WELCOME

TO THE

2007

JOINT ANNUAL MEETING

OF THE

FLORIDA STATE
HORTICULTURE SOCIETY

AND THE

SOIL AND CROP SCIENCE SOCIETY OF FLORIDA

June 3 to 5

PGA National Resort & Spa

400 Avenue of the Champions

Palm Beach Gardens, Florida
Program Overview

Registration Desk Hours  Atrium Courtyard
Sunday June 3    12:00 Noon – 7:00 PM
Monday June 4    7:00 AM – 6:00 PM
Tuesday June 5    7:00 AM – Noon

Sunday Afternoon
2:00 - 4:00     FSHS Board of Dir. Mtg.  Canterbury Room
3:00 - 5:00     SCSSF Board of Directors Mtg.  TBA
5:00 - 5:30     Awards Ceremony  British Open Ballroom
6:00 - 7:00     Welcome Reception  Pool Deck

Monday Morning
7:00 - 8:00     Continental Breakfast  British Open Ballroom
8:30 - 9:45     Joint General Session  British Open Ballroom
8:30    Introduction and Welcome
8:40    Presidential Addresses:
Peter McLure, President, FSHS
Thomas Obreza, President, SCSSF
9:00    General Session Keynote Speaker:
TBA
‘TBA’
10:00 – Noon  Concurrent Morning Sessions - A
(Continuing Education Units for pesticide applicators are approved)
- Citrus Section  Masters A
- Handling & Processing  Canterbury B
- Krome Memorial Institute  Congressional Room
- Ornamental, Gardening & Landscape  Canterbury A
- Vegetable Section  Masters B
- SCSSF Sessions  Legends A

Monday Afternoon
1:30 - 3:00  Concurrent Afternoon Sessions - B
- Citrus Section  Masters A
- Handling & Processing  Canterbury B
- Krome Memorial Institute  Congressional Room
- Ornamental, Gardening & Landscape  Canterbury A
- Vegetable Section  
- SCSSF General Session  

3:00 - 3:30  Sectional Business Meetings  
3:30 - 5:00  Concurrent Afternoon Sessions - C  

- Citrus Section  
  - Handling & Processing  
  - Krome Memorial Institute  
  - Ornamental, Gardening & Landscape  
  - Vegetable Section  
  - SCSSF General Session  

5:15 - 6:15  Fruit/Vegetable Focus Team Mtg.  
6:30 - 7:30  Industry Reception  

**Tuesday Morning**  
7:00 - 8:30  Horticultural Breakfast  
   Invited Speaker: Dr. TBA  
   Title/affiliation TBA  
8:30 - 9:45  **FSHS Annual Business Meeting**  
   - Student Best Paper Competition Awards  
**SCSSF Annual Business Meeting**  
10:00 - Noon  Concurrent Morning Sessions - D  

- Citrus Section  
- Handling & Processing  
- Krome Memorial Institute  
- Ornamental, Gardening & Landscape  
- Vegetable Section  
- SCSSF General Session  

**END OF JOINT MEETING**
Tuesday Afternoon

UF/IFAS EXTENSION IN-SERVICE TRAINING PROGRAM
(Continuing Education Units
for pesticide applicators are approved.)
Co-sponsored by
FSHS, SCSSF and UF/IFAS Cooperation Extension Service

12:00 - 1:00  Extension Luncheon  Ryder Cup Room*
Invited Speaker:
TBA, affiliation TBA

“Topic TBA”

1:30 - 4:30  Biological Control of Insects and Mites in Vegetables In-Service Training Program
Congressional Room

END OF PROGRAM

*Lower level
**JOINT PROGRAM SCHEDULE**
**FSHS PROGRAM**
(* = STUDENT COMPETITION PRESENTER)

**CITRUS SECTION**
*Mongi Zekri, Presiding*

*Masters A*

**Monday Morning Session** 10:00-12:00

A- Harvesting, fertigation, irrigation

10:00 *In-situ Measurement of the Actual Detachment Force of Oranges Harvested by a Canopy Shaker Harvesting Machine.* R. Ehsani, M. Hebel Southern Illinois University and G. Bora, K. Lee, CREC, UF/IFAS. [C1]

10:15 *Daily Fluctuations in Fruit Detachment Force of Valencia Orange are Related to Temperature and Relative Humidity.* L. Pozo, A. Malladi, F. Alferez, Y. Lluch, and J.K. Burns, CREC, UF/IFAS. [C2]

10:30 *Reconciling Grower and Processor Objectives when Deciding to Harvest Juice Oranges.* Jake Searcy*, Fritz Roka, and Thomas Spreen, Food and Resource Economics, UF/IFAS. [C3]


11:00 *Georeferenced Ground Photography of Citrus Orchards for Canopy Research and Variable Rate Technology.* AW Schumann, JP Syvertsen, KH Hostler, CREC, UF/IFAS. [C5]

11:15 *Effect of Winter and Spring Foliar Urea, NPK or K-phosphite Sprays on Productivity of Citrus in Central Florida.* L.G. Albrigo, CREC, UF/IFAS. [C6]

11:30 *Citrus Water Requirements: Linking Irrigation Scheduling and Fertilizer Strategies.* K.T. Morgan, SWFREC, UF/IFAS. [C7]


12:00 End of Session/LUNCH

**Monday Afternoon Sessions**

1:30- 3:00

B – Salinity and Rootstocks

1:30 *The Relative Salt Tolerance Of ‘Rangpur Lime’ Seedlings And ‘Arbequina’ Olive Cuttings.* J. C. Melgar, J. P. Syvertsen, CREC, UF/IFAS, V. Martinez and F. Garcia-Sanchez, CEBAS-CSIC, Murcia, Spain. [C9]
1:45 Shade Effects on Salinity Tolerance of ‘Valencia’ Orange Trees on Contrasting Rootstocks. J. P. Syvertsen, F. García-Sánchez, CREC UF/IFAS; V. Martínez, CEBAS, CSIC Universitario de Espinardo, Murcia, Spain, and J. C. Melgar, Universidad de Córdoba, Spain. [C10]

2:00 Performance of ‘Hamlin’ Orange Trees on Flying Dragon Trifoliate Orange, Changsha Mandarin, and Koethen Sweet Orange x Rubidoux Citrange Rootstocks at Three In-Row Spacings in a Flatwoods Site. W.S. Castle, J.C. Baldwin, and R.P. Muraro, CREC, UF/IFAS. [C11]


2:45 Screening Citrus Rootstock Genotypes for Tolerance to Phytophthora-Diaprepes under Field Conditions. J. H. Graham, CREC, UF/IFAS. K. D. Bowman, USDA-ARS-USHRL, Ft. Pierce, D. B. Bright CREC, UF/IFAS, and R. C. Adair, Jr., Florida Research Center for Agricultural Sustainability, Vero Beach. [C14]

3:00 Sectional Business Meeting

3:15 Break

3:30-5:00

C-Rootstocks, Insect Pests, and Diseases


4:00 Integrated Approaches for Managing the Asian Citrus Psyllid (Homoptera: Psyllidae) in Florida. Jawwad A. Qureshi and Philip A. Stansly, SWFREC, UF/IFAS. [C17]

4:15 Effectiveness of Several Soil-applied Systemic Insecticides for Managing the Asian Citrus Psyllid, Diaphorina citri Kuwayama (Homoptera: Psyllidae). Michael E. Rogers, CREC, UF/IFAS. [C18]

4:30 Defoliation of Canker Infected Citrus Trees by Diquat. Shiv D Sharma and M Singh, CREC, UF/IFAS and, Eric K. Rawls and John B. Taylor, Jr., Syngenta Crop Protection, North Palm Beach. [C19]


5:00 End of Afternoon Session
Tuesday Morning Sessions
10:00-11:30

D - Citrus Greening, Citrus Canker

10:00  Citrus Leafminer Control and Copper Fungicide Sprays for Management of Citrus Canker on Lemon in Tucumán, Argentina. B. Stein, J. Ramallo, L. Foguet, Estación Experimental Agroindustrial O. Colombres, Argentina; and J. H. Graham CREC, UF/IFAS. [C21]


10:45  Culturing Fastidious Prokaryotes - Points to Consider When Working with Citrus Greening. M. J. Davis and R. H. Brlansky, CREC, UF/IFAS. [C24]

11:00  Characterization of Recently Introduced HLB and CTV Isolates W. Dawson, S. Garnsey, C. Robertson, S. Godwit, S. Tatineni, M. Irey, P. Sieburth, and M. Hilf, CREC, UF/IFAS, US Sugar Corp., and USDA Horticultural Research Laboratory, Fort Pierce. [C25]


11:45 Discussion
12:00  End of Meeting

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HANDLING & PROCESSING SECTION
Anne Plotto, Presiding

Canterbury B

Monday Morning Session
10:00-12:00

A - Postharvest Physiology

10:00  BASF FreshSeal® CHC Helps Keep Packed Tomatoes Firmer and Fresher Longer. Mark P. Kohout, BASF Corporation, Sarasota; Mark A. Ritenour and James J. Salvatore, IRREC, UF/IFAS. [HP1]
10:15 **Effect of Edible Coatings and Other Surface Treatments on Pericarp Color of Thai Lychee Cultivars.** Nithiya Rattanapanone, Chiang Mai University, Chiang Mai, Thailand; Anne Plotto, and Elizabeth Baldwin, USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven. [HP2]

10:30 **Optimization of a HPMC, Bee’s Wax and Shellac Edible Coating for ‘Valencia’ Oranges and ‘Marisol’ Tangerines.** María-Llano Navarro-Tarazaga and M.-Bernadita Pérez-Gago, Instituto Valenciano de Investigaciones Agrarias, Valencia, Spain; Anne Plotto and Kevin L. Goodner , USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven. [HP3]

10:45 **Relationship between Weight Loss and Visual Quality of Fruits and Vegetables.** Cecilia N. Nunes, Food Science and Human Nutrition, UF/IFAS; and Jean-Pierre Emond, Agricultural and Biological Engineering, UF/IFAS. [HP4]

11:00 **Changes in the Postharvest Quality of a ‘Datil’ Selection and ‘Datil Dew’ Hot Peppers as Affected by Storage Temperature.** Elena E. Lon Kan, Steven A. Sargent, Nicole L. Shaw, and Daniel J. Cantliffe, Horticultural Sciences, UF/IFAS; and, Amy Simonne, Family, Youth and Community Sciences, UF/IFAS. [HP5]


11:45 Discussion

12:00 End of Morning Session/LUNCH

Monday Afternoon Sessions

1:30- 3:00

B. Student Presentations for Best Paper Competition

1:30 **Harvesting Carambola at Different Ripeness Stages Affects Postharvest Quality.** Oren Warren*, Marcio E. Pereira, Adrian D. Berry, and Steven A. Sargent, Horticultural Sciences, UF/IFAS. [HP7]

1:45 **Ripening of ‘Tainung 1’ Papaya Fruit Delayed by 1-Methylcyclopropene.** Marcio Eduardo Canto Pereira*, Horticultural Sciences, UF/IFAS; Djalma Barbosa dos Santos, Aline Simões da Rocha Bispo, Silvia Barbosa dos Santos, Embrapa Cassava & Tropical Fruits, Cruz das Almas, BA, Brazil. [HP8]

2:00 **Temperature Tracking Using RFID in the Pineapple Supply Chain.** C. Amador* and J.P. Emond, Agricultural and Biological Engineering, UF/IFAS; C. N. Nunes, Food Science and Human Nutrition, UF/IFAS; K. V. Chau, Center for Food Distribution and Retailing, UF/IFAS. [HP9]

2:15 **Visualization of Polyphenol Oxidase and Phenolics Distribution in Mesocarp of Fresh-Cut Mango (cv. Kent) During Storage.** Sharon Dea* and Jeffrey K. Brecht, Horticultural Sciences, UF/IFAS; Cecilia do Nascimento Nunes, Food Science and Human Nutrition, UF/IFAS. [HP10]

2:30 **Aroma Volatiles in Tangerine Hybrids.** Pauline Kerbiriou*, Kevin Goodner, Anne Plotto, and Elizabeth Baldwin, USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven; Fred Gmitter, CREC, UF/IFAS. [HP11]
2:45  Kinetics of Dissolved Oxygen and Vitamin C Consumption in Fresh Orange and Pineapple Juice.  Rosalia Garcia-Torres*, Jose I. Reyes-De-Corcuera, Russell Rouseff, CREC, UF/IFAS.  [HP12]

3:00  Sectional Business Meeting

3:15  Break

3:30-5:00

C. Pre- and Post-harvest Studies


4:00  A Simple Method to Test the Efficiencies of Postharvest Decay Control Treatments.  Jan A. Narciso, Anne Plotto and Elizabeth A. Baldwin, USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven.  [HP14]

4:15  Microbiological Evaluation of Mechanically-Harvested Citrus Fruit.  R. Goodrich-Schneider, Food Science and Human Nutrition, UF/IFAS; M.D. Danyluk, L.M. Friedrich and R. Ehsani, CREC, UF/IFAS.  [HP15]

4:30  Effectiveness of Different Preharvest Fungicide Applications at Controlling Postharvest Diseases of Florida Citrus.  James J Salvatore and Mark A. Ritenour, IRREC, UF/IFAS.  [HP16]

4:45  Update on the USDA, ARS Citrus Scion Improvement Project.  T.G. McCollum, USDA, ARS, USHRL, Fort Pierce.  [HP17]

5:00  End of Afternoon Session

Tuesday Morning Sessions

10:00-11:30

D- Quality and Uses of Citrus Products

10:00  Flavonoids in Grapefruit and Commercial Grapefruit juice: Concentration, Distribution and Potential Health Benefits.  Jiuxu Zhang, Florida Department of Citrus, Lake Alfred.  [HP18]

10:15  Spectral Characteristics of Unknown Furanocoumarins and Coumarins from Grapefruit Oil Wax (GFW).  Thais Cesar and John Manthey, USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven.  [HP19]

10:30  Preliminary Investigation of Furanocoumarin Metabolism by Aspergillus niger.  Kyung Myung, Jan Narciso, and John Manthey, USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven.  [HP20]

10:45  Functional Analysis of Block Deesterified Citrus Pectins.  Gary Luzio and Randall Cameron, USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven.  [HP21]

11:00  Economic Analysis of Ethanol Production from Citrus Peel Waste.  Weiyang Zhou, Wilbur Widmer and Karel Grohmann USDA/ARS Citrus & Subtropical Products Laboratory, Winter
Monday Morning Session

10:00-12:00 Concurrent Sessions – A

A- Genetic Resources


10:30 Assessment of Mango Diversity in Oman Rashid Al-Yahyai, Zaheer Al-Farei, Sulaiman Al-Khanjary, and Michael Deadman, Crop Sciences, and Harith Al-Nabhani, College of Agricultural and Marine Sciences, Sultan Qaboos University, Sultanate of Oman. [K2]

10:45 Florida Avocado Heritage Collection. Carlos Balerdi, Miami-Dade County Extension, UF, Homestead, and Noris Ledesma, Fairchild Tropical Botanic Garden, Miami. [K3]


11:15 Plant Exploration in Tropical Forests of Puerto Rico to Collect Ornamental Germplasm, Tomas Ayala-Silva, USDA, ARS, National Germplasm Repository, Subtropical Horticulture Research Station, Miami, and Alan W. Meerow, Ricardo Goenaga and Brian Iris, USDA, ARS, Tropical Agriculture Research Station, Mayaguez, PR. [K5]


11:45 The Potential of New Mangifera Species in Florida. Richard J. Campbell and Noris Ledesma, Fairchild Tropical Botanic Garden, Miami. [K7]

12:00 End of morning session/LUNCH

Monday Afternoon Sessions

1:30- 3:00 Concurrent Sessions B
B - Horticulture Techniques (I)


1:45 Graft Interstocks for Wild mangos. Richard J. Campbell, Fairchild Tropical Botanic Garden, Miami. [K9]

2:00 Pruning Systems for Tropical Fruits in Florida. Carlos Balerdi, Miami-Dade County Extension, UF, and Jonathan Crane, TREC, UF/IFAS. [K10]


2:30 Hydrogen Cyanamide: A Potential Tool for Advancing Fruit Harvest of Blueberry in Florida. Jeffrey G. Williamson and E.P. Miller, Horticultural Sciences, UF/IFAS. [K12]


3:00 Sectional Business Meeting

3:15 Break

3:30-5:00 Concurrent Sessions – C

C – Horticultural Techniques (II)


4:00 Phylogenetic Analysis of Aestivales, Planchon American Native Grapes by Nuclear Microsatellite Profiling as a Valuable Germplasm for Grape Improvement. Walters, Tresia, Parker, Lelan, Bordallo, Patricia and Violeta Colova (Tsolova), Center for Viticulture and Small Fruit Research, CESTA, Florida A & M University, Tallahassee. [K16]

4:15 Self-incompatibility of ‘Julie’ Mango. Gary Zill. [K17]

4:30 Why aren't Tropical Fruits as Popular as Temperate Fruits? An Industry Perspective." R. Rafie, Carlos Balerdi and Jonathan Crane, TREC, UF/IFAS. [K18]


5:00 Internet-based Audio & Video (IAV): A new resource for Extension, Teaching, and Research. Ian Maguire, TREC, UF/IFAS. [20]

5:15 End of Session
Monday Morning Session

10:00-12:00 Concurrent Sessions - A

A - Landscapes

10:00 *The Effect of Quality of Parks on Neighboring Property Values.* Christopher Rubottom*, R. Gomez, F. Cosby, and A.B. Lorenzo, Landscape Design and Management Program, College of Engineering Sciences, Technology, and Agriculture, Florida A&M University, Tallahassee, FL. [GL1]

10:15 *Tree Damage and Restoration Following Hurricanes Katrina and Wilma at Miami Metrozoo.* H. Mayer, Miami-Dade County Extension. UF/IFAS, T. Trump, Miami Metrozoo, and F. Escobedo, School of Forest Resources and Conservation, UF. [GL2]


10:45 *Landscape Valuation of the Effect of Canopy Roads on Property Values in Tallahassee-Leon County, Florida.* Alfredo B. Lorenzo, Florida A&M University, Tallahassee, Y. Cao, Planning and Landscaping Division, PBS&J, T. Zhang, Department of Geography, Florida State University, Tallahassee, and L. Yu, Florida A&M University, Tallahassee. [GL4]

11:00 *Experiencing Sense of Place of Cultural Landscapes: A Suburban-Strip Chinatown Case Study.* Yun Cao, Planning and Landscaping Division, PBS&J, A. B. Lorenzo, R. Rome and M. Powers, Florida A&M University, Tallahassee. [GL5]


11:30 *Construction of a Pergola in a Demonstration Garden.* D. B. Shibles, A.E. Yasalonis, Polk County Extension, UF/IFAS. [GL7]

11:45 *Challenges of Fertilizer Ordinances–Planning for an Ordinance.* D.P. Rainey, Sarasota County, UF/IFAS. [GL8]

12:00 End of Morning Session/LUNCH

Monday Afternoon Sessions

1:30- 3:00 Concurrent Sessions – B

B1 – Best Management Practices and Runoff Issues

1:30 *Effects of modified Hoagland's solution nitrogen concentration and aeration on Pteris*


**B2 - Plants**

**2:00 Camellias: New Scents and Seasons.** J. Popenoe, Lake County Extension, UF/IFAS, J. Conrad, Erinon Camellias, Plymouth. [GL11]


**B3 - Home Horticulture**

**2:30 "Compost Happens" Workshop Results.** P. W. Brown, Pinellas County, UF/IFAS. [GL13]


**3:00 Sectional Business Meeting**

**3:15 Break**

**3:30-5:00 Concurrent Sessions C**

**C1 - Home Horticulture (continued)**

**3:30 Rain Garden Installation: Site and Soil Conditions.** A. Bolques, Gadsden County Extension, UF/IFAS, S.Valentine, J. Cherrier, and M. Abazinge, Environmental Sciences Institute, Florida A&M University. [GL15]

**3:45 Horticultural Therapy: How can it make a difference in your everyday life?** P. Porchey, Sarasota County, UF/IFAS. [GL16]

**C2 - Pests**

**4:00 Effect of Roguing on Erwinia Soft Rot In Commercial Production with Two Phalaenopsis Plants per Pot.** R. T. McMillan, Jr., Kerry’s Bromeliad Nursery, A. Palmateer, and W. Vendrame, TREC, UF/IFAS. [GL17]

**4:15 Chemical Control of the Palm Leaf Skeletonizer, *Homaledra sabalella* (Lepidoptera: Coleophoridae).** F. W. Howard and Bryan Steinberg, FLREC, UF/IFAS. [GL18]

**4:30 Biohistory Updates and Defoliation by a Climbing Cutworm, the Royal Poinciana Caterpillar (*Melipotis acontioides*) and an Inchworm, the Snowbush Spanworm (*Melanchroia chephise*) in Naples, Florida.** Douglas L.Caldwell, Collier County Extension, UF/IFAS. [GL19]

**4:45 Bees And Trees: Problems Of Honeybee Nesting in Landscapes.** Adrian G. B. Hunsberger, Miami-Dade County Extension, UF/IFAS and Jude Plummer, Miami-Dade County General Services Administration, Miami. [GL20]
5:00   End of Afternoon Session

Tuesday Morning Sessions

10:00-11:30 Concurrent Sessions - D

D – Pests (Continued)

10:00  Pathogenicity of Pythium aphanidermatum and Fusarium oxysporum on Snapdragon  K.-H. Wang, R. McSorley, and E.R. Malek, Entomology and Nematology, UF/IFAS. [GL21]

10:15  Integrated Pest Management of Apis mellifera scutellata (Africanized Honey Bee): Bee-Proofing a Home and School.  J. D. Ellis, Entomology and Nematology, UF/IFAS, A.S. Neal, E. A. Skvarch, St. Lucie County Extension, UF/IFAS. [GL22]

10:45  Discussion

11:00  End of Meeting/LUNCH

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VEGETABLE SECTION
Marco Taopanta, Presiding

Monday Morning Session

10:00-12:00 Concurrent Sessions – A

10:00  Soilless Media, Growing Containers, and Plug Transplants Influence on Vegetative Growth and Fruit Yield of ‘Sweet Charlie’ Strawberry (Fragaria x ananassa Duch.) Grown Under Protected Agriculture.  Daniel J. Cantliffe, Ashwin V. Paranjpe, Horticultural Sciences, UF/IFAS; Peter J. Stoffella, IRREC, UF/IFAS; Elizabeth M. Lamb, New York Agricultural Experiment Station, Geneva, NY; Charles A. Powell, IRREC, UF/IFAS.  [V1]


10:15  Performance of Strawberry Cultivars in Florida.  Bielinski M. Santos, Craig K. Chandler, GCREC, UF/IFAS; Stephen M. Olson, NFREC-Quincy, UF/IFAS; and Teresa W. Olczyk. Miami-Dade County Extension, UF/IFAS.  [V3]


11:00  A case study – Diagnosis of Hydrogen Dioxide Toxicity to Greenhouse Tomatoes.  Luis Barquin, Yuncong Li, Teresa Olczyk, Aaron Palmateer, TREC, UF/IFAS.  [V5]

11:15  Evaluation of Galia-type Melons (Cucumis melo L. var. Reticulatus Ser.) for Fruit Yield, Quality and Powdery Mildew (Podosphaera xanthii) Susceptibility.  Jeanmarie M. Mitchell*, Daniel J. Cantliffe, Steven A. Sargent, Horticultural Sciences, UF/IFAS; Lawrence E. Datnoff,

LUNCH BREAK

Monday Afternoon Sessions
1:30-3:00 Concurrent Sessions - B

1:30 Plectosporium Blight of Cucurbits. G. K. England, Sumter County Extension, UF/IFAS; J. S. Strickland, Hernando County Extension, UF/IFAS; and R. J. McGovern, Plant Medicine Program, UF/IFAS. [V8]

1:45 Comparative Effectiveness of New Insecticides in Controlling Armyworms and Leafminers on Tomato. D. R. Seal, TREC, UF/IFAS and D. J. Schuster, GCREC, UF/IFAS. [V9]

2:00 MOVENTO®, a New Broad-Spectrum Insecticide for Sucking Insect Pest Control. Marco A. Toapanta, Bayer CropScience, Brandon; John Bell, Steve Krueger and Robert Steffens, Bayer CropScience, Research Triangle Park, NC. [V10]


2:45 Barriers to Local Vegetable Production and Marketing in Florida: Challenges and Opportunities for Extension, Research, and Industry. N. Roe, Farming Systems Research, Boynton Beach; Diane Cordeau and Carl Frost, Kai-Kai Farm and Grove, Stuart. [V13]

3:00 Sectional Business Meeting

3:15 Break

3:30-5:00 Concurrent Sessions - C

3:30 Nutrient Management for Greenhouse Production of Container Grown Organic Herbs. Teresa Olszyn, Miami-Dade County Extension, UF/IFAS; Y. Qian, Y. C. Li, TREC, UF/IFAS; G. J. Hochmuth, Horticultural Sciences, UF/IFAS; R. C. Hochmuth, NFREC-Suwannee Valley, UF/IFAS; E. H. Simonne, D. D. Treadwell, Horticultural Sciences, UF/IFAS; L. S. Osborne, MFREC; R. K. Sprenkel, NFREC-Quincy, UF/IFAS; and K. W. Migliaccio, TREC, UF/IFAS. [V14]


4:00 Effect on N Rate on Yield of Tomato Grown with Seepage Irrigation and Reclaimed Water. Monica P. Ozores-Hampton, Eric Simonne, Phyllis Gilreath, Steven Sargent, Thomas Wilkes, Daniel C. McClure, Eugene McAvoy, Phil Stansly, Sanjay Shukla, Pam Roberts, Fritz Roka, Tom
Obreza, Kent Cushman, and Darrin Parmenter. SWFREC, UF/IFAS. [V16]

4:15 **Comparing Nitrogen and Sulfur Fertilizer Sources for Tomato Production.** Bielinski M. Santos, GCREC, UF/IFAS; Humberto Moratinos, University Central of Venezuela; and Jack E. Rechcigl, GCREC, UF/IFAS. [V17]

4:30 **Analysis and Interpretation of On-farm Fertilizer Trials with Tomato.** Eric Simonne, Monica Ozores-Hampton, Kent Cushman, Phyllis Gilreath, Ramon Littell, Eugene McAvoy, Sanjay Shukla, Thomas Obreza, Darrin Parmenter, Pamela Roberts, Fritz Roka, and Philip Stansly, Horticultural Sciences, UF/IFAS. [V18]

4:45 **Financial Implications of Limiting N-fertilization on Fresh Market Tomatoes.** Fritz Roka, Monica Ozores-Hampton, Eric Simonne, Gene McAvoy, Sanjay Shukla, and Kent Cushman. SWFREC, UF/IFAS. [V19]

5:00 End of Afternoon Session

**Tuesday Morning Sessions**

**10:00-11:30 Concurrent Sessions - D**

10:00 **Effects of Pruning on ‘Florida 47’ and ‘Sungard’ Tomato.** Bielinski M. Santos, GCREC, UF/IFAS. [V20]

10:15 **Variability in Watermelon Flower Attractiveness to Insect Pollinators.** J.H. Freeman, Horticultural Sciences, UF/IFAS and S.M. Olson, NFREC-Quincy, UF/IFAS. [V21]


10:45 **Determining Optimum Planting Dates for Inter-Cropped Cucumber, Squash, and Muskmelon with Strawberry.** Bielinski M. Santos, GCREC, UF/IFAS. [V23]

11:00 **Pumpkin (Cucurbita pepo, C. maxima, C. moschata) as an Alternative Crop in a Northeast Florida Seepage-Irrigated Production System.** C. M. Worthington, D. M. Gergela, C. M. Hutchinson, Horticultural Sciences, UF/IFAS. [V24]

11:15 **Growing Specialty Potatoes in Southeast Florida: Is it Feasible?** Darrin Parmenter. Palm Beach County Extension, UF/IFAS. [V25]

11:30 Discussion

12:00 End of Meeting/LUNCH

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SCSSF PROGRAM

GRADUATE STUDENT FORUM I:
WATER, NUTRIENTS, AND ENVIRONMENTAL QUALITY
Thomas Obreza, Presiding

Monday Morning Session
10:00-12:00 PM

10:00 Sensing Accuracy of Four Commercially Available Soil Moisture Irrigation Controllers. B. Cardenas-Lailhacar* and M. D. Dukes, Agricultural and Biological Engineering, UF/IFAS. [SC1]


10:30 Evapotranspiration and Soil Moisture-based Irrigation Control on Turfgrass Compared to Theoretical Requirements. M. L. Shedd* and M. D. Dukes, Agricultural and Biological Engineering Dept., UF/IFAS; G. L. Miller, Crop Science, North Carolina State Univ. [SC3]


11:30 Evaluation and Demonstration of Evapotranspiration-Based Irrigation Controllers. S. Davis*, M. D. Dukes, Agricultural and Biological Engineering, UF/IFAS; Sudeep Vyapari, Environmental Horticulture, UF/IFAS; and G. L. Miller, Crop Science, North Carolina State Univ. [SC7]

11:45 Discussion

12:00 End of morning session/LUNCH
Graduate Student Forum II:
Agronomy
Thomas Obreza, Presiding

Monday Afternoon Session

1:30-3:15

1:30 Tifton-9 Bahiagrass Performance in a Silvopastoral System with Boer x Spanish Goats and Loblolly Pines. N. Gordon-Bradley* and O. U. Onokpise, Forestry and Natural Resources Conservation, Florida A & M Univ. [SC8]


2:00 Use of Extracts from Native Grass Species for the Control of Cogongrass (*Imperata cylindrica* L.). L. D. Reid*, O. U. Onokpise, Florida A&M Univ.; and J. L. Norcini, NFREC, UF/IFAS. [SC10]


2:45 The Extraction of Chitosan from *Callinectes sapidus* (Blue Crab) on the Germination of Sweet Corn Seeds Inoculated with *Pythium aphanidermatum*. C. Webster*, Environmental Sciences Institute; O. U. Onokpise, Forestry and Natural Resources Program; J.J. Muchovej, Ornamental Horticulture; M. Abazinge and E. Johnson, Environmental Sciences Institute, Florida A & M Univ. [SC13]


3:15 Break
GRADUATE STUDENT FORUM III: CROPS
Thomas Obreza, Presiding

3:30-5:00


4:00 Zinc Efficiency in Relation to Root Morphology, Ultrastructure and Antioxidative Enzymes in Rice (Oryza sativa L.). W.R. Chen, MOE Key Lab of Environmental Remediation and Ecosystem Health, College of Natural Resources and Environmental Science, Zhejiang Univ.; Z.L. He, IRREC, UF/IFAS; X.E. Yang and Y. Feng, MOE Key Lab of Environmental Remediation and Ecosystem Health, College of Natural Resource and Environment Science, Zhejiang Univ., China. [SC17]


5:00 SCSSF Graduate Student Paper Awards

GENERAL SESSION: NUTRIENTS, CROPS/CLIMATE, AND PEST MANAGEMENT
Thomas Obreza, Presiding

Tuesday Morning Sessions

10:00-12:00

10:00 A Review of Sugarcane Fertilizer Nutrient Requirements for Different South-Florida Production Environments. K. T. Morgan, SWFREC; J. M. McCray, EREC; and R. W. Rice, Palm Beach County Extension, UF/IFAS. [SC21]

10:15 Free-Air CO₂ Enrichment (FACE): Model Analysis of Gaseous Dispersion Arrays for
Studying Rising Atmospheric CO₂ Effects on Vegetation. L. H. Allen, Jr., USDA-ARS and S. E. Beladi, Agronomy, UF/IFAS. [SC22]


11:00 Breeding for Root Knot Nematode Resistance in Peanut. B. L. Tillman and D. W. Gorbet, NFREC-Marianna; J. R. Rich, NFREC-Quincy; and W. D. Thomas, Columbia County Extension, UF/IFAS. [SC25]


11:30 Methyl Bromide Transition Strategy for Florida Fruit and Vegetable Crops. J. W. Noling, CREC, UF/IFAS. [SC27]

11:45 The Importance of Fumigant Synergies with Chloropicrin. J. W. Noling, CREC, UF/IFAS and J. P. Gilreath, formerly GCREC, UF/IFAS. [SC28]

12:00 End of Session

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SPECIAL SESSION

BIOLOGICAL CONTROL OF INSECTS AND MITES IN VEGETABLES
IN-SERVICE TRAINING
Susan Webb, Presiding

Congressional Room

Tuesday Afternoon Session

1:30 Introduction. Susan Webb., Entomology & Nematology, UF/IFAS.

Protected Agriculture

1:35 Augmented Biological Control of Insects Affecting Greenhouse Grown Vegetables. Daniel Cantliffe, Horticultural Sciences, UF/IFAS.

2:05 Banker Plants in Greenhouse Biological Control and Biological Control of Broad Mites in Pepper Production. Lance Osborne, Entomology, MFREC, UF/IFAS.

2:35 Biologically Based Management of Bemisia tabaci in Vegetable Greenhouse Production. Phil Stansly, Entomology, SWFREC, UF/IFAS.
3:00-3:30 Break and Demonstrations

Field-grown Vegetables

3:35  Using Biological Control in Field-grown Vegetables: A Brief Review. Susan Webb
Entomology & Nematology, UF/IFAS.

3:50  Pirate Bugs as Biological Controls of Thrips in Pepper. Joe Funderburk, Entomology,
NFREC-Quincy, UF/IFAS.

4:20  Results from Biological Control Studies of Twospotted Spider Mites using Predatory
Mites. Oscar Liburd, Entomology & Nematology, UF/IFAS.

4:45  Discussion

5:00  Adjourn

END OF PROGRAM

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