

## Monday Morning Session

(10:00 A.M. – Noon)

### 9:50 Welcome and Introductions, Tripti Vashisth

#### A- Huanglongbing and citrus physiology

#### 10:00 An Improved Method to Track Changes in CLas Titer of HLB-Affected Citrus Trees Reveals the Extended Persistence of CLas DNA After Cell Death. Ed Etxeberria, Pedro

Gonzalez, Christopher Vincent, Ariel Singerman, Arnold Schumann. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL [C-1]

#### 10:15 Influence Of Oscillating Stress On Huanglongbing Development In Graft-Inoculated Citrus. Ed Stover<sup>1</sup>, Robert G. Shatters<sup>1</sup>, Ashley Witkowski<sup>2</sup>, Jude Grosser<sup>3</sup>, Gloria A. Moore<sup>4</sup>.

<sup>1</sup>USDA-ARS Horticultural Research Laboratory, Fort Pierce, FL; <sup>2</sup>UF/IFAS Indian River Research and Education Center, Fort Pierce, FL; <sup>3</sup>UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. [C-2].

#### 10:30 Phospholipase D (PLD) as an Indicator of Root Nutritional Status and Health in Citrus.

Fernando Alferez<sup>1</sup>, James H. Graham<sup>2</sup>. <sup>1</sup>UF/IFAS South West Florida Research and Education Center, Immokalee, FL; <sup>2</sup>UF/IFAS Citrus Research and Education Center, Lake Alfred, FL.[C-3]

#### 10:45 Strigolactone induced anatomical changes in HLB-infected citrus. Naveen Kumar<sup>1</sup>, Ed.

Etxeberria<sup>2</sup>. <sup>1</sup>University of Maryland Eastern Shore, Princess Anne, MD; <sup>2</sup>UF/IFAS Citrus Research and Education Center, Lake Alfred, FL [C-4]

#### B- Student Presentations

#### 11:00 Dynamics of Endophytic and Pathogenic *Phyllosticta* spp. in Floridian Citrus Leaves Associated with Citrus Black Spot. K. Zhang<sup>1</sup>, M. M. Dewdney<sup>1</sup>, J. A. Rollins<sup>2</sup>. <sup>1</sup>UF/IFAS

Citrus Research and Education Center, Lake Alfred, FL; <sup>2</sup> UF/IFAS Department of Plant Pathology, Gainesville, FL [C-5]

#### 11:15 Steam-generated Thermotherapy: How does Canopy and Root of HLB-affected Citrus trees respond to it? Naweena Thapa, Sara L. Commerford, Reza Ehsani, Evan G. Johnson, Megan Dewdney. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL [C-6]

#### 11:30 Differences in the nutrient uptake of healthy and huanglongbing affected sweet orange plants. Faisal Shahzad<sup>1</sup>, Changpin Chun<sup>2</sup>, Arnold Schumann<sup>1</sup>, Tripti Vashisth<sup>1</sup>. <sup>1</sup>UF/IFAS Citrus

Research and Education Center, Lake Alfred, FL; <sup>2</sup>Citrus Research Institute Chinese Academy of Agricultural Sciences/ Southwest University, China. [C-7]

**11:45 Sensory Evaluation of Four University of Florida-Developed Mandarins and a Commercial California Cultivar.** Matthew R. Mattia and Fred G. Gmitter Jr. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. [C-8]

12:00-1:20 **Lunch (on your own)**

## Monday Afternoon Session

(1:20P.M. to 4.00P.M.)

1:20 Welcome and Introductions, Tripti Vashisth

### A – Citrus Diseases

**1:30 Detection of phenopropanoids in citrus leaf tissue exposed to citrus canker.** Chris Ference<sup>1,2</sup>, John Manthey<sup>1</sup>, Jan Narciso<sup>1</sup>, Elizabeth Baldwin<sup>1</sup> and Jeff Jones<sup>2</sup>. <sup>1</sup>U.S. Department of Agriculture, Agricultural Research Service, U.S. Horticultural Laboratory; <sup>2</sup>Gainesville, University of Florida [C-9]

### D – Citrus production techniques

**1:45 Chemical Control Of Asian Citrus Psyllid Using Foliar Sprays Of Selective And Broad-Spectrum Insecticides.** Jawwad A. Qureshi<sup>1,2</sup>, Barry C. Kostyk<sup>2</sup>, and Philip A. Stansly<sup>2</sup>. <sup>1</sup>UF/IFAS Indian River Research and Education Center, Fort Pierce, FL; <sup>2</sup>UF/IFAS Southwest Florida Research and Education Center, Immokalee, FL.[C-10]

**2:00 Soil Microbial Product Interactions with HLB in Valencia/Swingle Trees Over Three Seasons at Three Contrasting Sites in Florida.** Jim Syvertsen, Project Manager, Citrus Research and Development Foundation, UF/IFAS Citrus Research and Education Center, Lake Alfred, FL [C-11]

**2:15 Response of young citrus to varied nitrogen and irrigation rates and greening infection-preliminary.** Davie Kadyampakeni<sup>1</sup>, Sarah Strauss<sup>2</sup>, Arnold Schumann<sup>1</sup>, and Kelly Morgan<sup>2</sup>. <sup>1</sup>UF/IFAS Citrus Research and Education Center, Lake Alfred, FL; <sup>2</sup>UF/IFAS Southwest Florida Research and Education Center, Immokalee, FL. [C-12]

**2:30 Hydroponic citrus: a high performance growing system for fresh Citrus under Protective Screen (CUPS).** Arnold Schumann, Laura Waldo, Danny Holmes, Tracy Hartzog. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. [C-13]

**2:45 Greening Detection by Smartphone.** Alireza Pourreza<sup>1</sup>, Ed Etxeberria<sup>2</sup>, Christopher Vincent<sup>2</sup>, and Pedro Gonzalez-Blanco<sup>2</sup>. <sup>1</sup>Kearney Agricultural Research & Extension Center, University of California, Division of Agriculture and Natural Resources, Parlier, CA, <sup>2</sup>UF/IFAS Citrus Research and Education Center, Lake Alfred, FL [C-14]

**3:00 Citrus Section Business Meeting: Ute Albrecht**

**3:15 Afternoon Session Adjourns**

# Tuesday Morning Session

(10:00 AM to 12:00 P.M.)

## A – Citrus Outreach/Economics

- 10:00 Increasing Citrus Industry Awareness of young people- a review of the Successful Highlands County 4-H Youth Citrus Program.** Laurie A. Hurner, UF/IFAS Extension Highlands County, Sebring, FL. [C-15]
- 10:15 Competing Perspectives among Employers and Worker Advocates Regarding Citrus Harvesting with H-2A Workers.** Carlene Thissen and Fritz Roka. UF/IFAS Southwest Research & Education Center, Immokalee, FL [C-16]

## B – Citrus nursery production

- 10:30 Influence of propagation method on growth of young citrus rootstock plants.** Ute Albrecht<sup>1</sup>, Mireia Bordas<sup>2</sup>, Beth Lamb<sup>3</sup>, Bo Meyering<sup>1</sup>, Kim D. Bowman<sup>4</sup>. <sup>1</sup>UF/IFAS Southwest Florida Research and Education Center, Immokalee, FL; <sup>2</sup>Agromillora Florida, Wildwood, FL; <sup>3</sup>Phillip Rucks Nursery, Frostproof, FL; <sup>4</sup>USDA-ARS Horticultural Research Laboratory, Fort Pierce, FL [C-17]
- 10:45 Use of compost in growing media to accelerate germination, growth and development of citrus rootstock.** Tripti Vashisth<sup>1</sup>, Changpin Chun<sup>2</sup>, Monica Ozores Hampton<sup>3</sup>. <sup>1</sup>UF/IFAS Citrus Research and Education Center, Lake Alfred, FL; <sup>2</sup> Citrus Research Institute Chinese Academy of Agricultural Sciences/ Southwest University, China; <sup>3</sup>UF/IFAS Southwest Florida Research and Education Center, Immokalee, FL. [C-19]

## B – Citrus variety improvement and flavor

- 11:00 Metabolomics evaluation of newly released HLB-tolerant citrus varieties.** Nabil Killiny, Manjul Dutt, Ahmad A. Omar, Fred G. Gmitter, Jr., and Jude W. Grosser. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. [C-20]
- 11:15 Identification of functional genes and biosynthesis pathways associated with production of volatile and non-volatile flavor components in mandarin fruit.** Qibin Yu<sup>1</sup>, Ming Huang<sup>1</sup>, Yuan Yu<sup>1</sup>, Matthew Mattia<sup>1</sup>, Hongge Jia<sup>1</sup>, Nian Wang<sup>1</sup>, Frederick G. Gmitter Jr. <sup>1</sup>, Anne Plotto<sup>2</sup>, Elizabeth A. Baldwin<sup>2</sup>, Jinhe Bai<sup>2</sup>. <sup>1</sup>UF/IFAS Citrus Research and Education Center, Lake Alfred, FL, <sup>2</sup>USDA-ARS Horticultural Research Laboratory, Fort Pierce, FL [C-22]
- 11:45 An update on finger lime evaluation and improvement research at the CREC.** Manjul Dutt, Ethan Nielsen, Qibin Yu, Fred Gmitter and Jude Grosser. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL [C-23]

**12:00 End of Program**

## FSHS Vegetable Section

Matt Lollar  
Presiding  
([mlollar@ufl.edu](mailto:mlollar@ufl.edu))

### Monday Morning Session

(10:00 A.M. – Noon)

**9:50 Welcome and Introductions, Matt Lollar**

#### A – Vegetable Trials

**10:00 Development of Artichoke Production Strategies in Florida: Cultivar Selection and Vernalization by Gibberellic Acid.** Shinsuke Agehara, Gulf Coast Research and Education Center, Wimauma, FL. ([sagehara@ufl.edu](mailto:sagehara@ufl.edu)) [V-1]

**10:15 Asian Vegetables Rapidly Expanding in Florida.**

Muhammad A. Shahid<sup>1</sup>, Guodong Liu<sup>1</sup>, Bonnie Wells<sup>2</sup>, David Dinkins<sup>3</sup>, Qingren Wang<sup>4</sup>, Christian Miller<sup>5</sup>, Kshitij Khatri<sup>1</sup>, John Sykes<sup>6</sup>. <sup>1</sup>UF/IFAS Horticultural Sciences, Gainesville, FL; <sup>2</sup> UF/IFAS St. John's County Extension, St. Augustine, FL; <sup>3</sup> UF/IFAS Putnam County Extension, Palatka, FL; <sup>4</sup> UF/IFAS Miami-Dade County Extension, Homestead, FL; <sup>5</sup> UF/IFAS Palm Beach County Extension, West Palm Beach, FL; <sup>6</sup>Sykes-Cooper Farms, Elkton, FL. ([guodong@ufl.edu](mailto:guodong@ufl.edu)) [V-2]

**10:30 Year-round Production of Scotch Bonnet Hot Pepper in North Florida.** A. Bolques<sup>1</sup>, G. Queeley<sup>1</sup>, F. Ospina<sup>1</sup>, and V. Richardson<sup>2</sup>. <sup>1</sup>FAMU Quincy Research and Extension Center, Quincy, FL; <sup>2</sup>FAMU Cooperative Extension Program, Tallahassee, FL. ([abol@ufl.edu](mailto:abol@ufl.edu)) [V-3]

**10:45 Yield, Market Quality, and Bitterness of Lettuce (*Lactuca sativa*) Cultivars Grown Hydroponically in a North Florida Greenhouse During the Summer.** R. C. Hochmuth<sup>1</sup>, W. L. Laughlin<sup>1</sup>, E A. Martin<sup>1</sup>, R. Naccour<sup>1</sup>, A.H. Simonne<sup>2</sup>, and J. Gou<sup>3</sup>. <sup>1</sup>UF/IFAS Suwannee Valley Agricultural Extension Center, Live Oak, FL; <sup>2</sup>UF/IFAS Family, Youth and Community Sciences Department, Gainesville, FL; <sup>3</sup> UF/IFAS Food Science and Human Nutrition Department, Gainesville, FL. ([bobhoch@ufl.edu](mailto:bobhoch@ufl.edu)) [V-4]

#### B – Nutrient Management

**11:00 Comparison between Petiole Sap Nitrate-N and Leaf N Concentrations as Predictor of Watermelon [*Citrullus lanatus* (Thunb.) Matsum. & Nakai]] Yield with Variable Nitrogen Rates.** Tanumoy Bera, Muhammad Adnan Shahid, Guodong Liu, UF/IFAS Horticultural Sciences, Gainesville, FL. ([tbera@ufl.edu](mailto:tbera@ufl.edu)) [V-5]

**11:15 Implementing Crop Rotation with Controlled Release Fertilizer to Improve Vegetable Production.** Qingren Wang, UF/IFAS Miami-Dade Extension, Homestead, FL. ([qrwang@ufl.edu](mailto:qrwang@ufl.edu)) [V-6]

**11:30 Effects of Grafting, Organic Fertilization, and Plant Growth Promoting Rhizobacteria on Specialty Melon Production.** X. Zhao<sup>1</sup>, Y. Tang<sup>2</sup>, Z. Black<sup>1</sup>. <sup>1</sup>UF/IFAS Horticultural Sciences Department, Gainesville, FL; <sup>2</sup>College of Horticulture, Shenyang Agricultural University, Shenyang, China. ([zxin@ufl.edu](mailto:zxin@ufl.edu)) [V-7]

**11:45 A Preliminary Study on Biostimulants and Surfactant for Tomato Production in North Florida.** Muhammad Shahid, Guodong Liu, UF/IFAS Horticultural Sciences, Gainesville, FL. ([mshahid@ufl.edu](mailto:mshahid@ufl.edu)) [V-8]

**12:00 Lunch**

## Monday Afternoon Session

(1:20 P.M. – 4:00 P.M.)

### C – Student Presentations

**1:20 Introduction and Welcome, Matt Lollar**

**1:30 Determination of Methodology and Temperature Regime for the Estimation of Tomato (*Lycopersicon esculentum*) Growth and Maturity Using Heat Unit Accumulation in Florida Warm Climate.** I. T. Ayankojo and K. T. Morgan, UF/IFAS Southwest Florida Research and Education Center, Immokalee, FL. ([iayankojo@ufl.edu](mailto:iayankojo@ufl.edu)) [V-9]

**1:45 Optimization of Microenvironments by Multi-Colored Plastic Mulch Improves Earliness and Total Yield of Strawberry.** S. Deschamps, K. Folta, S. Lee, V. Whitaker, S. Agehara, UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL. ([sdeschamps@ufl.edu](mailto:sdeschamps@ufl.edu)) [V-10]

**2:00 A Comparison Of High Tunnel And Open Field Production Systems For Organic Spinach Production In Florida.** C. Frey, X. Zhao, and J. K. Brecht, UF/IFAS Horticultural Sciences, Gainesville, FL. ([cf1193@ufl.edu](mailto:cf1193@ufl.edu)) [V-11]

**2:15 Exploring the Feasibility of Using Fertigation for Florida's Commercial Potato Production.** Xiangju Fu<sup>1</sup>, Guodong Liu<sup>1</sup>, Lincoln Zotarelli<sup>1</sup>, Steve Sargent<sup>1</sup>, Crystal Snodgrass<sup>2</sup>, Alan Jones<sup>3</sup>. <sup>1</sup>UF/IFAS Horticultural Sciences, Gainesville, FL; <sup>2</sup>UF/IFAS

Extension Manatee County, Palmetto, FL; <sup>3</sup>Jones Potato Farm, Parrish, FL. ([xiangjufu@ufl.edu](mailto:xiangjufu@ufl.edu)) [V-12]

**2:30 Using Surfactants To Increase The Efficacy Of Commonly Used Insecticides In Controlling Melon Thrips On Tomatoes.** R. A. Khan<sup>1</sup>, D.R. Seal<sup>1</sup>, S. Zhang<sup>1</sup>, E. Evans<sup>1</sup>, O. Liburd<sup>2</sup>, R. Srinivasan<sup>3</sup>. <sup>1</sup>UF/IFAS Tropical Research and Education Center, Homestead, FL; <sup>2</sup>UF/IFAS Department of Entomology and Nematology, Gainesville, FL; University of Georgia Entomology, Tifton, GA. ([rkhan@ufl.edu](mailto:rkhan@ufl.edu)) [V-13]

**2:45 Influence of *Capsicum baccatum* ‘Barra do Ribeiro’ Rootstock on Bell Pepper (*Capsicum annuum* ‘Hunter’) Growth, Flowering, Yield, and Fruit Quality.** Dylan Kovach, X. Zhao, B. Rathinasabapathi. UF/IFAS Horticultural Sciences, Gainesville, FL. ([dckovach@ufl.edu](mailto:dckovach@ufl.edu)) [V-14]

**2:45 Enhancing P-use Efficiency for Potato Production in Northeast Florida.** D. Racano<sup>1</sup>, Y. Cui<sup>1</sup>, S. Sargent<sup>1</sup>, L. Zotarelli<sup>1</sup>, Guodong Liu<sup>1</sup>, D. Dinkins<sup>2</sup>, Danny Johns<sup>3</sup>. UF/IFAS Horticultural Sciences; <sup>2</sup>UF/IFAS Putnam County Extension, E. Palatka, FL. <sup>3</sup>Blue Sky Farms, Elkton, FL. ([racanod@ufl.edu](mailto:racanod@ufl.edu)) [V-15]

**3:00 Effects of Plastic Mulches on the Abundance of *Thrips palmi* and on the Growth and Yield of 'Jalapeno' Pepper, *Capsicum annuum*, in Southern Florida.** M. A. Razzak, D. Seal, and C. Sabines, UF/IFAS Tropical Research and Education Center, Homestead, FL. ([rafi321@ufl.edu](mailto:rafi321@ufl.edu)) [V-16]

**3:15 Using a Scanner-based Rhizotron System to Characterize Root Morphological Responses of Bare-root Strawberry Transplants to Nitrogen Fertilization Rates** Bhagatveer Sangha<sup>1</sup>, Shinsuke Agehara<sup>1</sup>, Vance Whittaker<sup>1</sup>, Guodong Liu<sup>2</sup>, Diane Rowland<sup>3</sup>. <sup>1</sup>UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL; UF/IFAS Horticultural Sciences, Gainesville, FL; <sup>3</sup>UF/IFAS Department of Agronomy, Gainesville, FL. ([bssangha21@ufl.edu](mailto:bssangha21@ufl.edu)) [V-17].

**3:30 Effect of Phosphorus Rates on Tomato Growth and Yield in Calcareous Soils.** Qiang Zhu<sup>1</sup>, Monica Ozores-Hampton<sup>1</sup>, Yuncong Li<sup>2</sup>, Kelly Morgan<sup>1</sup>. UF/IFAS Southwest Florida Research and Education Center, Immokalee, FL; UF/IFAS Tropical Research and Education Center, Homestead, FL. ([qiangzhu@ufl.edu](mailto:qiangzhu@ufl.edu)) [V-18].

**3:45 Vegetable Section Business Meeting: Qingren Wang**

**4:00 End of Afternoon Session**

## Tuesday Morning Session

(10:00 A.M. – Noon)

**9:50 Welcome and Introductions, Qingren Wang**

### D – Plant Breeding

**10:00 Optimization of Heat Stress Mitigation Measures for Strawberry Plug Transplant Establishment.** P. K. Dash<sup>1</sup>, C. A. Chase<sup>1</sup>, L. Zotarelli<sup>1</sup>, S. Agehara<sup>2</sup>, Z. Guan<sup>2</sup>. <sup>1</sup>UF/IFAS Horticultural Sciences, Gainesville, FL; UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL. ([prosanta05@ufl.edu](mailto:prosanta05@ufl.edu)) [V-19]

**10:15 Developing Superior Strawberry Cultivars with Advanced DNA Technologies.** S. Lee<sup>1</sup>, Y-H, Noh<sup>1</sup>, A. Anciro<sup>1</sup>, S. Verma<sup>1</sup>, C-M, Yoo<sup>1</sup>, V. M. Whitaker<sup>1</sup>, C. R. Barbey<sup>2</sup>, K. M. Folta<sup>2</sup>. <sup>1</sup>UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL; <sup>2</sup>UF/IFAS Horticultural Sciences Department, Gainesville, FL. ([seonghee105@ufl.edu](mailto:seonghee105@ufl.edu)) [V-20]

**10:30 Breeding and Genetics of Tropical Vegetables at TREC.** Geoffrey Meru, UF/IFAS Tropical Research and Education Center, Homestead, FL. ([gmeru@ufl.edu](mailto:gmeru@ufl.edu)) [V-21]

### F – Pest Management

**10:45 Management Programs for Stemphylium Leaf Spot on Baby Leaf Spinach.** C. F. Miller<sup>1</sup>, G. Sandoya<sup>2</sup>, D. Hartman<sup>2</sup>, J. Vital<sup>2</sup> and R. N., Raid<sup>2</sup>. <sup>1</sup>UF/IFAS Extension Palm Beach County, West Palm Beach, FL, <sup>2</sup>UF/IFAS Everglades Research and Education Center, Belle Glade, FL [V-22].

**11:00 The Treatment Window Approach for Managing Diamondback Moth (Lepidoptera: Plutellidae) in Brassica Crops in Florida.** B.C. Wells, DPM<sup>1</sup>, H.A. Smith<sup>2</sup>, G.K. English<sup>3</sup>, M.W. Warren<sup>4</sup>. <sup>1</sup>UF/IFAS St. Johns County Extension, St. Augustine, FL; <sup>2</sup>UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL; <sup>3</sup>Hastings Agricultural Extension Center, Hastings, FL; <sup>4</sup>UF/IFAS Flagler County Extension, Bunnell, FL. ([bcwells@ufl.edu](mailto:bcwells@ufl.edu)) [V-23]

**11:15 What is the role of melon thrips in the Tomato Chlorotic Spot Virus (TCSV) infected tomato fields?** D.R. Seal, R. A. Khan, M. Razzak, C.M. Sabines. UF/IFAS Tropical Research and Education Center, Homestead, FL. ([dseal3@ufl.edu](mailto:dseal3@ufl.edu)) [V-24]



**11:30 Purple Nutsedge (*Cyperus rotundus* L.) Control in Tomato with Preemergence Halosulfuron Applications.** Nathan S. Boyd, Jialin Yu. UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL. ([nsboyd@ufl.edu](mailto:nsboyd@ufl.edu)) [V-25]

**11:45 Identification of Nutsedge Weeds in Vegetable Plasticulture Using Machine Vision.** Arnold Schumann<sup>1</sup>, Nathan Boyd<sup>2</sup>, Matshwene Moshia<sup>3</sup>, Laura Waldo<sup>1</sup>. <sup>1</sup>UF/IFAS Citrus Research and Education Center; <sup>2</sup>UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL; <sup>3</sup>Department of Crop Science, Tshwane University of Technology, Pretoria, South Africa. ([shumaw@ufl.edu](mailto:shumaw@ufl.edu)) [V-26]

**12:00 End of Program**

# Handling and Processing Section

---

Amy Simonne

Presiding

([asim@ufl.edu](mailto:asim@ufl.edu))

## Monday Morning Session

(10:00 AM – 12:15 PM)

9:50 Welcome and Introductions, Amy Simonne

### A- Postharvest Handling

- 10:00 Postharvest storage quality of grapefruit placed in polyethylene bags with or without micro-perforation. **Zhilei Zhao<sup>1</sup>, Jian Li<sup>2</sup>, Jiqi Yan<sup>3</sup>, Cuifeng Hu<sup>4</sup>, Mark A. Ritenour<sup>4</sup> and Jinhe Bai<sup>5</sup>**.  
<sup>1</sup>University of Hebei, China, <sup>2</sup>Beijing Technology and Business University, China, <sup>3</sup>China Agricultural University, China, <sup>4</sup>UF/ IFAS Indian River Research and Education Center, Fort Pierce, FL, <sup>5</sup>USDA-ARS, US Horticultural Research Laboratory, Ft. Pierce, FL. ([ritenour@ufl.edu](mailto:ritenour@ufl.edu)) [HP-1].
- 10:15 Sensory quality of fresh-cut mango at the consumer level sampled through the year. **Jeffrey K. Brecht<sup>1</sup>, Anne Plotto<sup>2</sup>, Elizabeth A. Baldwin<sup>2</sup>, Jinhe Bai<sup>2</sup>, Carlos Crisosto<sup>3</sup> and Gayle Crisosto<sup>3</sup>**. <sup>1</sup>UF/IFAS, Horticultural Sciences Department, Gainesville, FL, <sup>2</sup>USDA-ARS, US Horticultural Research Laboratory, Fort Pierce, FL, <sup>3</sup>University of California, Davis ([jbk@ufl.edu](mailto:jbk@ufl.edu)) [HP-2]
- 10:30 Use of electronic tongue for differentiation of tomato taste by cultivar, harvest maturity, and chilling or heating exposure. **S. Xu<sup>1</sup>, J. Li<sup>2</sup>, E.A., Baldwin<sup>3</sup>, A. Plotto<sup>3</sup>, E. Roskopf<sup>3</sup>, J. C. Hong<sup>3</sup>, J. Bai<sup>3</sup>**, <sup>1</sup>College of Engineering, South China Agricultural University, Guangdong, China, <sup>2</sup>Beijing Technology and Business University, Beijing, China, <sup>3</sup>USDA-ARS, US Horticultural Research Laboratory, Ft. Pierce, FL ([Jinhe.Bai@ARS.USDA.GOV](mailto:Jinhe.Bai@ARS.USDA.GOV)) [HP-3]
- 10:45 Reduction of Stem End Rind Breakdown on 'Valencia' Orange after Wrapping Individual Fruit in Polyethylene Bags. **Cuifeng Hu, Mark A. Ritenour, Yifen Lin<sup>2</sup>, Suming Dai<sup>3</sup>, and Zhilei Zhao<sup>4</sup>**.  
<sup>1</sup>UF/IFAS Indian River Research and Education Center, Fort Pierce, FL, <sup>2</sup>Fujian Agriculture and Forestry University, China, <sup>3</sup>Hunan Agricultural University, China, <sup>4</sup>University of Hebei, China. ([ritenour@ufl.edu](mailto:ritenour@ufl.edu)) [HP-4]
- 11:00 **Potential of Partial Cooling to Expand Handling Options for Fresh-Market Strawberry**  
Fernando J. Guamán, **Steven A. Sargent**, Jeffrey K. Brecht, Adrian D. Berry and Merce Santana.  
UF/IFAS, Horticultural Sciences Department, Gainesville, FL ([sasa@ufl.edu](mailto:sasa@ufl.edu)) [HP-5]

## B- Processing

- 11:15 Effect of Field Solar Thermotherapy on Mitigation of Huanglongbing (HLB) Induced Orange Juice Off-flavor. **M. Doud, A. Plotto, E. Baldwin, J. Bai, J. Manthey, S. Raithore, W. Zhao, W. Luo, E. Stover, C. Armstrong, YP. Duan.** USDA-ARS, US Horticultural Research Laboratory, Fort Pierce, FL. ([Anne.Plotto@ARS.USDA.GOV](mailto:Anne.Plotto@ARS.USDA.GOV)) [HP-6].
- 11:30 Effect of Postharvest Pre-cooling, Degreening Temperature, and LED Light Treatments on 'Vernia' Degreening. **Su-ming Dai<sup>1</sup>, Cuifeng Hu<sup>2</sup>, and Mark A. Ritenour<sup>2</sup>.** <sup>1</sup>National Center for Citrus Improvement, Changsha, Hunan Agricultural University, Changsha, Hunan, China, <sup>2</sup>UF/IFAS, Indian River Research and Education Center, Fort Pierce, FL. ([ritenour@ufl.edu](mailto:ritenour@ufl.edu)) [HP-7].

## C- Food Safety

- 11:45 Effect of Subsurface Irrigation Systems on Microbial Water Quality of Agricultural Water in South Florida. **Travis K. Chapin and Michelle D. Danyluk.** UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. ([tkchapin@ufl.edu](mailto:tkchapin@ufl.edu)) [HP-8].
- 12:00 Reduction of E. coli as a Surrogate for Salmonella spp. on the Surface of Grapefruit during Various Packingline Processes. **Michelle D. Danyluk<sup>1</sup> Loretta M. Friedrich<sup>1</sup>, Jiuxu Zhang<sup>2</sup>, and Mark A. Ritenour<sup>2</sup>,** <sup>1</sup>UF/IFAS Citrus Research and Education Center, Lake Alfred, FL; <sup>2</sup>UF/IFAS Indian River Research and Education Center, Fort Pierce, FL. ([mddanyluk@ufl.edu](mailto:mddanyluk@ufl.edu)) [HP-9].
- 12:15 – 1:20 **Lunch (on your own)**

## Monday Afternoon Session

- 1:20 Welcome and Introductions, **Amy Simonne**

## D- Student Presentations

- 1:30 Phenylalanine Ammonia-Lyase Activity and the Impact on Color And Anthocyanin Content Of Strawberries During Cold Storage. **Katrina E. Kelly** and **Cecilia do Nascimento Nunes**, University of South Florida, Food Quality Laboratory, Department of Cell Biology, Microbiology and Molecular Biology, Tampa, FL ([takelly@gmail.com](mailto:takelly@gmail.com)) [HP-10]
- 1:45 A Survey of the Microbiological Quality of Florida Farmers' Market Fresh Produce. **L. K. Roth<sup>1</sup>, S. Ahn<sup>1</sup>, A. Simonne<sup>2</sup>, and L. House<sup>3</sup>.** <sup>1</sup>UF/IFAS Department of Food Science and Human Nutrition, Gainesville, FL, <sup>2</sup>UF/IFAS Department of Family, Youth and Community Sciences, Gainesville, FL, <sup>3</sup>UF/IFAS Department of Food and Resource Economics, Gainesville, FL. ([lroth@ufl.edu](mailto:lroth@ufl.edu)) [HP-11]
- 2:00 Assessment of Antioxidant Capacity of Different Orange Juices and Drinks and Their Effect on Blood Antioxidant Activity of Healthy Individuals. **P. S. Ferreira<sup>1</sup>, D. R. Gonçalves<sup>1</sup>, M. S. Nery<sup>1</sup>, T. B. Cesar<sup>1</sup>, K. Zang<sup>2</sup>, and E. A. Baldwin<sup>3</sup>.** <sup>1</sup>School of Pharmaceutical Sciences, UNESP Univ Estadual

- Paulista Julio de Mesquita Filho, Araraquara, São Paulo, Brazil, <sup>2</sup>Villanova University, Villanova, PA, <sup>3</sup>USDA-ARS Horticultural Research Laboratory, Fort Pierce, FL. ([paullasf@gmail.com](mailto:paullasf@gmail.com)) [HP-12]
- 2:15 Assessing the Effectiveness of Sanitizer Spray and PVC Roller Treatment on Reducing the Population of a Five-Strain *Salmonella enterica* Cocktail on Mango Surfaces. **Xinyue Wang and Michelle D. Danyluk**, UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. ([xwang121@ufl.edu](mailto:xwang121@ufl.edu)) [HP-13]
- 2:30 Reduction of Salmonella on the Surface of Green Skin Avocados by Antimicrobial Chemicals in a Pilot PVC Wash System. **Lidia N. Valdes G. and Michelle D. Danyluk**. UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. ([lidiavaldes@ufl.edu](mailto:lidiavaldes@ufl.edu)) [HP-14]
- 2:45 Florida Master Gardener Volunteers' Knowledge and Practice of Food Safety. **Jing Guo<sup>1</sup>, Beth Gankofskie<sup>1</sup>, Candice Stefanou<sup>2</sup>, Anne Mathews<sup>1</sup>, Wendy Wilber<sup>3</sup> and Amy Simonne<sup>2</sup>**, <sup>1</sup>UF/IFAS Food Science and Human Nutrition Department, Gainesville, FL, <sup>2</sup>UF/IFAS Family, Youth and Community Sciences, Gainesville, FL, <sup>3</sup>UF/IFAS, Center for Landscape Conservation and Ecology, Gainesville, FL ([asim@ufl.edu](mailto:asim@ufl.edu) or [jguo887@ufl.edu](mailto:jguo887@ufl.edu)) [HP-15]
- 3:00 **BREAK**
- 3:15 Harvest Maturity Stage Affects Fruit Quality and Postharvest Behavior of Red-Fleshed Pitaya (*Hylocereus costaricensis*). **Nur Azlin Razali, Steven A. Sargent, Adrian D. Berry and Jeffrey K. Brecht**. UF/IFAS, Horticultural Sciences Department, Gainesville, ([nurazlinrazali@ufl.edu](mailto:nurazlinrazali@ufl.edu)) [HP-16]
- 3:30 Postharvest Performance of Spinach from High Tunnel and Open Field Production Systems. **C. Frey, J. K. Brecht and X. Zhao**, UF/IFAS Horticultural Sciences Department, Gainesville, FL ([cf1193@ufl.edu](mailto:cf1193@ufl.edu)) [HP-17]
- 3:45 Flavoromics Analysis of Mandarin Varieties. **Liying Niu<sup>1,2</sup>, Shi Feng<sup>2</sup>, and Yu Wang<sup>2</sup>**. <sup>1</sup>Institute of Farm Product Processing, Jiangsu Academy of Agricultural Science, China; <sup>2</sup> UF/IFAS Citrus Research and Education Center, Lake Alfred, FL. ([yu.wang@ufl.edu](mailto:yu.wang@ufl.edu)) [HP-18].
- 4:00 Inactivation of Aflatoxins B1 and B2 in Peanuts by Pulsed Light (PL). **Manal Abuagela**, Paul J Sarnoski, and Liwei Gu, UF/IFAS, Food Science and Human Nutrition Department, Gainesville, ([mabuagela@ufl.edu](mailto:mabuagela@ufl.edu)) FL. [HP-19]
- 4:15 **Handling and Processing Business Meeting:**
- 4:30 **Adjourn**

# Tuesday Morning Session

(10:00 am-12:00 pm)

9:50 Welcome and Introductions, Christina Dorado

## E- By-Products

- 10:00 White Tea Scented with Grapefruit Peel: A New Product  
Yuqiong Guo, Fujian Agriculture and Forestry University, Fuzhou, China, Cuifeng Hu and **Mark A. Ritenour**, UF Indian River Research and Education Center, Fort Pierce, and Jinhe Bai, USDA, ARS, USHRL, Ft. Pierce ([ritenour@ufl.edu](mailto:ritenour@ufl.edu)) [HP-20]
- 10:15 Effect of abscission zone formation and secondary fungal infection on healthy and huanglongbing- affected orange fruit juice quality. **Elizabeth Baldwin<sup>1</sup>, Anne Plotto<sup>1</sup>, Jinhe Bai<sup>1</sup>, Wei Zhao<sup>1</sup>, John Manthey<sup>1</sup>, Smita Raithore<sup>2</sup> and Mike Ireys<sup>3</sup>**. <sup>1</sup>USDA/ARS Horticultural Research Laboratory, Ft. Pierce, FL, <sup>2</sup>Symrise Inc., Branchburg, NJ, <sup>3</sup>Southern Gardens Citrus, Clewiston, FL ([Liz.Baldwin@ARS.USDA.GOV](mailto:Liz.Baldwin@ARS.USDA.GOV)) [HP-21].
- 10:30 Preliminary isolation and evaluation of antimicrobial compound production in vitro by *Lasiodiplodia theobromae*. Jiuxu Zhang<sup>1</sup>, **Mark A Ritenour<sup>1</sup>**, and Elizabeth Baldwin<sup>2</sup>. <sup>1</sup>UF/IFAS Indian River Research and Education Center, Fort Pierce, FL, <sup>2</sup>USDA-ARS, US Horticultural Research Laboratory, Fort Pierce, FL. ([ritenour@ufl.edu](mailto:ritenour@ufl.edu)) [HP-22]
- 10:45 Modified citrus pectin inhibits galactan-3 protein, a protein involved in tumor metastasis. **Wei Zhao, Randall Cameron and Elizabeth Baldwin**. USDA-ARS, US Horticultural Research Laboratory, Ft. Pierce, FL ([Liz.Baldwin@ARS.USDA.GOV](mailto:Liz.Baldwin@ARS.USDA.GOV)) [HP-23].

## F- Food Safety

- 11:00 Effects of controlled-release chlorine dioxide on the preservation of cherry/grape tomatoes. **X. Sun<sup>1</sup>, B. Zhou<sup>1</sup>, Y. Luo<sup>1</sup>, E.A. Baldwin<sup>1</sup>, C.M. Ference<sup>1</sup>, J. Bai<sup>1</sup>, and K. Harrison<sup>2</sup>**. <sup>1</sup>USDA-ARS, US Horticultural Research Laboratory, Fort Pierce, FL, <sup>2</sup>Worrell Water Technologies, LLC, Delray Beach, FL ([Jinhe.Bai@ARS.USDA.GOV](mailto:Jinhe.Bai@ARS.USDA.GOV)) [HP-24]
- 11:15 **Session Adjourned**  
*See you next year!*
- 12:00 **Extension Luncheon (Ticket Required)**

# Krome Memorial Institute

Noris Ledesma  
Presiding  
([nledesma@fairchildgarden.org](mailto:nledesma@fairchildgarden.org))

Monday Morning Session  
(9:50 AM-Noon)

9:50 Welcome and Introductions, Noris Ledesma

## A- The Mango (*Mangifera indica*) and its Relative Species

- 10:00**     **Monitoring Reaction and Growth due Selective Pruning Applied to Five Distinct Mango Cultivars**, Jeff Wasielewski and Jonathan H. Crane, UF/IFAS Extension Miami-Dade County, Homestead FL, UF/IFAS Tropical Research and Education Center, Homestead, FL
- 10:15**     **An Evaluation of *Mangifera indica* 'Rosigold' and its Potential in the South Florida Market**, Thiago Campbell and Richard J. Campbell, Ciruli Brothers, LLC
- 10:30**     **Distribution and use of *Mangifera caesia* Jack in Bali, Indonesia**, Noris Ledesma, Fairchild Tropical Botanic Garden
- 10:45**     **Mango Nursery Tree Sales Point to Trends in the Florida Mango Industry**, Gary Zill, Zill High Performance Plants, and Noris Ledesma, Fairchild Tropical Botanic Garden.
- 11:00**     **Improving Harvest and Post-Harvest Practices on 'Mallika' Mango for the Local Industry**. Noris Ledesma, Fairchild Tropical Botanic Garden, Miami Florida.

## B- Student Presentations

- 11:15**     **Foliar Spray of Gibberellin Acid Improves the Onset of Bud Break and Fruit Set of Blackberries in Florida**, Syuan-You Lin, Department of Horticultural Sciences, UF and Shinsuke Agehara, Gulf Coast Research and Education Center, UF.
- 11:30**     **Impact of Different Nitrogen Rates on Peach Postharvest Attributes**, Zilfina Rubio Ames, Horticultural Science Department, UF, J.K. Brecht, Horticultural Science Department, M. Olmstead, California Strawberry Commission.
- 11:45**     **A Primary Study on the Abnormal Fruiting of Seedless Muscadine Grapes**, Z. Ren, Viticulture Center Florida A&M University, Tallahassee, FL 32317

**12:00 Lunch**

Monday Afternoon Session  
(1:20 -4:30pm)

**1:20** Welcome and Introductions, Noris Ledesma

### **C- Avocado (*Persea americana*)**

**1:30** **Disease, Dogs and Drones: Early Detection in the Fight against Laurel Wilt in Avocados.** DeEtta Mills, Florida International University.

**1:45** **Suppressing Laurel Wilt Through Collaboration and Education.**  
Jeff Wasielewski and Jonathan H. Crane, UF/IFAS Extension Miami-Dade County, Homestead FL, UF/IFAS Tropical Research and Education Center, Homestead, FL

### **D- Extension Education in Fruit Production**

**2:00** **Helping tropical fruit growers to comply with the new food safety regulations.**  
Jeff Wasielewski and Jonathan H. Crane, UF/IFAS Extension Miami-Dade County, Homestead FL, UF/IFAS Tropical Research and Education Center, Homestead, FL.

**2:15** **Mediterranean Horticulture Applications for Florida,** J. Popenoe, UF/IFAS Extension Lake County, Tavares, FL. (jpopenoe@ufl.edu)

**2:30** **Break**

### **E- Other Tropical Fruits**

**3:00** **Effect of ratooning X17-2 x T5 Papaya (*Carica papaya* L.) Plants on Crop Yield and Survival,** Wanda Montás, Pam Moon, and Jonathan Crane, Tropical Research and Education Center, University of Florida, Homestead

**3:15** **Irrigation Frequency Requirements of Banana Plantlets cv ‘Williams’ Grown in Sphagnum Peat and Sugarcane Filter Press Mud Based Substrates.** N. Larsen<sup>1</sup> and K. Moore<sup>2</sup>, <sup>1</sup>NK Lago Farms, Canal Point, FL, <sup>2</sup>UF/IFAS Fort Lauderdale Research and Education Center, Davie, FL.

**3:30** **Overcoming Limitations to Tropical Fruit Breeding in Southern Florida,** Alan H. Chambers, UF/IFAS Tropical Research and Education Center, Homestead, FL.

**3:45** **Tea (*Camellia sinensis*) as a novel crop for Florida: Field establishment of eight accessions.** James Orrock<sup>1</sup>, Brantlee Spakes Richter<sup>1</sup>, Bala Rathinasabapathi<sup>2</sup>, <sup>1</sup>University of Florida, Department of Plant Pathology, Gainesville, FL, <sup>2</sup>University of Florida, Horticultural Sciences Department, Gainesville, FL, USA (jorrock90@ufl.edu)

**4:00**      **Krome Memorial Business Meeting. Jonathan Crane**  
Consider Being a Candidate for VP Elect!

**4:30**      **End of Session**



# Ornamental, Garden and Landscape Section

Matthew Orwat

Presiding

[mjorwat@ufl.edu](mailto:mjorwat@ufl.edu)

## A- Student Presentations

### 10:00 Induction and characterization of Gerbera Polyploids.

[Krishna Bhattarai](#)<sup>1</sup>, Zhanao Deng<sup>1</sup>, and Abdul Kareem<sup>2</sup>, <sup>1</sup>UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL, <sup>2</sup>Institute of Horticultural Sciences, University of Agriculture, Faisalabad ([krishnabhattacharai@ufl.edu](mailto:krishnabhattacharai@ufl.edu)) [OGL-1]

### 10:15 Growth Response of Viburnum and Loropetalum to Capillary Mat and Sprinkler Irrigation.

[Allison Bechtloff](#)<sup>1</sup>, Tom Yeager<sup>1</sup>, and Shawn Steed<sup>2</sup>. <sup>1</sup>UF/IFAS Department of Environmental Horticulture, Gainesville, FL, <sup>2</sup>UF/IFAS Extension Hillsborough County, Seffner, FL ([abechtloff@ufl.edu](mailto:abechtloff@ufl.edu)) [OGL-2]

## B- Plant Breeding / Cultivar Developments

### 10:30 Development and Releasing of Infertile, Non-invasive *Lantana camara* Cultivars.

[Z. Deng](#)<sup>1</sup>, S.B. Wilson<sup>2</sup>, Gary Knox<sup>3</sup>, and R. Freyre<sup>2</sup>. <sup>1</sup>UF/IFAS Gulf Coast Research and Education Center, <sup>2</sup>UF/IFAS Department of Environmental Horticulture, <sup>3</sup>UF/IFAS North Florida Research and Education Center. ([zdeng@ufl.edu](mailto:zdeng@ufl.edu)) [OGL-3]

## C- Plant Propagation

### 10:45 Increasing the vase life of *Rosa hybrida* cv. Kardinal.

M.F.H. Ferdosi<sup>1</sup>, I. Zahid<sup>1</sup>, Quaid e Azam<sup>2</sup>, and M. Saleem<sup>3</sup>. <sup>1</sup>Institute of Agricultural Sciences University of the Punjab Campus, Lahore, <sup>3</sup>Directorate of Floriculture, Lahore. [OGL-4]

### 11:00 In vitro methods to propagate tea (*Camellia sinensis*) accessions.

[Yang Yue](#)<sup>1</sup>, [Thiago D. Campbell](#)<sup>1</sup>, Brantlee Richter<sup>2</sup>, Bala Rathinasabapathi<sup>1</sup>. <sup>1</sup>UF/IFAS Horticultural Sciences Department, Gainesville, FL, <sup>2</sup>UF/IFAS Plant Pathology Department, Gainesville, FL [OGL-5]

**11:15 Controlled-Release Fertilizer Demonstration on Container Production of *Ligustrum japonicum* in West Central Florida.** S.T. Steed<sup>1</sup>, M. Glenn<sup>2</sup>, C. E. McAvoy, and A. Koeser<sup>3</sup>, <sup>1</sup>UF/IFAS Extension Hillsborough County, Seffner, FL, <sup>2</sup>UF/IFAS Manatee County, Palmetto, FL, <sup>3</sup>UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL. ([ststeed@ufl.edu](mailto:ststeed@ufl.edu)) [OGL-6]

**11:30 Response of *Ligustrum japonicum* to Plastic Mulch Applied over Non-spaced Containers** S.T. Steed<sup>1</sup>, A. Bechtloff<sup>2</sup>, T. Yeager<sup>2</sup>, and A. Koeser<sup>3</sup>, <sup>1</sup>UF/IFAS Extension Hillsborough County, Seffner, FL, <sup>2</sup>UF/IFAS Environmental Horticulture Department, Gainesville, FL, <sup>3</sup>UF/IFAS Gulf Coast Research and Education Center, Wimauma, FL. ([ststeed@ufl.edu](mailto:ststeed@ufl.edu)) [OGL-7]

**11:45 Biostimulant Effect on Woody Nursery Plants**  
Juanita Popenoe, UF/IFAS Extension Lake County, Tavares, FL ([jpopeno@ufl.edu](mailto:jpopeno@ufl.edu)) [OGL-8]

12:00-1:20      **Lunch (on your own)**

**1:20 Welcome and Introduction, Matt Orwat**

## **D- Irrigation and Landscape Management**

**1:30 Quantitative Effect of Verticutting and Core Aerification on Golf Green Organic Matter Content and Root Zone Permeability in South Florida.** G. H. Snyder, UF/IFAS Everglades Research and Education Center, Belle Glade, FL. ( [ghsnyder@ufl.edu](mailto:ghsnyder@ufl.edu)) [OGL-9]

**1:45 Application of bacterial inoculated compost tea for improving turf quality and soil health.** Qurrat ul Ain Farooq, Irshad Ahmad Khan and Muhammad Naveed. [OGL-10]

## **E- Plant Pathology**

**2:00 A Historical Review of Foliage Plant Diseases in Florida.**  
A. R. Chase<sup>1</sup>, and A. J. Palmateer<sup>2</sup>. <sup>1</sup>UF/IFAS Mid-Florida Research and Education Center, Apopka, FL, <sup>2</sup>Bayer Environmental Science, Homestead , FL ([mtaukum@aol.com](mailto:mtaukum@aol.com))[OGL-11]

**2:15 The Two Most Serious Pathogens Cercospora and Colletotrichum on Tropical Flowering Trees.** Robert T. McMillan, Jr. UF/IFAS Tropical Research and Education Center, Homestead, FL. ([rtmjr@ufl.edu](mailto:rtmjr@ufl.edu)) [OGL-12]

**2:30 Catching a Moving Target: The Re-emergence of Impatiens Downy Mildew.**  
S. N. Suarez<sup>1</sup>, A. R. Chase<sup>2</sup>, and A. J. Palmateer<sup>3</sup>, <sup>1</sup>UF/IFAS Tropical Research and Education Center, Homestead, FL, <sup>2</sup>Chase Agricultural Consulting, Cottonwood, AZ, <sup>3</sup>Bayer Environmental Science, Homestead, FL. [OGL-13]

2:45 BREAK

## F- Green Industry / Pest Management

**3:00 Dealing With Mosquitoes in the Landscape.**

A. G. Hunsberger, UF/IFAS Extension Miami-Dade County, Homestead, FL. ([aghu@ufl.edu](mailto:aghu@ufl.edu)) [OGL-14]

**3:15 What's Bugging South Florida? A Partnership between UF/IFAS Extension Miami-Dade County and the Pest Control Industry.**

H. Mayer<sup>1</sup>, F. Hernandez<sup>2</sup>, V. Gonzalez<sup>3</sup>, Helena Beckers<sup>3</sup> and M. Beckers<sup>3</sup>, <sup>1</sup>UF/IFAS Extension Miami-Dade County, <sup>2</sup>NaturePest Control, <sup>3</sup>CPCO. ([hmayer@ufl.edu](mailto:hmayer@ufl.edu)) [OGL-15]

## G- Florida Friendly Landscaping

**3:30 Landscape Site Visits: The Good, the Bad and the Ugly.**

S.R. Haddock, UF/IFAS Extension Hillsborough County, Seffner, FL ([szcrmhcz@ufl.edu](mailto:szcrmhcz@ufl.edu)) [OGL-16]

**3:45 Learning Landscapes: A Valuable Tool for Developing Skill Sets and Adopting Florida-Friendly Landscaping™ Practices in Baker County.**

A. Lamborn, UF/IFAS Extension Baker County, Macclenny, FL ([alamborn@ufl.edu](mailto:alamborn@ufl.edu)) [OGL-17]

**4:00 Developing a Florida-Friendly Landscaping™ Certification Program for Code Enforcement.**

W. Elmore<sup>1</sup>, L. Barber<sup>2</sup> and E. Momol<sup>3</sup>, <sup>1</sup>UF/IFAS Extension Pasco County, Dade City, FL, <sup>2</sup>UF/IFAS Extension Hillsborough County, Seffner, FL, <sup>3</sup>UF/IFAS Environmental Horticulture Department, Gainesville, FL. ([wcelmore@ufl.edu](mailto:wcelmore@ufl.edu)) [OGL-18]

**4:15 Ornamental, Garden and Landscaping Business Meeting**

*Volunteer to be Sectional Vice President!*

**4:30 Adjourn**

## **Tuesday Morning Session**

9:50 am to 12:00pm

**9:50 Welcome and Introduction, Terra Freeman**

### **H- Volunteer Management**

**10:00 Master Gardener Coastal Connection: Bridging Horticultural Enthusiasts with the Forgotten Coast.** Ray Bodrey, UF/IFAS Extension Gulf County, [OGL-19]

**10:15 Palm School for Master Gardeners: Two-Year Post-Program Follow-up.**  
C. A. Kelly-Begazo and N. Munroe, UF/IFAS Indian River County Extension, Fort Pierce, FL. [OGL-20]

**10:30 3G Helps Youth Become Productive Members of the Agriculture Workplace.**  
Martha Glenn, and Michelle Atkinson, Manatee County Extension, Palmetto, FL [OGL-21]

**10:45 Utilizing Student Volunteers To Expand Their Experience, Agriculture Literacy and Citizenship in Professional and Educational Workplaces.** Pinson, N.D., UF/IFAS Extension Hillsborough County, Seffner, FL [OGL-22]

### **I- Extension Programs**

**11:00 Growing Totally Tomatoes.**  
E. Anderson, and D. Leonard, UF/IFAS Extension, Walton County, [OGL-23]

**11:15 Manatee County Food Deserts Harvest Away.**  
L. Hickey, UF/IFAS Extension Manatee County, Palmetto, FL [OGL-24]

## FSHS Natural Resources Section

Lisa Hickey  
Presiding Vice President  
[lisa.hickey@ufl.edu](mailto:lisa.hickey@ufl.edu)

### Monday Morning Session

(10:00 A.M. – 12:00 P.M.)

**9:50 Welcome and Introductions, Lisa Hickey**

#### A – Natural Resources Impacts

**10:00 Preparation for Small Farm Sugarcane in North Florida.** Z. Wiggins, Gadsden County Extension, FAMU. ([zadwiggins@ufl.edu](mailto:zadwiggins@ufl.edu)) [NR-1].

**10:15 Can Aquaponics Be Mainstreamed Through Decoupling?** R. Tyson, UF/IFAS Extension Orange County, Orlando, FL. ([rvt@ufl.edu](mailto:rvt@ufl.edu)) [NR-2]

**10:30 Air Potato Biological Control Program: A Success Story.** K. Gioeli, UF/IFAS St. Lucie County Extension, C. Minter, UF/IFAS Indian River Research and Education Center, M. Rayamajhi, USDA-ARS Invasive Plant Laboratory, C. Kerr, FDACS Division of Plant Industry. ([ktgioeli@ufl.edu](mailto:ktgioeli@ufl.edu)) [NR-3]

**10:45 New Host Records for Plant Parasitic Algae in South Florida.** G. Sanahuja, P. Lopez, Tropical Research and Education Center, UF, and A. J. Palmateer, Bayer Environmental Science, Homestead, FL. ([g.sanahuja@ufl.edu](mailto:g.sanahuja@ufl.edu)) [NR-4]

**11:00 Greenhouse Culture and Production of Showy Native Wetland Plants.** L. Gettys and K. Moore. Fort Lauderdale Research and Education Center, UF. ([lgettys@ufl.edu](mailto:lgettys@ufl.edu)) [NR-5]

### Monday Afternoon Session

(1:30 P.M. – 4:00 P.M.)

#### B – Natural Resources Awareness

**1:30 A New Approach to Teaching Right Plant, Right Place.** J. Morse, UF/IFAS Extension Pinellas County, St. Petersburg, FL. ([jmorse@ufl.edu](mailto:jmorse@ufl.edu)) [NR-6]

**1:45 Introducing New Residents to Florida's Natural Resources through Interpretive Nature Hikes.** J. E. Davis, UF/IFAS Extension Sumter County, Bushnell, FL. ([dvisshdn@ufl.edu](mailto:dvisshdn@ufl.edu)) [NR-7]

**2:00 Butterfly Education and Awareness in the Florida Panhandle.** M. Derrick, UF/IFAS Extension Santa Rosa County, FL. ([maryd@santarosa.fl.gov](mailto:maryd@santarosa.fl.gov)) [NR-8]

**2:15 – 3:00 Sectional Break**

## C – Natural Resources Volunteerism

**3:00 Beyond Hours Served and Dollar Value Of Those Hours: Measuring New Outcomes Of Volunteer Programs.** N. Pinson, UF/IFAS Extension Hillsborough County, Seffner, FL. ([PinsonN@hillsboroughcounty.org](mailto:PinsonN@hillsboroughcounty.org)) [NR-9]

**3:15 Using the “FLoWS” Survey to Determine Behavioral Change in Water Conservation Efforts of Master Gardener Trainees.** W. Elmore, and J. Moll, UF/IFAS Extension Pascoe County, Dade City, FL. ([welmore@pascocountyfl.net](mailto:welmore@pascocountyfl.net)) [NR-10]

**3:30 Invited Speaker on Florida Bat Population Studies** [NR-11]

**4:30 Natural Resources Business Meeting**

**4:50 Adjourn**