129th Annual Meeting of the
FLORIDA STATE HORTICULTURAL SOCIETY
2016
Program Overview

Registration Desk Hours—Plantation Foyer
Sunday June 12 1:00 PM – 6:00 PM
Monday June 13 7:00 AM – 6:00 PM
Tuesday June 14 8:00 AM – 11:00 AM

Sunday Afternoon
1:00-3:00 FSHS Board of Directors Meeting  Stuart Hall
1:00-3:00 Posters Setup, Erin Harlow  Piano Foyer
2:00-6:00 ASHS Certified Horticulture Exam  Elliot Amphitheater
4:00-5:00 Opening Ceremony, Steve Sargent  Salon 1 & 2
4:15-4:45 Speaker: Dr. George Rogers, Professor and Department Chair, Horticultural Science Department, Palm Beach State College “The Earliest Days of Florida Horticulture”
4:45-5:00 Awards Ceremony  Salon 1 & 2
5:00-6:00 Welcome Reception  (Included in paid conference registration)  Poster Session, Erin Harlow  (See list of posters on p. 12) Piano Foyer

Monday Morning
7:00-8:00 Continental Breakfast  (Included in paid conference registration)  Salon 1 & 2
8:30-9:45 General Session  Salon 1 & 2
8:30 Welcome & Presidential Address: Chris Oswalt, FSHS President
9:00 General Session Keynote Speaker: Mr. Bill Messina, Coordinator of Economic Analysis, UF/IFAS Food Resource and Economics Department, Gainesville, FL “The Economics of Florida and Cuban Horticulture”
9:45 End of General Session

**Concurrent Morning Sessions:**

- **9:50-12:00** Citrus *(p.34)*  
  Salon 3
- **9:50-12:00** Krome Memorial Institute *(p.25)*  
  Flamingo
- **9:50-12:00** Natural Resources *(p.18)*  
  Egret
- **9:50-12:00** Ornamental, Garden & Landscape *(p.14)*  
  Salon 4
- **9:50-12:00** Handling & Processing *(p.29)*  
  Elliot Amphitheater
- **9:50-12:00** Vegetable *(p.20)*  
  Salon 1 & 2

**Monday Lunch**

12:00-1:20 Lunch (On your own)

**Monday Afternoon**

**Concurrent Afternoon Sessions:**

- **1:20-4:45** Citrus  
  Salon 3
- **1:20-5:00** Krome Memorial Institute  
  Flamingo
- **1:20-4:15** Natural Resources  
  Egret
- **1:20-5:00** Ornamental, Garden & Landscape  
  Salon 4
- **1:45-5:00** Handling & Processing  
  Elliot Amphitheater
- **12:00** All posters are taken down  
  Piano Foyer

**Monday Evening**

- **5:15-6:15** Industry Reception *(Included in paid conference registration)*  
  Covered Patio or Palm Pavilion

**Tuesday Morning**

- **7:00-8:15** Horticultural Crops Breakfast *(Event ticket required)*  
  Osprey

**Invited Speaker:**

**Dr. Rick Lusher,** Director, Florida Automated Weather Network, Gainesville, FL

*“Using FAWN Tools for BMPs”*

8:30-9:45

- **FSHS Annual Business Meeting:**  
  *Chris Oswalt,* FSHS President  
  Student Competition Awards, *Kelly Morgan*

**Concurrent Morning Sessions:**

- **9:50-12:00** Citrus  
  Salon 3
- **9:50-11:30** Krome Memorial Institute  
  Flamingo
- **9:50-11:45** Natural Resources  
  Meet in Plantation Foyer
- **9:50-12:00** Ornamental, Garden & Landscape  
  Depart for Tour
- **9:50-12:00** Handling & Processing  
  Elliot Amphitheater
- **9:50-12:00** Vegetable  
  Salon 1 & 2

**Tuesday Lunch**

12:00-1:15 Extension Luncheon *(Event ticket required)*  
Osprey

**Invited speaker:**

**Dr. David Clark,** Professor, UF/IFAS Environmental Horticulture Department and Director of the Plant Innovation Center, Gainesville, FL.

*“UF/IFAS Plant Breeding: Basics for Understanding What We Do, Why We Do It, and How We Do It”*

**Tuesday Afternoon**

1:30-5:00 In-Service Training and Producer Workshop: *(Event ticket required)*  
Salon 1 & 2

*“Innovative Genetics and Breeding Approaches Being Used to Address Critical Issues for Florida Horticultural and Agronomic Crops”*
Florida State Horticultural Society
2015-2016 Board of Directors

Chairman of the Board: Steve Sargent
President: Chris Oswalt
President-Elect: Mark Ritenour
Sectional Vice-Presidents:
  - Citrus–Krome Memorial Institute–Natural Resources–Ornamental, Garden and Landscape–Handling & Processing–Vegetable–
    Citrus–Krome Memorial Institute–Natural Resources–Ornamental, Garden and Landscape–Handling & Processing–Vegetable–
  - Jamie Burrow
  - Jeff Wasielewski
  - Matt Lollar
  - E. Vanessa Campoverde

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  - Mercy Olmstead

2016 Meeting Facilitators

Local Arrangements Coordinators: Ed Skvarch
  - Yvette Goodiel

Sponsorship Coordinator: Gene Albrigo

Student Competitions Coordinator: Kelly Morgan

CEU Coordinator: Cami Esmel McAvoy

Poster Session Coordinator: Erin Harlow

FSHS Newsletter Team:
  - Kathy Snyder
  - Chris Oswalt
  - Shawn Steed

2016 Meeting Sponsors

Platinum Level Sponsor (above $2,000)
  - Citrus Research and Development Foundation
  - Plant Food Systems
  - Valent BioSciences Corporation

Gold Level Sponsor ($1,000 - 1,999)
  - Yara North America

Bronze Level Sponsor (under $500)
  - Triangle Chemical Company
  - JBT FoodTech
  - Florida Tomato Committee

Please see the full list of sponsors on the FSHS Website, poster section, and meeting rooms.

2016 FSHS Patron Members
  - Ed Etxeberria
  - Craig Campbell

Volunteers Needed!

FSHS is a volunteer-run organization. Make a difference, and volunteer your time, leadership, service and talents!

Visit fshs.org and help today!
Attention FSHS Authors!

- 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 online Proceedings.
- Take advantage of this possibility and pass the word around!

Welcome 2016 FSHS Sectional Vice-Presidents!

**Citrus:** Jamie Burrow, UF/IFAS Citrus Research & Education Center, Lake Alfred, FL (jdyates@ufl.edu)

**Handling & Processing:** Alicia Whidden, UF/IFAS Extension Hillsborough County, Seffner, FL (awhidden@ufl.edu)

**Krome Memorial Institute:** Jeff Wasielewski, UF/IFAS Extension Miami-Dade County, Homestead, FL (jwasielewski@ufl.edu)

**Ornamental, Garden, & Landscape:** E. Vanessa Campoverde, UF/IFAS Extension Miami-Dade County, Homestead, FL (evcampoverde@ufl.edu)

**Natural Resources:** Matt Lollar, UF/IFAS Extension Jackson County, Marianna, FL (mlollar@ufl.edu)

**Vegetables:** Joshua Freeman, UF/IFAS North Florida Research & Education Center (joshuafr@ufl.edu)

Presentation, Publication and Submission Guidelines

- Full payment of page charges from past years 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 prior to the meeting are highly encouraged and preferred. Manuscripts should be delivered in FINAL electronic form at the time of meeting to the FSHS editors (editors@fshs.org) and copy their appropriate section VP.
- Manuscripts may also publish their manuscript in any of the ASHS journals including HortTechnology, HortScience, or the Journal of ASHS.

Paper Submissions:

Please remember to e-mail full-length manuscripts to editors@fshs.org and copy (CC) the appropriate sectional VP:

**Citrus:** Jamie Burrow, jdyates@ufl.edu

**Handling and Processing:** Alicia Whidden, awhidden@ufl.edu

**Krome Memorial Institute:** Jeff Wasielewski, jwasielewski@ufl.edu

**Natural Resources:** Matt Lollar, mlollar@ufl.edu

**Ornamental, Garden, and Landscape:** E. Vanessa Campoverde, evcampoverde@ufl.edu

**Vegetables:** Joshua Freeman, joshuafr@ufl.edu
Become a Member of FSHS!

Are you a member of the Florida State Horticultural Society? If not, join today!

FSHS is the nation’s oldest horticultural society, established in 1888, and continues to provide multiple benefits for its members.

Discover our history while shaping our future.

Benefits of Membership:

- Access to most recent three years of the FSHS Proceedings
- Copy of current year’s proceedings on CD
- Newsletter
- Reduced meeting registration and publication fees
- Special student rates
- Networking opportunities for students, scientists, and industry personnel from diverse horticultural backgrounds and crops.

Yearly membership runs from January 1st - December 31st each calendar year, with international and student rates available.


FSHS Student Competitions

FSHS offers two competitions for students: Student Best Oral Presentation (SBOPC) and Student Best Paper (SBPC). Awards for the SBOPC will be presented during the Annual Business Meeting at the 2016 FSHS annual meeting in Stuart, FL. The SBPC awards will be announced at the 2017 FSHS annual meeting. 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):

The number of entries in the SBOPC is limited to 15 and must be submitted to the sectional VP. Acceptance in the competition is on a first-come, first-serve basis. Participants are judged on importance of the subject 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. For more information on the SBOPC competition, contact Kelly Morgan at conserv@ufl.edu.

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 fshsproc@ashs.org by May 31, 2017 for the current year’s competition. 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 on the SBPC competition, Kelly Morgan at: conserv@ufl.edu.

Attention, Students:

Did you know that FSHS awards fifteen (15), $200 scholarships to students attending the Annual Meeting?

To apply, please submit a statement (100 words or less) describing the importance of attending the FSHS Annual Meeting to the achievement of your personal and professional goals and aspirations at fshs@fshs.org.

The FSHS Board of Directors judges submissions and verifies that the awardees are eligible registered students who have registered for the Annual Meeting. Scholarship checks will be awarded during the annual business meeting; awardees must be registered and present to receive their scholarship check.

Extension Luncheon Speakers

Dr. David Clark, 2016
Dr. Norm Leppla, 2015
Dr. Kelly Morgan, 2014
Dr. Eva Worden, 2013
Dr. Daniel Cantliffe, 2012
Mr. Ted Campbell, 2011
Mr. Kevin Morgan, 2010
Dr. Jim Horne, 2009
Mr. Armando Campos, 2008
Mr. Ted Winsberg, 2007
Mr. Chuck Obern, 2006
Dr. Larry Arrington, 2005

FSHS Student Scholarships

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Sunday Evening Session
(Authors present posters from 5:00-6:00 PM at the Welcome Reception)

[P-1] Teaching Tree Management Programs to the Medellín Botanical Garden and City of Medellín Ground Maintenance Personnel, a Successful Approach!
H. Mayer¹, L. Solano², M. Arroyave³, D. Benitez⁴, ¹UF/IFAS Extension Miami-Dade County, Homestead, FL 33030; ²Medellín Ministry of Environment; ³Antioquia School of Engineering, ⁴Medellín Botanical Garden. (hmayer@ufl.edu)

[P-2] Expanding Community Outreach through Master Gardener-funded Demonstration Garden Grants: Pilot Program Results
Y. Goodiel. UF/IFAS Extension Martin County, Stuart, FL. (goodiel@ufl.edu)

[P-3] Master Gardener Project Expo
T. Badurek. UF/IFAS Extension Pinellas County, Largo, FL. (tmgwaves@ufl.edu)

[P-4] Plant This, Not That!
L. Singleton¹ and B. Moffis², ¹UF/IFAS Extension Sumter County, Lady Lake, FL; ²UF/IFAS Extension Lake County, Tavares, FL. (lsingleton@ufl.edu)

[P-5] Five Years in Review: Partnering with Local Garden Centers to Offer Produce Production, Canning and Cooking Classes
M. Orwat and J. Corbus. UF/IFAS Extension Washington County, Chipley, FL. (mjorwat@ufl.edu)

D.B. Nistler¹, J. DeValerio¹, T. Freeman¹, B. Wells, M.E. Henry¹, D. Treadwell⁴, and J. Perez⁴, ¹UF/IFAS Extension Clay County, Green Cove Springs, FL; ²UF/IFAS Extension Bradford County, Starke, FL; ³UF/IFAS Extension Duval County, Jacksonville, FL; ⁴UF/IFAS Extension St. Johns County, St Augustine, FL; ⁵UF/IFAS Extension Polk County, Bartow, FL; ⁶UF/IFAS Horticultural Sciences Department, Gainesville, FL. (dnistler@ufl.edu)

[P-7] Supporting Agricultural Awareness through Farm Tours in Palm Beach County
C. Miller, M. VanWeelden, and R. Rice, UF/IFAS Extension Palm Beach County, West Palm Beach, FL. (cfmiller@ufl.edu)

[P-8] Exploring Careers in Agriculture through Green & Growing Youth Field Day
M. Glenn¹, C. Snodgrass¹, D. Smith¹, N. Boyd², Z. Deng², H. Smith², V. Whitaker², J. Mangandi², and G. Vallad², ¹UF/IFAS Extension Manatee County, Palmetto, FL; ²UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL. (mglenn7@ufl.edu)

[P-9] Sugarcane in the Panhandle
D.J. Wiggins, UF/IFAS Extension Gadsden County, Quincy, FL. (zadwiggins@ufl.edu)

[P-10] Advanced Irrigation Management on North Florida Farms
M. Bauer, UF/IFAS Extension Columbia County, Lake City, FL. (mgbauer@ufl.edu)

T. Freeman, UF/IFAS Extension Duval County, Jacksonville, FL. (terraf@ufl.edu)

[P-12] Youth Peach Tree Project Turns Out Peachy Keen.
C.E.E. McAvoy and K.A. Taylor. UF/IFAS Extension Sumter County, Bushnell, FL. (cam13@ufl.edu)
Monday Morning Session
(9:50 AM – Noon) Salon 4
9:50 Welcome and Introductions, E. Vanessa Campoverde

A – Student Competition
10:00 Optimal Photoperiod Treatment for Flowering of Bougainvillea x buttiana ‘Afterglow’.
Mun Wye Chng and Kimberly A. Moore. UF/IFAS Fort Lauderdale Research and Education Center, Davie, FL. (mwchng@ufl.edu) [OGL-1]

10:15 Determination of Ploidy Levels and Breeding of Ruella simplex.
Victor A. Zayas, Rosanna Freyre, Allison V. Conner, and Steve Montalvo. UF/IFAS Environmental Horticulture Department, Gainesville, FL. (vzayas@ufl.edu) [OGL-2]

B – Pests and Diseases
10:30 Key Pests of Hops (Humulus lupulus) Cultivated in the Southeastern United States.
Richard Smith1, Brian Pearson1, Steven Arthurs1, and Amanda Morgan1. Department of Environmental Horticulture, UF/IFAS Mid-Florida Research and Education Center, Apopka, FL; 1Entomology and Nematology Department, UF/IFAS Mid-Florida Research and Education Center, Apopka, FL. (spa@ufl.edu) [OGL-3]

10:45 An Update on the Detection of Bemisia tabaci Biotype-Q in Florida Landscapes.
Lance Osborne1 and Cindy McKenzie2. Department of Entomology and Nematology, UF/IFAS Mid-Florida Research and Education Center, Apopka, FL; 1Entomology and Nematology Department, UF/IFAS Mid-Florida Research and Education Center, Apopka, FL. (l sosborn@ufl.edu) [OGL-27]

11:00 A High Incident of Pythium and Phytophthora Diseases Related to Record Breaking Rainfall During the Dry Season 2015-2016.
E. Vanessa Campoverde, G. Sanahuja, and A.J. Palmateer. 1UF/IFAS Extension Miami-Dade County, Homestead, FL; 2Plant Pathology Department, UF/IFAS Tropical Research and Education Center, Homestead, FL. (evcampoverde@ufl.edu) [OGL-4]

11:15 Management of Pilea microphylla (Artillery Weed) in Container Nurseries and Landscapes.
Chris Marble, Annette Chandler, and Debalina Saha. UF/IFAS Mid-Florida Research and Education Center, Apopka, FL. (marblesc@ufl.edu) [OGL-5]

11:30 Efficacy of Systemic Insecticides Applied to Oxhorn Bucida Trees, Bucida buceras, to Minimize Staining by a Caterpillar.

Garella (Characoma) nilotica (Lepidoptera: Noctuidae) and an Eriophyid Flower Gall Mite, Eriophyes buceras. Douglas L. Caldwell and A.D. Ali. 1UF/IFAS Collier County Extension Service, Naples, FL; 2Davey Institute, The Davey Tree Expert Company, Alva, FL. (douglas@ufl.edu) [OGL-6]

11:45 Rose Variety Testing for Chilli Thrips, Scirtothrips dorsalis, and Developing a Sample Plan for Identifying This Pest in Container-Grown Knock-Out® Roses. Steven P. Arthurs2, M.L. Kok-Yokomi1, L.A. Aristizabal1, W.A. Myers1, and Brian J. Pearson1. 1UF/IFAS Mid-Florida Research and Education Center, Apopka, FL; 2American Rose Society, St Augustine, FL. (bpearson@ufl.edu) [OGL-7]

12:00 Lunch (on your own)

Monday Afternoon Session
(1:20 – 5:00 PM)
1:20 Welcome. E. Vanessa Campoverde
Consider Being a Candidate for VP Elect!

1:30 A New Disease Caused by a Cercospora sp. On The Florida Native Tetrazygia bicolor. Robert T. McMillan, Jr., UF/IFAS Tropical Research and Education Center, Homestead, FL. (rtmjr@ufl.edu) [OGL-8]

1:45 Hillsborough County Container Nursery Irrigation Characteristics. Shawn Steed1, Tom Yeager1, and Jenny Hinton1. 1UF/IFAS Hillsborough County Extension, Seffner, FL; 2UF/IFAS Environmental Horticulture Department, Gainesville, FL (ststeed@ufl.edu) [OGL-9]

2:00 Pepper Weevil (Anthonomous eugenii Cano) Abundance in ‘Jalapeno’ Pepper Grown in Different Management Situations. Dakshina R. Seal and Mohammad Razzak. UF/IFAS Tropical Research and Education Center, Homestead, FL. (dseal@ufl.edu) [OGL-10]

2:15 Consumer Perceptions of Plant Production Practices that Aid Pollinator Insects’ Health. Hayk Khachatryan and Alicia Rihn. Food and Resource Economic Development Department, UF/IFAS Mid-Florida Research and Education Center, Apopka, FL (hayk@ufl.edu) [OGL-11]

2:30 Nutrient Leaching from Bananas Grown in Sphagnum Peat and Sugarcane Filter Press Mud Based Growing Media During Acclimation. Nicholas Larsen1, Kimberly Moore1, Tim Broschat1, Samira Daroub1, and Ann Wilkie1. 1UF/IFAS Everglades Research and Education Center, Belle Glade, FL; 2UF/IFAS Fort Lauderdale Research and Education Center, Fort Lauderdale, FL. (larsnick@ufl.edu) [OGL-12]
2:45 Mobile Device Application for Container Nursery Plant Irrigation. Tom Yeager and Jeff Million. UF/IFAS Environmental Horticulture Department, Gainesville, FL. (yeager@ufl.edu) [OGL-13]

3:00 Ornamental, Garden and Landscape Section Business Meeting: Matthew Orwat

3:15 Developing and Selecting Sterile, Non-invasive Lantana camara Cultivars. Zhanao Deng1, D.M. Czarnecki1, X. Ying1, S.B. Wilson1, R. Freyre1, and G.W. Knox.1 Environmental Horticulture Department, UF/IFAS Gulf Coast Research and Education Center, Balm, FL; 2UF/IFAS Environmental Horticulture Department, Gainesville, FL. (zdeng@ufl.edu) [OGL-14]

3:30 Evaluating Fungicides in Production for Long Term Management of Impatiens Downy Mildew in the Landscape. S.N. Suarez1, P. Lopez2, A.R. Chase3, and A.J. Palmateer3. Department of Plant Pathology, UF/IFAS Tropical Research and Education Center, Homestead, FL; 2Chase Agricultural Consulting, Cottonwood, AZ. (ajp@ufl.edu) [OGL-15]

3:45 Improving Professionalism in the Landscape Industry by Maintaining Partnerships Between Extension and Professional Organizations like FNGLA and LIAF: A Successful Approach! H. Mayer1, 2M. Orfanez, C. Alzate, M. McCoy, Q. Oguntoyinbo, S. Duncan, R. Mederos, P. Machin. 1UF/IFAS Miami-Dade County Extension, Homestead, FL; 2UF/IFAS Broward County Extension, Davie, FL; 3Metric Engineering, Miami, FL; 4City of Miami Environmental Resources and Planning-Zoning Department, Miami, FL; 5Miami-Dade PROS; 6HDR, Inc.; 7City of Sunrise, Sunrise, FL. (hmayer@ufl.edu) [OGL-16]

4:00 Growing Plants and Volunteers: A Master Gardener Nursery Project. Sheila Dunning. UF/IFAS Extension Okaloosa County, Crestview, FL. (sdunning@ufl.edu) [OGL-17]

4:15 What Homeowner Association (HOA) Board Members in Orange County, Florida Think About Water Conservation and The Use of Florida Friendly Landscaping (FFL) Principles. Liz Felter1, Tracy Irani1, and Michael Dukes1. 1UF/IFAS Mid-Florida Research and Extension Center, Apopka, FL; 2Department of Family, Youth and Community Sciences, Gainesville, FL; 3Department of Agricultural and Biological Engineering, Gainesville, FL. (lfelter@ufl.edu) [OGL-18]

4:30 Progress towards Rejuvenating Caladium Cultivars through Tissue Culture, Pathogen Elimination, and Genetic Testing. Zhanao Deng1, Jane Polston1, and Michael Kane1. 1Environmental Horticulture Department, Gulf Coast Research and Education Center, Balm, FL; 2UF/IFAS Plant Pathology Department, Gainesville, FL; 3Environmental Horticulture Department, Gainesville, FL. (zdeng@ufl.edu) [OGL-19]

4:45 Nitrogen Release from Coated Turfgrass Fertilizers. G.H. Snyder1, T.K. Wasylik1, and R.H. Snyder1. 1UF/IFAS Everglades Research and Education Center, Belle Glade, FL; 2UF/IFAS Fort Lauderdale Research and Education Center, Davie, FL. (snyder@ufl.edu) [OGL-20]

5:00 Adjourn Session

5:15 Industry Reception (Ticket included in paid conference registration)

Tuesday Morning Session

(9:50 AM – 11:45 AM) Salon 4

9:50 Welcome and Introductions. Matthew Orwat

D- Environmental Horticulture Education

10:00 Components of a Pollinator Garden. Lynn Barber and N.D. Pinson. UF/IFAS Extension Hillsborough County, Seffner, FL. (labarber@ufl.edu) [OGL-21]

10:15 Creating Community Partnerships to Improve Business Skills for Landscape, Nursery and Small Farms Entrepreneurs. Ed Skvarch. UF/IFAS St. Lucie County Extension, Fort Pierce, FL. (eask@ufl.edu) [OGL-22]

10:30 Manatee County Agents Help Their Clients Get “Em” Done for CEUS. Martha Glenn1, Crystal Snodgrass2, Michelle Atkinson1, Susan Haddock1, Shawn Steed2, Andrew Koesser1, Travis Shaddox1, and Stephen Enloe1. 1UF/IFAS Extension Manatee County, Palmetto, FL; 2UF/IFAS Hillsborough County, Seffner, FL 33584; 3UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL; 4UF/IFAS Fort Lauderdale Research and Education Center, Davie, FL; UF/IFAS Center for Aquatic and Invasive Plants, Gainesville, FL. (mglenn7@ufl.edu) [OGL-23]

10:45 Palm School for Master Gardeners and Garden Club Members: One Year Post-Program Follow-up. C.A. Kelly-Begazo and N. Munroe. UF/IFAS Extension, Indian River County, Fort Pierce, FL (ckellybe@ufl.edu) [OGL-24]

11:00 Crossing County Lines to Expand Pesticide Education and Safety Training. Martha Glenn1, Crystal Snodgrass2, Mary Beth Henry3, Cami McAvoy4, and Shawn Steed4. 1UF/IFAS Manatee County Extension, Palmetto, FL; 2UF/IFAS Polk County, Bartow, FL; 3UF IFAS Sumter County Extension, Bushnell, FL; 4UF/IFAS Hillsborough County Extension, Seffner, FL. (mglenn7@ufl.edu) [OGL-25]

11:15 Leading the Charge! Volusia County Leaders in the State Best Management Program Enrollment. Karen M. Stauderman. UF/IFAS Volusia County Extension, Deland, FL. (kstauderman@ufl.edu) [OGL-26]

11:30 End of Section

See you next year!

12:00 Extension Luncheon (Ticket Required)
Monday Morning Session
(9:50 AM – Noon) Egret

9:50 Welcome and Introductions, Matt Lollar
10:00 AmeriCorps Master Naturalist Improve Youth Environmental Education. Sheila Dunning, UF/IFAS Extension Okaloosa County, Crestview, FL. (sdunning@ufl.edu) [NR-1]
10:15 Opportunities and Challenges for Marketing Leafy Salad Crops in the Farm to School Program. Richard Tyson, Caitlyn Glatting, and Jamila Adams. 1County Extension Director, UF/IFAS Extension Orange County, Orlando, FL; 2Family and Consumer Sciences Agent, UF/IFAS Extension Orange County, Orlando, FL. (rvt@ufl.edu) [NR-2]
10:30 The Everglades Invasive Reptile and Amphibian Monitoring (EIRAMP) Citizen Science Program. Kenneth Gioeli, Frank Mazzotti, Edward Metzger, Amanda Thompson. 1Natural Resources Agent, UF/IFAS Extension St. Lucie County, Fort Pierce, FL; 2Professor, UF/IFAS Fort Lauderdale Research and Education Center, Ft. Lauderdale, FL; 3Wildlife Research Technician, UF/IFAS Fort Lauderdale Research and Education Center; 4Invasive Species Coordinator, UF/IFAS Fort Lauderdale Research and Education Center (ktgioeli@ufl.edu) [NR-3]
10:45 Break
11:00 Water Quality in Harvested Rainwater. Lynn Barber, UF/IFAS Extension Hillsborough County, Seffner, FL. (labarber@ufl.edu) [NR-4]
11:15 Genetic Approaches for Improvement in UF/IFAS Sweet Sorghum Breeding Program. Sanyukta Shukla and Wilfred Vermerris. 1Postdoctoral Associate, UF/IFAS Department of Microbiology and Cell Science, Gainesville, FL; 2Professor, UF/IFAS Department of Microbiology and Cell Science, Gainesville, FL. (sanyukta@ufl.edu) [NR-5]
11:30 Renovating the Landscape at the UF/IFAS Volusia County Extension Office. Joe Sowards, UF/IFAS Extension Volusia County, Deland, FL. (sewards@ufl.edu) [NR-6]
11:45 Natural Resources Business Meeting. Matt Lollar

Monday Afternoon Session
(1:20 – 5:00 PM)

Promoting Specialty Crops as Local IST

1:20 Introduction
1:30 Module 1: What do people think about locally grown food?
Joy Rumble, UF/IFAS Department of Agricultural Education and Communication, Gainesville, FL. (jnrumble@ufl.edu)
1:55 Module 2: Why do people buy local food and where do they buy it?
Joy Rumble, UF/IFAS Department of Agricultural Education and Communication, Gainesville, FL. (jnrumble@ufl.edu)
2:20 Break
2:30 Module 3: What are the best words and images to use?
Yvette Goodiel, UF/IFAS Extension Martin County, Stuart, FL (goodiel@ufl.edu)
3:00 Module 4: How do you get your message out to customers?
Libbie Johnson, UF/IFAS Extension Escambia County, Cantonment, FL
3:40 Module 5: How do you talk to consumers about your locally grown food? (Part 1)
Matt Lollar, UF/IFAS Extension Jackson County, Marianna, FL. (mlollar@ufl.edu)
4:20 Module 6: How do you talk to consumers about your locally grown food? (Part 2)
Libbie Johnson, UF/IFAS Extension Escambia County, Cantonment, FL.
5:00 End of Session

Tuesday Morning Session
(9:50 AM – 12:00 PM)

9:50 Meet for Farm Tour Departure
10:00 Tour Ground Floor Farm, Stuart FL
Meet in hotel lobby for shuttle vehicles to farm tour
10:00 Hotel Lobby
12:00 END OF SECTION
See you next year!
12:00 Extension Lunch (Ticket Required)
Monday Morning Session
(9:50 AM – 12:00 PM) Salon 1 & 2
9:50 Welcome and Introductions, Josh Freeman

A – Production and Management
10:00 Field Research Assessment: A Tool for Improving Research Outputs. Mickie E. Swisher1, Y. Zhang1, K.N. Moore1, and C.A. Chase2.
1: Family, Youth and Community Sciences Department, UF/IFAS, Gainesville, FL; 2Horticultural Sciences Department, UF/IFAS Gainesville, FL. (mesw@ufl.edu) [V-1]
10:15 Field Production of Kale: Can We Predict Crop Yields from Early Plant Growth Rates? Qianru Liu1, G.X.L. Castillo1, A.A. Atta1, X. Fu1, Y. Xie1, X. Zhao1, B. Rathinasabapathi1, and M. Ozores-Hampton2. UF/IFAS Horticultural Sciences Department, Gainesville, FL; UF/IFAS Southwest Research and Education Center, Immokalee, FL. (qianruliu@ufl.edu) [V-2]
10:30 Challenges Faced by Miami-Dade County Vegetable Growers in 2015. Qingren Wang. UF/IFAS Miami-Dade County Extension, Homestead, FL. (qrwang@ufl.edu) [V-3]

B – Student Competition
10:45 The Use of Smart Phone Application (Smart-Irrigation Vegetable) for Irrigation Scheduling in Tomato (Lycopersicon esculentum) Production. Ibukun T. Ayankojo and K.T. Morgan. UF/IFAS Southwest Florida Research and Education Center, Immokalee, FL. (iayankojo@ufl.edu) [V-4]
11:00 Effects of Seeding Proportion of Cover Crop Mixtures on Canopy Characteristics and Weed Suppression. Samuel B. Coplin, Damion J. Graves, and Carlene A. Chase. UF/IFAS Horticultural Sciences Department, Gainesville, FL. (scoplin@ufl.edu) [V-5]
11:15 Fruit Quality of Seedless Watermelon Cultivars Grafted onto an Interspecific Hybrid Squash Rootstock. Qianru Liu1, Xin Zhao1, Zach Black1, Jeffrey K. Brecht1, and Charlie A. Sims2. UF/IFAS Horticultural Sciences Department, Gainesville, FL; UF/IFAS Food and Resource Economics Department, Gainesville, FL. [V-6]

Monday Afternoon Session
(1:15 – 5:15 PM)
1:15 Feral Honey Bee Awareness and Safety Programs for Agricultural Workers in South Florida. Christian F. Miller1, E. McAvoy, A. Abbate, W. Kern, D. Moreira1, J. Vital1, and R. Raid1. UF/IFAS Palm Beach County Extension, West Palm Beach, FL; UF/IFAS Hendry County Extension, Labelle, FL; UF/IFAS Fort Lauderdale Research and Education Center, Davie, FL; Zamorano University, El Zamorado, Honduras; UF/IFAS Everglades Research and Education Center, Belle Glade, FL. (cfmiller@ufl.edu) [V-9]
1:30 Season Extension and Overwintering of Scotch Bonnet Hot Pepper in North Florida. Alejandro Bolques1, G. Queeley, F. Ospina, and V. Richardson1. FAMU Quincy Research and Education Center, Quincy, FL; FAMU Cooperative Extension Program, Tallahassee, FL. (abol@ufl.edu) [V-10]
1:45 Characterization of the Least Limiting Water Range under Different Irrigation Systems in Florida. Takao Hashiguti1, C.J.B. Ferreira, C.A. Tormena1, A.C.A. Goncalves1, A.L.B.R. Silva1, and Lincoln Zotarelli2. State University of Maringa, Maringa, Brazil; UF/IFAS Horticultural Sciences Department, Gainesville, FL. (htakaoh@hotmail.com) [V-11]
2:00 Effects of Planting Dates and Transplant Establishment Methods on Strawberry Cultivars in Florida. Emmanuel A. Torres-Quezada1, Lincoln Zotarelli1, Rebecca Darnell1, and Vance Whitaker1. UF/IFAS Horticultural Sciences Department, Gainesville, FL; UF/IFAS Gulf Coast
**C – Nutrient Management**

2:30 Soil Moisture and Mineral Nitrogen Dynamics Under Alternative Irrigation Systems: Tile Drainage, Subsurface-Drip, Sprinkler and Seepage. Andre L.B.R. Silva, Lincoln Zotarelli, Shinsuke Agehara, H.T. Hashiguti, Michael D. Dukes, and S. Asseng. UF/IFAS Horticultural Sciences Department, Gainesville, FL; State University of Maringa, Maringa, Brazil; UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL; UF/IFAS Agricultural and Biological Engineering Department, Gainesville, FL. (bisciaia@ufl.edu) [V-14]

2:45 Optimization of Growth-Stage Specific Nitrogen Fertilization Improves Strawberry Growth and Yield. Bhagvate Sangha and Shinsuke Agehara. UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL. (bhagvate77@gmail.com) [V-15]

3:00 Effects of Potassium Rates on Nutrient Uptake and Yield of Winter Tomato Grown on Calcareous Soil. Qiang Zhu, Monica Ozores-Hampton, Kelly T. Morgan, and Yuncong Li. UF/IFAS Southwest Florida Research and Education Center, Immokalee, FL; UF/IFAS Tropical Research and Education Center, Homestead, FL. (qiangzhu@ufl.edu) [V-16]

3:15 Utilizing Manure as Co-Products as Fertilizer in Tomato Production Systems. Mark S. Reiter and Jane Corson-Lassiter. Virginia Tech Eastern Shore Agricultural Research and Extension Center, Painter, VA; USDA-NRCS, Accomac, VA. (mreiter@vt.edu) [V-17]

3:30 Optimization of Phosphorus Rates for Potato (Solanum tuberosum L.) Production in Northeastern Florida: A One-Year On-Farm Case Study. Yuqi Cui, Guodong Liu, Lincoln Zotarelli, and Sargent Sargent. UF/IFAS Horticultural Sciences Department, Gainesville, FL. (guodong@ufl.edu) [V-18]

3:45 Alleviating Transplant Stress by Inhibiting Ethylene Signaling Improves Growth and Yield of Tomato. Shinsuke Agehara. UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL. (sagehara@ufl.edu) [V-19]

4:00 Optimizing Nitrogen Rates for Watermelon (Citrullus lanatus (Thunb.) Matsum. & Nakai) Production with Fertigation in North Florida: A One-Year Case Study. Tanumoy Bera, Moshe Doron, and Guodong Liu. UF/IFAS Horticultural Sciences Department, Gainesville, FL. (tbera@ufl.edu) [V-20]

4:15 Updating Nitrogen Fertility Recommendations for Mid-Atlantic Vegetable Crops. Mark S. Reiter, C. Fleming-Wimer, and J.H. Freeman. Virginia Tech Eastern Shore Agricultural Research and Extension Center, Painter, VA; UF/IFAS North Florida Research and Education Center, Quincy, FL. (mreiter@vt.edu) [V-21]

4:30 Optimum Nitrogen Rate and Application Timing for Chipping Potato Under Different Irrigation Systems. Andre L.B.R. Silva, Lincoln Zotarelli, Shinsuke Agehara, H.T. Hashiguti, Michael D. Dukes, and S. Asseng. UF/IFAS Horticultural Sciences Department, Gainesville, FL; UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL; UF/IFAS Agriculture and Biological Engineering Department, Gainesville, FL. (bisciaia@ufl.edu) [V-22]

4:45 Nitrogen Fertilizer Management for Potatoes: Rate, Timing and Placement. Libby R. Rens, Lincoln Zotarelli, Guodong Liu, Diane L. Rowland, and Kelly T. Morgan. UF/IFAS Horticultural Sciences Department, Gainesville, FL; UF/IFAS Agronomy Department, Gainesville, FL; UF/IFAS Southwest Research and Education Center, Immokalee, FL. (lzota@ufl.edu) [V-23]

5:00 Comparing Screening Methodologies for the Selection of Nitrogen Uptake Efficiency in Solanum chacoense. Christian Christensen, Lincoln Zotarelli, K.G. Haynes, and James Colee. UF/IFAS Horticultural Sciences Department, Gainesville, FL; USDA-ARS, Beltsville, MD; UF/IFAS Statistics Department, Gainesville, FL. (ctchrist@ufl.edu) [V-24]

5:15 Adjourn Session

5:15 Industry Reception (Ticket included in paid conference registration)

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**Tuesday Morning Session**

(9:50 AM – 12:00 PM) Salon 1 & 2

9:50 Welcome and Introductions. Matt Lollar

9:55 Consider Being a Candidate for VP Elect!

D – Pest and Disease Management

10:10 Improving the Efficacy of 1,3-Dichloropropene and Chloropicrin Containing Compounds with Totally Impermeable Film. Mary C. Stevens and Joshua H. Freeman. UF/IFAS North Florida Research and Education Center, Quincy, FL. (mcstevens@ufl.edu) [V-25]

10:15 Preemergence Herbicides for Purple Nutsedge (Cyperus rotundus L.) Control in Strawberry (Fragaria x ananassa Duchesne). Nathan S. Boyd and Tom Reed. UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL. (nsboyd@ufl.edu) [V-26]
10:30 Exploring Options for Managing Foliar Virus and Soilborne Diseases of Tomato with Grafting. Damion J. Graves, Zach Black, Xin Zhao, and Carlene A. Chase. UF/IFAS Horticultural Sciences Department, Gainesville, FL. (djgraves@ufl.edu) [V-27]

10:45 Management of Nematodes in Grafted Cucurbits with Varietal Resistance and Non-Fumigant Nematicides. Cody A. Smith and Joshua H. Freeman. UF/IFAS North Florida Research and Education Center, Quincy, FL. (cstaxidermy@ufl.edu) [V-28]

11:00 Effect of Colored Shade Clothes on The Abundance of Melon Thrips, *Thrips palmi* Karny (Thysanoptera: Thripidae) in Six Vegetable Crops. Mohammad Razzak, Dakshina Seal, and Cathie Sabines. UF/IFAS Tropical Research and Education Center, Homestead, FL. (rafi321@ufl.edu) [V-29]

11:15 Targeted Fumigant Placement and Vertical Management Zones: New Strategies for Nematode and Disease Control in Florida. Joseph W. Noling, Gary Vallad, and Nathan Boyd. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL; UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL. (jnoling@ufl.edu) [V-30]

11:30 End of Section
See you next year!

12:00 Extension Luncheon (Ticket Required)
Monday Afternoon Session

(1:20 – 5:00 PM)

1:20 Welcome and Introductions
Consider Being a Candidate for VP Elect!

1:30 Ground Covers for Organic Mango Production in South Florida. Noris Ledesma1, Richard J. Campbell1 and Jeff Wasielewski2. Fairchild Tropical Botanic Garden, Coral Gables, FL. 1Extension Agent, UF/IFAS Miami-Dade County Extension, Homestead, FL. (nwledesma@fairchildgarden.org) [K-6]

C – The Papaya (Carica papaya)

1:45 Large Cutting Propagation of Papaya (Carica papaya). Wanda Montas and Jonathan Crane. UF/IFAS Tropical Research and Education Center, Homestead, FL. (wmontas@ufl.edu) [K-8]

2:00 Mites Associated with Carica papaya. Daniel Carrillo1, Sabyan Faris Honey1, Leonardo Alvarez Rios1, Rita H. Duncan1, Jorge E. Peña1. UF/IFAS Tropical Research and Education Center, Homestead, FL. 1Extension Agent, UF/IFAS Miami-Dade County Extension, Homestead, FL. (nledesma@fairchildgarden.org) [K-7]

2:15 Physiological and Growth Responses of ‘Red Lady’ Papaya to Flooding and Solid Oxygen Fertilization. Qasim A. Thani1, Ana I. Vargas1, Bruce Schaffer1, Guodong Liu2 and Jonathan Crane1. 1UF/IFAS Tropical Research and Education Center, Homestead, FL. 1UF/IFAS Horticultural Sciences Department, Gainesville, FL. (bas56@ufl.edu) [K-10]

2:30 Break

D – Miscellaneous Tropical and Specialty Crop Fruits

2:45 “Save The Grimal Grove” Restoring a Legendary and Rare Tropical Fruit Collection with the Goal Creating the Southernmost Tropical Fruit Park. Patrick B. Garvey. President & CEO, Growing Hope Initiative and Director, Grimal Grove, Big Pine Key, FL. (patrickbgarvey@gmail.com) [K-11]

3:00 Promoting Wellness through Edible Gardening. Ada Medina-Soloranzo and Christian F. Miller. UF/IFAS Palm Beach County Cooperative Extension, West Palm Beach, FL. (cfmiller@ufl.edu) [K-12]

3:15 The Art of the Sale—An Early History of Marketing Tropical Fruit in South Florida. Adrian Hunsberger. UF/IFAS Extension Miami-Dade County, Homestead, FL. (aghv@ufl.edu) [K-13]

E – Student Competition

3:30 A Survey of the Beneficial Organisms in the Sustainable Mango Orchard. Thiago Campbell and Richard J. Campbell. Fairchild Tropical Botanic Garden, Coral Gables, FL. (c8864@coralreefhigh.org) [K-14]

3:45 Evaluation of New Nematode Resistant Rootstocks for Peach Production in Florida. Mary Ann Maquilian1, T. Beckman2, Mercy Olmstead3 and Jose Chaparro4. Horticultural Sciences Department, University of Florida, Gainesville, FL. 1USDA-ARS Southeastern Tree Fruit and Nut Laboratory, Byron, GA. (mercy@ufl.edu) [K-15]

4:00 Peach Critical Bud Temperatures for Different Phenological Stages. Elizabeth Conlan1, Jun Liu1, Dario Chavez1, Orville Lindstrom1 and Mercy Olmstead2. 1Horticultural Sciences Department, University of Florida, Gainesville, FL. 2Department of Horticulture, University of Georgia, Athens, GA. (mercy@ufl.edu) [K-16]

4:15 Nitrogen Uptake Efficiency of Blueberry (Vaccinium corymbosum L.) in Various Growth Stages. Yang Fang1, Jeff Williamson2, Rebecca Darnell3, Y. Li4 and Guodong Liu5. 1Horticultural Sciences Department, University of Florida, Gainesville, FL. 2Department of Soil and Water Science, UF/IFAS Tropical Research and Extension Center, Homestead, FL. (yangfang@ufl.edu, guodong@ufl.edu) [K-17]

4:30 Irrigation Strategies for Florida Subtropical Peach Production. Carlos Zambrano-Vaca, Mercy Olmstead, and Lincoln Zotarelli. UF/IFAS Horticultural Sciences Department; Gainesville, FL. (mercy@ufl.edu) [K-18]

4:45 Use of Multispectral Imagery Acquired by Hand-held and UAV-mounted Cameras: Differences Between Stressed Avocado Trees Infected by Raffaelea lauricola and Non-Stressed Trees. Carlos A. Pulido, Jennifer L. Gebelein, and DeEtta K. Mills. Florida International University, Miami, FL. (cpuli002@fiu.edu) [K-19]

5:00 End of Session

5:15 Industry Reception (Ticket included in paid conference registration)
Tuesday Morning Session
(9:50 – 11:30) Flamingo
9:50 Welcome and Introductions

F – Muscadine Grapes
10:00 Genetic Variation in Stilbene Metabolism among Muscadine Genotypes. Devaiah Kambiranda. Center for Viticulture and Small Fruit Research, Florida A&M University, Tallahassee, FL. (devaiah29@gmail.com) [K-20]
10:15 ‘O32-18-3’, A Potential Muscadine Seedless Grape. Z. Ren, Jiang Lu, and Violetka Colova. Center for Viticulture and Small Fruit Research, Florida A&M University, Tallahassee, FL. (zxren@hotmail.com) [K-21]

G – Tropical Fruit Roundtable
10:30 Tropical Fruit Roundtable – Threats, Opportunities and Solutions. Richard Campbell¹, Jeff Wasielewski², Christian Miller³, and Jonathan Crane⁴. Fairchild Tropical Botanic Garden, Coral Gables, FL; ¹Extension Agent, UF/IFAS Miami-Dade County Extension, Homestead, FL; ²UF/IFAS Palm Beach County Extension, West Palm Beach, FL; ³Horticultural Sciences Department, UF/IFAS Tropical Research and Education Center, Homestead, FL. (jwasielewski@ufl.edu) [K-22]
11:30 END OF SECTION
See you next year!
12:00 Extension Lunch (Ticket Required)
Monday Afternoon Session

(I:20 – 5:00 PM)

1:20 Welcome and Introductions, Alicia Whidden
Consider Being a Candidate for VP Elect!

C - Student Competition

1:30 Postharvest and Sensory Evaluation of Selected ‘Hass’ - ‘Bacon’ Avocado Hybrid Cultivars Grown in East-Central Florida. Cristina Pisani¹, Mark A. Ritenour¹, Anne Plotto², Rocco T. Alessandro², Ed Stover², and Raymond J. Schnell.¹ UF/IFAS Indian River Research and Education Center, Fort Pierce, FL; ²USDA-ARS Subtropical Horticulture Research Laboratory, Miami, FL. (c.pisani@ufl.edu) [HP-8]

2:00 Can Appearance, Nutritional Quality and Shelf Life of Navel Orange Fruit Be Enhanced by a Postharvest Heat Treatment? M. Ferdous Chowdhury¹, Jeffrey K. Brecht¹, and Mark Ritenour¹. UF/IFAS Horticultural Sciences Department, Gainesville, FL; ¹UF/IFAS Horticultural Sciences Department, Indian River Research and Education Center, Fort Pierce, FL. (mchowdhury@ufl.edu) [HP-10]

2:15 Pretreatment of Olive Mill Waste Water by Power Ultrasound. Hussein Mostafa, Maurice Marshall and Renee Goodrich-Schneider. UF/IFAS Food Science and Human Nutrition Department, Gainesville, FL. (hmostafa@ufl.edu) [HP-11]

2:30 High Power Ultrasound Treatment Effects on Process Yield

Efficiency and Extra Virgin Olive Oil Characteristics. Basheer Igdiam¹, Maurice Marshall¹ and Renee Goodrich-Schneider¹, G. L. Baker¹, Bruce Welt². ¹UF/IFAS Food Science and Human Nutrition Department, Gainesville, FL; ²UF/IFAS Department of Agricultural and Biological Engineering, Gainesville, FL. (bmi3@ufl.edu) [HP-12]

3:45 Validation of E. coli as a Surrogate for Salmonella spp. on the Surface of Grapefruit during Various Packingline Processes. Loretta M. Friedrich¹, Jiuxu Zhang¹, Mark A, Ritenour², and Michelle D. Danylik.¹ UF/IFAS Food Science and Human Nutrition Department, Citrus Research and Education Center, Lake Alfred, FL; ²UF/IFAS Horticultural Sciences Department, Indian River Research and Education Center, Fort Pierce, FL. (lrorrie@ufl.edu) [HP-15]

3:30 Handling and Processing Business Meeting: Amarat Simonne

B – By-Products (cont.)

3:15 Fate of Listeria monocytogenes on Fresh Cut Mangoes Stored at 3 Different Temperatures. Vijendra Sharma, Lorrie Friedrich and Michele D. Danylik. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. (vijendra.food@gmail.com) [HP-17]

4:30 Adjourn
Tuesday Morning Session
(9:50 am – 12:00 pm) Elliott Amphitheater

Amarat Simmonne
Presiding, VP-Elect
(asim@ufl.edu)

Katrina Kelly
Student Assistant
(ktakelly@gmail.com)

9:50 Welcome and Introductions, Amarat Simmonne

D – Food Safety

10:00 Effect of Packingline Processing on the Reduction of Escherichia coli from Inoculated Grapefruit. Jiuxu Zhang¹, Loretta Friedrich¹, Michelle Danyluk¹, and Mark Ritenour¹. ¹UF/IFAS Horticultural Sciences Department, Indian River Research and Education Center, Ft. Pierce, FL; ²UF/IFAS Food Science and Human Nutrition Department, Citrus Research and Education Center, Lake Alfred, FL. (jiuxuzhang@ufl.edu) [HP-18]

10:15 Aflatoxins in Peanut-enriched Flours from Selected Markets in Tanzania. G.D. Kuhumba¹, A.H. Simmonne², J.K. Mugula³. ¹UF/IFAS Food Science and Human Nutrition Department, Gainesville, FL; ²UF/IFAS Family, Youth and Community Sciences Department, Gainesville, FL; ³Department of Food Technology, Nutrition and Consumer Sciences, Sokoine University of Agriculture, Morogoro-Tanzania. (asim@ufl.edu) [HP-19]

E – Fruit Safety

10:30 Effects of Fungicides and/or a Heated Solution Dip on Fruit Quality and Shelf Life of Grapefruit Stored at Ambient or Chilling Temperatures. Jian Li¹, Anne Plotto¹, Elizabeth Baldwin¹, Jinhe Bai¹, and Mark A. Ritenour¹. ¹UF/IFAS Horticultural Research Laboratory, Fort Pierce, FL; ²UF/IFAS Indian River Research and Education Center, Fort Pierce, FL; ³USDA-ARS Horticultural Research Laboratory, Fort Pierce, FL. (lijian@ufl.edu) [HP-20]

10:45 BREAK

11:00 Quality Assessment of Ugali Blended with Orange-fleshed Sweet Potatoes to Fight Against Vitamin A Deficiency in Tanzania. Roman M. Fortunatus, Amarat I. Simonne, and Richard J. Mongi. UF/IFAS Family, Youth and Community Sciences Department, Gainesville, FL. (asim@ufl.edu) [HP-21]

11:15 RNA-sequencing Analysis of the Abscission-related Transcriptome in the Citrus Calyx Abscission Zone of HLB-affected Sweet Orange. Wei Zhao¹, Elizabeth Bladwin¹, Jinhe Bai¹, Anne Plotto¹, and Mike Irey². ¹USDA-ARS Horticultural Research Laboratory, Fort Pierce, FL; ²Southern Gardens Citrus, Clewiston, FL. (Liz.Baldwin@ars.usda.gov) [HP-22]

11:30 Effect of Foliar Nutrition and Insecticides on Quality of Orange Juice Affected by Huanglongbing: Chemical Analysis. Elizabeth Baldwin¹, Jinhe Bai¹, Anne Plotto¹, John Manthey¹, Smita Raithore¹, Sophie Deterre¹, Wei Zhao¹, and Phil Stansly². ¹USDA-ARS Horticultural Research Laboratory, Fort Pierce, FL; ²UF/IFAS Southwest Florida Research and Education Center, Immokalee, FL. (Liz.Baldwin@ars.usda.gov) [HP-23]

11:45 Effect of Nutritional and Insecticidal Sprays on the Quality of ‘Valencia’ Orange Juice: 2. Sensory Evaluation. Anne Plotto¹, Elizabeth Baldwin¹, Jinhe. Bai¹, John A. Manthey¹, Smita Raithore¹, Sophie Deterre¹, Wei Zhao¹, and Phil Stansly². ¹USDA-ARS Horticultural Research Laboratory, Fort Pierce, FL; ²UF/IFAS Southwest Florida Research and Education Center, Immokalee, FL. (Anne.Plotto@ars.usda.gov) [HP-24]

12:00 Session Adjourned
See you next year!

12:00 Extension Luncheon (Ticket Required)
Monday Morning Session

(9:50 AM – Noon) Salon 3

9:50 Welcome and Introductions, Jaime Burrow

A – Varieties and Rootstocks

10:00 The Australian Finger Lime (*Microcitrus australasica*) and its Hybrids as a Potential Niche Crop for Florida. Manjul Dutt, Gary Barthe, Qinb Yu, Kaidong Xie, Ethan Nielsen, Fred Gmitter, and Jude Grosser. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. (manjul@ufl.edu) [C-1]

10:15 Further Observations of Parson Brown and Other “Surviving” Citrus. Gary England. UF/IFAS Lake County Extension, Tavares, FL. (gke@ufl.edu) [C-2]

B – Student Section

10:30 Effect of Foliar Nutrition Programs in Recovery of HLB-Infected Grapefruit Trees. Diego Ramirez, Brian Boman, José Chaparro, and Alan Wright. 1Horticultural Sciences Department, University of Florida, Gainesville, FL; 2UF/IFAS Indian River Research and Education Center, Fort Pierce, FL. (dframireza@ufl.edu) [C-3]

10:45 The Current State of Satsuma Production in Georgia. Jake Price. University of Georgia Cooperative Extension, Valdosta, GA. (jprice@uga.edu) [C-4]

A – Varieties and Rootstocks (cont.)

11:00 Exploring Mechanisms of Citrus Rootstock Tolerance to HLB. Ute Albrecht, Gureet Brar, and Kim Bowman. 1UF/IFAS Southwest Florida Research and Education Center, Immokalee, FL; 2USDA-ARS Horticultural Research Laboratory, Fort Pierce, FL. (ualbrecht@ufl.edu) [C-5]

C – Irrigation and Nutrition

11:15 Irrigation Requirements and Scheduling for HLB Affected Trees. Kelly Morgan. UF/IFAS, Southwest Florida Research and Education Center, Immokalee, FL. (conserv@ufl.edu) [C-6]

Monday Afternoon Session

(1:20 – 4:45 PM)

1:20 Welcome and Introductions, Jamie Burrow

D – Horticulture and Production

1:30 Seasonal Variation in Preharvest Fruit Drop of Florida Oranges in Relationship to Weather and Other Factors. L. Gene Albrigo and T. Ebert. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. (albrigo@ufl.edu) [C-9]

1:45 Pre-Harvest Fruit Drop and Fruit Quality of “Huanglongbing” Affected Sweet Oranges. Tripti Vashisth. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. (tvashisth@ufl.edu) [C-10]

2:00 Growth Measurements and Disease Severity Metrics of Citrus Identifies Resistance and Tolerance to HLB in a Florida Field Planting. G. Miles, E. Stover, C. Ramadugu, M. L. Keremane, and R. F. Lee. 1USDA-ARS Horticultural Research Laboratory, Fort Pierce, FL; 2University of California, Riverside, CA; 3USDA-ARS Riverside, CA. (ed.stover@ars.usda.gov) [C-11]

2:15 HLB-induced Anatomical Changes in Citrus Roots. Naveen Kumar, Fnu Kiran, Pedro Gonzalez, and Ed Etxeberria. 1University of Maryland Eastern Shore, Princess Anne, MD; 2UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. (knaveenkumar@umes.edu) [C-12]

2:30 Break

2:45 Occurrence of HLB Tolerance in Citrus Breeding Populations. A. Mira, F. Gmitter, Q. Yu, M. Mattia, Y. Yu, M.M. El-Sayed, U.K. El-Abbasy, and A.A. El-Aidy. 1UF/IFAS Citrus Research and Education Center, Lake Alfred, FL; 2Tanta University, Tanta, Al Gharbiyah, Egypt. (fgmitter@ufl.edu) [C-13]
Citrus Section

3:00 Hydrogen Cyanamide on Citrus: Phytotoxicity, Influences on Flush in Potted and Field Trees and Effects on Bloom and Cropload in the Field. Ed Stover, Youjian Lin, and Xiaoe Yang. USDA/ARS Horticultural Research Laboratory, Fort Pierce, FL; UF/IFAS Indian River Research and Education Center, Fort Pierce, FL. (ed.stover@ars.usda.gov) [C-14]

3:15 Citrus Section Business Meeting: Tripti Vashisth

E – Plant Pathology

3:30 Importance of Early Season Copper Sprays for Protection of Hamlin Orange Fruit Against Citrus Canker Infection and Premature Fruit Drop. James H. Graham, Carol Brooks, and Henry D. Younce. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL; KAC Agricultural Research, Inc., Deland, FL. (jghraham@ufl.edu) [C-15]

3:45 Are Non-Proteinogenic Amino Acids Essential to the Pathogenicity of Candidatus Liberibacter asiaticus in Citrus? Nabil Killiny and Faraj Hijajz. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. (nabilkilliny@ufl.edu) [C-16]

4:00 Movement of HLB Genetic Signal Within a Citrus Tree: More Questions than Answers. Ed Etxeberria, Craig Broderson, and Pedro Gonzalez. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL; School of Forestry and Environmental Studies, Yale University, New Haven, CT. (eetxeber@ufl.edu) [C-17]

F - Entomology

4:15 Single and Multiple Modes of Action Insecticides for Control of Asian Citrus Psyllid and Citrus Leafminer. Jawwad Querishi, Barry C. Kostyk, and Philip A. Stansly. UF/IFAS Southwest Florida Research and Education Center, Immokalee, FL. (jawwadq@ufl.edu) [C-18]

4:30 Asian Citrus Psyllid Monitoring Through Citrus Health Management Areas (CHMA). B. Page, Michael Rogers, and Tim Riley. UF/IFAS, Citrus Research and Education Center, Lake Alfred, FL; USDA, APHIS, PPQ, Orlando, FL. (bpage@ufl.edu) [C-19]

4:45 End of Session

6:00 Industry Reception (Ticket included in paid conference registration)
In-Service Training
Tuesday Afternoon Session

Salon 1 & 2

“Innovative Genetics and Breeding Approaches Being Used to Address Critical Issues for Florida Horticultural and Agronomic Crops”
Organizer: Steve Sargent, Professor, UF/IFAS Horticultural Sciences Department. (sasa@ufl.edu)

Agenda

1:30 Welcome and Pre-test
1:45 Marker-Assisted Selection in Breeding
   Dr. James Olmstead, UF/IFAS Horticultural Sciences Department,
   Gainesville, FL
2:15 Genetic Approaches for Improvement in UF/IFAS Sweet Sorghum Breeding Program
   Dr. Sanyukta Shukla, UF/IFAS Microbiology and Cell Science Department,
   Gainesville, FL
2:45 Propagating Native Species to Protect Wild Ecosystems
   Dr. Mack Thetford, UF/IFAS Environmental Horticulture Department, West Florida Research and Education Center, Milton, FL
3:15 Break
3:30 Controlling Establishment of Non-Native Species
   Dr. Zhenao Deng, UF/IFAS Environmental Horticulture Department, Gulf Coast Research and Education Center, Wimauma, FL
4:00 Developing Non-conventional Crops for Florida
   Dr. Jose Chaparro, UF/IFAS Horticultural Sciences Department,
   Gainesville, FL
4:30 Application of Genetic and Breeding Techniques for Disease Resistance
   Dr. Jude Grosser, UF/IFAS Horticultural Sciences Department, Citrus Research and Education Center, Lake Alfred, FL
5:00 Post-test and Conclusion
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