### **C – Greenhouse and Specialty Crops**

1:30 **Is it Profitable to Produce Greenhouse Bitter Melon in Southern Virginia?** A.R. Rafie and C.D. Mullins, Virginia State University, Petersburg, Virginia. [V10]

1:45 **Increased Net Profits Result from Greenhouse-grown Colored Pepper Compared to Field Production in Florida.** James E. Webb, Daniel J. Cantliffe, John J. VanSickle, and Nicole L. Shaw. [V11]

2:00 **Horticultural and Postharvest Potential of Producing Florida Strawberry Cultivars under High Tunnels.** Teresa P. Salame, Bielinski M. Santos, Craig K. Chandler, Steve A. Sargent, and Alicia J. Whidden. [V12]

2:15 **Growing and Marketing Basil at Local Green Markets in Southeast Florida.** Kenneth D. Shuler, Stephen J. Nie, Deanna V. Shuler, and Pei-Ann N. Shuler. [V13]

2:30 **Potential Profits from Greenhouse-grown Organic Strawberries are Greater than Conventional Greenhouse-grown or Field-grown Strawberries in Florida.** James E. Webb, Daniel J. Cantliffe, John J. VanSickle, and Nicole L. Shaw. [V14]

2:45 **Growing and Marketing Collards and Kale at Local Green Markets in Southeast Florida.** Kenneth D. Shuler, Stephen J. Nie, Deanna V. Shuler, and Pei-Ann N. Shuler. [V15]

3:00 Vegetable sectional business meeting

3:15 Break

#### **C – Greenhouse and Specialty Crops (Continued)**

3:30 **Ethnic Crop Opportunities for Growers on the East Coast: A Demand Assessment.** Ramu Govindasamy, Venkata S. Puduri, Richard Van Vranken, William Sciarappa, Albert Ayeni, James E. Simon, Frank Mangan, Mary Lamberts, Gene McAvoy, and Kim Pappas. [V16]



- 3:45 **The Production of European-type Cucumber in a Passively Ventilated Greenhouse is 1200 Times More Profitable than the Production of Field-grown Slicing Cucumber in Florida.** James E. Webb, Daniel J. Cantliffe, John J. VanSickle, and Nicole L. Shaw. [V17]
- 4:00 **The South West Florida Small Farmer Network: A Participatory and Regional Approach to Diversified Horticultural Production Extension.** Robert Kluson, Roy Beckford, and Robert Halman. [V18]
- 4:15 **Greenhouse Production of the Famous St. Augustine Hot Pepper, the Datil (*Capsicum chinense*).** Nicole L. Shaw, Daniel J. Cantliffe, Chad M. Hutchinson, Steven A. Sargen, and David Dinkins. [V19]

#### **D - Horticultural Crop production and Protection**

- 4:30 ***Jatropha curcas* (Physic Nut) as a Potential Biodiesel Feedstock Crop in Florida.** Fitzroy B. Beckford. [V20]
- 4:45 **Artificial and Natural Pollination of Sunn Hemp in North Florida.** Romy Krueger, Koon-Hui Wang, Robert McSorley, and Raymond N. Gallaher. [V21]
- 5:00 **Effects of Shade on Growth and Fruit Yield of Scotch Bonnet Hot Peppers (*Capsicum chinense Jacq.*)** Gardner, S. Cassel, Gilbert L. Queeley, Trevor Hylton, Bravo Brown and Kennard Grant, College of Engineering Sciences, Technology and Agriculture. Florida A&M University, Tallahassee, FL. [22]
- 5:15 End of afternoon session

#### **Tuesday Morning Sessions**

**10:00-12:00**

#### **D - Horticultural Crop Production and Protection (Continued)**

- 10:00 **Estimating Strawberry Yield Using Counts of Plant Sizes and Fruit Stems.** J.W. Noling. [V23]
- 10:15 **Tolerance of Fresh Market Dill, Parsley, and Cilantro to Potential Herbicides in Florida.** E.J. McAvoy and W.M. Stall. [V24]
- 10:30 **Comparative Activity of Registered and Experimental Miticides to Control Twospotted Spider Mite (*Tetranychus urticae* Koch (Acari: Tetranychidae)) in Plant City Area Strawberry Culture.** James F. Price and Curtis A. Nagle. [V25]
- 10:45 **Tomato, Pepper, and Watermelon Tolerance to EPTC Applied under Mulch in Florida.** E.J. McAvoy and W.M. Stall. [V26]
- 11:00 **Resistance of Strawberry Cultivars and Advanced Selections to Anthracnose, Botrytis Fruit Rot and Angular Leaf Spot.** Natalia A. Peres, Craig K.

Chandler, James C. Mertely, Teresa Seijo, and Catalina Moyer. [V27]

11:15 **Fungicidal Management of Downy Mildew on Cole Crops.** Richard N. Raid. [V28]

11:30 **Application of Imidacloprid and Cultural Techniques for Management of Whiteflies in Cucurbits.** Teresia Nyoike and Oscar E. Liburd. [V29]

11:45 **Evaluation of US Plant Introductions of Cucurbita pepo for resistance to *Phytophthora capsici*.** Eileen A. Kabelka. [V30]

12:00 **Control of Diamondback Moth *Plutella Xylostella* (L.) Using Various Formulations of *Bacillus thuringiensis* and Azadirachtin in Cabbage.** D.R. Seal, UF/IFAS TREC, Homestead, FL. [V31]

12:15 End of meeting/Extension luncheon

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## SCSSF PROGRAM

(\* = Student Competition Presenter)

*Thomas Obreza, Presiding*

Salon A

### Monday Morning Session

#### 10:00-12:15 - Crops, Nutrients, and Pest Management

- 10:00 **Energy Balance of a Shade-cloth Structure: Model Predictions.** L.H. Allen, USDA, ARS and T. Maki, Kyushu University. [SC1]
- 10:15 **The Agronomic Feasibility of Sunflower as an Oilseed Cover Crop for Florida Vegetable Production Systems.** D.O. Chellemi, USDA/ARS. [SC2]
- 10:30 **Use of Mehlich-3 as a Soil Nutrient Extractant for Soil Testing in Florida.** R.S. Mylavarapu and K. Hines, Soil and Water Science Dept., UF/IFAS. [SC3]
- 10:45 **New Diagnostic Nutrient Testing Protocols for Citrus and Grazed Bahiagrass Pastures.** R.S. Mylavarapu, T.A. Obreza, Soil and Water Science Dept., UF/IFAS; K.T. Morgan, SWFREC/IFAS; P.J. Hogue, Okeechobee Extension, UF/IFAS; and, L.E. Sollenberger, Agronomy Dept., UF/IFAS. [SC4]
- 11:00 **Comparative Influence of N Source on N Leaching and St. Augustinegrass Quality, Growth and N Uptake.** J.B. Sartain, Soil and Water Science Dept., UF/IFAS. [SC5]
- 11:15 **Potato Cyst Nematodes and their Regulatory Implications for Florida Agriculture.** J.D. Stanley, R.N. Inserra, and W.N. Dixon, FDACS/DPI. [SC6]
- 11:30 **Flue Cured Tobacco Flowering Uniformity as Affected by Nematode Management.** W.D. Thomas, Columbia County Extension, UF/IFAS and J.W. Breman, Union County Extension, UF/IFAS. [SC7]
- 11:45 **Performance of Soil Moisture Sensor Irrigation System for Vegetable Crops under Plastic Mulch Conditions.** L. Zotarelli, M.D. Dukes, J.M. Scholberg, R. Muñoz-Carpena, Agricultural and Biological Engineering Dept., UF/IFAS. [SC8]
- 12:00 **Sensitivity of *Fusarium oxysporum* from Ornamentals to Selected Fungicides.** M.L. Gilbert, C.R. Semer IV, and R.J. McGovern, Plant Medicine Program, UF/IFAS; and, W. H. Elmer, Conn. Ag. Exper. Station and D.M. Geiser, Penn State University. [SC9]
- 12:15 End of morning session/Lunch

## Monday Afternoon Session

### 1:30- 5:00 – Graduate Student Forum

- 1:30 **Greenhouse Study on the Competitiveness of Maidencane, Switchgrass, and Cogongrass.** S. Bambo\*, O.U. Oghenekome., and J.J. Muchovej, Florida A&M University. [\[SC10\]](#)
- 1:45 **Municipal Biosolids as a Nutrient Source for Elephantgrass Biomass Production.** M.S. Castillo\*, L.E. Sollenberger, Dept. of Agronomy, UF/IFAS; J.M.B. Vendramini, CREC, UF/IFAS; K.R. Woodard, Dept. of Agronomy UF/IFAS; G.A. O'Connor, Soil and Water Science Dept., UF/IFAS and Y.C. Newman, Dept. of Agronomy, UF/IFAS. [\[SC11\]](#)
- 2:00 **Factors Affecting Phosphorus Sorption in Organic Soils.** L. Janardhanan\* and S. Daroub, EREC, UF/IFAS. [\[SC12\]](#)
- 2:15 **Performance of Unprocessed and Composted Horse Stall Material as Fertilizer for North Florida Forages.** S.C. Dilling\*, L.K. Warren, Animal Science Dept. and C.L. Mackowiak, NFREC, Quincy. [\[SC13\]](#)
- 2:30 **Accumulation and Availability of Copper in Citrus-Growing Soils of Indian River Area.** J. Fan\*, Z. He, L. Q. Ma, and P.J. Stoffella, IRREC, UF/IFAS. [\[SC14\]](#)
- 2:45 **Validation of Nitrogen Recommendation for Potato Production in North Florida During 2001-2005.** Y. Fan\*, R.S. Mylavarapu, Soil and Water Science Dept. and C.M. Hutchinson, Horticultural Sciences Dept.; F. Munoz, Soil and Water Science Dept. [\[SC15\]](#)
- 3:00 Break
- 3:15 **Nitrogen and P Nutrition Characterization of Water Lettuce (*Pistia stratiotes*) and Salvinia (*Salvinia* spp).** Q. Lu\*, Z. L. He, Y. Yang, D. Banks, J. Fan, P.J. Stoffella, IRREC, UF/IFAS; and, D.A. Graetz, Soil and Water Science Dept. [\[SC16\]](#)
- 3:30 **Extracts of Native Plant Species for the Control of Cogongrass (*Imperata cylindrica* L).** L.D. Reid\* and O.U. Onokpise, Florida A&M University. [\[SC17\]](#)
- 3:45 **Impact and Control of Organic Matter in USGA Ultradwarf Bermudagrass Golf Greens.** J.H. Rowland\*, FLREC, UF/IFAS; G.H. Snyder, EREC, UF/IFAS; and, J.L. Cisar, FLREC, UF/IFAS. [\[SC18\]](#)
- 4:00 **Agricultural Practices Change Phosphorus Stocks and Distribution in Soils of the Everglades Agricultural Area.** R. Ye\*, Soil and Water Science Dept.; A. Wright, EREC, UF/IFAS; and, K.R. Reddy, Soil and Water Science Dept., UF/IFAS. [\[SC19\]](#)
- 4:15 **SCSSF Graduate Student Paper Awards**
- 5:00 End of meeting/Extension luncheon

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## SPECIAL SESSION IN-SERVICE TRAINING

### PHYTOSANITARY INSPECTIONS AND QUARANTINE TREATMENTS OF IMPORTED FRUITS, VEGETABLES, AND FLORAL CROPS

*Teresa Olczyk, Steve Sargent  
and Eric Simonne, Organizers*

*Atlantic/Gulf Stream*

#### Tuesday Afternoon Session

June 3: Tuesday pm

1:30 **Welcome and Introductions.** Teresa Olczyk, Extension Agent IV, Miami-Dade County Extension, Homestead.

1:35 **Pre-training test.** Teresa Olczyk.

1:50 **U.S. Customs and Border Protection Agricultural Inspections.** Linda Cullen, Miami Field Office Operations Specialist. Department of Homeland Security, U.S. Customs and Border Protection.

2:50 **Postharvest Quarantine Treatments and Effects on Quality of Fruits, Vegetables and Floral Crops.** Jeff Brecht, Postharvest Physiologist, Horticultural Sciences Dept., University of Florida/IFAS, Gainesville.

3:20 Break

3:30 **Economic Impact of Invasive Species in Florida.** Edward "Gilly" Evans, Economist, Tropical Research & Education Center, Homestead.

3:50 **South Florida Perspective on Invasive Species.** Gene McAvoy, Hendry County Extension Director, LaBelle.

4:10 **Panel discussion with speakers**

4:30 **"The Beagle Brigade": Find the Hidden Fruit with the 4-legged Inspector.** Yvonne Gonzalez and James Silverio. Presentation and demonstration of K-9 Enforcement Service Dogs. Department of Homeland Security, U.S. Customs and Border Protection.

5:15 **Post-training test**

5:30 **Adjourn**

**Wednesday Morning Session**

- 7:30 Leave hotel in Ft. Lauderdale
- 9:00 **Visit of the USDA/APHIS PPQ Plant Inspection Station facility at Miami International Airport.** Staff presentations on inspecting plants, cuttings and seeds, and tour of the facility (address: 3500 NW 62<sup>nd</sup> Street, Miami FL 33147. Phone: 305-526-2825)
- 11:30 Wrap-up
- 11:45 Adjourn and return to Ft. Lauderdale

END OF IST PROGRAM

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**2008 FSHS/SCSSF  
JOINT MEETING FACTS**

**Presentation Numbers**

* FSHS total	137
Invited/featured speakers	6
Citrus	29
Handling and Processing	26
Krome Memorial institute	20
Ornamental, Gardening & Landscape	25
Vegetables	31
(FSHS Graduate Student Competition	12)
* SCSSF total	19
(SCSSF Graduate Student	
Competition	10)
* In-service training	5
** Joint meeting, total	161

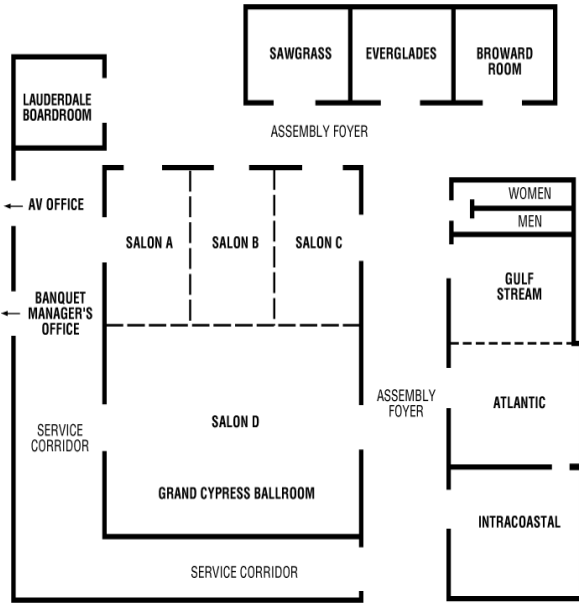


## NOTES

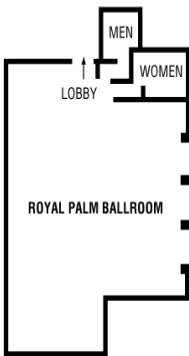


# 2008 JOINT MEETING FACILITIES FT. LAUDERDALE MARIOTT NORTH Site Map

SECOND LEVEL



FIRST LEVEL



FOURTH LEVEL

