Welcome
to the
One Hundred and Fourteenth
Annual Meeting
of the
Florida State
Horticultural Society

Hutchinson Island Marriott
Beach Resort & Marina
555 N. E. Ocean Blvd.
Stuart, FL 34996
(561) 225-3700
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FSHS Program & General Sessions

Registration Desk Hours
Sunday 10:00 a.m. - 7:00 p.m. Piano Foyer
Monday 7:00 a.m. - 5:00 p.m. Piano Foyer
Tuesday 7:00 a.m. - 1:00 p.m. Piano Foyer

Hospitality Room
Sunday 1:00 p.m. - 5:00 p.m. Pineapple
Monday 8:30 a.m. - 11:30 a.m. Pineapple

Slide Preview
Monday 7:30 a.m. - 4:45 p.m. Evinrude
Tuesday 7:30 a.m. - 9:30 a.m. Evinrude

June 10, 2001
Sunday p.m.
2:00 Board of Directors Meeting Salon 1
6:00 Awards Ceremony Salon 4
7:30 Welcome Reception Salons 1 & 2
Joint reception with the Soil & Crop Sciences Society of Florida

June 11, 2001
Monday a.m.
7:00 - 8:00 Continental Breakfast Plantation Foyer
8:30 - 8:45 Introduction and Welcome Salons 1 & 2
8:45 - 9:15 Presidential Address Salons 1 & 2
Speaker - FSHS President Fred Davies
9:15 - 9:45 Principal Address Salons 1 & 2
Speaker - Senator Ken Pruitt: 'Importance of agricultural education and research in the state of Florida'

Monday p.m.
12:00 - 1:00 Student Luncheon Hotel Pool
12:00 - 1:00 FCA Luncheon Palm Pavillion
Speaker - Bob Osterberg, Science Communicator of the Beautiful Science Exibit at EPCOT

June 12, 2001
Tuesday a.m.
7:00 - 8:00 Horticultural Breakfast Palm Pavillion
Speaker - Dan Cantiliffe
10:15 - 11:30 FSHS Business Meeting Salons 1 & 2

Citrus Section
Megh Singh, Presiding

June 11, 2001
Monday a.m. Salons 1 & 2

MORNING PROGRAM – 2:00 PM CCA* CEU CREDITS:
2.5 PRIVATE AG, 2.5 TREE, 2.5 DEMO & RES RUPAL* CEU CREDITS

1. 10:00 Update on petroleum oil for rust mite control. J. L. Knapp, H. N. Nigg, and H. E. Anderson, Citrus Research and Education Center, UF.

2. 10:15 Fipronil toxicity to Diapreps abbreviatus L. (Coleoptera: Curculionidae) larvae. H. N. Nigg, S. E. Simpson, H. E. Anderson, and L. K. Yang, Citrus Research and Education Center, UF.

3. 10:30 Response of citrus rootstock seedlings to Diapreps abbreviatus L. (Coleoptera: Curculionidae) larval feeding. H. N. Nigg, S. E. Simpson, N. E. El-Gholl, and F. G. Gmitter, Jr., Citrus Research and Education Center, UF.


5. 11:00 CTV decline source budwood can be detected by grafting. M. Bausher and R. Niedzi, US Horticultural Research Laboratory, USDA-ARS, Ft. Pierce.


LUNCH BREAK

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FSHS 5
June 11, 2001
Monday p.m.

Salons 1 & 2
AFTERNOON PROGRAM – 1.5 PM – 1.5 CM CCA* CEU CREDITS:
3.5 PRIVATE AG, 3.5 TREE, 3.5 DEMO & RES RUPAL CEU CREDITS

1:15 SECTIONAL BUSINESS MEETING

9. 1:30 Salinity effect on seedling emergence, nitrogen and chloride concentrations, and growth of citrus rootstocks. M. Zekri, Hendry County Cooperative Extension Service, UF.

10. 1:45 Foliar K application to 'Valencia' oranges. B. J. Boman, Indian River Research and Education Center, UF.

11. 2:00 Very frequent fertigation does not affect tree growth, fruit yield, nitrogen uptake and leaching losses from lysimeter-grown citrus trees. J. P. Syvertsen and J. L. Jifon, Citrus Research and Education Center, UF.

12. 2:15 Effect silicon fertilization for citrus. V. V. Matichenkov, E. A. Bocharnikova, and D. V. Calvert, Indian River Research and Education Center, UF.

13. 2:30 Wastewater and reclaimed water – Disposal problem or potential resource? L. R. Parsons, K. T. Morgan, T. A. Wheaton, and W. S. Castle, Citrus Research and Education Center, UF.

14. 2:45 Residual effects of Micromite (Diflubenzuron) treated citrus leaves on Diaprepes abbreviatus (L.) (Coleoptera: Curculionidae) egg masses. R. C. Adair, Jr., Kerr Center for Sustainable Agriculture, Inc., Vero Beach.

3:00-3:30 DISCUSSION AND INTERMISSION


June 12, 2001
Tuesday a.m.

Salons 1 & 2
MORNING PROGRAM – 1.0 CM CCA* CEU CREDITS:
1.0 PRIVATE AG, 1.0 TREE, 1.0 DEMO & RES RUPAL CEU CREDITS

21. 8:30 Bud union incompatibilities and associated declines observed in Florida in trees on Swingle citrumelo and other trifoliata orange-related rootstocks. S. M. Garnsey, W. S. Castle and D. P. H. Tucker, Citrus Research and Education Center; R. E. Rouse, Southwest Research and Education Center, UF; and M. C. Kesinger, DPI, FDACS, Winter Haven.

22. 8:45 Poor self-pollination of Amber sweet orange is related to lack of viable pollen. L. G. Albrigo and D. S. Achor, Citrus Research and Education Center, UF and R. V. Russ, Russ Apiary, Haines City.

23. 9:00 Influence of different adjuvants on glyphosate efficacy on some weeds. M. Singh and S. D. Shama, Citrus Research and Education Center, UF.

24. 9:15 Hurricane planning for Florida citrus groves. R. E. Rouse, Southwest Florida Research and Education Center, UF.

* CCA: Certified Crop Advisors
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* Best Student Paper Competition
Grower costs of having citrus canker in Florida with an overview of Argentina’s citrus canker control program. R. P. Muraro, Citrus Research Education Center; F. M. Roka, Southwest Florida Research and Education Center; T. H. Spreen, Food and Resource Economics Department, UF.

Garden & Landscape Section
Peggy Dessaint, Presiding

June 11, 2001
Monday a.m.  Salon 3
MORNING PROGRAM – 0.5 CM CCA* CEU CREDENTIALS:
2.0 PRIVATE AG, 2.0 O & T RURAL CEU CREDENTIALS:

26. 10:00  Florida House annual survey shows changes in landscape practices.
M. E. Shelby, Sarasota County Cooperative Extension Service, UF.

27. 10:15  Florida House children’s resource conservation tour program.
M. E. Shelby, Sarasota County Cooperative Extension Service, UF.

28. 10:30  Northeast Florida yards, neighborhoods and ponds: protecting Florida’s natural resources through environmentally-friendly landscaping and lawncare. R. McNair, Environmental Horticulture Department, UF.


30. 11:00  The landscape game: teaching ‘Florida friendly’ landscape design principles to homeowners. P. Grace, Putnam County Cooperative Extension Service, UF.

31. 11:15  Youth involvement in Florida Yards program through Envirothon.
D. F. Culbert, Indian River County Cooperative Extension Service; C. C. Bailey, E. Gastright, Martin County Cooperative Extension Service; R. H. Baker, Florida Medical Entomology Laboratory, UF; B. Schmit, Florida Department of Environmental Protection, Jensen Beach; B. Gambino, Indian River County Parks and Recreation Department, Vero Beach, and K. Stokrath, South Florida Water Management District, Okeechobee.


33. 11:45  Quercus pseudoaspallata, or, growing 31 varieties of potted oak trees in my Miami warehouse parking lot!
L. S. S. Off, CREATIVITY WORKSHOP / Ideas & Solutions, THE REVOLVING GARDEN / Discounted Potting Supplies by Mail-Order, Miami, FL.

LUNCH BREAK

June 11, 2001
Monday p.m.  Salon 3
AFTERNOON PROGRAM – 1.0 CM CCA* CEU CREDENTIALS:
1.5 PRIVATE AG, 1.5 O & T RURAL CEU CREDENTIALS:

1:15  SECTIONAL BUSINESS MEETING
Garden and Landscape and Ornamental Sections

34. 1:30  Evaluation of thirty daffodils for use in Central Florida. R. H. Stamps, D. R. Rock, J. P. Carris and D. R. Graeber, Mid-Florida Research and Education Center, UF.

35. 1:45  IPM as a pest management strategy in a landscape setting. S. A. Shives and F. M. Melton, Manatee County Cooperative Extension Service, UF.

36. 2:00  Culture methods for optimum production of seedlings of pond apple. L. A. Gettys and D. L. Sutton, Fort Lauderdale Research and Education Center, UF.

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FSHS 9
2000-2001 winter overseed trials on fairway and putting green bermuda-grass. **S. F. Anderson** and A. E. Dudeck, Department of Environmental Horticulture, UF.

Restoration of Anniversary Island’s native ecosystem. **C. Claus**, J. C. Alleyne, and D. Armstrong, Pinellas County Cooperative Extension Service, UF.

**June 12, 2001**  
**Tuesday a.m.**  
**Salon 3**  
**MORNING PROGRAM – 0.5 CM CCA* CEU CREDITS**


**Handling & Processing Section**  
*Renée Goodrich, Presiding*

**June 11, 2001**  
**Monday a.m.**  
**Menninger**

41. 10:00 Postharvest firmness measurements of blueberry fruit using a non-destructive method. **A. C. O. Ferraz**, FEAGRI, State University of Campinas, Campinas, São Paulo, Brazil; A. J. Fox and S. A. Sargent, Horticultural Sciences Department, UF.


43. 10:30 Scheduling tomato fruit ripening with 1-MCP. **C. L. Moretti**, Embrapa Vegetables, Brasilia, Federal District, Brazil; R. M. Souza, A. L. Araujo, University of Brasilia, Federal District, Brazil; and L. M. Mattos, Federal University of Lavras, Lavras, Minas Gerais, Brazil.

44. 10:45 Immersion in heated water doesn’t soften ripening tomatoes. A. J. Fox and **S. A. Sargent**, Horticultural Sciences Department, UF.

45. 11:00 Respiratory activity and enzymatic browning of minimally processed sweet potatoes. **C. L. Moretti**, Embrapa Vegetables, Brasilia, Federal District, Brazil; and L. M. Mattos, Federal University of Lavras, Minas Gerais, Brazil.

46. 11:15 Volatile components in banana (Musa sapientum L.) and yellow passion fruit (Passiflora edulis Sims F. Flavicarpa degener) as determined by GC-MS and GC-olfactometry. **M. Jordán**, K. L. Goodner, and P. E. Shaw, USDA/ARS, Winter Haven.


48. 11:45 Fresh-cut sweetcorn kernels. **G.S. Ried** and J. K. Brecht, Horticultural Sciences Department, UF.

**LUNCH BREAK**

**June 11, 2001**  
**Monday p.m.**  
**Menninger**

49. 1:15 SECTIONAL BUSINESS MEETING

49. 1:30 Postharvest factors influencing stem end rind breakdown (SERB) of ‘Valencia’ oranges. **H. Dou**.
50. 1:45 Ethanol content of 'Murcott' tangerines harvested at different times and treated with coatings of different O₂ permeability. R. D. Hagenmaier, USDA/ARS, Winter Haven.

51. 2:00 The 'Juice HACCP Rule.' R. M. Goodrich, Citrus Research and Education Center, UF.

52. 2:15 Comparing attachment strength, heat tolerance and alkali resistance of pathogenic and non-pathogenic bacteria on orange surfaces. S. Pao and C. Davis, Florida Department of Citrus, Lake Alfred.

53. 2:30 Investigation of the microflora on orange fruit surfaces in a processing facility. M. E. Parish, R. M. Goodrich, J. A. Narciso, and L. M. Friedrich, Citrus Research and Education Center, UF.

3:00-3:30 Discussion and Intermission

54. 3:30 Has mechanical harvesting become an economical alternative for harvesting Florida citrus? F. M. Roka, Southwest Florida Research and Education Center; G. Brown, Florida Department of Citrus, Lake Alfred; and R. Muraro, Citrus Research and Education Center, UF.

55. 3:45 Effects of moderate shade on citrus leaf gas exchange, fruit yield and quality. J. L. Jifon and J. P. Syvertson, Citrus Research and Education Center, UF.

56. 4:00 Evaluation of refrigerated conditions and fruit quality in cooling fresh Florida citrus. W. M. Miller, Citrus Research and Education Center; M. Talbot, Agricultural and Biological Engineering Department, UF; and H. Dou, Florida Department of Citrus, Lake Alfred.

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Krome Memorial Section
Malcolm Manners, Presiding

June 11, 2001
Monday a.m. Salon 4

57. 10:00 Incorporating fruit trees and other non-natives into native landscapes: increasing benefits for the home gardener. R. J. Campbell, Fairchild Tropical Garden, Miami.

58. 10:15 Evaluation of 'Oro' and 'Trompo' canister (Pouteria campechiana Baehni) at the Tropical Research and Education Center, Homestead. J. H. Crane, Tropical Research and Education Center, UF.

59. 10:30 Evaluation of the green sapote (Pouteria viridis Cronq.) fruit at the Tropical Research and Education Center, Homestead. J. H. Crane, Tropical Research and Education Center, UF.

60. 10:45 Phytophthora root rot-resistant avocado rootstocks for south Florida: selection of open-pollinated seedling progeny. R. Ploetz, J. Haynes, Tropical Research and Education Center, UF, and R. Schnell, USDA/ARS, Miami.

61. 11:00 Publicly funded promotional programs for fruit and vegetable commodities: a national survey of state departments of agriculture. K. L. Morgan, R. N. Muruli, R. L. Degner, and A. Wysocki, Food and Resource Economics Department, UF.

62. 11:15 Variation in response of somatic embryos and plantlets of sugarcane cultivars to G418 selection. Z. Ying and M. J. Davis, Tropical Research and Education Center, UF.

63. 11:30 Relationship between Florida freeze incidence and sea surface temperature in the Tropical Pacific. J. D. Marsolf, Horticultural Sciences Department, UF.
June 11, 2001
Monday p.m. Salon 4

Effect of emitter patterns and soil type on soil water distribution through the rootzone. A. Pares, L. R. Parsons, T. A. Wheaton, and K. Morgan, Citrus Research and Education Center, UF.

LUNCH BREAK

1:15 SECTIONAL BUSINESS MEETING

1:30 Market Windows for Florida Blueberries. P.M. Lyrene, Department of Horticultural Sciences, UF.

1:45 Timing and concentration of hydrogen cyanamide sprays affect bud development, flower mortality, and hasten fruit maturity of blueberry. J. G. Williamson and B. E. Maust, Department of Horticultural Sciences, UF, and D. S. NeSmith, Horticulture Department, Griffin, GA.

2:00 Characteristics of plums from the University of Florida breeding program. W. B. Sherman, and R. E. Rouse, Southwest Florida Research and Education Center, UF.

2:15 Low Chill Peach and Nectarine Cultivars from the University of Florida Breeding Program: 50 Years of Progress. P. C. Andersen, North Florida Research and Education Center; W. B. Sherman and J. G. Williamson, Horticultural Sciences Department, UF.

2:30 Searching for parthenocarpy in Southern Highbush Blueberry (Vaccinium corymbosum L.) W. C. Kazokas and P. M. Lyrene, Horticultural Sciences Department, UF.

2:45 Assessment of moderate-chill peach varieties for the southeastern lower coastal plain. K. C. Taylor, Southeastern Stone Fruit and Tree Nut Laboratory; T. Beckman, USDA-ARS, University of Georgia; B. G. Krewer, Rural Development Center, Tifton, GA, and W. Sherman, Horticultural Sciences Department, UF.

Ornamentals Section

Everett Emino, Presiding

June 11, 2001
Monday p.m. Salon 3

Afternoon Program – 1.5 CM CCA* CEU Credits:
2.0 Private Ag, 2.0 Demo & Res, 2.0 0 & T-Rural CEU Credits

1:15 SECTIONAL BUSINESS MEETING:
Garden and Landscape and Ornamental Sections

2:45 Challenges in academic advisement for horticulture students at the University of Florida's satellite campuses. K. K. Moore, G. E. Fitzpatrick, and J. E. Slane, Fort Lauderdale Research and Education Center, UF.

3:00-3:30 Discussion and Intermission

3:30 Seed pathology of native scrub grasses. C. C. Bailey, Marin County Cooperative Extension Service, UF, and J. J. Muchovey, Ornamental Horticulture Department, Florida A&M University, Tallahassee.

3:45 Downey mildew of Salvia splendens caused by Peronospora lamii. T. F. Wood, R.T. McMillan, Jr., and W. R. Graves, Tropical Research and Education Center, UF.

4:00 Host suitability of some vinca and salvia cultivars to two isolates of root-knot nematodes. R. McSorley and J. J. Frederick, Department of Entomology and Nematology, UF.

4:15 Growth control of Salvia ‘Indigo Spires’ by photoselective plastic films. L. A. Krumholz, S. B. Wilson, Indian River Research and Education Center, UF, and N. C. Rajapakse, Department of Horticulture, Clemson University, Clemson, SC.

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* Best Student Paper Competition
June 12, 2001
Tuesday a.m.  Salon 3
MORNING PROGRAM – 1.5 CM CCA* CEU CREDITS:
2.0 PRIVATE AG, 2.0 DEMO & RES, 2.0 O & T RURAL CEU CREDITS

80.  8:30  Assessment of germination, nutrient uptake and photosynthetic efficiency for evaluating the potential invasiveness of I. helenae [Ceiba pentandra].  S. B. Wilson, P. C. Wilson, Indian River Research and Education Center, UF, and M. E. Winger, Department of Plant and Soil Science, University of Vermont, Burlington, VT.

81.  8:45  Effect of stratification and post-stratification temperature on germination of seeds of stokes aster [Stokesia laevis (J. Hill) Greene].  L. A. Gettys, Fort Lauderdale Research and Education Center, UF, and D. J. Werner, Department of Horticultural Science, North Carolina State University, Raleigh, NC.

82.  9:00  Media influence for vegetative propagation of Mussaenda erythrophylla.  A. Sutherland and G. Fitzpatrick, Fort Lauderdale Research and Education Center, UF.

June 11, 2001
Monday a.m.  Elliott Amphitheater
MORNING PROGRAM – 2.0 PM CCA* CEU CREDITS:
2.5 PRIVATE AG, 2.5 AG ROW, 2.5 DEMO & RES RURAL CEU CREDITS

86.  10:00  The southwest Florida pest and disease hotline – An Extension Success Story.  E. McAvoy, Hendry County Cooperative Extension Service, UF.


88.  10:30  Effect of metabol sodium and methyl bromide on root-knot nematode, yellow nutseeds and damp-off on cucumber cv. Dasher II.  R. T. McMillan, Jr. and H. H. Bryan, Tropical Research and Education Center, UF.

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* Best Student Paper Competition

16 FSIS
Distance between yellow nutsedge (Cyperus esculentus) and polyethylene-mulched bell pepper (Capsicum annuum) at which interference is minimal and maximal. T. N. Motis, S. J. Locascio, Horticultural Sciences Department, and J. P. Gilreath, Gulf Coast Research and Education Center, UF.

Competition of smooth amaranth (Amaranthus hybridus) and livid amaranth (A. lividus) with cucumber. A. D. Berry, W. M. Stall, B. Rathinasabapathi, Horticulture Sciences Department, G. E. MacDonald, Agronomy Department, and R. Charudattan, Plant Pathology Department, UF.

Influence of the biostimulant folcysteine on the interference of purple nutsedge (Cyperus rotundus L.) with eggplant (Solanum melongena L.) J. P. Morales-Payan and W. M. Stall, Horticultural Sciences Department, UF.

Progress toward developing new insecticides and milicides for spider miles in strawberry. J. F. Price, Gulf Coast Research and Education Center, UF.

An economic assessment of pre-harvest fungicide applications to control Botrytis Fruit Rot in annual strawberries. J. J. Haydu, Mid-Florida Research and Education Center, and D. E. Legard, Gulf Coast Research and Education Center, UF.

LUNCH BREAK

June 11, 2001
Monday p.m. Elliott Amphitheater

AFTERNOON PROGRAM – 1:00 NM 1:00 CM CCA* CEU CREDITS:
2.5 PRIVATE AG, 2.5 AG ROW, 2.5 DEMO & RES RUPAL* CEU CREDITS

1:15
SECTIONAL BUSINESS MEETING

1:30
The rise and fall of the Florida celery industry from 1895 to 1995. G. M. Talbott, Florida Celery Exchange, Winter Park, FL.

1:45

2:00
Competitiveness of the Spanish and Dutch greenhouse industries with the Florida fresh vegetable industry. D. J. Cantliffe and J. H. Vansickle, Horticultural Sciences Department, UF.

2:15
Hydroponically produced "Galala" muskmelon – What's the secret? N. L. Shaw, D. J. Cantliffe, and S. Taylor, Horticultural Sciences Department, UF.

2:30
Improving lettuce transplant quality in response to nitrogen nutrition in a floating production system. P. Soundy and D. J. Cantliffe, Horticultural Sciences Department, UF.

2:45
Performance of greenhouse tomato varieties grown in soilless culture in northern Florida. J. C. Rodriguez, D. J. Cantliffe and N. Shaw, Horticultural Sciences Department, UF.

3:00-3:30
Discussion and Intermission

3:30
Growth and development of carrot on organic soils in Florida. J. Strandberg, Mid-Florida Research and Education Center, UF.

3:45
Muskmelon fruit yield response to K source and method of application. G. J. Hochmuth, North Florida Research and Education Center, and M. Gal, Horticultural Sciences Department, UF.

4:00
Interactions between nitrogen rates and cultivar on the yield of strawberry. E. J. Simonne, Horticultural Sciences Department, J. R. Duval and E. Golden, Gulf Coast Research and Education Center, UF.

4:15
Sulfur fertilization for polyethylene-mulched cabbage. A. D. Susila and S. J. Locascio, Horticultural Sciences Department, UF.

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A comparison of resistance to gas diffusion through the seedcoat and hilum of triploid and diploid watermelon (*Citrus lanatus* Matsum & Nakai). J. R. Duval, Gulf Coast Research and Education Center, UF; D. S. NeSmith and M. Rieger, Department of Horticulture, University of Georgia, Athens, GA.

Response of 'Florida 47' tomato to seed and foliar applications of 'silk' biostimulant. A. A. Csizinsky, Gulf Coast Research and Education Center, UF.

### June 12, 2001

**Tuesday a.m.**  
**Elliott Amphitheater**

**MORNING PROGRAM – 1.0 CM CCA* CEU CREDITS:**

1.5 PRIVATE AG, 1.5 AG ROW, 1.5 DEMO & RES RUPAL CEU CREDITS

104. 4:30 Results of sweet corn variety demonstrations on organic soils.  
**K. D. Shuler**, Palm Beach County Cooperative Extension Service, UF.

**F. Roka**, Southwest Florida Research and Education Center; M. Lamberts, Miami-Dade County Cooperative Extension Service; S. K. O’Hair, Tropical Research and Education Center, and R. Regalado, Miami-Dade County Cooperative Extension Service, UF.

106. 8:30 Greenhouse production of several fresh-cut herbs in vertical hydroponic systems in north Florida.  
**S. C. Stapleton** and R. C. Hochmuth, North Florida Research and Education Center, UF.

107. 8:45 Calabaza yield and size at two spacings when grown as a second crop on various plastic mulches.  
**J. M. White**, Mid-Florida Research and Education Center, UF.

108. 9:00 Abundance and distribution of thrips *Pantl karny* on potatoes and eggplants.  
**D. R. Seal**, Tropical Research and Education Center, UF.

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