Preliminary Program

Florida State Horticultural Society
One Hundred and Ninth Annual Meeting

November 3-5, 1996
The Clarion Plaza Hotel
Orlando, Florida

General Session (Dr. Mohamed Ismail) ............... Ballroom D
Citrus Section (Dr. Lawrence Parsons) ................. Ballroom D
Garden and Landscape Section (Dr. Stephen Kostewicz) .... Salon 2
Handling and Processing Section (Mr. Craig Campbell) .... Salon 10
Krome Memorial Institute (Dr. Peter Andersen) ........ Salon 18
Ornamental Section (Dr. James Gilreath) .............. Salon 1
Vegetable Section (Dr. George Hochmuth) ............. Salon 9

All papers will start promptly on schedule as shown so that it will be possible to go from one section to another to hear papers of personal interest.

Every person attending the meeting is asked to register. Preregistration fee before October 15, 1996 is $50.00. Preregistration for the spouses program is $15.00. Student preregistration is $15.00. Registration after October 15, 1996 will be $60.00, $20.00, and $20.00, respectively. No refunds will be made after November 1, 1996.

Gary J. Wilfret, Program Coordinator
Preliminary Program
One Hundred and Ninth Annual Meeting
Florida State Horticultural Society

Awards Ceremony
Sunday Evening, November 3, 1996 - 6:00 pm
Dr. Mohamed Ismail, Presiding
(Salon 6)

Social Hour
Sunday Evening, November 3, 1996 - 7:00 pm
(Ballroom A)

Spouses Program
Monday, November 4, 1996
Hospitality Room Open - 8:30 am
(Salon 17)
Lunch and Program
(Salon 3)
Tuesday, November 5, 1996
Hospitality Room Open - 8:30 am
(Salon 17)

Undergraduate Student Luncheon
Monday Noon, November 4, 1996
(Jack’s Place)

Horticultural Breakfast
Tuesday, November 5, 1996 - 7:00 am
(Ballroom C)

Annual Business Meeting
Tuesday, November 5, 1996 - 10:15 am
(Ballroom D)

Fruit Crops Lunch
Tuesday, November 5, 1996 - Noon
(Ballroom C)

Workshops
Tuesday, November 5, 1996
1:00 - 5:00 pm
(Ballroom D)
General Session
Monday Morning, November 4, 1996 - 8:30 am
(Ballroom D)

Dr. Mohamed Ismail, Presiding

Invocation ........................................ Mr. Charles M. Hendrix, Jr.
Introduction and Welcome ...................... Dr. Mohamed Ismail
President's Address .............................. Dr. Walter Kender
Principal Address .............................. TBA
Recognition of Students ....................... Dr. John L. Griffis, Jr.

CITRUS SECTION
Lawrence Parsons, Vice President
Presiding

Monday A.M., November 4, 1996
1. 10:00 "Deposition of Spray Material on Citrus Fruit and Foliage by Low and Mid-Volume Application", P. A. Stansly, R. E. Rouse, SWFREC, IFAS, Univ. of FL, Immokalee; and R. P. Cromwell, Ag. and Biol. Engineering, IFAS, Univ. of FL, Gainesville.
2. 10:15 "Management of Glyphosate - Associated Citrus Fruit Drop", C. G. Erickson, Monsanto, Tangerine.
3. 10:30 "Citrus Leaf Wash Comparison of Zinc Nutritionalss and Nutrient Uptake Analysis", S. H. Futch, CREC, IFAS, Univ. of FL, Lake Alfred; and R. N. Gallaher, Agronomy, IFAS, Univ. of FL, Gainesville.
4. 10:45 "Effects of Application Time and Spray Volume on Deposition", M. Salyani and W. C. Hoffmann, CREC, IFAS, Univ. of FL, Lake Alfred.
8. 11:30 "Feeding Response of First Instar Larvae of Diaprepes abbreviatus to Different Novel Intergeneric Citrus Somatic Hybrids", J. W. Grosser and C. W. McCoy, CREC, IFAS, Univ. of FL, Lake Alfred.

LUNCH (on your own)

Monday P.M., November 4, 1996
1. 1:15 Sectional Business Meeting
11. 2:00 "Preplant Leaf Nitrogen Concentration Effects on Growth and Fertilizer Requirement of Young 'Hamlin' Orange Trees", L. Quazzelli, J. J. Ferguson, and F. S. Davies, Hort. Sciences, IFAS, Univ. of FL, Gainesville.
12. 2:15 "Irrigation and Fertilization of Young Interset 'Hamlin' Orange Trees in

13. 2:30 “User Perspective on Laboratory Analysis and It’s Reliability”, E. Oontermann, and J. Haines, A. Duda & Sons, LaBelle; and V. Reinholde, SWREC, IFAS, Univ. of FL, Immokalee.


3:00 Discussion and Intermission


17. 4:00 “Hail Damage: Physical Forces and Crop Losses”, S. Rogers, ECOSTAT, Inc., Highland City.


19. 4:30 “Does Moving Undetected Sprinklers Into the Canopy Add Protection from Cold Damage?”, J. D. Martsoff, Hort. Sciences, IFAS, Univ. of FL, Gainesville.

Tuesday A.M., November 5, 1996

20. 8:30 “Recent Developments of Cuba’s Citrus Industry”, R. P. Muraro, CREC, IFAS, Univ. of FL, Lake Alfred; and T. H. Spreen, Food and Res. Economics, IFAS, Univ. of FL, Gainesville.

21. 8:45 “Inter-Plant Competition and Rootstock Affect the Growth and Yield of ‘Hamlin’ Orange Trees Used for Replanting”, W. S. Castle and J. C Baldwin, CREC, IFAS, Univ. of FL, Lake Alfred.


23. 9:15 “A Long Term Production Planning Model for a Citrus Farm”, H. Prekel and P. Hodsboeoe, Truida Prekel Consultants, Cape Town, Republic of South Africa and Tammankulu Estates, Kingdom of Swaziland.


25. 9:45 “Optimum Temperatures for Seed Germination of 17 Citrus Varieties Used as Rootstocks”, R. E. Rouse and J. B. Sherrod, SWREC, IFAS, Univ. of FL, Immokalee.

10:15 Annual Business Meeting

LUNCH (on your own)

Tuesday P.M., November 5, 1996

1:00 - 5:00 Workshops

GARDEN & LANDSCAPE SECTION
Steve Kostewicz, Vice President
Presiding

Monday A.M., November 4, 1996


32. 11:30 “Use of Native Aquatic Plants as Backyard Ornaments”, D. L. Sutton, FLREC, IFAS, Univ. of FL, Ft. Lauderdale; and D. L. Robinette, Aquaculture Fisheries and Wildlife Dept., Clemson Univ., Clemson, SC.


LUNCH (on your own)

Monday P.M., November 4, 1996

1:15 Sectional Business Meeting


35. 1:45 “Effects of Production Shade Levels on Size and Vase Life of Three Cut Foliage Crops”, R.H. Stamps, CFREC, IFAS, Univ. of FL, Apopka.

36. 2:00 “Two Year Evaluation of Pansy Cultivars in the Florida Landscape”, T.K. Howe and W. E. Waters, GCREC, IFAS, Univ. of FL, Bradenton.


38. 2:30 “The Use of MSW Compost in an Ornamental Landscape”, J. D. Leary, Ag. and Biol. Engineering, IFAS, Univ. of FL, Gainesville; and G. Kidder, Soil and Water Science, IFAS, Univ. of FL, Gainesville.

39. 2:45 “The Build Green and Profit Program”, M. E. Swisher, Home Economics, IFAS, Univ. of FL, Gainesville; and D. Roos, Hort. Sciences, IFAS, Univ. of FL, Gainesville.

3:00 Discussion and Intermission

Tuesday A.M., November 5, 1996

10:15 Annual Business Meeting

LUNCH (on your own)

Tuesday P.M., November 5, 1996

1:00-5:00 Workshops

HANDLING AND PROCESSING SECTION
Craig Campbell, Vice President
Presiding

Monday, A.M., November 4, 1996

40. 10:00 “Measuring Grapefruit Juice on a Percent Weight Basis”, W. F. Wardowski, CREC, IFAS, Univ. of FL, Lake Alfred; M. A. Rains, FL Div. Fruits and Veg., Winter Haven; and V. Zhiteleva, CREC, IFAS, Univ. of FL, Lake Alfred.


42. 10:30 “Techniques for Abrasive Damage Assessment of Florida Citrus”, W. M. Miller and W. L. Verba, CREC, IFAS, Univ. of FL, Lake Alfred.

43. 10:45 “Effect of Nature Seal Coatings on Maintaining Carotene in Fresh-cut Carrots”, X. Chen, EcoScience PSD, Orlando.

44. 11:00 “Degreening Mature Green or Slightly Yellow Peel Carambolas Prior to Cold

46. 11:30 “Blueberry Fruit Quality and Storability as Influenced by Postharvest Application of Polyamine and Heat Treatments”, F. M. Bassiony, Dept. of Agr. Sciences, Tuskegee Univ., Tuskegee, AL.

47. 11:45 “Response of Blackberry Fruit to Calcium, Polyamines and Controlled Atmospheres”, F. Valerio and F. M. Bassiony, Dept. of Agr. Sciences, Tuskegee Univ., Tuskegee, AL; D. G. Himelrick, Dept. of Hort., Auburn Univ., Auburn, AL.

LUNCH (on your own)

Monday P.M., November 4, 1996

1:15 Sectional Business Meeting


52. 2:30 “Comparison of Cooling and Packaging Methods to Extend the Postharvest Life of Okra”, S. A. Sargent, A. J. Fox, C. M. Coelho, and S. J. Locascio, Hort. Sciences, IFAS, Univ. of FL, Gainesville.

53. 2:45 “Postharvest Quality of an Astringent Persimmon Variety after Long-Term Storage Followed by Ethephon Treatment”, M. A. Moura, Plant Sci. Dept., Universidade Federal de Vicosa, Vicosa, Brazil; C. L. Moretti, CNPH/EMBRAPA, Brasilia, DF, Brazil; and L. C Lopes, Plant Sci. Dept., Universidade Federal de Vicosa, Vicosa, Brazil.

3:00 Discussion and Intermission

Tuesday A.M., November 5, 1996

10:15 Annual Business Meeting

LUNCH (on your own)

Tuesday P.M., November 5, 1996

1:00-5:00 Workshops

KROME MEMORIAL SECTION

Peter Andersen, Vice President
Presiding

Monday A.M., November 4, 1996

54. 10:00 “The UF/IFAS Strawberry Cultivar Development Program”, C.K. Chandler, GCREC, IFAS, Univ. of FL, Dover; T.E. Crocker, Hort. Sciences, IFAS, Univ. of FL, Gainesville; and D. E. Legard, GCREC, IFAS, Univ. of FL, Dover.

56. 10:30 “Gibberellic Acid (GA3) Sprays Increase Fruit Set and Yield of RabbitEye Blueberries”, J.O. Williamson and R.L. Darnell, Hort. Sciences, IFAS, Univ. of FL, Gainesville; G. Kremer, Hort. Sciences, Univ. of GA, Tifton; and S. NeSmith, Hort. Sciences, Univ. of GA, Griffin.

57. 10:45 “Freeze Protection of Blueberries with Overhead Irrigation”, P.M. Lyrene, Hort. Sciences, IFAS, Univ. of FL, Gainesville.

58. 11:00 “Floral Biology, Pollination and Parthenocarpy of the Oriental Persimmon (Diospyros kaki L.)”, K.R. Woodburn, Hort. Sciences, IFAS, Univ. of FL, Gainesville; and P.C. Andersen, NFREC, IFAS, Univ. of FL, Quincy.


60. 11:30 “Low Chill Peach and Nectarine Breeding at the University of Florida”, W.B. Sherman, P.M. Lyrene and R.H. Sharpe, Hort. Sciences, IFAS, Univ. of FL, Gainesville.

61. 11:45 “Post-harvest Characteristics of Moderate Chill Peach Varieties”, T.G. Beckman, USDA-ARS, Byron, GA; and G.W. Krewer, Univ. of GA, Tifton.

LUNCH (on your own)

MONDAY P.M., NOVEMBER 4, 1996

1:15 Sectional Business Meeting


63. 1:45 “Evaluation of Pecan Cultivars in North Florida from 1989 to 1996”, P.C. Andersen, NFREC, IFAS, Univ. of FL, Quincy.


65. 2:15 “The ‘Glenn’ Mango, an Early-Maturing Cultivar”, C.W. Campbell, TREC, Univ. of FL, IFAS, Homestead; and R.J. Campbell, Fairchild Tropical Garden, Miami.


67. 2:45 “Suitability of Dade County Groundwater for use in Micro Irrigation Systems”, D. Pitts, SWFREC, IFAS, Univ. of FL, Immokalee; C. Yurgalevitch, South Dade County Soil and Water Conservation District, Homestead; T. Obreza, J. Capece, SWFREC, IFAS, Univ. of FL, Immokalee; and J. Dymond, South Dade County Soil and Water Conservation District, Homestead.

3:00 Discussion and Intermission


69. 3:45 “Application of Gibberellic Acid on Grape Cultivar, Orlando Seedless”, J. Lu, Center for Viti. Sciences, FL A&M Univ., Tallahassee.

70. 4:00 “Hybridization of Vitis rotundifolia X V. Vinifera” J. Lu and L. Schell, Center for Viti. Science, FL A&M Univ., Tallahassee.

71. 4:15 “Resistence of Muscadine Grapes to Angular Leaf Spot (Mycosphaerella angulata) in North Florida”, J. Chen and O. Lamikanra, Center for Viti. Sciences, FL A&M Univ., Tallahassee.


TUESDAY A.M., NOVEMBER 5, 1996

10:15 Annual Business Meeting

LUNCH (on your own)
Tuesday P.M., November 5, 1996
1:00-5:00 Workshops

ORNAMENTALS SECTION
Jim Gilreath, Vice President
Presiding

Monday A.M., November 4, 1996
73. 10:00 “New Insecticides for Management of Silverleaf Whitefly in Poinsettia”, J. F. Price, GCREC, IFAS, Univ. of FL, Bradenton.
74. 10:15 “Impatiens Height Control by Paclobutrazol for Plants Grown In Media Containing Compost”, K. A. Klock, FLREC, IFAS, Univ. of FL, Ft. Lauderdale.
75. 10:30 “Effect of Plant Growth Regulators on Growth of Barbara Karst” Bougainvillea”, J. H. Aldrich and J. G. Norcini, NFREC, IFAS, Univ. of FL, Monticello.
76. 10:45 “Response of Seventeen Poinsettia Cultivars to Growth Regulators”, G. J. Wilfret, GCREC, IFAS, Univ. of FL, Bradenton.
77. 11:00 “Diethylstilbestrol and In Vitro Morphogenesis of Immature Coconut (Cocos nucifera L.) Leaf Tissues”, J. L. Griffin, Jr., Citrus and Hort. Dept., FL Southern College, Lakeland; R. E. Litz, TREC, IFAS, Univ. of FL, Homestead; and T. J. Sheehan, Environ. Hort., IFAS, Univ. of FL, Gainesville.
78. 11:15 “Effect of Late Growth Regulators Applications at Floral Bud Emergence and Stretch on Easter Lily Development”, G. J. Wilfret and R. A. Reiser, GCREC, IFAS, Univ. of FL, Bradenton.
LUNCH (on your own)

Monday P.M., November 4, 1996
1:15 Sectional Business Meeting
81. 1:30 “Effect of Temperature and Fungicides on Development of Alternaria Leafspot of Periwinkle”, J. P. Jones and R. J. McGovern, GCREC, IFAS, Univ. of FL, Bradenton.
83. 2:00 “Enhanced Survival of Impatiens in Rhizoctonia solani-Infested Soil by Fungicides and Biocontrols”, R. J. McGovern, GCREC, IFAS, Univ. of FL, Bradenton.
84. 2:15 “Bamboo Mosaic Virus Detected in Ornamental Bamboo Species in Florida”, M. S. Elliott and F. Z. Zettler, Plant Pathology, IFAS, Univ. of FL, Gainesville.
85. 2:30 “Preliminary Investigations with Fumigant Alternatives to Methyl Bromide in Floricultural Crops”, J. P. Gilreath, GCREC, IFAS, Univ. of FL, Bradenton; and D. W. West, Manatee Co. School District, Palmetto.
86. 2:45 “Acanthos typhonis Found on Coconut Palms in Florida and its Possible Association with Lethal Yellowing”, J. Rackley, Jon’s Nursery, Inc., Eustis.
3:00 Discussion and Intermission
VEGETABLE SECTION
George Hochmuth, Vice President
Presiding

Monday A.M., November 4, 1996
88. 10:00 "N Fertilization Management for Bell Pepper (Capsicum Annum L.)", N. L. Shaw, G. J. Hochmuth, and S. A. Sargent, Hort. Sciences, IFAS, Univ. of FL, Gainesville; and E. A. Hanlon, Soil and Water Science, IFAS, Univ. of FL, Gainesville.

89. 10:15 "Fertilizer Content of the Medium Enhances Lettuce Transplant Growth", S. Nicola and D. J. Cantliffe, Hort. Sciences, IFAS, Univ. of FL, Gainesville.

90. 10:30 "Effect of Microirrigation and Contact Inoculant Rates on Tomato and Bell Pepper Yields", A. A. Csizinsky, GCREC, IFAS, Univ. of FL, Bradenton.


95. 11:45 "Strawberry Plug Transplants: Regulation of Growth and Production", E. B. Blais, D. J. Cantliffe, Hort. Sciences, IFAS, Univ. of FL, Gainesville; and C. K. Chandler, GCREC, IFAS, Univ. of FL, Dover.

LUNCH (on your own)

Monday P.M., November 4, 1996
1:15 Sectional Business Meeting


98. 2:00 "Transplant Mulch Hole Burner with Cycloidal Motion", L. N. Shaw, Ag. and Biol. Engineering, IFAS, Univ. of FL, Gainesville.


3:00 Discussion and Intermission


104. 4:00 “Efficacy of 1,3-Dichloropropene Formulations for Control of Plant Parasitic Nematodes on Tomato”, R. McSorley, Entomology, IFAS, Univ. of FL, Gainesville; and R. J. McGovern, GCREC, IFAS, Univ. of FL, Bradenton.

105. 4:15 “Evaluation of Pepper Tolerance to Selected Preplant Herbicides”, W. M. Stall, Hort. Sciences, IFAS, Univ. of FL, Gainesville; and J. P. Gilreath, GCREC, IFAS, Univ. of FL, Bradenton.

106. 4:30 “Effect of Incorporation Method on Pepsate Efficacy under Polyethylene Mulch in Tomato”, J. P. Gilreath and J. P. Jones, GCREC, IFAS, Univ. of FL, Bradenton; and J. W. Noling, CREC, IFAS, Univ. of FL, Lake Alfred.

Tuesday A.M., November 5, 1996


108. 8:45 “Toxic Effects of New Miticides on Twospotted Spider Mites in Strawberry”, J. F. Price, GCREC, IFAS, Univ. of FL, Bradenton.

109. 9:00 “Management of Tomato Pinworm (Walsingham) Using Biological and Chemical Insecticides”, D. R. Seal and R. Betancourt-Barros, TREC, IFAS, Univ. of FL, Homestead.

110. 9:15 “Methyl Iodide a Replacement of Methyl Bromide as a Soil Fumigant for Tomatoes”, R. T. McMillan, Jr., H. H. Bryan, TREC, IFAS, Univ. of FL, Homestead; and H. D. Ohr and J. J. Sims, Univ. of CA, Riverside, CA.

111. 9:30 “Management of Melon Aphid on Cantaloupe and Watermelon with Insecticides Specific for Homoptera”, S. E. Webb, CFREC, IFAS, Univ. of FL, Leesburg.


10:15 Annual Business Meeting

LUNCH (on your own)

Tuesday P.M., November 5, 1996

WORKSHOPS

“Methyl Bromide: Its Future and Alternatives for Soil Fumigation”

1:00 The U.S. Regulatory Scenario and the Perceived Future of Methyl Bromide, Dan Botts.

“The Role of the USDA in Development of Alternatives to Methyl Bromide”, Judith B. St. John.

“The Response of the University of Florida to the Potential Loss of Methyl...”
Bromide”, Dr. Richard L. Jones.
“The Pros and Cons of Existing Alternatives and Possible Future Alternatives to Methyl Bromide”, Dr. Joe Noling.
3:00 Intermission
“New Technological Applications for Agriculture”
3:15 “Opportunities for the Florida Citrus Industry in the Information Age”,
P. Spyke, Arapaho Citrus, Ft. Pierce.
3:45 “Precision Agriculture for Florida Horticultural Crops”, J. Scueller,
Mechanical Engineering, Univ. of FL, Gainesville.
4:15 TO BE ANNOUNCED

EXECUTIVE COMMITTEE - 1996
Florida State Horticultural Society

Dr. Walter J. Kender - President
Dr. Mohamed A. Ismail - Chairman
Dr. J. David Martzolf - Secretary
Dr. David W. Buchanan - Treasurer
Dr. Gary J. Wilfret - Program Coordinator
Mr. Reginald L. Brown - Member-At-Large
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Dr. Norman F. Childers - Editor
Dr. Lawrence R. Parsons - Vice-President (Citrus)
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Mr. Craig Campbell - Vice-President (Handling & Processing)
Dr. Peter C. Andersen - Vice-President (Krome Memorial)
Dr. James P. Gilreath - Vice-President (Ornamentals)
Dr. George J. Hochmuth - Vice-President (Vegetables)
Tuesday A.M., November 5, 1996
10:15 Annual Business Meeting
LUNCH (on your own)

Tuesday P.M., November 5, 1996
1:00-5:00 Workshops

VEGETABLE SECTION
George Hochmuth, Vice President
Presiding

Monday A.M., November 4, 1996

88. 10:00 "N Fertilization Management for Bell Pepper (Capsicum Annuum L.)", N. L. Shaw, G. J. Hochmuth, and S. A. Sargent, Hort. Sciences, IFAS, Univ. of FL, Gainesville; and E. A. Hanlon, Soil and Water Science, IFAS, Univ. of FL, Gainesville.

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95. 11:45 "Strawberry Plug Transplants: Regulation of Growth and Production", E. B. Blah, D. J. Cantilfie, Hort. Sciences, IFAS, Univ. of FL, Gainesville; and C. K. Chandler, GCREC, IFAS, Univ. of FL, Dover.

LUNCH (on your own)

Monday P.M., November 4, 1996

96. 1:15 Sectional Business Meeting


98. 1:45 "Evaluation of Commercial Asparagus Production", D. N. Maynard, GCREC, IFAS, Univ. of FL, Bradenton.

99. 2:00 "Transplant Mulch Hole Burner with Cylindrical Motion", L. N. Shaw, Ag. and Biol. Engineering, IFAS, Univ. of FL, Gainesville.

100. 2:15 "Reducing Root-Zone Temperature to Enhance Heat-Tolerant Tomato Yield", H. Y. Hanna, E. P. Millhollon, J. K. Herrick, and C. L. Fletcher,