2006

JOINT ANNUAL MEETING

OF THE

FLORIDA STATE HORTICULTURE SOCIETY

AND THE

SOIL AND CROP SCIENCE SOCIETY OF FLORIDA

JUNE 4 TO 6

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SECTIONAL PROGRAM SCHEDULE

(CLICK ON SECTION BELOW)

CITRUS SECTION

HANDLING & PROCESSING SECTION

KROME MEMORIAL INSTITUTE

ORNAMENTAL, GARDEN AND LANDSCAPE SECTION

Vegetable Section

SOIL AND CROP SCIENCE SOCIETY OF FLORIDA

SPECIAL SESSION/IN-SERVICE TRAINING

CEU's and CCA CEU's will be offered at most sessions.

CITRUS SECTIONAL PROGRAM

Jim Syvertsen, Presiding

Monday Morning Session - Session A

10:00 Identification of an Idaeovirus in Citrus with Implications as to the Cause of Citrus Blight. K. S. Derrick, M. J. Beretta, and G. A. Barthe, CREC, UF/IFAS.

10:15 Identification of Effective Compounds from Antagonisms for Controlling Foliar Fungal Pathogens of Citrus. Bang-Jau You, Hui-Qin Chen, Lihua Cao, and Kuang-Ren Chung, CREC,UF/IFAS.

10:30 Effect of Hormone Inhibitors on Yield Production of Citrus Associated With Postbloom Fruit Drop (PFD) Caused by Colletotrichum acutatum. Hui-Ling Liao*, Hui-Qin Chen, Lihua Cao, and Kuang -Ren Chung, CREC, UF/IFAS.

10:45 Prospects for Control of Citrus Canker with Novel Chemical Compounds. J. H. Graham, J. K. Burns, CREC, UF/IFAS; T. R. Gottwald, USDA-ARS-USHRL, Ft. Pierce and R. P. Leite, Jr., Instituto Agronômico do Paraná, Londrina, Paraná, Brazil.

11:00 Comparison of Visual Assessment and Polymerase Chain Reaction Assay Testing to Estimate the Incidence of the Huanglongbing Pathogen in Commercial Florida Citrus. Michael S. Irey, USDA-ARS-USHRL, Ft. Pierce; Tim Gast, Southern Gardens Citrus, Clewiston and Timothy Gottwald, USDA-ARS-USHRL, Ft. Pierce.

11:15 Spatial Analysis of Freeze Events in Florida Using Three Different Interpolation Techniques. Clyde W. Fraisse and Tapan B. Pathak, Agricultural and Biological Engineering Dept., UF/IFAS.

11:30 Visual Presentation of the Spatiotemporal Aspects of Diaprepes Root Weevil Diaprepes abbreviatus (Coleoptera:Curculionidae) Abundance in a Small East Coast Citrus Grove from 2000-2003.
G. K. Ross and R. C. Adair, Jr., The Florida Research Center for Agricultural Sustainability, Inc., Vero Beach.

11:45 Web-Based Survey and Modeling Systems for Agricultural Insects and Diseases: Applications in Florida Citrus. J.S. Rogers, Ecostat Inc., Highland City; H.N. Nigg, CREC, UF/IFAS; I. Clark, Geostokos, Limited, Alloa, Central Scotland; D.S. Hart, Serveon, Inc., Wilmington, DE; R. Ehsani, CREC,, UF/IFAS; D.L. Brock and E.W. Schuster, Massachusetts Institute of Technology, Cambridge, MA.

LUNCH BREAK

Monday Afternoon Sessions
1:30- 3:15 B – Citrus Rootstocks and Precision Agriculture

1:30 Rootstock Effects on 'Flame' Grapefruit Trees Grown in the Indian River Region. William S. Castle and James C. Baldwin, CREC, UF/IFAS.

1:45 Performance of 'Hamlin' Orange on 14 Rootstocks in Central Florida. K. D. Bowman, USDA-ARS-USHRL, Ft. Pierce.

2:00 Diaprepes, Phytophthora and Hurricanes: Rootstock Selection and Pesticide Use Affect Growth and Survival of 'Hamlin' Orange Trees in a Central Florida Citrus Grove. Robin J. Stuart, Clayton W. McCoy, William S. Castle, James H. Graham, and Michael E. Rogers, CREC, UF/IFAS .

2:15 Rootstock Effects on Murcott Tangor Trees Grown in a Calcareous Alfisol or a Spodosol. William S. Castle and James C. Baldwin, CREC, UF/IFAS.

2:30 Machine Vision-Based Citrus Yield Mapping System. Radnaabazar Chinchuluun, Won Suk Lee, Thomas F. Burks, Agricultural and Biological Engineering, UF/IFAS.

2:45 Relating Citrus Canopy Size and Yield to Precision Fertilization. A.W. Schumann, H.K. Hostler, S. Buchanon, and Q.U. Zaman, CREC, UF/IFAS.

3:00 Precision Agriculture Technologies for Control and Monitoring Aldicarb Application. Masoud Salyani, William M. Miller, Sherrie Buchanon, and Roy D. Sweeb, CREC, UF/IFAS.

3:15 Sectional Business Meeting
3:20 Break

3:30-5:30 C- Joint Symposium with Citrus Handling & Processing on:
Citrus Harvesting and Utilization Effects on Production: Barriers and Opportunities. Organizers: G. Albrigo, R. Bryant, L. Jackson, J. Syvertsen

3:30 Objectives: To identify operational impediments between Florida citrus growers, harvesters and processors/packers; To provide solutions. J. Syvertsen, CREC, UF/IFAS.

3:35 The Impact of Harvest Timing on Fruit Quality, Yield and Next Year's Crop. L.G. Albrigo, CREC, UF/IFAS.

3:50 A Grower's Perspective of Constraints on Harvest Management. Peter McClure, Evans Properties, Inc., St. Lucie County.

4:00 Harvesting Methodology Economics and Constraints to Consider.
F. Roka, SWFREC, UF/IFAS.

4:20 Logistic Issues Associated with Mechanical Harvesting Thomas H. Spreen, Food and Resource Economics, UF/IFAS.

4:30 Managing Harvesting Constraints as a Fruit Buyer. **TBA**

4:40 A Bird Dog's Perspective of Constraints on Harvest Management**. TBA**

4:50 Harvesting Requirements of Citrus Juice Processors for NFC and FCOJ Quality.
Fran Becker, Peace River Citrus Products.

5:00 Potential Harvesting Solutions for the Florida Citrus Industry to Maintain Juice Quality and Grove Productivity.
Robin Bryant, Magnolia Consulting Inc., Palmetto.

Audience questions and answers

5:30 End of Afternoon Session

Tuesday Morning Sessions

10:00-12:15 D- Citrus Nutrition, Management and Mechanical Harvesting.

10:00 Converting Soil Phosphorus Readings Based on Mechlich-3 Extraction Method Into Mechlich-1 in Two Florida Flatwoods Citrus Groves. Esa Ontermaa, Lykes Bros. Inc.

10:15 Fertilization of Young 'Minneola' Tangelo Trees on Bedded Groves with Banded Poultry Litter Overlaid with Wood Chips.
J. Ferguson, Horticultural Sci. Dept., UF/IFAS; M. Ziegler, Agricultural Resource Mana gement, Vero Beach; J. Hebb, St. Lucie County Extension Service, Ft. Pierce, UF/IFAS; and W. Graves, Tetley Groves, Vero Beach.

10:30 The Basis for Citrus Nitrogen Fertilization Recommendations. K.T. Morgan, Southwest FL REC, UF/IFAS, T.A. Obreza, Soil and Water Science, UF/IFAS and T.A. Wheaton, CREC, UF/IFAS.

10:45 Gramoxone Inteon – A New Formulation for Weed Management in Citrus. Shiv D. Sharma and M. Singh, CREC, UF/IFAS.

11:00 Tree Thinning Studies to Improve Production and Harvesting of Florida Oranges.
S. H. Futch, T. A. Wheaton, J. D. Whitney, CREC, UF/IFAS.

11:15 1-Methylcyclopropene Improves Selectivity of Ethephon Foliar Abscission Sprays in Citrus. Luis Pozo and Jacqueline K. Burns, CREC, UF/IFAS.

11:30 Defoliation After Harvest with a Trunk Shaker Does Not Affect Canopy Light Interception in Citrus Trees. Kuo-Tan Li, Jim Syvertsen, and Jill Dunlop, CREC, UF/IFAS

11:45 Improving Efficacy of Abscission Sprays for Mechanically Harvested Oranges. Jacqueline K. Burns, Luis Pozo, CREC, U F/IFAS; Kelly Morgan, and Fritz Roka, SWFREC, UF/IFAS.

12:00 Microbiological Evaluation of Mechanically-Harvested Citrus Fruit. R.M. Goodrich and R. Ehsani, CREC, UF/IFAS.

12:15 Discussion / End of Meeting

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HANDLING & PROCESSING SECTION

Jan A. Narciso, Presiding

Monday Morning Session

10:00-12:00 Concurrent Sessions -A

10:00 Disaster Response for Retail and Distribution Center Perishable Product Companies. M. T. Talbot, J. P. Emond, Agricultural and Biological Engineering Dept., UF/IFAS.

10:15 Living with Citrus Canker and Citrus Greening – How will Florida's Citrus Industry and its Regulators Respond? Mark Estes, Environmental Administrator, FDACS, DPI.

10:30 Potential of a New Reduced-Risk Fungicide Fludioxonil for Postharvest Decay Control of Florida Citrus Fruit. Jiuxu Zhang, Florida Dept. of Citrus, Lake Alfred, FL.

10:45 FreshSeal ® CHC Reduces Shrivel and Decay of Pepper (Capsicum annum). Mark A. Ritenour, IRREC, UF/IFAS, Mark P. Kohout, Paul Johnson, and Huating Dou, BASF Corporation, Dinuba, CA.

11:00 BASF FreshSeal ® Postharvest Coating Extends Tomato Shelf-Life and Increases Saleable Fruits. Huating Dou, Mark Ritenour, Paul Johnson, and Mark Kohout, BASF Corp., Dinuba, CA; Steven A. Sargent, Horticultural Sci. Dept., UF/IFAS.

11:15 Edible Coatings for Lychee Fruit to Maintain Color in Storage. Anne Plotto, Jan A. Narciso, and Elizabeth Baldwin, USDA/ARS; Nithiya Rattanapanone, Dept. of Food Science and Technology, Chiang Mai University, Thailand.

11:30 Atmospheric Change and Broccoli Floret Quality in Plastic Containers Maintained under Simulated Household Refrigerator Temperatures. Guiwen W. Cheng, Donald J. Huber, and Steven A. Sargent, Horticultural Sci. Dept., UF/IFAS.

11:45 Resistance to Postharvest Fungicides in Florida Citrus Packinghouses. David J. Hall, Agri-Chem Consulting, Clermont.

LUNCH BREAK

Monday Afternoon Sessions

1:30- 3:00 Concurrent Sessions - B

1:30 Enzyme-peeled Oranges for Fresh-Cut Slices. **S**imona Pinnavaia, IVTPA, Milano, Italy; Anne Plotto, Elizabeth Baldwin, and Jan Narciso, USDA/ARS.

1:45 Fumigation of Tomato Fruit with Chlorine Dioxide: Dose Affects Fruit Quality. M. J. Mahovic , J. A. Bartz, Dept. of Plant Pathol ogy, UF/IFAS; A. D. Berry and S. A. Sargent, Horticultural Sci. Dept., UF/IFAS,

2:00 Determination of Optimum Storage Conditions for 'Baby' Summer Squah Fruit Cucubita pepo. B. S. Brew *, A. D. Berry, and S. A. Sargent, Horticultural Sci. Dept., UF/IFAS.

2:15 Pretreatment of Beit Alpha-type Cucumbers with 1-MCP Maintains Quality During Exposure to Ethylene. A. C. C. Alleoni, A. E. Godoy *, S. A. Sargent, D. J. Huber, Horticultural Sci. Dept., UF/IFAS.

2:30 Effect of Lipid and Solid Content of Hydroxpropyl Methylcellulose-Beeswax Edible Composit Coatings on Quality of Mandarins cv. Clemenules. M. Ll. Navarro -Tarazaga* and M. B. Pérez -Gago, Postharvest Dept., Instituto Valenciano de Investigaciones Agrarias, Moncada, Spain.

2:45 Characteristics of Laser Etching Depressions on Florida Fruits and Vegetables. Ed Etxeberria , Greg Drouillard , William M. Miller and Diann Achor, CREC, UF/IFAS and Durand -Wayland, LaGrange, GA.

3:00 Sectional Business Meeting

3:15 Break

3:30-5:00 Concurrent Sessions - C

3:30 Food Gums Made from Citrus Peel. Winsor G. Eveland , Natural Health Care Products, Inc.; Fibers of Florida Int'l, Inc.; Savory Sun, Inc., Englewood FL.

3:45 Grapefruit Juice Furanocoumarins and P450 Cytochromes. P. F. Cancalon and C. Haun.

4:00 HPLC-ESI-MS Analysis of Furanocoumarins in Grapefruit Juice. John A. Manthey , USDA/ARS, Winter Haven, FL.

4:15 Glycemic Index and Glycemic Load as Related to Citrus. Santiago Barros and M. Filomena Valim, Scientific Research, Florida Dept. of Citrus,La ke Alfred, FL.

4:30 HPLC-MS Analysis of Phenols in Longan (Dimocarpus longan Lour.) Peel. Somkit Jaitrong, Postharvest Technology Institute, Chiang Mai University, Chiang Mai, Thailand; Nithiya Rattanapanone, Dept. of Food Science and Technology, Facult y of Agro Industry, Chiang Mai University, Chiang Mai, Thailand; John A. Manthey and Elizabeth A. Baldwin, USDA/ARS, Winter Haven, FL.

4:45 Carotenoid Profile of Peel and Juice of Valencia Oranges Treated with Abscission Chemical 5-chloro-3-methyl-4-nitro-1H-pyrazole (CMNP). Fernando Alferez, Luis Pozo, and Jacqueline K. Burns, CREC, UF/IFAS.

5:00 End of Afternoon Session

Tuesday Morning Sessions

10:00-11:30 Concurrent Sessions - D

10:00 Packing Flordia's Fresh Citrus Fruit Organically. David J. Hal l, Agri -Chem Consulting, Clermont.

10:15 The Use of stir-bar sorptive extraction for analytical food analysis. Kevin L. Goodner, USDA/ARS, Winter Haven, FL; Jinhe Bai, MCAREC, Oregon State University, Hood River, OR.

10:30 A Model for the Role of 5-chloro-3-methyl-4-nitro-1H-pyrazole (CMNP) in Mature Fruit Abscission. Fernando Alferez, Luis Pozo, Anish Malladi, and Jackie Burns, CREC, UF/IFAS.

10:45 Determination of Molecular Weight Citrus Pectin Using Ion Chromatography. Gary A. Luzio, USDA/ARS, Wint er Haven, FL.

11:00 Using a Mass Sprectometer Library Matching System to Identify Citrus and Other Food/Non-Food Products. Kevin L. Goodner, USDA/ARS, Winter Haven, FL; Vanessa R. Kinton, Alcohol & Tobacco Tax and Trade Bureau., Ammendale, MD.

11:15 Discussion / End of Meeting

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KROME MEMORIAL INSTITUTE

Ray Rafie, Presiding

Monday Morning Session

10:00-12:00 Concurrent Sessions - A

10:00 New Tropical Fruit Crops for South Florida. Chris Rolling , Fruit and Spice Park, Homestead, FL.

10:15 The Story of http://www.lycheesonline.com/ and what you can learn from our experience. William Mee , President of Lycheesonline.com, West Palm Beach, FL.

10:30 Prospective analysis of impact of area increment of pineapple crop in the Atlantic region of Costa Rica. Ricardo O. Russo and Pánfilo Tabora, EARTH University, Guácimo, Costa Rica; and Gabriela Zú iga, Ministry of Agriculture and Husbandry, Guápiles, Costa Rica.

10:45 Role of Risk Analysis in Reducing Risks Associated with the Importation of Fruits and Vegetables. F. Mehdizadegan and K.R. Lakin. USDA, Center for Plant Health Science and Technology, Raleigh, NC.

11:00 Highly successful wedge grafting technique for rambutans, lychees, longans, mangosteens and other fruit trees. Panfilo Tabora , EARTH University, Guácimo, Costa Rica and Luís Atienza, U. P. at Los Ba os, Philippines.

11:15 The State of the Florida Tropical Fruit Industry and the challenges growers face. Dewey Steel , President of Tropical Fruit Growers of South Florida (TFGSF), Homestead, FL.

11:30 The Avocado Variety Enforcement Program: The Use of DNA Testing to Support Marketing Order Compliance. Christian Nissen , USDA, Winter Haven, FL.

11:45 Herbicide Efficacy to Control Parthenium (Parthenium hysterophorus) Under Grove Conditions in Homestead, Florida. Jonathan H. Crane and Robert Stubblefield, T REC, UF/IFAS.

LUNCH BREAK

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

1:30 Horticultural Lessons within the William F. Whitman Tropical Fruit Pavilion. Richard J. Campbell, J. Valls and N. Ledesma, Fairchild Tropical Botanic Garden, Coral Gables, FL.

1:45 Laboratory and Field Infestation Studies on Immature Green 'Tommy Atkins' and 'Keitt' Mangoes to Determine Host Status to the Caribbean Fruit Fly (Diptera: Tephritidae). J. E. Peña, W. P. Gould [2], M. K. Hennessey [3], G. J. Hallman [4], and J. Crane [1]; [2]USDA-ARS-PPQ, Riverdale, MD; [3]USDA-PHIS-PPQ-CPHST-PERAL Raleigh, NC; [4]USDA-ARS Kika de la Garza, Weslaco, TX .

2:00 Chemical Control of Flowering Thrips on Tropical Fruit. - (3 HRDE. Duncan and C. W. Meister. TREC, UF/IFAS.

2:15 Low-chill Peaches Adapted to Subtropical Florida and Tropical Puerto Rico. R.E. Rouse, SWREC, UF/IFAS; Maria Del Carmen Libran, Evelio Hernandez, and Lilliam Cardona, University of Puerto Rico at Mayaguez, Dept. of Horticulture.

2:30 Options for Subtropical Peach Production in Florida. J. J. Ferguson, J. X. Chaparro, D. M. O'Malley, Horticultural Sci. Dept., UF/IFAS and L. Harrison, DACS, Tallahassee.

2:45 Preliminary studies for controlling bacterial spot in low-chill peaches. Wert, E.P. Miller and J.G. Williamson, Horticultural Sci. Dept, UF/ IFAS, R.E. Rouse, SWREC, UF/IFAS.

3:00 Sectional Business Meeting

3:15 Break

3:30-5:00 Concurrent Sessions - C

3:30 Changes in Tropical Fruit Production in Florida and Elsewhere through Time. Robert J. Knight, Jr., TREC, UF/IFAS.

3:45 The Development of Microsatellite Markers for Persea americana (Avocado). James W. Borrone; Helen A. Violi; Raymond J. Schnell, USDA-ARS, Miami, FL; Randy Ploetz, Dept. of Plant Pathology, TREC, UF/IFAS.

4:00 Development of Phytophthora Root Rot-Resistant Avocado Rootstocks for the Caribbean. Helen A. Violi [2], James W. Borrone [1], Randy Ploetz [2], Raymond J. Schnell [1], Cecile T. Olano [1]. [1]USDA-ARS, Miami, FL, [2] Dept. of Plant Pathology, TREC, UF/IFAS.

4:15 Preparation for and Recovery from Hurricanes for Tropical Fruit Trees in the Home Landscape. Jonathan H. Crane , TREC, UF/IFAS, and Carlos F. Balerdi, Miami-Dade County Cooperative Extension Service, Homestead, FL.

4:30 Anthracnose of Pitaya: A new disease on a new crop in South Florida, A.J. Palmateer and R.C. Ploetz. Dept. Plant Pathology,TREC, UF/IFAS.

4:45 Phylogenetics Analysis of North American Native Cynthiana/Norton Grape Variety using DNA Microsatellite Markers. Lelan Parker ; Patricia Bordallo; and Violeta Colov a (Tsolova), Center for Viticulture Science & Small Fruit Research, CESTA, Florida A&M University, Tallahassee, FL.

5:00 End of Afternoon Session

Tuesday Morning Sessions

10:00-11:30 Concurrent Sessions - D

10:00 The banana sector in the Atlantic Huetar Region of Costa Rica. Ricardo O. Russo ($57+ 8QLYHUVLW\ *XiFLPR &RVWD 5LFD DQG (OL of Agricultural Economics, University of Costa Rica, San Jose Costa Rica.

10:15 Cut Your Costs and Sell More: How Tropical Horticulture Firms Can Penetrate New Export Markets. Stephen Colyer , Miami-Dade College, Miami, FL.

10:30 Horticultural Lessons within the William F. Whitman Tropical Fruit Pavilion. Richard J. Campbell , J. Valls and N. Ledesma, Fairchild Tropical Botanic Garden, Coral Gables, FL .

10:45 The Link between Xylem Sap Composition and Pierce's Disease among Grape Cultivars. Brown, Bravo G. * and Sheikh M. Basha, Center for Viticulture and Small Fruits, Florida Agricultural & Mechanical University, Tallahassee, FL.

11:00 Gourmet tropical fruit ice cream: You will never go back to plain old vanilla again. Gabrielle Berryer , Gaby's Farm, Homestead, FL.

11:15 Jaboticaba (Myrciaria cauliflora Berg.) **-** A Delicious Fruit with an Excellent Market Potential. A.R. Rafie and Carlos Balerdi, Mia mi Dade County Extension, Homestead, FL and Jonathan Crane, TREC, UF/IFAS.

11:30 Discussion / End of Meeting

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ORNAMENTAL, GARDEN AND LANDSCAPE SECTION

Doug Caldwell, Presiding

Monday Morning Session

10:00 Charlotte County "A Tree-Mendous Giveaway" Program. R. E. Mitchell, Charlotte County Cooperative Extension Service, UF/IFAS.

10:15 How Does Irrigation Frequency and Volume Affect Establishment and Growth of Three Common Ornamental Shrubs in Landscapes? E. F. Gilman, M. P. Paz, Environ. Hort. Dept., UF/IFAS, K.A. Moore, Ft. Lauderdale REC, UF/IFAS, S.M. Scheiber, Mid -Florida REC, UF/IFAS and S. Vyapari, GCREC, UF/IFAS.

10:30 Flowering Days: A Guide to Species Selection and Promotion of Ornamental Flowering Trees. Stephen H. Brown, Lee Cooperative Extension Service, UF/IFAS.

10:45 Amazing New Shrubs for the Florida Landscape. Robert E. Bowden, Harry P. Leu Gardens, Orlando.

11:00 Efficacy of Fungicides for Control of a Difficult Fungus Erysiphe cichoracearum Powdery Mildew on Gerbera Daisy, Gerbera jamesonii. Robert T. McMillan, Jr., James Steele, Kerry's Bromeliad Nursery, Inc., Homestead; and Wagner A. Vendrame, TREC, UF/IFAS.

11:15 Survey for Cymbidium mosaic and Odontoglossum ring spot viruses in domestic and international orchids. R. T. McMillan, Jr. Kerry's Bromeliad Nursery, Inc., Homestead; A. Palmateer and W. A. Vendrame, Tropical REC, UF/IFAS.

11:30 Dynamics Of Powdery Mildew In A Homogenous Urban Sand Live Oak Forest. Robert J. Northrop, Hillsborough County Cooperative Extension Service, UF/IFAS.

11:45 Ramorum Blight and Sudden Oak Death Research Review and Florida Nursery Cases. P.F. Harmon, Dept. Plant Pathology, UF/IFAS and C.L. Harmon, Southern Plant Diagnostic Network and Dept. Plant Pathology, UF/IFAS.

LUNCH BREAK

Monday Afternoon Sessions

1:30- 3:00 Concurrent Sessions - B

1:30 Using Best Management Practices (BMPs) to Stay in Business – A Political Primer. Erica Marie Santella, TruGreen, Orlando.

1:45 What is the Role of Nearshore Nutrient Sources on the Florida Red Tide, Karenia brevis? M. B. Neely and Cindy Heil, Fish and Wildlife Research Institute, Florida Fish and Wildlife Conservation Commission, St. Peter sburg.

2:00 Shade Tolerance of St. Augustinegrass (Stenotaphrum secondatum [Walt.] Kuntze.)Cultivars. S. F. Anderson and L. E. Trenholm, Environ. Hort. Dept, UF/IFAS.

2:15 An IPM Approach to Mole Cricket Control on Athletic Fields. Fred J. Santana, Sarasota County Cooperative Extension Service, UF/IFAS.

2:30 The Host Plant Range of the Lobate Lac Scale, Paratachardina lobata (Hemiptera: Coccoidea: Kerriidae) in Florida. Forrest W. Howard, Bryan Steinberg, Ft. Lauderdale REC, UF/IFAS; Robert Pemberton, USDA -ARS, Invasive Plant Lab., Ft. Lauderdale; Gregory Hodges, FDACS, DPI and David McLean, Nova Southeastern Univ., Ft. Lauderdale.

2:45 Methiocarb and Acetamiprid for Control of Silverleaf Whitefly on Ornamentals. J.F. Price and C.A. Nagle, G CREC, UF/IFAS.

3:00 Sectional Business Meeting

3:15 Break

3:30-5:00 Concurrent Sessions - C

3:30 New Caladium, Gerbera, and Lisianthus Cultivars for Florida. Zhanao Deng and Brent Harbaugh, GCREC, UF/IFAS.

3:45 Jogger Stoppers – Colorful and Tough Perennials for Florida. Robert E. Bowden, Harry P. Leu Gardens, Orlando.

4:00 Fort Lauderdale Trial Garden – Year 4 (2005-2006). Kimberly K. Moore and Luci Fisher, Ft. Lauderdale REC, UF/IFAS.

4:15 Citrus Greening: Implications for the Ornamental and Landscape Industries. C. L. Harmon, Southern Plant Diagnostic Network and Dept. Plant Path., UF/IFAS, and P.F. Harmon, Dept. Plant Path., UF/IFAS.

4:30 Update and Management of the Asian Citrus Psyllid, Diaphorina citri (Homoptera: Psyllidae) on Orange Jasmine. C. M. Mannion and J. E. Pena, TREC, UF/IFAS.

4:45 Biological Control Agents of the Cycad Aulacaspis Scale, Aulacaspis yasumatsui. Ronald D. Cave, IRREC, UF/IFAS.

5:00 End of Afternoon Session

Tuesday Morning Sessions

10:00-11:30 Concurrent Sessions - D

10:00 Hand Pollination and Seed Propagation of Philodendron selloum. L. M. Miller, Hillsborough County Extension Service, UF/IFAS and R. D. Newton, Suncoast Plant Nursery, Plant City.

10:15 Preliminary Comparison of Effects of White and Black Shade Cloth and Ground Covers on Three Cut Foliage Crops. Robert H. Stamps and Cindy C. Boone, Mid-Florida REC, Apopka, UF/IFAS.

10:30 Effect of Benzyladenine on Branch Induction in Magnolia grandiflora 'D.D. Blanchard'. J. Popenoe, Lake County Cooperative Extension Service, UF/IFAS.

10:45 Evaluation of Growth and Marketable Quality of Herbaceous Perennials Treated with the Growth Retardant, Ethephon. Sudeep Vyapari and Robert J. Graves, Mid-Florida REC, Plant City, UF/IFAS.

11:00 Student Perceptions on Course Delivery Methods. Kimberly K. Moore and George E. Fitzpatrick, Ft. Lauderdale REC, UF/IFAS.

11:15 Discussion / End of Meeting

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VEGETABLE SECTION
Teresa Olczyk , Presiding

Monday Morning Session

10:00-12:00 Concurrent Sessions -A

10:00 Soil Moisture in the Potato Root Zone under Seepage Irrigation. Fernando Mu oz-Arboleda and Chad M. Hutchinson, Horticultural Sci. Dept., REC-Hastings, UF/IFAS.

10:15 Influence of Drip Irrigation and Nitrogen Rates on Strawberry Cultivars. Bielinski M. Santos [1], Eric H. Simonne [2], John R. Duval [1], Elizabeth A. Golden [1], and Alicia J . Whidden [3]; GREC, IFAS-University of Florida, Wimauma, Florida [2]Horticultural Sci. Dept., IFAS -University of Florida, Gainesville, Florida. [3]Hillsborough County Extension Service, IFAS -University of Florida, Seffner, FL.

10:30 Effects of Nitrogen Rates on Summer Squash (Cucurbita pepo) Growth and Yield. Bielinski M. Santos, Camille E. Esmel *, and James P. Gilreath, Gulf Coast Research and Education Center, IFAS -University of Florida, Wimauma, FL.

10:45 Monitoring Nitrate Concentrations in Shallow Ground Water Below a Vegetable Field. Eric Simonne , Michael Dukes, George Hochmuth, Bob Hochmuth, and David Studstill , UF/IFAS Horticultural Sci. Dept., Gainesville, FL.

11:00 Optimization of Drainage Lysimeter Design for Field Determination of Nitrogen Loads. Aparna Gazula , Eric Simonne, Michael Dukes, George Hochmuth, Bob Hochmuth, and David Studstill, UF IFAS Horticultural Sci. Dept., Gainesville b, FL.

11:15 Yields of Hurricane-damaged Tomato Crops in Southern Florida. Kent Cushman , Monic a Ozores-Hampton, and Eric Simonne. University of Florida/IFAS, SWFREC, Immokalee, FL.

11:30 Review of Nutrient Management Systems for Florida Vegetable Producers. D. Cantliffe , P. Gilreath, D. Haman, C. Hutchinson, Y. Li, G. McAvoy, K. Migliaccio, Tr opical T. Olczyk, S. Olson, D. Parmenter, B. Santos, S. Shukla, E. Simonne, C. Stanley, and A. Whidden, University of Florida, IFAS.

11:45 County Faculty In-Service Training for Water Sampling and Chemical Analysis. Y.C. Li, T. Olczyk , K.W. Migliaccio, Q . Wang, G. Liu, Y. Qian, N. Campbell, G. Yu and L. Rosado, University of Florida, IFAS.

LUNCH BREAK

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

1:30 A Review of Cover Crop Research in Florida: Support for Cover Crop Inclusion in Vegetable Production Systems. Danielle D.Treadwell , Horticultural Sci. Dept., Gainesville, UF/IFAS.

1:45 Characterization of Velvetbean Lines with Respect to Morphological Traits, Phenology, and Biomass Production. Inga Zasada , Aref Abdul -Baki, USDA - ARS, Beltsville, MD and Waldemar Klassen and Maharanie Codallo, Tropical Research and Education Center, Homestead, UF/IFAS.

2:00 Development of Multiple Pest-Resistant Sweetpotatoes for Organic Production and for New Uses by ARS and IFAS. Janice R. Bohac [1] T. Olczyk [2], E. H. Simonne [2], D.M. Jackson [1], and R. T. Nagata [2] ; [1]US Vegetable Laboratory ARS USDA Charleston SC, [2] University of Florida IFAS.

2:15 Efficacy of Jack Frost Foam® for Frost Protection on Vegetable and Strawberry Transplants. R. J. McGovern[1], C. R. Semer IV[1], and Lajos Pecsenka[2], [1]Plant Pathology Dept. and Plant Medicine Program, UF/IFAS, [2]American Ag. Foam LLC, Casper, Florida.

2:30 Performance of Methyl Bromide Alternatives for Strawberry in Florida and Spain. Bielinski M. Santos [1], José M. López-Aranda [2], James P. Gilreath [1], Alicia J. Whidden [3], Luis Miranda [2], Carmen Soria [2], and Juan J. Medina [2]. [1]Gulf Coast Research and Education Center, IFAS -University of Florida, Wimauma, Florida; [2]Instituto Andaluz de Investigación y Formación Agraria. IFAPA . CICE-Junta de Andalucía. Spain. [3]Hillsborough County Extension Service, IFAS-University of Florida, Seffner, Florida.

2:45 Efficacy of Drip-delivered Herbicides for Weed Control in Tomato in Puerto Rico and Dominican Republic. Bielinski M. Santos [1], James P. Gilreath [1], Maria de L. Lugo [2], and Luis E. Rivera [2]. [1]Gulf Coast Research and Education Center, IFAS-University of Florida, Wimauma, Florida; email: bmsantos@ufl.edu. [2]Crop Protection Dept., University of Puerto Rico at Mayaguez, Puerto Rico.

3:00 Sectional Business Meeting

3:15 Break

3:30-5:00 Concurrent Sessions - C

3:30 The Effect of Time after Harvest on Stem Scar Water Infiltration in Tomato. Sarah M. Smith* , J.W. Scott and J.A. Bartz, University of Florida IFAS.

3:45 Yield and Quality of 'Atlantic' and 'Harley Blackwell' as a Result of Multiple Planting Dates, Nitrogen Rates and Accumulated Growing Degree Days in Northeast Florida. Christine M. Worthington* and Chad M. Hutchinson, University of Florida, Dept. of Horticultural Sci., Gaine sville, Florida.

4:00 'Harley Blackwell' a New Chip Stock Potato Variety for Florida. Chad M. Hutchinson and Doug M. Gergela, Horticultural Sci. Dept., UF; David A. Dinkins, UF IFAS St. Johns County Extension Office; and Edsel E. Redden UF IFAS Putnam C ounty Extension Office.

4:15 Taste Panels Evaluate Quality of Five Strawberry Selections for Florida. Craig K. Chandler, Gulf Coast Research and Education Center – Balm, UF, and Anne Plotto, USDA/ARS Citrus and Subtropical Products Lab, Winter Haven, FL.

4:30 Effect of Priming Treatments on Embryo Elongation and Germination of Unaged and Aged Vegetable Seeds. Gokhan Hacisalihoglu and J. White; Florida A&M University, Biology Dept., Tallahassee, FL.

4:45 Nitrogen BMP Efforts with Tomato Production in Florida: Update for 2005-2006 Season. Monica P. Ozores -Hampton, Eric Simonne, Eugene McAvoy, Phil Stansly, Sanjay Shukla, Pam Roberts, Fritz Roka, Tom Obreza, Kent Cushman, Phyllis Gilreath, and Darrin Parmenter. University of Florida/IFAS, SWFREC, Immokalee , FL,

5:00 End of Afternoon Session

Tuesday Morning Sessions

10:00-11:30 Concurrent Sessions - D

10:00 Growing Microgreens: Maybe the Ultimate Specialty Crop! Nancy Roe, Farming Systems Research, Boynton Beach, FL.

10:15 Growing and Marketing Garden Cress and Mache at Local Green Markets in Southeast Florida. Kenneth D. Shuler, Stephen J. Nie, Deanna Shuler and Pei-Ann N. Shuler, Stephen's Produce N, Jupiter, FL.

10:30 Growing and Marketing Mizuna and Tokyo Bekana at Local Green Markets in Southeast Florida. KENNETH D. SHULER, STEPHEN J. NIE, DEANNA V. SHULER, AND PEI-ANN N. SHULER, Stephen's Produce, N Jupiter, FL.

10:45 Resistance to Aphid-transmitted Viruses in Compact Tropical Pumpkin Hybrids. Susan E. Webb, Entomology & Nematology Dept., U F/IFAS.

11:00 Management of Twospotted Spider Mite (TSM), Tetranychus urticae Koch, Using Acramite. Dakshina Seal , Tropical Research and Education Center, UF/IFAS, Homestead, FL.

11:15 Palm Beach County's Changing Landscape: Historical Trends and Future Direction of the Agricultural Reserve. Darrin Parmenter , University of Florida, IFAS, Palm Beach County Extension Service.

11:30 A Model for Sustainable Production of Habanero Peppers. G. L. Queeley, C. S. Gardner, and T. A. Hylton, Coop. Ext. Service, C ollege of Engineering Sci., Technology, and Agriculture, Florida A & M Univ., Tallahassee, FL.

11:45 Response of Scotch Bonnet Hot Pepper to Incremental Phosphorous Levels on a Sandy Loam Soil. C. S. Gardner and G. L. Queeley College of Engineering Sci., Technology, and Agriculture, Florida A& M

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SOIL AND CROP SCIENCE SOCIETY OF FLORIDA

Monday Morning Sessions

Concurrent Graduate Student Forum – Crops
Ike Ezenwa, Presiding

10:00 Enhancing turf quality in bahiagrass by over-expression of gibberellin catabolizing enzyme. M.A. Agharkar *, F. Altpeter, H. Zhang, M. Gallow, K. Quesenberry, S. Wofford, and G.L. Miller. Agronomy Dept., and Dept. Environ. Hort., UF/IFAS .

10:15 Nutrient Composition of Tifton – 9 bahiagrass in the first season of a silvopastoral system with Boer x Spanish goat crossbreeds. Nadine Bradley * and Oghenekome U. Onokpise . Florida A&M University, Tallahassee, FL.

10:30 Growth and phenological response of legumes native to the longleaf-wiregrass ecosystem in two light environments. Sarah E. Cathey* [1], Thomas R. Sinclair [1], and Lindsay R. Boring [2]. [1]Agron. Physiol. Lab, UF/IFAS; and [2]Joseph W. Jones Ecol. Res. Ctr, Newton, GA.

10:45 Extended daylength and fertilization effects on above- and below-ground bahiagrass mass and chemical composition. S.M. Interrante *[1], L.E. Sollenberger [1], A.R. Blount [1], T.R. Sinclair [1], J.C.B. Dubeux [2], and J.M.B. Vendramini [3]. [1]Agronomy Dep, UF/IFAS; [2]UFRPE- Depto. de Zootecnia, Recife, PE, Brazil; and [3]Soil and Crop Sci. Dep., Texas A&M Univ.

11:00 – 11:15 PM Break

11:15 Population dynamics and within plant distribution of Frankliniella spp and Orius insidiosus in cotton. Enoch Adjei Osekre* [1], D. L. Wright [2], and J. Marois [2]. [1]Agronomy Dep., UF/IFAS; [2]NFREC-Quincy, UF/IFAS.

11:30 Predicting tomato fruit growth dynamics in terms of fresh weight and size: A review and modeling approach. M. R. Rybak *[1], K. J. Boote [1], J. M. S. Scholberg [1], C. H. Porter [2], and J.W. Jones [2]. [1]Agronomy Dep., UF/IFAS. [2]Agricultural & Biological Engineering Dep., UF/IFAS.

11:45 Enhancing biosafety of transgenic bahiagrass by engineering inducible cell death. S. Sandhu *[1], F. Altpeter [1] , A.S. Blount [2], K.H. Quesenberry [1], M. Gallo [1], and M. Singh [3]. [1]Agronomy Dep., UF/IFAS; [2]NFREC-Marianna, UF/IFAS; and [3]CREC-Lake Alfred, UF/IFAS.

12:00 Plant regeneration of Lotononis bainesii (Leguminosae) through cotyledon culture. Maria L. Vidoz * and K.H. Quesenberry. Agronomy Dep., UF/IFAS.

12:15 Preliminary Studies on the effect of chitosan on the germination of cabbage seeds and sweet corn grains. Camille Webster *, Oghenekome Onokpise, and Michael Abazinge. Florida A&M University, Tallahassee, FL.

Concurrent Graduate Student Forum – Soils and Environmental Quality
Gilbert Sigua, Presiding

10:15 Soil physical properties in traffic and no traffic areas in golf courses, and relationship with goosegrass growth. Claudia Arrieta *[1], Philip Busey [2], and Samira Daroub [3]. [1]FLREC IFAS, Dep. Soil and Water S ci.,; [2] FLREC IFAS, Dep. Environ. Hort.,; and [3] EREC IFAS, Dep. Soil and Water Sci.,, Belle Glade, FL .

10:30 Soil carbon pools in slash pine-based silvopastoral systems of North Florida. Solomon G. Haile *[1], P.K.R. Nair [1], and Vimala. D. Nair [2]. [1]School o f Forest Resources and Conservation, and [2]Soil and Water Sci. Dep., UF/IFAS. (Environ Quality)

10:45 Manure components affecting P stability of dairy manure-amended soils. Manohardeep S. Josan *, Vimala D. Nair, and Willie G. Harris. Soil and Water Sci. D ept., UF/IFAS. (Environ Quality)

11:00 – 11:15 Break

11:15 Evaluation of a controlled-release fertilizer program on Florida orange production. Carolina Medina *[1], T. Obreza [1], J. Sartain [1], F. M. Roka [2], and R.E. Rouse [2]. [1]Soil and Water Sci Dep.,UF/I FAS; and [2]SWFREC Univ. of Florida, Immokalee, FL. (Soils)

11:30 Reducing nutrient loss from pastureland through silvopasture. G-A. Michel *[1], P.K.R. Nair [1], and V.D. Nair [2]. [1]School of Forest Resources and Conservation and [2]Soil and Water Sci. Dept., UF/IF AS. (Environ Quality)

11:45 Basis for estimating P-source coefficients for the Florida P index. Olawale O. Oladeji *, George A. O'Connor, Jerry B. Sartain. Soil and Water Sci. Dep., UF/IFAS. (Soils)

12:00 Controlling phosphorus loss from a manure-impacted soil with aluminum water treatment residuals. T.J. Rew*, D.A. Graetz, V.D. Nair, G.A. O'Connor. Soil and Water Sci. Dep., UF/IFAS. (Soils)

Monday Afternoon Sessions

General Session I – Soils 1:30 -
Peter Nkedi-kizza – Moderator

1:30 Spatial and Seasonal Variations of Shallow Groundwater Nutrients in the Lower St. Johns River Basin, Florida. Ying Ouyang . St. John's River Water Management District, 4049 Palatka, FL. (Water Quality)

1:45 Soil-test Phosphorus Trends in Everglades Agricultural Area Histosol Profiles. Y. Luo *[1], G. Kingston [2], R.W. Rice [3], and J.M. Shine, Jr [4]. [1]EREC, UF/IFAS,[2]BSES Limited, Bundaberg DC, Australia, [3]Palm Beach County Extension, Belle Glade, FL, [4]Sugar Cane Growers Cooperative of Florida, Belle Glade, FL. (Soils)

2:00 Application rate of water treatment residuals (WTR) based on agro-environmental thresholds. Olawale O. Oladeji *, George A. O'Connor, Jerry B. Sartain. Soil and Water Science Dept., UF/IFAS. (Crops)

2:15 Sugarcane Plant Crop Response to Phosphorus Fertilizer in 2 Locations on Organic Soils in Florida. J.M. McCray [1], Y. Luo [1], R. W. Rice [2], and I. V. Ezenwa [3]. [1] EREC,UF/IFAS. [2]Palm Beach County Extension Service, Belle Glade, FL. [3]SWFREC, UF/IFAS. (Soils)

2:30 – 2:45 Break

2:45 Soil and subsoil K and S fertility effects on Bermudagrass. C.L. Mackowiak *[1], A.R.S. Blount [1] and P. Mislevy [2]. [1]NFREC-Quincy, UF/IFAS. [2]RCREC- Ona, UF/IFAS. (Soils)

3:00 Loading of heavy metals in surface runoff water from citrus groves and vegetable fields in the Indian River area. Z. L. He, P. J. Stoffella, X. E. Yang, and Y. C. Li Unive. of Florida, IRREC , UF/IFAS. (Environ Quality)

3:15 A New Approach for Phosphorus Risk Assessment. Myrlene Chrysostome , Vimala D. Nair, Willie G. Harris. Soil and Water Scien ce Dept, UF/IFAS. (Environ Quality)

3:30 Utility of Mehlich 1 and Mehlich 3 soil tests to predict citrus tree nutritional status. T. A. Obreza *[1], R. E. Rouse [2], and K. T. Morgan [2]. [1] Soil and Water Science Dept. UF/IFAS. [2]SWFREC UF/IFAS. (Soils)

General Session II - Crops 3:30 – 5:45 PM
Greg E. MacDonald, Presiding

3:30 Cool-season forage production in silvopastoral systems in north Florida. Susan Bambo *[1], J. Nowak [1], A. Long [2], A.R.S. Blount [3] and B. Myer [3]. [1]NFREC - Quincy **;** [2]School of Forest Resources a nd conservation, UF/IFAS; and [3]NFREC -Marianna. (Crops)

3:45 Chemical composition of Soils under forages grown between tree rows of Loblolly Pine trees.O.U. Onokpise *, L.A. Whilby and N. G. Bradley. Florida A&M University, Tallahassee, FL. (Crops)

4:00 Effect of Topsin M and Karate on Square Abortion and the Incidence of Hardlock Disease in Cotton. Enoch Adjei Osekre *[1], D. L. Wright [2], and J. Marois [2].
[1]Agronomy Dept, UF/IFAS, [2]NFREC- Quincy, UF/IFAS. (Nematology-Plant Pathology).

4:15 Observations on Growth and Yield of Kenaf in Florida. J. Ferguson *[1], J. Feaster [2], and J.Sifontes. Horticultural Sci. Dept.; Kenaf USA, St. Augustine, FL; and Sigarca Inc., Gainesville, FL. (Crops)

4:30 – 4:45 Break

4:45 Response of Scotch Bonnet Hot Pepper (Capsicum chinense Jacq.) to incremental Phosphorus levels on a Sandy Loam Soil. C. S. Gardner *, and G. L. Queeley. Florida A&M University, Tallahassee, FL. (Crops)

5:00 A Model for Sustainable Production of Habanero Hot Peppers. G. L. Queeley *, and C. S. Gar dner. Florida A&M University, Tallahassee, FL. (Crops)

5:15 Fertilization, Aeration, and Sewage Biosolid Effects on Kikuyugrass Pasture Productivity. Bruce W. Mathews *[1], and J. R. Carpenter [2]. [1]Univ. of Hawaii, Hilo, HI; and [2] College of Tropical Agricul ture and Human Resources at Manoa, Honolulu, HI. (Crops)

5:30 Influence of Grazing Frequency on Cynodon Grasses Grown in Peninsular Florida. **P. Mislevy.** RCREC, UF/IFAS. (Crops)

Tuesday Morning Session

General Session III - Assorted
Tom Obreza, Presiding

10:00 Evaluation of Herbicide Programs with Glyphosate on Weed Control and Cotton Growth. **P. Wiatrak*, David L. Wright, and James J. Marois. [1]Univ. of Florida, North Florida Research and Education Center, 155 Research Rd., Quincy, FL 32351** (Crops)

10:15 Efficacy of Jack Frost Foam® for frost protection on vegetable and strawberry transplants. C.R. Semer IV*[1] R.J. McGovern [1] and Lajos Pecsenka [2]. [1]Plant Pathology Dept. and Plant Medicine Program, UF/IFAS; and [2]American Ag. Foam LLC, Hudson FL. (Nematology/Entomology)

10:30 Developing a Sweet Corn Simulation Model to Predict Fresh Market Yield and Quality of Ears. J.I. Lizaso [1], K.J. Boote [1], J.J. Casanova [2], C.M. Cherr [1], J. Judge [2], J.M. Scholberg [1],J.W. Jones [2], A. Garcia [3], and G. Hoogenboom [3]. [1]Agronom y Dept, UF/IFAS, Agricultural and Biological Engineering Dept., UF/IFAS; and [3]Univ of Georgia, Dept. of Biological and Agricultural Engineering, Griffin, GA. (Crops)

10:45 Detection of Environmental Stress via Spectral Reflectance of Leaves in Crop Plants. Gokhan Hacisalihoglu *[1], and K. Milla [2]. [1]Florida A&M University, Biology Depart., Tallahassee, FL; and [2]GIS Remote Sensing Laboratory, Tallahassee, FL. (Crops)

11:00 – 11:15 Break

11:15 Soil Conditions Affect Sweet Corn and Sunnhemp Initial Growth and Root Proliferation. B.R.Morton *, J.C. Linares, J.M.S. Scholberg, and K.J. Boote . Agronomy Dept., UF/IFAS. (Crops)

11:30 Energy Fluxes and Land Surface Parameters in Grassland Ecosystem: Remote Sensing Perspective. Assefa M. Melesse [1], Al Frank [2], Jon Han son [2], Mark A. Liebig [2], Vijay Nangia [3] [1]Department of Environmental Studies, Florida International University; [2]USDA-ARS, Northern Great Plains Research Laboratory, Mandan; and [3]Upper Midwest Consortium, University of North Dakota. (Crops)

11:45 Importance of Soil Organic Matter in Florida Citrus Production. A.W. Schumann *[1], Q.U. Zaman [2] and K.H. Hostler [1]. [1]CREC, UF/IFAS; [2]Environmental and Agricultural System Engineering, Tokyo University of Agriculture and Technology, Tokyo, Japan . (Crops)