FSHS

Florida State Horticultural Society



Florida State Horticultural Society

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> Visit our website at: http://www.fshs.org





June 8-10, 2003

Sheraton World Resort Orlando, Florida

2003 AGENDA



WELCOME TO THE

ONE HUNDRED AND SIXTEENTH

ANNUAL MEETING OF THE

FLORIDA STATE

HORTICULTURAL SOCIETY

Sheraton World Resort

10100 International Drive Orlando, Florida

407-352-1100

BOARD OF DIRECTORS

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MEETING SPONSORS

The Society truly appreciates the support of the following organizations for this meeting:

Gold Level Sponsor (\$2,000–\$4,999): -Florida Department of Citrus

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The Society also acknowledges the significant contributions in advertising space provided by:

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-Citrus Industry Magazine -Citrus & Vegetable Magazine -Florida Grower -Ornamental Outlook

The Society also thanks the donations of plant materials and efforts of the following companies and individuals for:

1) Meeting Room Displays:

-Driftwood Gardens, Apopka -NGM Productions, Mt. Dora -Prolific Plants, Apopka

2) Tropical Fruit Display:

- -Dr. Carlos Balerdi, Miami-Dade County Extension Office, Homestead
- -Dr. Richard Campbell, Fairchild Tropical Gardens, Coral Gables (Miami)
- -Dr. Jonathan Crane, UF/IFAS, Tropical REC, Homestead

-Mr. Gene Joyner, Palm Beach County Cooperative Extension Office, West Palm Beach

3) Landscape Plant Display:

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- -Green Images Native Landscape Plants, Christmas
- -Dr. Jake Henny, UF/IFAS, Mid-Florida REC, Apopka

-Oglesby Plants International, Alva

-Dr. Bob Stamps, UF/IFAS, Mid-Florida REC, Apopka

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-The Natives, Davenport -Twyford International, Apopka

Exhibits at the FSHS Meeting

Tampa Bay Pre-function Area (2nd Floor)

Association of Florida Native Nurseries/Florida Native Plant Society

Florida Citrus Mutual

Florida Grape Growers Association

Florida Nurserymen and Growers Association

Florida Organic Growers Association

UF/IFAS Bookstore

UF/IFAS Master Gardener Program

UF/IFAS Master Naturalist Program

Florida Bay Lobby

Florida Department of Citrus

Florida Bay Patio

Tropical Fruit Display

Landscape Plant Display

SHERATON WORLD RESORT Site Map

Tower Conference Center GROUND FLOOR



2ND FLOOR



East Conference Center



PROGRAM & GENERAL SESSIONS

Registration Desk Hours

Florida Bay Lobby

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Sunday June 8 Monday June 9 Tuesday June 10 10:00 AM – 7:00 PM 7:00 AM – 6:00 PM 7:00 AM – noon

Sunday Afternoon

2:00-4:00	Board of Directors Meeting	Biscayne Bay	
5:00	Awards Ceremony	Florida Bay 1 & 2	
6:00-7:00	Welcome Reception	Tampa Bay Patio	
	Special Comments:		
	Mr. Ben Bolusky, Executive Vice President,		
	Florida Nurserymen and Growers Association		

Monday Morning

7:00-8:00	Continental Breakfast	Florida Bay Lobby
8:30-9:45	General Session	Florida Bay 1 & 2
8:30	Introduction and Welcome	
8:40	Presidential Address,	
	Jonathan Crane, President FS	SHS
9:00	Principal Address Speaker:	
	"Insuring the Viable Future for 'Lands"	Florida's Rural
	Mr. Craig Evans, President of	Stewardship
	America, Inc.	
10:00-noon	Concurrent Morning Sessions	Calebrand Merricky

Special Programs

8:00-noon	CEU Day Program	Florida Bay 3
9:00-noon	Master Gardener Program	Biscayne Bay

Monday Afternoon

1:30-3:00	Concurrent Afternoon Sea	ssions
3:00	Sectional Business Meeti	ings
3:30-5:00	Concurrent Afternoon Se.	ssions
6:00-7:00	Industry Reception	Okeechobee Patio

Tuesday Morning

7:00-8:00	Horticultural Breakfast	Okeechobee 1		
	Invited Speaker:			
	" Rural Lands - Agriculture and			
	How Collier County Met the Challenge"			
	Mr. Michael Taylor, Vice Presid	lent, Collier		
	Enterprises.	to a constant of the second		
8:30-9:45	Annual Business Meeting	Florida Bay 1 & 2		
10:00-noon	Concurrent Morning Sessions			

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End of Meeting

Special Programs - Monday Morning

CEU DAY PROGRAM Richard Tyson, Presiding

8:00 AM - 12:00 noon CEUs: 4.0 Florida Bay 3

8:00 Integrated Pest Management Lance Osborne, Mid-Florida Research & Education Center, Apopka

> Two CEUs in Multiple Categories: Ornamental & Turf, Private Applicator Ag, Ag Row Crop, Commercial Lawn & Ornamental, Ag Tree Crop, Limited Lawn & Ornamental, Limited Commercial Landscape Maintenance, Demonstration & Research, Forestry, Right of Way

10:00 General Standards/Core – Safety and Laws and Regulations Tom Dean, Food Science & Human Department, UF, Gainesville

Two CEU's in the GS/Core Category

12:00 Adjourn

MASTER GARDENER PROGRAM Tom Wichman, Presiding

9:00 AM - 12:00 noon

Biscayne Bay

- 9:00 IT for MG's Richard Ferdig, University of Florida
- 9:40 Ornamental Grasses Robert Bowden, Harry P. Leu Gardens
- 10:20 Break
- 10:40 Citrus Canker Update Holly L. Chamberlain, University of Florida
- 11:20 **Wildflowers for Florida** Jeff Norcini, North Florida Research & Education Center, University of Florida, Quincy
- 12:00 Adjourn

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Concurrent Sectional Program

Times followed by * represent papers entered in the Best Student Paper Award

CITRUS SECTION Ed Stover, Presiding Papers 1-30

June 9 Monday Morning Session Tampa Bay 1 10:00 a.m. - 12:00 noon 0.5 Water Mgmt, 0.5 Pest Mgmt, 0.5 Crop Mgmt; CEUs: RUP CEUs: 0.5 Ag Tree, D & R, Private Ag Distribution of Flavonoid Glycosides, 1. 10:00* Polyphenolics and Antioxidant Potentials in Different Tissues of Citrus X paradisi, Citrus pumello and Citrus sinensis. Ufuk Koca, Bala Rathinasabapathi and Gloria A. Moore, Horticultural Sciences Dept., UF, Gainesville 2. 10:15* Valuing Catastrophic Losses for Annual and Perennial Agricultural Crops. Damian C. Adams, Richard L. Kilmer, Charles B. Moss and Andrew Schmitz, Food and Resource Economics Dept., UF, Gainesville 3. 10:30 History of Bedding Citrus Groves in the Indian River District to Improve Drainage. Paul J. Driscoll, Grove Manager, Ft. Pierce (SW CCA CEU) Irrigation of Young Flatwoods Citrus 4. 10:45 Trees. Brian J. Boman, IRREC, UF, Ft. Pierce (SW CCA CEU)

5. 11:00

6. 11:15

Survey and Control of Brazil Pusley (Richardia brasiliensis) in Florida Citrus. R. S. Chandran, West Virginia U., Morgantown, West Virginia, and <u>M.</u> <u>Singh</u>, CREC, UF, Lake Alfred (PM CCA CEU)

The Costs Associated with Florida Citrus Groves Exposed to Citrus Canker. T. H. Spreen, M. L. Zansler, Food and Resource Economics Dept., UF, Gainesville, and <u>R.P. Muraro</u>, CREC, UF, Lake Alfred (PM CCA CEU)

7. 11:30	Canopy Hedging, Topping, and Skirting Effects on Yield and Fruit Quality of Valencia Oranges. J. D. Whitney, T. A.	Monday Afternoon Sess 3:30 p.m 5:00 p.m.	ion Tampa Bay 1
	Wheaton, W. Š. Castle, and D.P.H. Tucker, CREC, UF, Lake Alfred (CM CCA CEU)	CEUs: 1.0 Pest Mgmt, Ag Tree, D & R	0.5 Water Mgmt; RUP CEUs: 1.0 , Private Ag
8. 11:45	Factors Reducing Fresh Grapefruit Packouts in Florida: Can Packouts be Improved? <u>Mark A. Ritenour</u> and Ed Stover, IRREC, UF, Ft. Pierce (CM CCA CEU)	Citrus <u>Dona</u> LSU and V Rese	Status of Leaf-Footed Bugs on s in Louisiana. Seth J. Johnson, <u>Id C. Henne</u> , Dept. of Entomology, AgCenter, Baton Rouge, Louisiana, Wayne J. Bourgeois, Citrus arch Station, LSU AgCenter, Port
LUNCH	BREAK	Sulpi	hur, Louisiana (PM CCA CEU)
1:30 p.m	Afternoon Session 3:00 p.m. Tampa Bay 1 1.0 Bast Marrit 0.5 Care Marrit DUD 0.5 Up 1.0 1	Biolo <u>Li</u> , Jii	al Soil-Tree-Diaprepes Variability in gical Zones at the Field Scale. <u>Hong</u> m Syvertsen, Arnold Schumann, McCoy and Robin Stuart, CREC,
CEUs:	1.0 Pest Mgmt, 0.5 Crop Mgmt; RUP CEUs: 1.0 Ag Tree, D & R, Private Ag		ake Alfred (PM CCA CEU)
9. 1:30	Pre-Emergence Herbicide Azafenidin for Weed Management in Citrus Groves. S. D. Sharma, CCS Haryana Agriculture University, Regional Research Station, Karnal, Haryana, India, and <u>M. Singh</u> , CREC, UF, Lake Alfred (PM CCA CEU)	Dete <u>Mank</u> and Gain Horti	ning to the Larvae: Acoustic ction of D. abbreviatus. <u>R.W.</u> <u>kin</u> , Center for Medical, Agricultural, Veterinary Entomology, USDA-ARS, esville, and S. L. Lapointe, U. S. cultural Research Laboratory, A-ARS, Ft. Pierce (PM CCA CEU)
10. 1:45	Biological Control of the Citrus Leafminer with Ageniaspis citricola in Louisiana. <u>Seth J. Johnson</u> , Donald C. Henne, Dept. of Entomology, LSU AgCenter, Baton Rouge, Louisiana, and Wayne J. Bourgeois, Citrus Research Station, LSU AgCenter, Port Sulphur, Louisiana (PM CCA CEU)	Root and I Soil Rese Piero Alfrei for S	g Tree Performance in a Grapefruit stock Trial with Diaprepes Weevil Phytophthora Diseases in Flatwoods <u>K. D. Bowman</u> , U. S. Horticultural earch Laboratory, USDA-ARS, Ft. ee, J. H. Graham, CREC, UF, Lake d, and R. C. Adair, Jr., Kerr Center ustainable Agriculture, Vero Beach CCA CEU)
11. 2:00	Unusual Infestation of California Red Scale (Homoptera: Diaspididae) in Southern Florida: Apparent Interactions with Pesticides and Weather. <u>Philip A.</u> <u>Stansly</u> , SFREC, UF, Immokalee (PM CCA CEU)	Low Dispi C. El Horti Alab	Expression of Poncirus trifoliata to Temperature Using Differential lay. <u>C. Zhang</u> , P. Lang, F. Dane, R. bel, W. A. Dozier, Dept. of culture, Auburn University, ama, N. K. Singh and B. Locy, Dept.
12. 2:15	Sprayer Air Energy Demand for Satisfactory Spray Coverage. <u>M. Salyani,</u> CREC, UF, Lake Alfred (PM CCA CEU)	Alab	ological Sciences, Auburn University, ama action Between Flooding and
13. 2:30	Trunk Shaker and Abscission Chemical Effects on Yields, Fruit Removal, and Growth of Orange Trees. <u>J. D. Whitney,</u> CREC, UF, Lake Alfred (CM CCA CEU)	Diap Citru <u>Syve</u> Schu	repes Root Weevil Feeding on Two s Rootstocks. Hong Li, <u>Jim</u> <u>ertsen</u> , Clay McCoy and Arnold imann, CREC, UF, Lake Alfred (SW CEU)
14. 2:45	Tree Skirting Effects on Yield and Quality of Valencia Oranges. <u>J. D. Whitney</u> , T. A. Wheaton, W. S. Castle, and D.P.H. Tucker, CREC, UF, Lake Alfred (CM CCA CEU)		
3:00	Sectional Business Meeting		
3:15	Break		
	10		11

21. 5:00	Response of 'Hamlin' Orange to Source, Rate and Irrigated Area. Schumann, CREC, UF, Lake Alfr	<u>A.</u> ed, A.	29. 11:30	Fruit Quality Samplin Orange Trees. <u>F. S.</u> Zalman, Horticultural IFAS, Gainesville (Cl	<u>Davies</u> and G. R. Science Dept., UF,
	Fares, University of Hawaii, Man Hawaii, A.K. Alva, USDA-ARS, V				
	and Forage Crops Research Uni Prosser, Washington, and S. Paramasivam, Savannah State University, Savannah, Georgia (S	t, - 	30. 11:45	Late-Summer Toppin Size in Indian River 'i and <u>Scott Ciliento</u> , IR Pierce (CM CCA CE	Murcott'. Ed Stover REC, UF, Fort
	CEU)		10.00	A -11	
22. 5:15	End of Session		12:00	Adjourn	
22. 0.10	End of Bession				
June 10			HAN	DLING AND PROCESSI	NG SECTION
Tuesday Morni			II.m.		
10:00 a.m 12	00 noon Tam	npa Bay 1		Huating Dou, Presid	ing
CCA CEUs:	1.0 Crop Mgmt; 0.5 Pest Mgmt.; I	RUP		Papers 31-56	
	CEUs: 0.5 Ag Tree, D & R, Priva	te Ag	June 9		
				Norning Session	
23. 10:00	Ecolabeling for Florida Citrus. J. Ferguson, Horticultural Sciences		10:00 a.m.	12:00 noon	Pensacola Bay
	UF, Gainesville		CEUs:	1.0 Pest Mgmt; RUP CEUs: 0.5	5 Ag Row, 0.5 Ag
24. 10:15	The Measurement of the Food			Tree, 1.0 D & R, Private Ag	
24. 10.15	Consumption of an Individual Cal	ribbean			alanmant /St Vitto
	Fruit Fly. <u>H. N. Nigg</u> , R. A. Schur J. Etxeberria, CREC, UF, Lake A	mann, E. Ifred, S.	31. 10:00	Biological Engineerin	albot, Agricultural and ng Dept., and R. P.
	E. Simpson, Florida Dept. of Agri Div. of Plant Industry, Winter Hav Fraser and E. D. Burns, Florida D	ren, S.		Bates, Food Science Nutrition Dept., IFAS	
	Agriculture, Div. of Plant Industry, Gainesville (PM CCA CEU)		32. 10:15	Stability and Change Distance Motor Carr	
25. 10:30	Development of "Tetrazyg" Roots			Produce and Ornam Twenty Years. <u>R. Be</u>	
	Tolerant of the Diaprepes / Phyto Complex under Greenhouse Con	ditions.		Resource Economic Gainesville and J. De	
	J.W. Grosser, J.H. Graham, C.W.				
	A. Hoyte, H.M. Rubio, and J.L. Cl CREC, UF, Lake Alfred (PM CC)		33. 10:30	Assessing the Eating Muskmelon Types a	g Quality of nd Varieties Using
26. 10:45	Comparison of Pohdo Pod and S	Mandard		Sensory Evaluation.	
20. 10.45	Comparison of Rohde Red and S Valencia Juice Color and Maturity			Simonne, B. Hochm	
	E. Rouse, SFREC, UF, Immokale			Cazaux, S. Stapleton	
	Renee M. Goodrich, CREC, UF, I Alfred			Taylor, and W. Davis Sciences Dept., UF,	
	Amed		24 40.45	* Sweetcorn Toleranc	a to Reduced O2
27. 11:00	Effects of Nine Rootstocks on Yie Fruit Quality of 'Parent Washingto		34. 10:45*	With or Without Elev	rated CO2 and
	Trees. Ali Al-Jaleel, Najran Hort.	, nuver		on Quality. G. S. Ria	Atmosphere Storage
	Development Research Center, N	Vajran,		Horticultural Science	
	Saudi Arabia, and <u>Mongi Zekri</u> , H County Extension, UF, LaBelle (C			Gainesville	00
	CEU)		35. 11:00	* Sensitivity of Beit Al	nha Cucumbers
			35. 11.00	(Cucumis sativus) to	
28. 11:15	Evaluation of Year to Year Yield			Storage. A. M. Villali	
	Variability of Orange Trees in Flo			Sargentt, and D. J. H	Huber, Horticultural
	L.G. Albrigo, J.I. Valiente, CREC,				Gainesville (PM CCA
	Lake Alfred, B. Albritton and J. Al Albritton Companies Inc., Wachul CCA CEU)			CEU)	
	And a second and a second second				

36. 11:15	Effect of Pretreatment of Intact 'Kent' Mango with Ethanol Vapor, Heat or 1- Methylcyclopropene on Quality and Shelf Life of Fresh-cut Slices. <u>A. Plotto</u> , J. Bai, E. A. Baldwin, USDA/ARS, Citrus and Subtropical Products Lab., Winter Haven, FL, and J. K. Brecht, Horticultural Science Dept., UF, Gainesville (PM CCA CEU)	45. 3.	Duratio Heat or T. G. M John ¹ , I A. Bald ² USDA Lab., Fo	se of Florida Grapefruit to Short in Heat Treatments Using Vapor Hot Water Dips. <u>M. A. Ritenour</u> , cCollum ² , J. K. Brecht ³ , K-J. R. R. Pelosi ¹ , M. S. Burton ¹ , and E. win ⁴ , ¹ IRREC, UF, Fort Pierce, ARS US Horticultural Research ort Pierce, ³ Horticultural Sciences JF, Gainesville, ⁴ USDA ARS US
37. 11:30	Effect of 1-MCP pretreatment, CA storage and subsequent marketing temperature on volatile profile of 'Gala' apple. J. Bai,	1	Horticul	ltural Research Lab., Winter (PM CCA CEU)
	and E. A. Baldwin, USDA/ARS Citrus & Subtropical Products Lab., Winter Haven, FL (PM CCA CEU)	46. 4:	Enzyme Fruit. <u>M</u>	ing the Use of Hydrolytic es to Facilitate Peeling of Citrus <u>A. Ismail</u> , and H. Chen, Scientific ch, Florida Dept. of Citrus, Lake
38. 11:45	The Use of Ozone for Preserving Fruits During Storage. <u>M. S. Griffith</u> , DECCO Cerexagri Inc., Ft. Pierce (PM CCA CEU)	47. 4:	Alfred	s in Enzyme -Assisted Peeling
LUNCH BREAK			Efficien Orange and 'Ru	cy and Quality of Fresh 'Valencia' and of Stored 'Valencia' Orange by Red' Grapefruit. <u>M. A. Ismail</u> ,
Monday Afternoon 1:30- 3:00	Sessions Pensacola Bay			Chen, Scientific Research, Florida f Citurs, Lake Alfred
39. 1:30	Cooperative postharvest and processing citrus research. J. Ahrens, FDOC, Lake Alfred	48. 4:	Flavano Manthe	Analysis of Methoxylated ones in Orange Oil Residue. <u>J. A.</u> y, and B. S. Buslig, U.S. Citrus otropical Products Lab., ARS,
40. 1:45	Twentieth Century Developments in Handling Florida's Fresh Citrus Fruit - An Overview. D. J. Hall, Agri-Chem	49. 4:	45 Separat	SDA, Winter Haven tion and Detection of
41. 2:15	Consulting, Clermont Practical Challenges of Implementing Good Agricultural and Handling Practices in the Fresh Citrus Packing Industry. J. M. Siddle, FMC Technologies, Inc., Lakeland		Grohma USDA, Hotchki	lacturonides. <u>R. G. Cameron</u> , K. ann (Retired), USDA, ARS SAA, Winter Haven. and A. T. ss, USDA, ARS, North Atlantic astern Regional Research Center, oor, PA
42. 2:30	Environmental and tree condition effects on sheepnosing in grapefruit. J. P.	5:00	Discuss	ion/End of Session
	Syvertsen ¹ , L. G. Albrigo ¹ , M. A.	June		
	Ritenour ² , J. M. Dunlop ¹ , R. R. Pelosi ² , and M. S. Burton ² , ¹ CREC, UF, Lake		day Morning Session - 12:00	Pensacola Bay
	Alfred and ² IRREC, UF, Ft. Pierce	50. 10	0.00 Measur	ement of internal gas
43. 2:45	Alternative Degreening of Early Season Citrus Growth in Florida. <u>H. Dou</u> , S. Jones, and M. A. Ritenour, Florida Dept.	00. 1	concent peel difi	rations of citrus fruit to determine fusivity and other affects of s on fruit quality. R. Hagenmaier,
	of Citrus, CREC, Lake Alfred		USDA/A	ARS Citrus and Subtropical s Lab., SAA, USDA, Winter
3:00	Sectional Business Meeting		Haven	
3:15	Break	51. 10		se in Florida Citrus Acidity over Fifty Years. P. F. Cancalon,
Monday Afternoon	Session	1	FDOC,	Lake Alfred, FL
3:30-5:00	Pensacola Bay		the second second	To any survey of the second
CEUs: 0.5 PM, F	PUP CEUs: 0.5 Ag Tree, D & R, Private Ag	52. 10	thiol in (Determination of 1-p-menthen-8- Grapefruit Juice. <u>K. L. Goodner</u> A. Margaria, USDA, ARS, SAA,
44. 3:30	Heat treatment for green mold control on Florida citrus. <u>J. Zhang</u> , and P. Swingle, Florida Dept. of Citrus, CREC, Lake Alfred (PM CCA CEU)			Subtropical Products Lab.,

53. 10:45	The effect of block deesterification on the pseudoplastic properties of pectin solutions for pulp stabilization. <u>G. A. Luzio</u> , USDA/ARS Citrus & Subtropical Products Lab., Winter Haven	61. 11:00	Roles of Mineral Nutrients for Pierce's Disease Development of Grapevines. <u>Xia</u> <u>Xu</u> ¹ , J. Lu ¹ , and M. F. French ² , ¹ Center for Viticulture and Small Fruit Research, Florida A&M University, Tallahassee; ² Division of Food Safety, Florida Dept. of
54. 11:00	Microflorae of Orange Surfaces and Juice from Fruit in Processing Facilities and the Effect of Grading. <u>R. M. Goodrich</u> and	archicala Archicala Archicala	Agriculture and Consumer Services (PM CCA CEU)
55. 11:15	M.E. Parish, CREC, UF, Lake Alfred Grapefruit Juice: FDOC's Schools Kid	62. 11:15	Lychee Anthracnose Inoculum Sources. Michael J. Davis, TREC, UF, Homestead (PM CCA CEU)
Sheto In Di Okras Man Salau Mir Dirta, Salau Mir	Flavor Evaluation Project. <u>S.M Barros</u> , W.S. Stinson, and T. Flannery, Florida Dept. of Citrus, Lake Alfred	63. 11:30	Evaluation of Chelated Iron Fertilizers Used for Lychee Trees Grown on A Calcareous Soil. <u>Y.C. Li</u> , R. Rao and J.
56. 11:30	A Study of the Orange Juice Color Score Measured by ColorFlex Citrus Color Meter. <u>H. Dou</u> , J. Lee, and M. G. Brown,		Crane, TREC, UF, Homstead (NM CCA CEU)
11:45	Florida Dept. of Citrus Discussion	64. 11:45	Water Conservation Survey of Miami Dade-County Agricultural and Golf/Landscape Commercial Water
12:00	Adjourn		Users. <u>R. Muñoz-Carpena</u> and J.H. Crane, TREC, UF/IFAS, C. Yurgalevitch, Miami-Dade Cooperative Extension
KR	OME MEMORIAL SECTION		Service, G.D. Israel, Agricultural Education and Communication Dept., UF, Gainesville (NM CCA CEU)
	Jiang Lu, Presiding	LUNCH BREA	and MEA demost more well.
	Papers 57-77	LONCH BREA	A
June 9 Monday Morni	ing Session	Monday Aftern 1:30- 3:00	noon Session Tampa Bay 2
10:00 - 12:00	Tampa Bay 2 Nutrient Mgmt, 1.0 Pest Mgmt; RUP CEUs: 1.0	CEUs: 0.5 PM, Private Ag	1.0 CM; RUP CEUs: 0.5 Ag Tree, D & R,
Ag T	ree, D & R, Private Ag	65. 1:30	Pollination and Fruit Set in Southern Highbush Blueberries in Florida. P.M.
57. 10:00	Papaya Variety Development in Florida. <u>Michael J. Davis</u> , Thomas L. White, Jonathan H. Crane, TREC, UF, Homestead (PM CCA CEU)		<u>Lyrene</u> and J.G. Williamson, Horticultural Sciences Dept., UF, Gainesville (CM CCA CEU)
58. 10:15	Development of Three Sac Spiders Occurring on Lime Orchards at Homestead, Florida. <u>D. M. Amalin</u> and J. E. Peña, TREC, UF, and R. McSorley, Entomology and Nematology Dept., UF, Gainesville (PM CCA CEU)	66. 1:45	Early Fall Defoliation Reduces Flower bud Initiation and Inhibits Their Development in Southern Highbush Blueberry. J.G. Williamson, P.M. Lyrene and E.P. Miller, Horticultural Sciences Dept., UF, Gainesville (CM CCA CEU)
59. 10:30	Dieback Caused By Verticillium dahliae on Blighia sapida. <u>R.T McMillan, Jr.</u> , W. R. Graves and T.F. Wood, TREC, UF, Homestead and R. M. Leahy, Plant Pathology, USDA, Div. Plant Industry,	67. 2:00	Comparative Growth and Yield of 'Stover' Grapes Grafted on 23 Different Rootstocks. <u>John A. Mortensen</u> and James W. Harries, CFREC, UF, Apopka (CM CCA CEU)
a mante	Gainesville (PM CCA CEU)	68. 2:15	Glassy-Winged Sharp Shooter Population, Grapevine Resistance and
60. 10:45	Muscadine Vine Dieback: Emerging Problems and Possible Control Measures. <u>Zhongbo Ren</u> and J. Lu, Center for Viticulture and Small Fruit Research, Florida A&M University, Tallahassee (CM CCA CEU)	An Andel IRAC JE Donn U	Pierce's Disease Development. <u>Jiang Lu</u> , Z. Ren, X. Zhang, and X. Xu. Center for Viticulture and Small Fruit Research, Florida A&M University, Tallahassee (PM CCA CEU)

69. 2:30	Production of Papaya Tra Affected By Substrates a	ansplants Is	4:45	Discussion	
	Fertilization. J. P. Morale	s-Payan and W.	5:00	End of Session	
	M. Stall. Horticultural Sci Gainesville	ences Dept., OF,	June 10 Tuesday Mor	ning Seccion	
70. 2:45	Papaya (Carica Papaya)	Response to	10:00-11:30	ning Session	Tampa Bay 2
	Foliar Treatments with O Chain Peptide and Amin	o Acid	CEUs: 0.5	СМ	
	Complexes. <u>J. P. Morale</u> M. Stall. Horticultural Sci Gainesville	ences Dept., UF,	76. 10:00	Performance of Low- in South Coastal Call South Coast Researd	ifornia. D.A. Hagillih,
3:00	Sectional Business Meet	ting		Center, University of Irvine, California, D.F	California (UC),
3:15	Break			Surls, Cooperative E. Angeles, California, C	xtension, UC, Los
Monday Afternoor 3:30-5:00	n Session	Tampa Bay 2		Lazaneo, Cooperativ San Diego, California	e Extension, UC,
CEUs: 0.5 Pest Mg Private Ag	ımt; RUP CEUs: 0.5 Ag Tr		77. 10:15	Effective Chilling Ten Chill Subtropical Pea <u>Rouse</u> , SFREC, UF,	ches. <u>Robert E.</u> Immokalee and
71. 3:30	Evaluation of Grape Ger Resistance to Pierce's D Glassy-winged Sharpshu	Disease (PD) and ooter (GWSS).		Wayne B. Sherman, Sciences Dept., UF, CCA CEU)	
	Elvis E. Clarke*, Zhongb Lu. Center for Viticulture Research, Florida A&M	and Small Fruit	10:30	Discussion	
	CCA CEU)	University (Fivi	10:45	Adjourn	
72. 3:45	Genetic Analysis of Gra Resistance to Pierce's L Anthracnose through So Progeny of N18-6 X Cat J.L. Bourne*, J. Lu and Center for Viticulture an	Disease and preening the F1 pernet Sauvignon. Zhongbo Ren. d Small Fruit	GAR	DEN & LANDSCAPE Anita Neal, Presida Papers 78-93	
	Research, Florida A&M CCA CEU)	University (PM	June 9 Monday After	noon Session	
73. 4:00	Developmental Change	s in Berry	1:30- 3:00		Florida Bay 3
	Composition of Anthraci and Tolerant Grape Ger	notypes. Alfred P	CEUs : 0.5	Water Mgmt, 0.5 Crop Mgm	t.
	Mbele*, Tashhara Fletcl Basha and Hifza Mazha Viticulture and Small Fru Florida A&M University,	nr, Center for uit Research,	78. 1:30	An Historical Perspect Environmental Hortic Manatee County and Statewide Developme	ulture Industry in it's Impact on ent. <u>F. M. Melton</u> ,
74. 4:15	Variations in phenolic and compounds of the music	adine and Florida		Manatee County Exte Palmetto and W. E. V	
	bunch hybrid grapes. <u>D</u> Sheikh M Basha, Cente and Small Fruit Researd University, Tallahassee	r for Viticulture ch, Florida A&M	79. 1:45	Demonstration Garde Geographical Areas o J.V. Morse, Manatee Service, UF, Palmetto	of Manatee County. County Extension
75. 4:30	Methods of Monitoring S for Irrigation Scheduling (Averrhoa carambola L. Limestone Soil in South Al-Yahyai*, Bruce Scha	g in a Carambola) Orchard in n Florida. <u>Rashid</u>	80. 2:00*	Effect of Fertilizer Sou Leaching and Turfgra <u>Saha</u> , L.E. Trenholm, Environmental Hortic	ss Quality. <u>S.K.</u> J.B. Unruh,
	Homestead and Freder Horticultural Sciences I Gainesville	ick S. Davies,		Gainesville (SW CCA	

81. 2:15*	Evaluating Methods of Predicting Irrigation Needs of Warm-Season	June 10 Tuesday Morn	
	Turfgrasses. <u>J.H. Lee</u> , L.E. Trenholm, Environmental Horticulture Dept., UF,	10:00-11:30	Tampa Bay 2
	Gainesville (SW CCA CEU)		st Mgmt; RUP CEUs: 1.0 O & T, Private Ag, D & O, Limited L & O, Limited Landscape
82. 2:30	Experimental Establishment of Paspalum varinatum O. Swartz for Potential use by St. Lucie County Recreational Facilities. <u>E.A. Skvarch</u> , St. Lucie County Extension Service, UF, Ft. Pierce (CM CCA CEU)	89. 10:00	Host Suitability of Cladium Varieties to Root-knot Nematode Meloidogyne incognita. <u>R.McSorley</u> , K.H. Wang, J.J. Frederick, Entomology and Nematology
ALC: NO.			Dept., UF, Gainesville (PM CCA CEU)
83. 2:45	Grow it Locally, Buy it Locally – A Culinary Competition to Promote Local Produce. <u>E. A. Skvarch</u> , St. Lucie County Extension Service, UF, E.M. Lamb, IRREC, UF	90. 10:15	New Insect Pests of south Florida. A.G.B. Hunsberger, Miami-Dade County Extension Service, UF, Homestead (PM CCA CEU)
3:00	Sectional Business Meeting	91. 10:30	Survival of the Cycad Aulacaspis Cycad Scale (Aulacaspis yasumatsui) in
3:15	Break		Northern Florida During Sub-freezing Weather. <u>E.R. Duke</u> , A.B. Lorenzo,
Monday Aftern	noon Session		Florida A&M University, Tallahassee, F.W
3:30-5:00	Tampa Bay 2		Howard, FLREC, UF, Ft. Lauderdale (PM CCA CEU)
84. 3:30	Growing and Marketing Spinach at Local Green Markets in Palm Beach County, Florida. <u>K.D. Shuler</u> , S.J. Nie, P-A.N. Shuler, Stephen's Produce (CM CCA CEU)	92. 10:45	Assessing the Effects of alternative Landscape Design and Management on Insect Diversity in Tallahassee-Leon County, Florida. <u>A.B. Lorenzo</u> , J.J. Muchovej, E.R. Duke, M. Pescador,
85. 3:45	Growing and Marketing Swiss Chard at Local Green Markets in Palm Beach County, Florida. <u>K.D. Shuler</u> , S.J. Nie, P- A.N. Shuler, Stephen's Produce (CM CCA CEU)		Florida A&M University, Tallahassee, J. Legaspi, I. Baez, USDA/ARS Center for Biological Control, Florida A&M University, Tallahassee (PM CCA CEU)
		93. 11:00	The White Malady Strikes! Management
86. 4:00	The Miami-Dade Adopt-a-Tree Program. <u>A.G.B. Hunsberger</u> , J.F. Garofalo, C.F. Balerdi, D.W. Pybas, Miami-Dade County		Approaches to Cycad Aulacaspis Scale and Pesticide Trial Updates. <u>D.L.</u> <u>Caldwell</u> , Collier County Extension
	Extension Service, UF, Homestead (CM CCA CEU)		Service, UF, Naples (PM CCA CEU)
87. 4:15	Economic Considerations of Perennial	11:15	Discussion
07. 4.10	Peanut as a Ground Cover in Urban Landscapes. <u>F Roka</u> , R. Rouse, SFREC, UF, E. Miavitz-Brown, Collier County	11:30	Adjourn
	Extension Service, UF, Naples (CM CCA	(DRNAMENTALS SECTION
	CEU)		Van Donnan, Presiding
88. 4:30	Interpretative Educational Signs for Stormwater Ponds. <u>P.Brown</u> , V. Bryant,		Papers 94-105
	D. Armstrong, C. Claus, A. Wilson, J. Murphy, T. Murphy, L. Claudio, Pinellas County Extension, UF, Largo, Florida	June 9 Monday Aftern	
	Botanical Gardens	1:30- 3:00	Biscayne Bay
4:45	Discussion	94. 1:30	Sclerotium rolfsii Southern Blight On Oncidium/Brassia Hybrid Orchid. T. B.
5:00	End of Session		Pratt, <u>R. T. McMillan Jr.</u> and W. R Graves. TREC, UF, Homestead

95. 1:45	Management of Diaprepes Root Weevil, Diaprepes abbreviatus (Coleoptera: Curculionidae) in Ornamentals. <u>C.</u> <u>Mannion</u> and H. Glenn. TREC, UF,	104. 4:30	Uncovering the Horticultural Roots of the Community of Gotha, Florida: the Importance of Henry Nehrling. N. M. Decker, Department of Foreign
	Homestead		Languages, Rollins College, Winter Park
96. 2:00*	Comparison of 7 slow release N fertilizers and ammonium sulfate on perennial ryegrass. <u>S. Dickerson</u> and J. B. Sartain. Soil and Water Science Dept., UF,	105. 4:45	Fort Lauderdale Winter Trial Garden. Kimberly K. Moore. FLREC, UF, Ft. Lauderdale
	Gainesville	5:00	Discussion/Adjourn
97. 2:15	Fumigant Alternatives to Methyl Bromide for Filed Cut Flowers. <u>R. McSorley</u> , K. H. Wang. Entomology and Nematology		CIAL VEGETABLE SECTION
	Dept., UF, Gainesville and G. Church, USDA-ARS, Ft Pierce		Teresa Olczyk, Presiding Papers 106- 113
98. 2:30	Effects of Controlled-release Fertilizer and Supplemental Magnesium on Leatherleaf Fern Frond Color, Chlorophyll and Elemental Content, Fresh Weight	June 9 Monday Morni 10:00-11:30	ng Session Florida Bay 1 & 2
	and Vaselife. <u>R. H. Stamps</u> and A. L Chandler. MFREC, UF, Apopka	CEUs: 0.5 C Priva	M, 1.5 PM; RUP CEUs: 1.5 Ag Row, D & R, te Ag
99. 2:45	The Importance of Testing Reclaimed Water Used in Nurseries. F. M. Melton. Manatee County Extension Service, UF, Palmetto	106. 10:00	Hydroponic production of fresh ginger root (Zingiber officinale) as an alternative method for South Florida. <u>Ray Rafie,</u> Teresa Olczyk, Miami-Dade County Cooperative Extension Service, UF and
3:00	Sectional Business Meeting		Waldo Guerrero, Shenandoah Growers, Homestead (CM CCA CEU)
3:15	Break	107. 10:15	Effect of Interplanting Secondary Crops on Strawberry Yield. J. R. Duval and E.
Monday Aftern 3:30-5:00	Biscayne Bay		A. Golden. GCREC, UF, Dover (CM CCA CEU)
100. 3:30	The Morphology of Sunflower (Helianthus annus) 'Sunbright' Grown as Cut Flowers Changes with Pruning Date and Frost/freeze Events. <u>E. R. Emino</u> and B. Hamilton. Environmental Horticulture Dept., UF, Gainesville	108. 10:30	Effectiveness of Various Insecticides in Controlling Diamondback Moth, Plutessa sylostella (Lepidoptera: Plutellidae) D. R. Seal, TREC, UF, Homestead (PM CCA CEU)
101. 3:45	Dianthus 'Bouquet Purple' as a Potential Cut Flower for Florida is Influenced by Compost Amended Media as to Time of Harvest, Growth, Yield and Quality. <u>E. R.</u> Emino and B. Hamilton. Environmental	109. 10:45	Hydroponically Produced Mini-Cucumber with Improved Powdery Mildew Resistance. <u>Nicole L. Shaw</u> and Daniel J. Cantliffe, Horticultural Sciences Dept., UF, Gainesville (PM CCA CEU)
	Horticulture Dept., UF, Gainesville	110. 11:00	OberonTM: a new tool for arthropod management in Florida. Marco A.
102. 4:00	The Use of Mineral Wool in Horticulture. V. Donnan, Verlite Company. Tampa, FL	arive secondariate a	<u>Toapanta</u> , Bayer CropScience, Tampa, Lamar Buckelew ¹ , Roy Morris, Bayer CropScience, Lakeland, Robert Steffens ¹
103. 4:15	Plant Evaluation Observations of Coleus (Solenostemon scutellarioides). R. Bowden. Harry P. Leu Gardens, Orlando		and Richard Rudolph ¹ , ¹ Bayer CropScience, Research Triangle Park, North Carolina (PM CCA CEU)

111. 11:15*	Fruit Yield and Quality, Susceptibility to Powdery Mildew (Sphaerotheca macularis), and Aphid (Aphis gossypii)	117. 10:55	"High Risk" Insect Pests: Monitoring and Diagnosis. Catharine Mannion, TREC, UF, Homestead
	Infestation Trends For Seven Strawberry Cultivars Grown without Pesticides in a Passive-ventilated Greenhouse Using Pinebark as Soilless Substrate. <u>Ashwin</u>	118. 11:10	"High Risk" Weed Pests: Monitoring and Diagnosis. Greg MacDonald, Agronomy Department, UF, Gainesville
	<u>V. Paranipe</u> ¹ , Daniel J. Cantliffe ¹ , Silvia Rondon ¹ , Craig K. Chandler ² , Jeffrey K. Brecht ¹ , Elliot J. Brecht ¹ , and Kim Cordasco ¹ , ¹ Horticultural Sciences Dept.,	119. 11:25	Regulating "High Risk" Pests: Lessons from Citrus Canker. Tim Schubert, Division of Plant Industry, FDACS, Gainesville
	UF, Gainesville; ² GCREC, UF, Dover (PM CCA CEU)		Traducente da Program contentante
112, 11:30 Initial Weed-free Period and Subsequent		120. 11:40	Working with Clientele Groups in a Monitoring Program. <u>Curt Turner</u> and
	Yellow Nutsedge (Cyperus esculentus) Population Density Affect Yield and		Madeline Mellinger, Glades Crop Care, Jupiter
	Grade of Tomato (Lycopersicon esculentum). <u>J. P. Morales-Payan</u> , W. M.	12:00	LUNCH BREAK
	Stall, Horticultural Sciences Dept., UF, Gainesville, D. G. Shilling, MFREC, UF,	Monday Afterno	oon Session
	Apopka, J. A. Dusky, Extension Admin.,	1:30- 3:00	Tampa Bay 3
	UF, Gainesville, T. A. Bewick, USDA/CSREES, Washington, DC, and R.	CCAs: 0.5 W	ater Mgmt, 1.0 Nutrient Mgmt
	Charudattan, Plant Pathology Dept., UF, Gainesville (PM CCA CEU)	121. 1:30	Advanced Irrigation Techniques for Improving Competitiveness of Tomato
113. 11:45	Density and Time of Emergence of Purple Nutsedge (Cyperus rotundus) Effects on Bell Pepper (Capsicum annuum). <u>J.</u> <u>Pablo Morales-Payan</u> and William M. Stall. Horticultural Sciences Dept., UF,		Production in Today's Demanding Market. <u>R. Muñoz-Carpena</u> , H. Bryan, W. Klassen, TREC, UF, Homestead, M. Dukes, Agricultural and Biological Engineering Dept., UF, Gainesville
	Gainesville (PM CCA CEU)	122. 1:45	Assessing Length of Irrigation and Soil
12:00	Adjourn		Humidity as Basis for Delivering Fumigants through Drip Lines in Florida Spodosols. <u>Bielinski M. Santos</u> , James P.
VEGETABLE SECTION			Gilreath and Timothy N. Motis, GCREC, UF, Bradenton
1	Mary Lamberts, Presiding	tion .	an training and a state of the state of the
	Papers 114-140	123. 2:00	Visualization of Water Movement in Mulched Beds with Injections of Dye with Drip Irrigation. <u>Eric Simonne</u> , Robert
June 9 Monday Morning Session			Hochmuth², David Studstill¹, Gene McAvoy³, Michael Dukes⁴ and Scott
10:00-11:30	Tampa Bay 3		Kerr ⁴ , ¹ Horticultural Sciences Dept., UF Gainesville, ² NFREC, UF, Live Oak,
Workshop on "High Risk" Pests			³ Hendry County Extension Service, UF,
CCAs: 2.0 Pest Mgmt			Labelle, ⁴ Agricultural and Biological Engineering Dept., UF, Gainesville
114. 10:00	Southern Plant Diagnostic Network (SPDN) Mission. <u>Gail Wisler</u> , Plant Pathology Dept., UF, Gainesville	124. 2:15	The University of Florida IFAS Livestock Waste Testing Laboratory. <u>Justin Jones</u> and George Hochmuth, NFREC, UF, Live
115. 10:20	"High Risk" Plant Pathogens: Monitoring		Oak
	and Diagnosis. Tim Momol, NFREC, UF, Quincy	125. 12:30	Response of 'Florida 47' Tomato to Soil- and Foliar-applied Biostimulants and N
116. 10:40	"High Risk" Nematodes: Monitoring and Diagnosis. Billy Crow, Entomology & Nematology Dept., UF, Gainesville		and K Rates. Alexander A. Csizinszky, GCREC, UF, Bradenton

126. 2:45 Effect of Reduced Phosphorus Fertilizer Rates on Yield and Quality of Sweet Corn Grown on Calcareous Soil in Miami-Dade	June 10 Tuesday Morning Session 10:00-11:30 Tampa Bay 3	
County. <u>Teresa Olczyk</u> , Miami-Dade County Extension Service, UF,	CCAs: 2.0 Pest Mgmt	
Homestead, Yuncong Li, TREC, UF, Homestead, Eric Simonne, Horticultural Sciences Dept., UF, Gainesville and Rao Mylavarapu, Soil and Water Science Dept., UF, Gainesville	133. 10:00 History and Agricultural Contributions of the Hastings Research and Education Center, 1923 to 2002. D. P. Weingartner, Plant Pathology Dept., UF, Gainesville	
3:00 Sectional Business Meeting	134. 10:15 Evaluation of Various Chemical Treatments as Potential Replacements	
3:15 Break	of Methyl Bromide for Control of Soilborne Pests in Polyethylene-Mulched	
Monday Afternoon Session 3:30-5:00 Tampa Bay 3	Tomato (Lycopersicon esculentum). J.P. Gilreath, <u>T.N. Motis</u> , J.P. Jones, B.M. Santos, GCREC, UF, Bradenton, J.W.	
CCAs: 1.5 Crop Mgmt	Noling, CREC, UF, Lake Alfred, E.N. Rosskopf, US Horticultural Research Lab, USDA-ARS	
127. 3:30 Winter Strawberry Production in Greenhouses Using Soilless Substrates: An Alternative to Methyl Bromide. <u>Ashwin V. Paranjpe</u> , Daniel J. Cantliffe, Horticultural Sciences Dept., UF, Gainesville, Elizabeth M. Lamb, Peter J. Stoffella and Charles Powell, IRREC, UF,	135. 10:30 Herbicide and Mulch Evaluations for Weed Management in West Central Florida Strawberries. James P. Gilreath, <u>Bielinski M. Santos</u> and Timothy N. Motis, GCREC, UF, Bradenton	
Ft. Pierce 128. 3:45 Strawberry Daughter Plantlet Size Affects Transplant Growth and Development. Eric B. Bish, Daniel J. Cantliffe, Horticultural Sciences Dept., UF, Gainesville and <u>Craig K. Chandler</u> , GCREC, UF, Dover	136. 10:45 Integrated Management of Thrips and Tomato Spotted Wilt in Field-Grown Fresh Market Tomatoes. <u>J. L. Mayfield,</u> Gadsden County Extension Service, UF Quincy, and J. Hudgins, Decatur County Extension Service, Univ. of Georgia, Bainbridge, Georgia	
129. 4:00 Performance of Bell Pepper Varieties over Two Seasons in Southeast Florida, 2000-2002. K. D. Shuler, Palm Beach County Extension Service, UF, West Palm Beach	137. 11:00 Effect of 1,3 Dichloropropene and Chloropicrin on Purple Nutsedge (Cyperus rotundus L.) Under Two Mulches & Two Application Methods During the Spring of 2002. <u>R. C.</u> <u>Hochmuth, W. E. Davis, NFREC, UF,</u>	
130. 4:15 Red-Skinned Potato (Solanum tuberosum L.) Variety Evaluation in a Sub-Tropical Climate. <u>Chad M. Hutchinson</u> and Doug M. Gergela, Horticultural Sciences Dept., UF, Gainesville, Teresa Olczyk, Miami- Dade County Extension Service, UF, Homestead, Gene McAvoy, Hendry	Live Oak, E. H. Simonne, W. M. Stall, Live Oak, E. H. Simonne, W. M. Stall, Horticultural Sciences Dept., UF, Gainesville, Jerry Nance, Dow AgroSciences, Winter Haven, Anthony W. Weiss, Dow AgroSciences, Cary, NC, and John Mirusso, Mirusso Fumigation, Boynton Beach	
County Extension Service, UF, Labelle, James M. White, MFREC, UF, Apopka	138. 11:15 New Miticides and Programs of Application for Control of Twospotted	
131. 4:30 Watermelon Yield and Size when Grown on Four Plastic Mulch Colors. <u>James M.</u> <u>White</u> , MFREC, UF, Apopka	Spider Mite (Tetranychus urticae Koch (Acari: Tetranychidae) on Strawberry. <u>J.</u> <u>F. Price</u> ¹ , E. McCord ² , and C. N. Nagle ¹ , ¹ GCREC, UF, Bradenton, ² Natural	
132. 4:45 Influence of Summer Cover Crops on Tomato Production in South Florida. <u>Qingren Wang</u> , Waldemar Klassen, Herbert Bryan, Yuncong Li, TREC, UF, Homestead, Aref Abdul-Baki and Zafar Handoo ARS-USDA, Maryland	Sciences Division, New College of Florida	
5:00 End of Session		
26	27	

139. 11:30

The Effect of Methyl lodide on Rhizoctonia solani, Meloidogyne incognita and Yield in Florida 47 Tomato. <u>R. T. McMillan</u>, Jr, H. H. Bryan, TREC, UF, Homestead and J. J. Sims

140. 11:45

An Improved Management Program for Controlling Pepper Weevil, Anthomus eugenii Cano (Coleoptera: Curculionidae). D. R. Seal, TREC, UF, Homestead

Adjourn

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12:00