

# 2002 Annual Meeting June 2 - 4

## Final Program

[Citrus](#)   [Handling and Processing](#)   [Krome](#)   [Combined Ornamentals and Garden & Landscape](#)   [Vegetable](#)

### General Sessions

#### Sunday, June 2

##### Afternoon

- 2:00      Executive Board Meeting  
5:00      Awards Ceremony  
6:00-7:00      Welcome Reception

#### Monday, June 3

##### Morning

- 7:00-8:00      Continental Breakfast  
8:30-9:45      General Session  
8:30      Introduction and Welcome  
8:40      Presidential Address  
            Speaker: Bill Castle, President FSHS  
9:00      Principal Address  
            Speaker: Dr. Bill Hallman, Rutgers University  
            "Public Perceptions of Genetically Modified Foods: Americans Know Not What They Eat"

##### Biography:

Dr. William Hallman is an Associate Professor in the Department of Human Ecology at Rutgers University where he teaches courses on risk perception, risk communication, research methodology and on the politics of environmental issues. He received his M.A. and Ph.D. in Psychology from the University of South Carolina and was honored with the Dissertation of the Year award from the Division of Community Psychology of the American Psychological Association for his work.

Dr. Hallman and has written more than twenty-five papers, articles and book chapters concerning public perceptions of risks, risk communication, and the ways that individuals and communities cope with perceived environmental threats. His work on public perceptions of agricultural biotechnology has received national and international recognition. Currently Associate Director for the Food Biotechnology Program at Rutgers' Food Policy Institute, Dr. Hallman is the Principal Investigator of a new \$2.5 million USDA-funded project examining consumer perceptions of agricultural biotechnology.

- 10:00-12:00      Concurrent Sessions - A

## Afternoon

- 1:30- 3:00 Concurrent Sessions - B
- 3:00 Sectional Business Meetings
- 3:30-5:00 Concurrent Sessions - C
- 6:00-7:00 Industry Reception

## Tuesday, June 4

### Morning

- 7:00-8:00 Horticultural Breakfast  
Speaker: Andy LaVigne, Executive Vice President, Florida Citrus Mutual. "The Florida Citrus Research Coordination Council"
- 8:30-9:45 Annual Business Meeting
- 10:00-12:00 Concurrent Sessions – D
- End of Meeting

## Citrus Section

Steve Rogers presiding

Papers 1-22

## Monday, June 3

### Morning Sessions

#### 10:00-12:00 Session A

**CEUs:** CCA: 0.5 CM; 0.5 PM, 0.5 NM; RUP – 0.5 Pvt Ag, Ag Tree, D&R

1.

10:00 Gibberellic Acid Applied to Sweet Oranges Increased Juice Yield by Reducing Peel Volume. **Matthew W. Fidelibus** and Frederick S. Davies. Horticultural Sciences Department. UF, Gainesville.

2.

10:15 NAA Thinning of 'Murcott': Comparison of Small Plot and Commercial Harvest Data. **Ed Stover**, Scott Ciliento, and Mark Ritenour, Indian River Research and Education Center, UF, Ft. Pierce, Charles Counter, Haines City Citrus Growers Assoc., Haines City.

3.

10:30 Evaluation of Trifloxystrobin, a New Fungicide for Control of Foliar Citrus Diseases. **Marco A. Toapanta**, Bayer Corporation, Gainesville, W. Dennis Scott, James Bloomberg, Roy Morris, and Richard Rudolph, Bayer Corporation, Kansas City, MO, George Musson, Bayer Corporation, Vero Beach.

4.

10:45 CGA-362622 – A New Promising Herbicide for Weed Control in Citrus. Shiv D Sharma and **M. Singh**, University of Florida-IFAS, Citrus Research and Education Center, Lake Alfred.

5.

11:00 Influence of Spray Volume, Ground Speed, and Sensor-Actuated Spray Manifolds on Pest Control And Fruit Marking in Fresh Indian River Grapefruit. **Ed Stover** and James Salvatore, Indian River Research and Education Center, UF, Ft. Pierce, Peter McClure, Evans Properties, Okeechobee.

6.

11:15 Soil Amendments of a Hydrophilic Gel Can Enhance Growth of Swingle Citrumelo Seedlings and Reduce Nitrogen Leaching Losses from

Sandy Soil. **J.P. Syvertsen** and J.M. Dunlop, Citrus Research and Education Center, UF, Lake Alfred.

7.

11:30 KNO<sub>3</sub> Foliar Applications 'Sunburst' Tangerine. **Brian J. Boman**, Indian River Research and Education Center, UF, Ft. Pierce.

8.

11:45 Fertilizer Response of Mature Grapefruit, Tangerine and Orange on a Florida Entisol. **A. Schumann**, T. A. Wheaton, J. Syvertsen, UF, IFAS, Citrus Research and Education Center, Lake Alfred, A.K. Alva, USDA-ARS, Vegetable and Forage Crops Research Unit, W.A. Prosser, and S. Paramasivam, Savannah State University, Savannah, GA.

## LUNCH BREAK

### Afternoon Sessions

#### 1:30- 3:00 Session B

**CEUs:** CCA – 1.0 CM

9.

1:30 Role of Genomics in Citrus Improvement. **Randall P. Niedz**, U.S. Horticultural Research Laboratory, USDA/ARS, Ft. Pierce.

10.

1:45 Combined Greenhouse Testing of Rootstocks for Resistance to *Phytophthora* Diseases in Flatwoods Soil. **K. D. Bowman**, <sup>1</sup>U.S. Horticultural Research Laboratory, USDA/ARS, Ft. Pierce, J. H. Graham, Citrus Research and Education Center, UF, Lake Alfred, and J. P. Albano<sup>1</sup>.

11.

2:00 Rootstocks, Nitrogen Rates, Growth and Yields of Young 'Rohde Red' Valencia Orange Trees. **Frederick S. Davies** and Glenn R. Zalman, Horticultural Sciences Department, UF, Gainesville.

12.

2:15 Yield and Fruit Quality of 'Olinda Valencia' Trees Grown on Nine Rootstocks in Saudi Arabia. Ali Al-Jaleel, Najran Horticulture Development Research Center, Ministry of Agriculture & Water, Food & Agriculture Organization, Najran, Kingdom of Saudi Arabia; **Mongi Zekri**, UF, Hendry County Extension, LaBelle.

13.

2:30 Pruning and Skirting Effects on Canopy Microclimate, Growth and Flowering of 'Orlando' Tangelo Trees. Paula Morales and **Frederick S. Davies**, Horticultural Sciences Department, UF.

14.

2:45 A Description and Function of the Cuban Citrus UBPCs Cooperatives (Basic Units of Productive Cooperation). **Thomas H. Spreen**, Food and Resource Economics Department, UF, Gainesville, Ronald P. Muraro, Citrus Research and Education Center, UF, Lake Alfred, Arnaldo Correa Martrinez, Instituto de Investigaciones de Citricos y Otros Frutales, Havana, Cuba.

3:00 Sectional Business Meeting

3:15 Break

#### 3:30-5:00 Session C

**CEUs:** CCA – 0.5 CM

15.

3:30 Comparison of Attractiveness of Commercial Lures to Mass Reared Caribbean Fruit Fly. **H. N. Nigg** and R. A. Schumann, Citrus Research and Education Center, UF, Lake Alfred, S. E. Simpson, Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Winter Haven, S. Fraser, Florida Department and Consumer Services, Gainesville.

16.

3:45 Improving the Economy and Efficacy of Abscission Sprays for Mechanical Harvesting of Orange. **M. Farooq**, M. Salyani, and J. D. Whitney, Citrus Research and Education Center, UF, Lake Alfred.

17.

4:00 Frost Control Rules. **J. D. Martsof**, Horticultural Sciences Department and R. M. Peart, Agricultural and Biological Engineering Department, UF, Gainesville.

4:15 Discussion

4:30 End of Session

## Tuesday, June 4

### Morning Session

#### 10:00-11:30 Session D - Citrus Workshop

**CEUs:** CCA- 0.5 SW, 0.5 CM

#### **“Technologies that are Making a Difference in Citrus Production”**

18.

10:00 Correlation of Soil Electrical Conductivity with Soil Characteristics and Citrus Yield.

Presenter: Mace Bauer, Indian River Research & Education Center, Ft. Pierce.

Co-presenters: Bill Castle, Citrus Research & Education Center, Lake Alfred, Tom Obreza, Southwest Florida Research & Education Center, Immokalee, and Brian Boman, Indian River Research & Education Center, Ft. Pierce

19.

10:20 Measurement and Application of Soil Moisture Data from C-Probes.

Presenter: Pete Spyke, Arapaho Citrus, Ft. Pierce.

20.

10:40 Precision Agriculture in Citrus - One Company's Perspective.

Presenter: Peter McClure, Evan's Properties, Okeechobee.

Co-presenter: Marshall Beatty, Evan's Properties, Okeechobee.

21.

11:00 Logistics Management Using On-Board Computers, GPS Systems and Wireless Communications.

Presenter: Ed Pines, Pines Ranch.

22.

11:20 Entonet - Scouting Technology Using Handheld Computers, GPS Systems and Internet.

Presenter: Steven Rogers, Entonet, Inc., Highland City.

11:40 Discussion

12:00 End of Session

## Handling and Processing Section

Bob Hagenmaier, Presiding  
Papers 23-47

### Monday June 3

#### Morning Session

#### 10:00-12:00 Session A.

**CEUs:** CCA – 0.5 PM; RUP 0.5 Ag Row, Ag Tree, D&R, Pvt Ag

23.

10:00 Quality Attributes Associated with Different Centrifugation Times in Fresh-Cut Cabbage. E. O. Silva, Federal University of Viçosa, 36571-000, Viçosa, MG, Brazil, **C. L. Moretti**, Embrapa Vegetables; CP 218, 70.359-970 Brasília, DF, Brazil, M. A. G. Carnelossi, R. Puschmann, R. S. Campos, R. A. L. Cardoso, Federal University of Viçosa, Viçosa, MG, Brazil.

24.

10:15 Improvements in Sanitation of Flumes or Dump Tanks in Packinghouses. **Michael Mahovic**, Department of Plant Pathology, UF.

25.

10:30 Practical Aspects of Measurement of Color. **Bela S. Buslig**, USDA, ARS, Citrus & Subtropical Products Laboratory, Winter Haven.

26.

10:45 Overview of “Train-the-Trainer” Food Safety Extension Bulletins for Florida Grown Fresh Fruits and Vegetables. **Michael Mahovic**, Department of Plant Pathology, UF.

27.

11:00 Seasonal Changes in Organic Acid Levels in Citrus Juices ( 2000-2001 Season). **P. F. Cancalon**, Florida Department of Citrus, CREC, Lake Alfred.

28.

11:15 Desiccation of Fresh Market Potato (*Solanum tuberosum*) Vines for Improved Tuber Quality. **Chad Hutchinson**, Hastings REC, UF.

29.

11:30 History of the Chilling Injury Syndrome. **Grierson, W.** Winter Haven, FL.

11:45 Discussion

#### LUNCH BREAK

#### Afternoon Sessions

#### 1:30- 3:00 Session B.

**CEUs:** None

30.

1:30 Effects of Rootstock on Fruit Quality and Postharvest Behavior of 'Marsh' Grapefruit. **T.G. McCollum**<sup>1</sup>, K. D. Bowman<sup>1</sup>, and W.S. Castle<sup>1</sup>, <sup>1</sup>U.S. Horticultural Research Laboratory, USDA, ARS Ft. Pierce, <sup>2</sup>University of Florida, IFAS, CREC, Lake Alfred.

31.

1:45 Dietary Fiber Content in Fresh Citrus. **W. Widmer**, USDA Citrus and Subtropical Products Laboratory, Winter Haven.

32.

2:00 Analysis of Flavonoids and Hydroxycinnamates in Citrus Processing Byproducts by Electrospray Ionization-Liquid Chromatography-Mass Spectrometry. **J. A. Manthey**, USDA, Agricultural Research Service, SAA, Citrus and Subtropical Products Laboratory, Winter Haven.

33.

2:15 The Comparison of a Metal Oxide-Based Electronic Nose, Gas Chromatograph, and a Mass Spectrometer-Based Chemical Sensor. **K. L. Goodner**, USDA-ARS Citrus and Subtropical Products Laboratory, Winter Haven.

34.

2:30 Portable, Digital Device for Measuring Tomato Firmness. **M. A. Ritenour**<sup>1</sup>, Elizabeth M. Lamb<sup>1</sup>, Steven A. Sargent<sup>2</sup> and Peter J. Stoffella<sup>1</sup>, <sup>1</sup>Indian River Research and Education Center, UF, Fort Pierce, <sup>2</sup>Horticultural Sciences Department, UF, Gainesville.

35.

2:45 Detection and Identification Threshold values for Key Flavor Components in an Orange Juice Matrix. **C. A. Margaría**, K.L. Goodner and E.A. Baldwin, Citrus and Subtropical Products Laboratory, USDA-ARS, Winter Haven.

3:00 Sectional Business Meeting

3:15 Break

**3:30-5:00 Session C.**

**CEUs:** CCA- 0.5 CM

36.

3:30 Retention Index Scheme for Use with Sulfur Specific Detectors. **K.L. Goodner**, USDA-ARS Citrus and Subtropical Products Laboratory, Winter Haven.

37.

3:45 Non-Destructive Brix Sensing of Florida Grapefruit. **W.M. Miller**, Citrus Research and Education Center, UF, and M. Zude, Institute of Agricultural Engineering-Bornim, Department of Horticultural Engineering, Potsdam, Germany.

38.

4:00 Evaluation of *Bacillus subtilis* and *Bacillus* spp. Isolates as Potential Biocontrol Agents for Postharvest Green Mold Control on 'Valencia' Orange. **J. Zhang** and H. Dou, Florida Department of Citrus, CREC, Lake Alfred.

39.

4:15 Evaluation of Different Oxygen, Carbon Dioxide and Nitrogen Combinations to Extend the Shelf Life of Fresh-cut Collard Greens. **C. L. Moretti**, A. L. Araújo, W. A. Marouelli, W. L. C. Silva, Embrapa Vegetables, Brasília, DF, Brazil.

40.

4:30 Postharvest Ethylene Treatment for Uniform Ripening of West Indian-Type Avocado Fruit. **J. Jeong**, Donald J. Huber and Steven A. Sargent, Horticultural Sciences Department, UF, Gainesville.

41.\*

4:45 Perforation Mediated Modified Atmosphere Packaging (PM-MAP) of Sweetcorn. **Gamal S. Riad**, Jeffrey K. Brecht, Horticultural

Sciences Department, UF, Gainesville, and Khe V. Chau, Agricultural & Biological Engineering Department, UF Gainesville. (*student paper*)

5:00 End of Session

## Tuesday, June 4

### Morning Session

#### 10:00-11:30 Session D.

**CEUs:** CCA- 0.5 CM; RUP 0.5 Ag Tree, D&R, Pvt Ag

42.

10:00 Some Characteristics of Stylar-end Russeting of Navel Oranges in Florida, **L. G. Albrigo**, D. S. Achor, Citrus Research and Education Center, UF and K. Townsend, Vero Beach.

43.

10:15 Postprocessing Dip Maintains Quality and Extends the Shelf Life of Fresh-Cut Apple. **J. Bai** and Elizabeth Baldwin. USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven.

44.

10:30 Changes in Ethanol Content and Electronic Nose Response of Oranges and Grapefruit During Storage. **R. Hagenmaier**, K. Goodner and H. Dou, USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven, and R. Rouseff, Citrus Research and Education Center, Lake Alfred.

45.

10:45 Effect of storage temperature on ripening and postharvest quality of grape and mini-pear tomatoes. K. P. Roberts, **Steven A. Sargent**, Abbie J. Fox, Horticultural Sciences Department, UF, Gainesville.

46.

11:00 Food Oils Reduce Postharvest Pitting and Influence the Storage Quality of Grapefruit. **H. Dou**, Florida Department of Citrus, CREC, Lake Alfred, Robert Hagenmaier, USDA/ARS Citrus & Subtropical Products Laboratory, Winter Haven, and Zhiguo Ju, Valent BioSciences, Long Grove, IL.

47.

11:15 Citrus Peeling Technology for Greater Convenience and Increased Consumption of Fresh Citrus Fruit. **Mohamed A. Ismail** and Mark Thomas. Scientific Research Department, Florida Department of Citrus, CREC, Lake Alfred.

11:30 Discussion

11:45 End of Session

## Krome Section

Robert Rouse, Presiding

Papers 48-68

## Monday June 3

### Morning Session

#### 10:00-12:00 Session A

**CEUs:** CCA – 1.0 CM, 0.5 PM; RUP – 0.5 Ag Tree, D&R, Pvt Ag

48.  
10:00 The Acquisition and Introduction of Asian Tropical Fruit with Potential for Florida. Richard J. Campbell and **Noris Ledesma**, Fairchild Tropical Garden, Miami.
49.  
10:15 Growth of Young Papaya Plants as Affected by Selected Herbicides. **J. Pablo Morales-Payan** and William M. Stall, Horticultural Sciences Department, UF, Gainesville.
50.  
10:30 The Variety Resources and Cultivation of Lychee in China. **Peng Hongxang** and Liu Rongguang, Guangxi Academy of Agriculture Science, P. R. China.
51.  
10:45 International Marketing of Lychee and What is the Future for Florida Growers. **Ray Rafie** and Carlos Balerdi, Miami-Dade County Cooperative Extension Service, UF, Homestead.
52.  
11:00 Kampong, a Good Avocado for the Home Garden. **Carl W. Campbell**, Tropical Research and Education Center, UF, Homestead and Richard J. Campbell, Fairchild Tropical Garden, Miami.
53.  
11:15 Lepidopterous Pests of Florida Avocado: Biodynamics, Mortality Factors and Control. H. Glenn, R. M. Baranowski, **J. Peña**, and R. Duncan, Tropical Research and Education Center, UF, Homestead.
54.  
11:30 Dynamics and Sampling of Mirids (Hemiptera:Miridae) in Avocado in Florida. **J. Peña**, H. Glenn and R. M. Baranowski, Tropical Research and Education Center, UF, Homestead.
55.  
11:45 Current Status of ASBVd Infection Among Avocado Accessions in the National Germplasm Collection. **Cecile T. Olano**, Raymond J. Schnell, National Germplasm Repository, USDA ARS, Miami and David N. Kuhn, Department of Biological Sciences, Florida International University, Miami.

## LUNCH BREAK

### Afternoon Sessions

#### 1:30-3:00 Session B.

**CEUs:** CCA- 1.0 CM, 0.5 PM; RUP – 0.5 Ag Tree, D&R, Pvt Ag

56.  
1:30 'Arkin' Carambola and Other Cultivars Tried in Florida. **R. J. Knight, Jr.** and J. H. Crane, Tropical Research and Education Center, UF, Homestead.
57.  
1:45 Acquiring Weather Information for Frost Control Decisions. **J. D. Martsof**, Horticultural Sciences Department, UF, and C. T. Morrow, Office of Instructional Resources, UF, Gainesville.
58.  
2:00 High Night Temperatures During Bloom Affect Fruit Set in Peach. **R. E. Rouse**, Southwest Research and Education Center, UF, Immokalee, and W.B. Sherman, Horticultural Sciences Department, UF, Gainesville.
59.  
2:15 Foliar Rust Resistance in Low-chill Peaches. R. E. Rouse, Southwest Florida Research and Education Center, UF, Immokalee, and **W. B. Sherman** Horticultural Sciences Department, UF, Gainesville.



60.

2:30 Hydrogen Cyanamide Sprays Increase Yield and Advance Fruit Maturity of Blueberry. **J. G. Williamson**, B.E. Maust and E. P. Miller, Horticulture Sciences Department UF, Gainesville, and G. Krewer, Horticulture Department, University of Georgia, Tifton.

61.

2:45 Variation in the Sugar Accumulation Pattern of Muscadine Grape Genotypes. **Ashok K. Jain**, S. M. Basha and Stephen Leong, Center for Viticulture and Small Fruits, Florida A&M University, Tallahassee.

3:00 Sectional Business Meeting

3:15 Break

### **3:30-5:00 Session C**

**CEUs:** CCA – 0.5 PM; RUP – 0.5 Ag Tree, D&R, Pvt Ag

62.

3:30 Developmental Changes in the Amino Acid Content of Muscadine Grape Genotypes. **Ashok K. Jain**, S. M. Basha and Stephen Leong, Center for Viticulture and Small Fruits, Florida A&M University, Tallahassee.

63.

3:45 Investigating the *Xylella fastidiosa* in Pierce's Disease Resistant and Susceptible Grapevines. **X. Xu**, J. Lu, and H. Huang, Center for Viticulture, CESTA, Florida A&M University, Tallahassee.

64.

4:00 A 2001 Survey of Florida's Grape Growers. **G. T. Ford**, and S. Leong, Center for Viticulture and Small Fruit Research, Florida A&M University, Tallahassee.

65.

4:15 Muscadine Rootstock Increased Resistance of Florida Hybrid Bunch Grape Cv. Blanc Du Bois to Pierce's and Anthracnose Diseases. **Zhongbo Ren** and Jiang Lu, Center for Viticulture and Small Fruit Research, Florida A&M University, Tallahassee.

66.

4:30 Origination, Distribution and Utilization of Two Wild Grape Species (*Vitis pseudoreticulata* and *Vitis Quinquangularis*) in Southern China. **Jiang Lu**. Center for Viticulture and Small Fruit Research, Florida A&M University, Tallahassee.

4:45 Discussion

5:00 End of Session

## **Tuesday, June 4**

### **Morning Session**

#### **10:00-11:30 Session D**

**CEUs:** CCA – 0.5 CM

67.

10:00 Yield Performance of the Scotch Bonnet Hot Pepper on Organic and Synthetic Mulch. C. S. Gardner and **G. L. Queeley**, Department of Agricultural Sciences, Florida A&M University, Tallahassee.

68.

10:15 The Effects of Flooding for Differing Durations and at Differing Growth Stages on Green Bean (*Phaseolus Vulgaris*) Yield. **S. T. Reed**, F. D'Ambrosio, USDA/ARS, Subtropical Horticulture Research Station, Miami, Y. Li, and R. Rao, Tropical Research and Education

Center, UF, Homestead.

10:30 Discussion

10:45 End of Session

## Combined Ornamentals and Garden & Landscape Sections

Ornamental Section A. John Griffis, Jr., Presiding  
Garden & Landscape Section B. Peggy Dessaint, Presiding

Papers 69-95

### Monday June 3

#### Morning Session

**10:00-12:00 Ornamental Session A**

**CEUs:** CCA – 0.5 NM, 0.5 SW

69.

10:00 Shipments of Florida Ornamentals to the U.S. and Canada. **R. Beilock**, Food and Resource Economics Department, UF, and L. Harrison, Florida Department of Agriculture and Consumer Services, Tallahassee.

70.

10:15 Postharvest Characteristics Of Zinnia and Sunflower Cut Flowers as Influenced By Shipping, Hydration and Preservatives. E.R. Emino and **Becky Hamilton**, Department of Environmental Horticulture, UF/IFAS Gainesville.

71.

10:30 Floral Design Buying Preferences of Students at Florida Southern College. **John L. Griffis, Jr.**, Department of Citrus and Environmental Horticulture, Florida Southern College, Lakeland.

72.

10:45 Vermiculite: Its Properties and Uses. **Van Donnan**, Verlite Co. Inc., Tampa, and Wm. S. McElhannon, Horticultural Consulting Service Inc., Athens.

73.

11:00 Optimization of Large Scale Cultivation of Dendrobiums Through Substrate and Fertilizer Interaction. Paulette A. TaiChun<sup>1</sup>, Sasikala D.P. Potluri<sup>1</sup> and **DeviPrasad V. Potluri**<sup>1,2</sup>. <sup>1</sup>Dept. Life Sciences, The Univ. West Indies, Mona, Kingston 7, Jamaica and <sup>2</sup>Citrus Research and Education Center, UF/ IFAS, Lake Alfred.

74.\*

11:15 Randomly Amplified Polymorphic DNA (RAPD) Analysis of the Musk Roses (*Rosa moschata*). **Carmella Frederick**, Amanda Wagner, and Nancy Morvillo, Dept of Biological Sciences, Florida Southern College, Lakeland. (*student paper*)

75.\*

11:30 Investigation of the Origin of 'Champaneys' Pink Cluster,' 'Blush Noisette' and 'Napoleon' Roses Using Randomly Amplified Polymorphic DNA (RAPD) Analysis. **Amanda Wagner**, Varmella Frederick, and Nancy Morvillo, Dept of Biological Sciences, Florida Southern College, Lakeland. (*student paper*)

76.

11:45 Solarization and Additives as an Alternative to Methyl Bromide for Field Bedding Plant Production. **G. M. Zinati**, UF/IFAS, Department of Environmental Horticulture, Gainesville, FL, and H. H. Bryan and M. Codallo, Tropical Research and Education Center, UF/IFAS, Homestead.

## LUNCH BREAK

### Afternoon Sessions

**1:30- 3:00 Ornamental Session B.**

**CEUs:** CCA – 0.5 CM, 1.0 PM; RUP – 1.0 O&T, D&R, Pvt Ag

77.

1:30 Web Blight of East India Holly Fern, *Arachniodes simplicior* Caused by *Rhizoctonia solani*. T.F. Wood, IV, **R.T. McMillan, Jr.** and W.R. Graves, Tropical Research and Education Center, UF/IFAS, Homestead.

78.

1:45 Canker and dieback of Flowering Dogwood Caused by *Colletotrichum acutatum* D. O. Chelemi, U. S. Horticultural Research Laboratory, Fort Pierce and **J. O. Strandberg**, Mid-Florida Research and Education Center, UF/IFAS, Apopka.

79.

2:00 Identification of One Septate *Cylindrocladium sp.* affecting *Spathiphyllum* and *Rumohra adiantiformis* (leatherleaf fern) in Florida. **D.J. Norman**, R. J. Henny, J.M.F. Yuen, and L. Reich, Mid-Florida Research and Education Center, UF/IFAS, Apopka.

80.

2:15 Mode of Action Codes to Aid Ornamental Growers in Developing Pesticide Programs to Manage Resistance in Target Pests. **Elzie McCord, Jr.**, New College of Florida, Sarasota, J. F. Price and C. A. Nagle, Gulf Coast Research and Education Center, UF/IFAS, Bradenton.

81.\*

2:30 The Influence of Cutting Size, Leaf Area and Shipping on Coleus Cutting Quality Parameters Including Rooting. **Christopher Hamilton** and E. R. Emimo, Department of Environmental Horticulture, UF/IFAS, Gainesville. (*student paper*)

82.

2:45 Propagation and Establishment of Perennial Peanuts for Ground Covers Along Roadsides and Highway Ramps. **Aref A. Abdul-Baki**, Sustainable Agricultural Systems Laboratory, ARS, U.S. Department of Agriculture, Beltsville Agricultural Research Center, Beltsville, MD 20705, Herbert H. Bryan and Waldemar Klassen, Tropical Research and Education Center, UF/IFAS, Homestead.

3:00 Sectional Business Meeting

3:15 Break

**3:30 - 5:00 Garden & Landscape Session A**

**CEUs:** CCA - 0.5 CM

83.

3:30 Rhizomal Perennial Peanut in Home Landscapes as an Ornamental Ground Cover. **E. Miavitz**, Collier County Extension Service and R. Rouse, Southwest Florida Research and Education Center, Immokalee.

84.

3:45 Florida Keys Yards: Bridging Landscapes with Natural Habitats. **Jeff Stotts**, Florida Yards & Neighborhoods Program, Monroe County Extension, UF.

85.

4:00 Creation of an Educational Workbook for Incorporating Plant Science Across the Curriculum. **A. Neal**, St. Lucie County Extension Service, and Elizabeth Lamb, Indian River Research and Education Center.

86.

4:15 Lessons from Using Expert Knowledge in Rating Landscape Trees. **A.B. Lorenzo** and E. R. Duke, Landscape Design & Management, and Ornamental Horticulture Program, Florida A&M University, Tallahassee.

87.

4:30 History of the Florida Master Gardener Program. **James M. Stephens**. Horticultural Sciences Department, UF/IFAS, Gainesville.

4:45 Discussion

5:00 End of Session

## Tuesday, June 4

### Morning Session

#### 10:00-11:30 Garden & Landscape Session B.

**CEUs:** CCA – 0.5 CM, NM, 1.0 SW

88.

10:00 Replacing Calcareous Soils with Acid Soils to Grow Rainforest Species at Fairchild Tropical Garden, Miami. **M. Zhang**, Y.C. Li, P.J. Stoffella, UF and M. McLaughlin, J. Fisher, Fairchild Tropical Garden, Miami.

89.

10:15 2001-2002 Winter Overseed Trials on Fairway and Putting Green Bermuda Grass. **L.E. Trenholm** and A. E. Dudeck, Environmental Horticulture Department, UF.

90.

10:30 A New Bait for Insect Control. **G. Cashion**, FMC Products, Palm Harbor.

91.

10:45 Toward Less Waste of Natural Resources in Urban Landscapes. **G. Kidder**, Soil & Water Dept., UF.

92.

11:00 Off-the-Shelf Hydroponic Gardens. **R. V. Tyson**, Seminole County Extension Service, UF.

93.

11:15 Aquaponics: The Marriage of Aquaculture to Hydroponics. **R. LeRoy Creswell**, UF Sea Grant, St. Lucie County Extension Service, UF.

94.

11:30 Production and Marketing Techniques for Snow Peas from Stephen's Produce "Garden Fresh" Vegetables at Local Green Markets in Palm Beach County, FL. **K. D. Shuler**, Palm Beach County Extension Service, UF.

95.

11:45 Production and Marketing Techniques for Beans from Stephen's Produce "Garden Fresh" Vegetables at Local Green Markets in Palm Beach County, FL. **K. D. Shuler**, Palm Beach County Extension Service, UF.

12:00 Discussion / End of Session

# Vegetable Section

Phyllis Gilreath, Presiding  
Papers 96-120

## Monday June 3

### Morning Session

#### 10:00-12:00 Session A

**CEUs:** CCA – 2.0 PM, RUP – 2.0 Ag Row, D&R, Pvt Ag

96.

10:00 Control of *Liriomyza trifolii* (Burgess) Using Various Management Practices. **Dak Seal**, Rodely Betancourt and Catherine Sabines. Tropical Research and Education Center, UF, Homestead.

97.

10:15 Comparison of Nicotinoid Insecticides for Control of Silverleaf Whitefly, *Bemisia Argentifolia* Bellows & Perring, and the Leafminer, *Liriomyza trifolii* (Burgess) on tomato. **D. J. Schuster**, Gulf Coast Research and Education Center, UF, Bradenton.

98.

10:30 Survival of *Phytoseiulus persimilis* (Acari: Phytoseiidae) Predatory Mites on Strawberry Transplants in Cold Storage. **J. F. Price**, Gulf Coast Research and Education Center, UF, Bradenton, E. McCord, Jr. New College of Florida, Sarasota, D. E. Legard and C. K. Chandler, Gulf Coast Research and Education Center - Dover, UF.

99.

10:45 Mode of Action Codes to Aid Strawberry Growers in Developing Pesticide Programs to Manage Resistance in Target Pests. **Elzie McCord, Jr.**, New College of Florida, Sarasota, J. F. Price and C. A. Nagle, Gulf Coast Research and Education Center, UF, Bradenton.

100.

11:00 Use of Kaolin Clay for Disease Control in Greenhouse Cucumbers. **Elizabeth M. Lamb**, Indian River Research and Education Center, UF, Ft. Pierce, Erin Roskopf, USDA-ARS Horticultural Research Laboratory, Fort Pierce, and Chip Koblegard, Mascot Farms, Okeechobee.

101.

11:15 Control of Gummy Stem Blight of Watermelons with Plant Defense Activators Combined with Fungicides. **D. L. Hopkins**, Mid-Florida Research and Education Center, UF, Apopka.

102.

11:30 Analysis of the Economic Benefits of Serenade® Biofungicide to Control Bacterial Spot in Fresh Market Tomatoes. **H. Brett Highland**, AgraQuest, Inc., Nokomis.

103.

11:45 Effect of Organic Fertilizer Applications on Growth, Yield and Soilborne Pests of Vegetable Crops. **Dan O. Chellemi**, USDA-ARS Horticultural Research Laboratory, Fort Pierce, and George Lazarobits, PCPFR, Agricultural and AgriFood Canada, London, ON.

### LUNCH BREAK

### Afternoon Sessions

#### 1:30- 3:00 Session B

**CEUs:** CCA – 1.5 PM, RUP – 1.5 Ag Row, D&R, Pvt Ag

104.

1:30 Efficacy of 1,3-D + chloropicrin and metam-sodium on yellow nutsedge tubers grown in a greenhouse at varying growth stages. **T. N.**

**Motis**, <sup>1</sup>Gulf Coast Research and Education Center, UF, Bradenton, S. J. Locascio, Horticultural Sciences Department, UF, Gainesville and J. P. Gilreath<sup>1</sup>.

105.

1:45 Effectiveness of Broadcast Applications of Telone C-35 and Tillam in Tomato. **J. P. Gilreath**, <sup>1</sup>Gulf Coast Research and Education Center, UF, Bradenton, John Mirusso, Mirusso Fumigation Equipment, Delray Beach, J. W. Noling, Citrus Research and Education Center, UF, Lake Alfred, J. P. Jones<sup>1</sup> and P. R. Gilreath, Manatee County Extension Service, UF, Palmetto.

106.

2:00 Alternative Fumigants Applied with Standard and Virtually Impermeable Mulches For Tomato. **S. J. Locascio**, Horticultural Sciences Department, UF, Gainesville, D. W. Dickson, Entomology and Nematology Department, UF, Gainesville and Erin Roskopf, USDA-ARS, Horticultural Research Laboratory, Fort Pierce.

107.

2:15 Evaluating Nutsedge Control (*Cyperus* spp.) with Various Formulations and Rates of 1,3-dichloropropene Chemigated Using Drip Tape Under Two Polyethylene Mulches. **R. C. Hochmuth** and W. E. Davis, North Florida Research and Education Center - Suwannee Valley, UF and W. M. Stall, Horticultural Sciences Department, UF, Gainesville.

108.

2:30 Field Soilless Culture as an Alternative to Soil Methyl Bromide Fumigation for Vegetables in Florida. **G. J. Hochmuth**, C. Jasso-Chaverria, R. C. Hochmuth, and S. C. Stapleton, North Florida Research and Education Center-Suwannee Valley, UF, Steve Sargent, Horticultural Sciences Department, UF, Gainesville, and Elizabeth Lamb and Mark Wade, Indian River Research and Education Center, UF, Ft. Pierce.

109.

2:45 Yield of Plastic-Mulched Bell Pepper (*Capsicum Annuum*) as Affected by Time of Emergence and Population Density of Smooth Pigweed (*Amaranthus hybridis*). **J. Pablo Morales-Payan** and W. M. Stall, Horticultural Sciences Department, UF, Gainesville.

3:00 Sectional Business Meeting

3:15 Break

**3:30-5:00 Session C**

**CEUs:** CCA – 0.5 NM, PM, SW; RUP – 0.5 Ag Row, D&R, Pvt Ag

110.

3:30 Improved Tomato Production with Summer Cover Crops And Reduced Irrigation Rates. **Q. Wang**<sup>1</sup>, H. Bryan<sup>1</sup>, A. Abdul-Baki<sup>2</sup>, W. Klassen<sup>1</sup>, Y. Li<sup>1</sup> and M. Codallo<sup>1</sup>,<sup>1</sup>Tropical Research and Education Center, UF, Homestead, and <sup>2</sup>USDA-ARS Agricultural Research Center, Beltsville, MD.

111.

3:45 Assessment of Foliar Sprays to Alleviate Flooding Injury in Vegetable Crops. **Renuka Rao**, Yuncong Li and Herbert Bryan, Tropical Research and Education Center, UF, Homestead.

112.\*

4:00 Incidence of Blossom End Rot and Fruit Firmness of Tomato Affected by Irrigation Quantity and Calcium Source. **M. D. Taylor**, S. J. Locascio and M. Allgood, Horticultural Sciences Department, UF, Gainesville. (**student paper**)

113.

4:15 Custom-made Drip Irrigation Systems for Integrated Water and Nutrient Management Research and Demonstration. **E. H. Simonne** and D. W. Studstill, Horticultural Sciences Department, UF, Gainesville, M. D. Dukes, Agricultural and Biological Engineering Department, UF, Gainesville, R. C. Hochmuth and W. E. Davis, North Florida Research and Education Center - Suwannee Valley, UF, G. McAvoy, Hendry County Extension Service, UF, LaBelle, and J. R. Duval, Gulf Coast Research and Education Center - Dover, UF.

114.  
4:30 Use of Prohexidione-Ca to Increase Early Yield and Reduce Establishment Irrigation of Strawberry (*Fragaria x ananassa*). **John R. Duval**, Gulf Coast Research and Education Center - Dover, UF.
115.  
4:45 Response of Fresh-market Tomato Cultivars to Soil-applied Biostimulant. **Alexander A. Csizinszky**, Gulf Coast Research and Education Center, UF, Bradenton.
- 5:00 End of Session

## Tuesday, June 4

### Morning Session

#### 10:00-11:30 Session D

**CEUs:** CCA – 1.0 CM

116.  
10:00 Effect of Within-row Spacing on Sweet Corn Grown on Muck Soil, Belle Glade, Florida, Spring and Fall 2001. **K. D. Shuler**, Palm Beach County Extension Service, UF.
117.  
10:15 Pumpkin Yield and Size When Grown on Four Plastic Mulches as a Second Crop. **J. M. White**, Central Florida Research and Education Center, UF, Apopka.
118.  
10:30 Yield and Economic Evaluation of Okra Varieties Produced on Calcareous Soils in South Florida. **T. Olczyk**, R. Regalado, Miami-Dade County Extension Service, UF, Homestead and E. Simonne, Horticultural Sciences Department, UF, Gainesville.
119.  
10:45 Brightly Colored Pepper Cultivars for Greenhouse Production in Florida. **Nicole L. Shaw** and Daniel J. Cantliffe, Horticultural Sciences Department, UF, Gainesville.
120.  
11:00 Early Season Performance of Strawberry Cultivars Planted on Three Dates in October. **Craig K. Chandler** and James C. Sumler, Jr., Gulf Coast Research and Education Center - Dover, UF.
- 11:15 Discussion

11:30 End of Session