

SOUTHERN REGION

AMERICAN SOCIETY

FOR

HORTICULTURAL SCIENCE

64th ANNUAL MEETING

Tulsa, Oklahoma

Adam's Mark Hotel

February 14 – 16, 2004

SOUTHERN REGION

AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE

OFFICERS

Dr. John R. Clark, President
Department of Horticulture
316 Plant Science
University of Arkansas
Fayetteville, Arkansas 72701

Dr. Janet C. Cole, President-Elect
Oklahoma State University
Department of Horticulture and
Landscape Architecture
360 Ag Hall
Stillwater, Oklahoma 74078

Dr. Paul L. Smeal, Secretary-Treasurer
1107 Kentwood Drive, SE
Blacksburg, Virginia 24060-5656

SECTION

Education
 Extension
 Floriculture, Ornamentals & Turf
 Fruit Crops
 Posters
 Postharvest/Biotech./Plant Biology
 Vegetable Crops
 Collegiate Branch
 Graduate Students
 Master Gardener & Consumer Horticulture

CHAIRPERSON

Ellen Peffley, Texas
 Ed Bush, Louisiana
 Richard Durham, Kentucky
 Kathryn Taylor, Georgia
 Kent Cushman, Mississippi
 David Picha, Louisiana
 George Boyhan, Georgia
 Richard Harkess, Mississippi
 Janet Cole, Oklahoma
 Janet Carson, Arkansas

COMMITTEES

Executive
 Nominations
 Membership

CHAIRPERSON

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 Paul Smeal, Virginia

AWARD SELECTION COMMITTEES

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 L. M. Ware Dist. Research
 Henry Covington Extension
 John E. Hutchison Young
 Extension Professional
 Excellence in Doctoral
 Research & Writing
 Leadership & Administration
 Extension Communications Awards
 Outstanding Club Award

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 Thomas Monaco, North Carolina
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 Thomas Crocker, Georgia

 Mike Boyette, North Carolina

 Dewayne Ingram, Kentucky
 Warren Roberts, Oklahoma
 Richard Harkess, Mississippi

SPECIAL EVENTS AND SESSIONS
ADAM'S MARK HOTEL AND MOBILE CONVENTION CENTER
TULSA, OKLAHOMA
SATURDAY, FEBRUARY 14, 2004

- | | |
|--------------------|---|
| 8:00 am - 6:00 pm | Registration - Paul Smeal
Adam's Mark Hotel - Lobby |
| 8:00 am - 5:00 pm | Pecan Research and Extension Forum
Presiding: Mike Smith
Room: Adam's Mark Executive Suite |
| 8:00 am - 5:00 pm | Southern Blueberry/Small Fruit Workers
Presiding: Steve Stringer
Room: Adam's Mark Diplomat Suite |
| 8:30 am - 12: noon | ACB Program, Club Share Activities
Presiding: Whitney Holsted
Adam's Mark Oklahoma Room |
| 12:00 noon | ACB Lunch on Your Own |
| 1:00 pm - 4:00 pm | ACB Activities – Tour Southwood Nursery, Host – Joe Schultey |
| 1:00 pm – 5:00 pm | Horticulture Administration
Presiding: David Hensley
Room: Adam's Mark Boardroom |
| 4:00 pm - 6:00 pm | ACB Reception – Hosted by Oklahoma State University Horticulture Club
Presiding: Whitney Holsted, ACB President
Room: Adam's Mark Oklahoma Room North
Dinner on Your Own |
| 8:30 pm till | Student Entertainment on Your Own or Informal Gathering , TBA |
| 5:00 pm - 6:00 pm | Southern Region - ASHS Executive Meeting
Presiding: David Bender
Room: Adam's Mark Boardroom |

SUNDAY, FEBRUARY 15, 2004

- 7:00 am - 6:00 pm Registration - Paul Smeal
Adam's Mark Hotel Second Floor Foyer
- 9:00 am - noon Vigna Crop Germplasm Committee
Presiding: Richard Fery
Room: Adam's Mark Executive Suite
- 8:00 am -12 noon Extension Section
Presiding: Ed Bush
Room: Adam's Mark Director Row 1
- 8:00 pm - 5:00 pm Watermelon Research Group
Presiding: Benny D. Bruton
Room: Adam's Mark Tulsa Ballroom Central
- 8:00 am - 10:00 am J. B. Edmond Undergraduate Student Paper Competition
Presiding: Whitney Holsted, ACB President and John Clark, SR President
Room: Adam's Mark Diplomat Suite
- 10:00 pm - noon Warren S. Barham Graduate PhD Student Paper Competition
Presiding: Janet Cole
Room: Adam's Mark Diplomat Suite
- 1:00 pm - 5:00 pm Norman F. Childers Graduate MS Student Paper Competition
Presiding: Janet Cole
Room: Adam's Mark Diplomat Suite
- 1:00 pm - 5:00 pm National Cowpea Improvement Association
Presiding: Judy Thies
Room: Adam's Mark Executive Suite
- 1:00 pm - 5:00 am Education Section
Presiding: Ellen Peffley
Room: Adam's Mark Directors Row 5
- 7:00 am - noon J. Benton Storey Student Judging Contest Setup
Room: Adam's Mark Tulsa Ballroom South
- 1:00 pm-3:00 pm J. Benton Storey Undergraduate Student Horticulture Commodity Evaluation
Contest
Presiding: ACB Officers
Room: Adam's Mark Tulsa Ballroom South
- 9:00 am - noon Set up Posters
- 4:00 pm - 6:00 pm Poster Session - Authors at Posters
Presiding: Kent Cushman
Room Adam's Mark Promenade Room Foyer

MONDAY, FEBRUARY 16, 2004

- 7:00 am - 10:00 am Registration - Paul L. Smeal
Adam's Mark Second Floor Foyer
- 8:00 am - 10:45 am Vegetable Crops Section
Chairperson: George Boyhan
Room: Adam's Mark Executive Suite
- 8:00 am - 10:45 am Fruit Crops Section
Chairperson: Kathryn Taylor
Room: Adam's Mark Diplomat Suite
- 8:00 am - 10:45 am Floriculture, Ornamentals and Turf Section
Chairperson: Richard Durham
Room: Adam's Mark Directors Row 3
- 8:00 am - 10:45 am Postharvest/Biotechnology/Plant Biology Section
Chairperson: David Picha
Room: Adam's Mark Directors Row 4
- 8:00 am – 10:45 am Master Gardener & Consumer Horticulture
Chairperson: Janet Carson
Room: Adam's Mark Studio Room 301
- 9:00 am - 10:30 am ACB Business Meeting**
Presiding: Whitney Holsted, ACB President
Room: Adam's Mark Tulsa Ballroom South
- 11:00 am - 12:15 pm SOUTHERN REGION ANNUAL BUSINESS
MEETING & AWARD PROGRAM**
Presiding: John Clark, President, Southern Region - ASHS
Room: Adam's Mark Tulsa Ballroom South
- 1:30 pm - 4:45 pm Vegetable Crops Section
Chairperson: George Boyhan
Room: Adam's Mark Executive Suite
- 1:30 pm - 4:00 pm Fruit Crops Section
Chairperson: Kathryn Taylor
Room: Adam's Mark Diplomat Suite
- 1:30 pm – 3:00 pm Floriculture, Ornamentals and Turf Section
Chairperson: Richard Durham
Room: Adam's Mark Studio Room 301

PROGRAM

SUNDAY, FEBRUARY 15, 2004

J. B. EDMOND UNDERGRADUATE STUDENT PAPER COMPETITION

Room: Adam's Mark Diplomat Suite

Presiding: Ms. Whitney Holsted, Southern Region - ASHS ACB President and Dr. John Clark, Southern Region - ASHS President

Abstracts must be electronically submitted as attachment to Dr. Gary Bachman (grbachm@ilstu.edu)

8:00 am Order of presentation will be determined by a drawing at beginning of contest.

1. **An Evaluation of Post-Harvest Fruit Rot Resistance in Blackberry Genotypes.**
John-Paul Kidd*, John R. Clark, and Patrick Fenn, Depts. of Horticulture and Plant Pathology, University of Arkansas, Fayetteville, AR 72701 and Barbara J. Smith, USDA-ARS Small Fruit Research Station, Poplarville, MS 39470.
2. **Propagation of Thornless Blackberries Utilizing Adventitious Shoots from Root Cuttings.**
Ellen Thompson*, John R. Clark, and Curt R. Rom, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701.
3. **Micropropagation of *Vitex agnus-castus*.**
Melissa A. Smith* and J. Kim Pittcock Arkansas State University, College of Agriculture, PO Box, 1080, State University, AR 72467.
4. **Pruning Techniques Influence Eggplant Growth, Yield and Economics.**
Jennifer Yarbrough, Doug Sanders and Ed Estes, North Carolina State University, Department of Horticultural Science, P.O. 1076, Raleigh, NC 27695-7609.

WARREN S. BARHAM PH.D. GRADUATE STUDENT PAPER COMPETITION

Room: Adam's Mark Diplomat Suite

Presiding: Dr. Janet Cole, Southern Region - ASHS

Abstracts must be electronically submitted as attachment to Dr. Janet Cole (jccole@okstate.edu)

10:00 am Order of presentation will be determined by a drawing at beginning of contest.

1. **Expression Patterns of *Buddleja* Floral Meristem Identity Gene.** Jeffrey A. Adkins*, Dennis J. Werner, and John D. Williamson, Dept. of Horticultural Science, North Carolina State University, Campus Box 7609, Raleigh, NC 27695-7609. (jaadkins@unity.ncsu.edu)
2. **Effect of Water Deficit Stress on Leaf Gas Exchange and Water Relations of Six Birch Taxa (*Betula* spp.) Under Controlled Conditions.** Gu Mengmeng*, J. Robbins, and C.R. Rom. Dept. of Horticulture, University of Arkansas, Plant Sciences Building 316, Fayetteville, AR 72701. (crom@uark.edu)

3. **Do Students Really Learn as much Horticulture with Web-Based Instruction as in the Classroom?** Igino Teolis*¹, Ellen B. Peffley¹, and David B. Wester². ¹Dept. of Plant and Soil Science, Texas Tech University, Box 42122, Lubbock, TX 79409, ²Dept. of Range, Wildlife, and Fisheries Management, Texas Tech University, Box 42125, Lubbock, TX 79409. (igino.teolis@ttu.edu)
4. **Development of a Micropropagation Protocol for *Astilbe*.** B.E. Trader, R.E. Veilleux, and H.L. Scoggins. Department of Horticulture, Virginia Tech, Blacksburg, VA 24060 (btrader@vt.edu)

NORMAN F. CHILDERS M.S. GRADUATE STUDENT PAPER COMPETITION

Room: Adam's Mark Diplomat Suite

Presiding: Dr. Janet Cole, President-Elect, Southern Region - ASHS

Abstracts must be electronically submitted as attachment to Dr. Janet Cole (jccole@okstate.edu)

1:00 pm Order of presentation will be determined by a drawing at beginning of contest.

1. **Effect of Lime Sulfur and Osmotic Salts on Apple Pollen Germination.** Vikramjit Bajwa* and Curt R. Rom, Department of Horticulture, University of Arkansas, Plant Sciences Building 316, Fayetteville, AR 72701. (crom@uark.edu)
2. **Evaluation of the Effects of Two Deficit Irrigation Strategies on *Vitis vinifera* 'Cabernet Sauvignon' Cold Acclimation, Hardiness, Growth, Yield, and Fruit Quality.** Ashley Basinger* and Edward Hellman, Plant and Soil Science, Texas Tech University, P.O. 42122, Lubbock, TX 79409. (ashley.r.basinger@ttu.edu)
3. **'Stargazer' Lily Height Control with Flurprimidol Pre-plant Bulb Dips, Substrate Drenches, and Foliar Sprays.** Brian A. Krug*, Brian E. Whipker, and Ingram McCall, Department of Horticultural Science, 227B Kilgore Hall, North Carolina State University, Box 7609, Raleigh, NC 27695-7609. (bakrug@unity.ncsu.edu)
4. **Genetic Investigation of Antioxidant Activity in Cowpea (*Vigna unguiculata* (L.) Walp.).** Ndambe M. Nzaramba*, Douglas C. Scheuring, Anna L. Hale, and J. Creighton Miller Jr., Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133. (mnzaramba@neo.tamu.edu)
5. **Expressivity in *Buddleja* Hybrids.** Scott E. Renfro* and Jon T. Lindstrom, Department of Horticulture, University of Arkansas, 316 Plant Sciences Bldg., Fayetteville, AR 72701. (srenfro@uark.edu)

EXTENSION SECTION

Room: Adam's Mark Directors Row 1

Presiding: Dr. Ed Bush

Extension Section Chair

Abstracts must be electronically submitted as attachment to Dr. Ed Bush (ebush@agctr.lsu.edu)

- 8:00 am** **An Interactive Web Site for Training Landscape Professionals.**
Gary L. Wade and Janet L. Sylvia, Department of Horticulture, The University of Georgia, 221 Hoke Smith Bldg., Athens, GA 30602. (gwade@uga.edu)
- 8:30 am** **Overview of the LSU AgCenter's Commercial Nursery, Floriculture, and Landscape Extension Programming Efforts.**
Allen Owings, LSU AgCenter, Department of Horticulture, 155 Julian C. Miller Hall, Baton Rouge, LA 70803. (aowings@agctr.lsu.edu)
- 9:00 to 9:15 am** **Breakout**
- 9:15 am** **A Review of Lawn and Garden Shows in Louisiana.**
Dan Gill, LSU AgCenter, Department of Horticulture, 155 Julian C. Miller Hall, Baton Rouge, LA 70803. (dgill@agctr.lsu.edu)
- 9:45 am** **Landscape Classes for the Consuming Public: Involvement of Master Gardeners.**
Ken Makii and Ron Robbins, LSU AgCenter, West Monroe and Calhoun, P.O. Box 488, Calhoun, LA 71225. (rrobbins@agctr.lsu.edu)
- 10:15 am** **Collaborating with Florida Nurserymen and Growers Association (FNGA) to Develop a Curriculum Model for Training Migrant Workers As Certified Nursery Employees.**
Joe Garofalo and A. R. Rafie, University of Florida/Miami-Dade County Cooperative Extension Service, 18710 SW 288th St, Homestead, FL 33030-2309. (jgarofalo@mail.ifas.ufl.edu)
- 10:20 am** **Coastal Roots: A Community Outreach Program.**
Ed Bush, Pam Blanchard, Dianne Lindstedt, and Sophie Warny, LSU AgCenter, Department of Horticulture, 137 Julian C. Miller Hall, Baton Rouge, LA 70803 (ebush@agctr.lsu.edu)
- 10:55 am** **Adjourn**

EDUCATION SECTION

Room: Adam's Mark Directors Row 5

Presiding: Dr. Ellen Peffley

Abstracts must be electronically submitted as attachment to Dr. Ellen Peffley (ellen.peffley@ttu.edu)

- 1:00** **Greenhouse Management Online – An Interactive Alternative to Traditional Greenhouse Management Textbooks.** Mike Evans, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (mrevans@uark.edu)
- 1:20** **Using a Database to Serve Multiple Audiences and Web Pages.** Lou Anella and Douglas C. Needham, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (anella@okstate.edu)
- 1:40** **Plant Identification: A Computer Assisted Instruction Approach.** Patricia Barrett, Department of Horticulture, Auburn University, Auburn. AL 36849.

2:00 Horticulture 101: Growing to the Next Level. David Berle, Department of Horticulture, University of Georgia, Athens, GA 30602.

2:20 Problem-Based Learning in the Classroom. Douglas C. Needham, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (needham@okstate.edu)

2:40 Active Classroom Participation and Demonstrations to Excite Non-Science Majors about the Science of Horticulture. David Wm. Reed, Department of Horticultural Sciences, Texas A&M University, College Station, TX, 77843.

POSTERS

Room: Adam's Mark Promenade Room Foyer

Presiding: Dr. Kent Cushman

Authors Set up Posters: 9:00 am to noon

Authors at Posters: 4:00 pm to 6:00 pm

Posters should be in place by noon Sunday and remain until noon Monday, following the Business Meeting.

Abstracts must be electronically submitted as attachment to Dr. Kent Cushman (Kcushman@ra.msstate.edu)

* Undergraduate student in poster contest

** Graduate student in poster contest

Presenter: name followed by an asterisk (*)

Fruit & Nut

1. **PediTrack - A Simple Pedigree Program for Lineage Tracking. Eric T. Stafne and John R. Clark. Department of Horticulture, 316 Plant Science, University of Arkansas, Fayetteville, AR 72701. (estafne@uark.edu)

2. *Propagation of Thornless Arkansas Blackberries by Hardwood Cuttings. Mark Bray, Curt R. Rom, and John R. Clark. Department of Horticulture, Plant Science 316, University of Arkansas, Fayetteville, AR 72701. (jrclark@uark.edu)

3. 'Palmetto': A New Southern Highbush Blueberry Cultivar. D. Scott NeSmith¹, Arlen Draper², and James M. Spiers³. ¹University of Georgia, Griffin, GA, ²USDA-ARS, retired, ³USDA-ARS Small Fruits Research Station, Poplarville, MS. (snesmith@griffin.uga.edu)

4. **'Brightwell': A More Self-Fertile Rabbiteye Blueberry Cultivar. Patricio A. Brevis and D. Scott NeSmith. Department of Horticulture, 1111 Plant Sciences Building, University of Georgia, Athens, GA 30602. (pbrevis@uga.edu)

5. **Amplified Fragment Length Polymorphism (AFLP) Markers for Pecan Genome Mapping. Sudheer Beedanagari and Patrick Conner. Horticulture Department, Coastal Plains Experiment Station, 4604 Research Way, Tifton, GA 31793. (pconner@tifton.uga.edu)

6. Differences in Levels of Defoliation by Japanese Beetle (*Popillia japonica*) in Various Fruit Genotypes. Cynthia R. Stewart, Jackie McKern, Philip J. Stewart, Eric T. Stafne, Barbara Lewis, Donn Johnson, John R. Clark, and Curt R. Rom. Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (crom@uark.edu)

7. Performance of 'Ozarkblue' Blueberry Plants Propagated by Tissue Culture and by Rooted Hardwood Cuttings. Kenda R. Woodburn and John R. Clark. Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (woodburn@uark.edu)

8. Early Performance of Peach Cultivars in Southwest Arkansas. Manjula Carter¹, Keith Striegler², and Curt Rom³. ¹University of Arkansas Southwest Research and Extension Center, 362 Hwy 174 N., Hope, AR 71801, ²The Mid-America Viticulture and Enology Center, SMSU - Mountain Grove, 9740 Red Spring Road, Mountain Grove, MO 65711, ³University of Arkansas, Dept. Horticulture, 316 Plant Science, Fayetteville, AR 72701. (mcarter@uaex.edu)

Ornamentals

9. **Caladium Growth Control with Flurprimidol, Paclobutrazol, and Uniconazole. Brian Krug. Department of Horticultural Science, NCSU Box 7609, North Carolina State University, Raleigh, NC 27695-7609. (bakrug@unity.ncsu.edu)

10. Landscape Observations of All America Daylily Cultivars. Allen Owings, LSU AgCenter, Department of Horticulture, 155 Julian C. Miller Hall, Baton Rouge, LA 70803. (aowings@agcenter.lsu.edu)

11. Wild Chrysanthemum (*Artemisia vulgaris* L.) Management in Ornamental Plant Production. D.K. Robinson, University of Tennessee, Plant Sciences, Knoxville, TN 37996, D. Fare, United States National Arboretum, McMinntown, TN, and M. Halcomb, Agricultural Extension Service, McMinntown, TN. (drobins5@utk.edu)

12. **Addressing Seed Dormancy and Germination Issues in *Helianthus annuus* (L.). Crystal Smith¹, Cynthia McKenney^{1,2}, and Norman Hopper¹. ¹Department of Plant and Soil Science, Texas Tech University and ²Texas A&M Research and Extension Center - Dallas, 17360 Coit Road, Dallas, TX 75252-6599. (c-mckenney@tamu.edu)

13. In Vitro Germination of Galax. Guochen Yang*, Johanna Mearns, Carl Niedziela, and Theophilus Asante. Department of Natural Resources and Environmental Design, North Carolina A&T State University, Greensboro, NC 27411. (yangg@ncat.edu)

14. Cut Flower Poinsettia: Postharvest Analysis and Consumer Preference. Christine Coker, Patricia Knight, Benedict Posadas, Mike Ely, and Mike Anderson. Coastal Research and Extension Center, Mississippi State University, 2710 Beach Boulevard, Suite 1-E, Biloxi, MS 39531. (cec117@ra.msstate.edu)

15. Cyclic Irrigation Effects the Efficacy and Longevity of Selected Preemergence Herbicides. Glenn B. Fain. Mississippi State University, Truck Crops Branch Experiment Station, Crystal Springs, MS 39059. (gfain@ra.msstate.edu)

16. Nitrogen and Potassium Concentration Affect Yield and Subsequent Rooting of Stem Cuttings from Stock Plants of New Guinea Impatiens and Scaevola. James L. Gibson*, Brian E. Whipker, and Paul V. Nelson. West Florida Research and Education Center, Institute of Food and Agricultural Sciences, Milton Campus, 5988 Highway 90, Building 4900, Milton, FL 32583. (JLGibson@ifas.ufl.edu)

17. Vegetative Propagation and Subsequent Container Production of *Ulmus parvifolia*. Donita L. Bryan*, Michael A. Arnold, R. Daniel Lineberger, and W. Todd Watson. Texas A&M University, Dept. of Horticultural Sciences, College Station, TX 77843-2133. (ma-arnold@tamu.edu)

18. **Expression Patterns of a *Buddleja* Floral Meristem Identity Gene. Jeffrey A. Adkins, Dennis J. Werner, and John D. Williamson, Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695-7609. (jaadkins@unity.ncsu.edu)

19. Response of *Parkinsonia aculata* Trees to Growth Regulator Treatments. Ahmed A. Al-Badawy* and El-Sayed H. Hussien. Dept. of Arid Land Agriculture, College of Food Systems, UAE University, P.O. Box 17555, Al-Ain, United Arab Emirates. (A.Albadawy@uaeu.ac.ae)

20. Daylilies: Flowers or Food? Christine Coker¹, Patricia Knight¹, Glenn Fain², and Mike Anderson¹. ¹Mississippi State University, Coastal Research and Extension Center, 2710 Beach Blvd. Biloxie, MS 39531, ²Mississippi State University, Central Mississippi Research and Extension Center, Crystal Springs, MS 35050. (cec117@ra.msstate.edu)

21. Perennial Plug Growth Using Vermicompost-amended Media. Gary R. Bachman. Department of Agriculture, Illinois State University, Normal, IL 61790-5020. (grbachm@ilstu.edu)

Vegetables

22. Efficacy of Foliar Sprays for Management of Downy and Powdery Mildew of Acorn Squash. A.H. Beany¹, K. Pernezny², J. Collins², A. Carroll², and P.J. Stoffella¹. ¹University of Florida, IFAS, Indian River Research and Education Center, 2199 South Rock Road, Fort Pierce, FL 34945-3138. ²University of Florida, IFAS, Everglades Research and Education Center, 3200 East Palm Beach Road, Belle Glade, FL 33430-4702. (ahbeany@mail.ifas.ufl.edu)

23. Evaluation of Yield and Quality of Tomato Cultivars Developed for Resistance to Tomato Spotted Wilt Virus. John Gavin, Bradley County Extension Agent, University of Arkansas-CES, 100 East First, Warren, AR 71671, Paul Cooper, Area Horticultural Specialist (Emeritus), University of Arkansas-CES, 100 East First, Warren, AR 71671, and Donna Shanklin, Extension Entomologist, University of Arkansas-CES, SEREC, Post Office Box 3508, Monticello, AR 71656. (cootercooper@yahoo.com)

24. Harvest Date Effect on Yield and Controlled Atmosphere Storability of Short-Day Onions. George E. Boyhan*, Albert C. Purvis, William C. Hurst and Reid L. Torrance. University of Georgia, Department of Horticulture, East Georgia Extension Center, Post Office Box 8112, GSU, Statesboro, GA 30460. (gboyhan@uga.edu)

25. The Effects of Fertilizer Rates and Timing on Production and Macronutrient Elemental Leaf Content of 'Malabar' Spinach (*Basella alba* L). Marshall, D.A.¹, O.P. Vadhwa², J.M. Spiers¹. ¹USDA-ARS Small Fruits Research Station, Poplarville, MS. ²Alcorn State University. (DAMarshall@msa-stoneville.ars.usda.gov)

26. Effect of Light Intensity on Field Performance of Tomato and Spring and Fall-planted Snap Bean. Don J. Makus. USDA, ARS, Weslaco, TX. (dmakus@weslaco.ars.usda.gov)

27. **Controlled Release Fertilizer Use Efficiency and Influence on Potato Tuber Quality and Yields in Northeast Florida. J.E. Pack*, C.M. Hutchinson, and E.H. Simonne. Horticultural Sciences Department, University of Florida, Gainesville, FL 32611-0690. (jeffpack@ufl.edu)

28. **Fate and Movement of Nitrogen through a Sandy Soil as Influenced by Potato Crop Production and Leaching Irrigation Events. C.M. Worthington*, C.M. Hutchinson, and E.H. Simonne. Horticultural Sciences Department, University of Florida, Gainesville, FL 32611-0690. (dlsgator@ufl.edu)

29. **Ammonium Thiosulfate Deflowering Treatments to Influence Maturity at Once-Over Harvest, Yield and Capsaicinoid Content of Pepper Fruit. Janakiraman Maruthavanan, Niels Maness, and Donna Chrz. Department of Horticulture and L.A., Oklahoma State University, Stillwater, OK 74078 (maness@okstate.edu)

30. **A Novel Procedure for Lycopene Recovery from Red-fleshed Watermelons. Ioannis Oikonomakos, Niels Maness, and Donna Chrz. Department of Horticulture and L.A., Oklahoma State University, Stillwater, OK 74078. (maness@okstate.edu)

31. Low Sugar Watermelon for the Diabetic Consumer. Angela Davis, Penelope Perkins-Veazie, and Julie Collins. USDA-ARS-SCARL, Lane, OK. (adavis-usda@lane-ag.org)

32. A Rapid Spectrophotometric Method to Determine Beta-carotene Content in *Cucumis melo*. Angela Davis, Wayne Fish, Julie Collins, and Penelope Perkins-Veazie. USDA-ARS-SCARL, Lane, OK. (adavis-usda@lane-ag.org)

33. Dry Bean (*Phaseolus vulgaris* L.) Yield Components: Weed Control and Soil Moisture Interactions. Charles L. Webber III, USDA, ARS, SCARL, Lane, OK 74555, and James W. Shrefler, Oklahoma State University, P.O. Box 128, Lane, OK 74555. (cwebber-usda@lane-ag.org)

34. Spring High Density Spinach Variety Trial. Lynda Wells, Lynn Brandenberger and Merlin Schantz, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078. (lpb@okstate.edu)

35.Isoflavone Content in Fresh and Dry Beans.** Timothy Coolong. Department of Plant Sciences, University of Tennessee, Knoxville, TN 37996. (tcoolong@utk.edu)

36.Long-term Soil Changes as Affected by Poultry Litter Applications. Warren Roberts, Jonathan Edelson, and Jim Shrefler. Oklahoma State University, P.O. Box 128, Lane, OK 74555. (wroberts@lane-ag.org)

37.Effect of Phosphorus Sources and Growth Regulator Treatments on Growth and Active Ingredient of Guar (*Cyamopsis tetragonoloba* L.) Plants. Ahmed A. Al-Badawy*¹, N.M. Abdalla², A.A. El-Sayed², and M.D. Omar². ¹Dept. of Arid Land Agriculture, College of Food Systems, UAE University, P.O. Box 17555, Al-Ain, United Arab Emirates. ²Dept. of Horticulture, College of Agriculture, Minia University, Minia, Egypt. (A.Albadawy@uaeu.ac.ae)

38.Glucosinolate and Selenium Profiles for Various Broccoli Sprout Cultivars.** Jason Abercrombie. Department of Plant Science, University of Tennessee, Knoxville, TN 37996. (jabercro@utk.edu)

39.*Identifying Amounts and Types of Anthocyanins in Cultivars and Breeding Lines of Cowpeas. Hallie Dodson, J.B. Murphy, and T.E. Morelock. University of Arkansas, Department of Horticulture, Fayetteville, AR 72701 (morelock@uark.edu)

40.Triploid (Seedless) Watermelon Evaluations: Elongated Genotypes. Kent Cushman¹, Richard Snyder¹, Christine Coker¹, Alan Walters², Lewis Jett³, and Chris Gunter⁴, ¹Mississippi State University, ²Southern Illinois University, ³University of Missouri, and ⁴Southwest Purdue Agricultural Center. (kcushman@ra.msstate.edu)

41.Mississippi Medallion Program: Evaluation of Selected Colored Sweet Pepper Varieties. Kent Cushman, William Evans, Christine Coker, Thomas Horgan, Peter Hudson, and Mike Ely, Mississippi State University, North Mississippi Research and Extension Center, PO Box 1690, Verona, MS 38879. (kcushman@ra.msstate.edu)

42.Grape Tomatoes: A New Type of Tomato for Mississippi Markets. Christine Coker, William Evans, Kent Cushman, Mike Ely, Peter Hudson, and Thomas Horgan, Mississippi State University. (cec117@ra.msstate.edu)

43.Preliminary Findings from Mississippi's Organic Vegetable Plots. K.L. Paridon* and W. B. Evans. Mississippi State University Truck Crops Branch Experiment Station, Crystal Springs, MS 39059. (keri@ra.msstate.edu)

44.Bringing Ethnic Vegetables to Mississippi Gardeners. R.G. Snyder¹, W. B. Evans*¹, and P.E. Igbokwe². ¹Mississippi State University Truck Crops Branch Experiment Station, Crystal Springs, MS 39059, and ²Alcorn State University, Lorman, MS 39096. (RickS@ra.msstate.edu)

45. Pasteurized Broiler Litter for Tomato Production: 2003 Results. W.B. Evans*, P.M. Hudson, and K.L. Paridon. Mississippi State University Truck Crops Branch Experiment Station, Crystal Springs, MS 39059. (wbe@ra.msstate.edu)

46. The Greenhouse Tomato Short Course - Intensive Training for Commercial Growers in Mississippi and Beyond. Richard G. Snyder*. Central Mississippi Research & Extension Center, Mississippi State University, Crystal Springs, MS 39059 (RickS@ra.msstate.edu).

PROGRAM

MONDAY, FEBRUARY 16, 2004

VEGETABLE CROPS SECTION

Room: Adam's Mark Executive Suite

Presiding: Dr. George Boyhan

Vegetable Crops Section Chair

Abstracts must be electronically submitted as attachment to Dr. George Boyhan (gboyhan@uga.edu)

8:00 am Mandated Vidalia Onion Variety Trials; How well has it worked?
George Boyhan*, Bill Randle, Anna Resurreccion, Al Purvis, Reid Torrance, Ronnie Blackley, Greg Hardison, Heath Paradise, Jeff Cook, Randy Hill, and Thad Paulk. University of Georgia, East Ga. Extension Center, PO Box 8112, GSU, Statesboro, GA 30460.

8:15 am Colored Mulch Effects Overall Performance Of "B" Size Potato. Production and Quality. Richard L. Hassell*, Tyron Phillips, Teri Hale. Plant and Environmental Sciences, Clemson University, Coastal Research and Education Center, 2700 Savannah Highway, Charleston, SC 29414.

8:30 am Taste Panel Perception of Sweetness Compared to HPLC Analysis of Sugars in Sweet Corn. Teri Hale*, Richard L. Hassell, Tyron Phillips. Plant and Environmental Sciences, Clemson University, Coastal Research and Education Center, 2700 Savannah Highway, Charleston, SC 29414.

8:45 am The Use of Cover Crops and Strip Tillage for the Production of Pumpkins in Alabama. J.M. Kemble* and D. Carroll, 101 Funchess Hall, Department of Horticulture, Auburn University, AL 36849.

9:00 am Securing Pest Control Product Registrations for Uses in Vegetables via IR4. Charles W. Meister*, IR4 Field Research Coordinator, Southern Region, PO Box 110720, FETL, FSHN, IFAS, University of Florida, Gainesville, FL 32611-0720.

9:15 am Economic Effect of Plant Spacing on Yield and Quality of Tomatoes. Paul E. Cooper* and John C. Gavin, Bradley County Extension Agent. University of Arkansas Cooperative Extension Service, 100 E. First, Warren, AR 71671.

9:30 am – 9:45 am Break

9:45 am Tomato In-Row Spacing Responses and Implications. John D. Downes*, Texas Tech University, Lubbock, TX 79409, current address 1231 Miami St, Athens, TN 37303.

10:00 am Recommendations for Effective Use of a Garden Seeder for Research Plots and Gardens. Richard L. Parish, Hammond Research Station - LSU AgCenter, 21549 Old Covington Highway, Hammond, LA 70403.

10:15 am Weed Control Studies for Oklahoma Snapbean Production. Lynn Brandenberger* and Lynda Wells, Oklahoma State University, Department of Horticulture and Landscape Architecture, 360 Agriculture Hall, Stillwater, OK 74078-6027.

10:30 am Soil Fumigant and Herbicide Combinations for Pest Control in Florida Fresh Tomato. Bielinski M. Santos* and James P. Gilreath. Gulf Coast Research and Education Center, University of Florida, 5007 60th St. East, Bradenton, FL 34203.

10:45 am Adjourn for Southern Region – ASHS Business Meeting

1:30 pm Incorporation Depth of 1,3-dichloropropene Plus Chloropicrin and Herbicides on Purple Nutsedge Control in Tomato. James P. Gilreath and Bielinski M. Santos*. Gulf Coast Research and Education Center, University of Florida, 5007 60th St. East, Bradenton, FL 34203.

1:45 pm Long Term Fumigant and Herbicide Trials in Bell Pepper. James P. Gilreath, Joseph W. Noling, Timothy N. Motis, Erin Roskopf, and Bielinski M. Santos*. University of Florida and ARS-USDA, 5007 60th St. East, Bradenton, FL 34203.

2:00 pm Calabaza as a Second Crop on Color Polyethylene Mulches in Central Florida. J. Marion White*. University of Florida, MREC, 2725 Binion Road, Apopka, FL 32703-8504.

2:15 pm Tolerance of Okra (*Abelmoschus esculentus*) to Several Cotton Herbicides. R. B. Batts* and A. S. Culpepper. North Carolina State University, NC State IR-4 Field Research Center, 256 Kilgore Hall, Raleigh, NC 27695-7609.

2:30 pm Postharvest Treatments of 'Boniato' Sweetpotato with Dicloran. Mary Lamberts*, Ruben Regalado, Ken Muzyk, Jose deSousa, and Parker Oswalt. UF Miami-Dade County Extension, 18710 SW 288th St., Homestead, FL 33030-2309.

2:45 pm A Kaolin Based Particle Film Used to Affect Pepper Yield. V.M. Russo*, USDA,ARS,SCARL, POBox 159, Hwy. 3W, Lane, OK 74555.

3:00 pm – 3:15 pm Break

3:15 pm Potato Variety Development: Florida's Past and Future crop. C.M. Hutchinson.*, P.O. Box 110690, Horticultural Sciences Department, University of Florida, Gainesville, FL 32611-0690.

3:30 pm The Effects of Reduced Phosphorus on Sweet Corn Produced on Rocky, Calcareous Soils in South Florida. Teresa Olczyk*, Eric Simonne, and Yuncong Li, University of Florida IFAS, Gainesville FL 32611-0690.

3:45 pm Area of Influence of Dayflower (*Commelina communis*) Interference with Bell Pepper. J. Pablo Morales-Payan* and William M. Stall, Horticultural Sciences Department, University of Florida. PO Box 110690. Gainesville, FL, 32611-0690.

4:00 pm Arugula (*Eruca sativa*) Yield as Affected by Nutsedge Density and Time of Emergence. J. Pablo Morales-Payan* and William M. Stall, Horticultural Sciences Department, University of Florida. PO Box 110690. Gainesville, FL, 32611-0690.

4:15 pm Preliminary Evaluation of the Potential for Edamame Production in North Georgia. Terry Kelley*. University of Georgia, Department of Horticulture, Rural Development Center, PO Box 1209, Tifton, GA 31793.

4:30 pm Optimizing InLine Application for Effective Pest Management and Crop Nutrition. Carlene A. Chase*, Michael D. Dukes, Robert C. Hochmuth, Eric H. Simonne, William M. Stall, and Anthony W. Weiss. Horticultural Sciences Department, University of Florida, Gainesville, FL 32611-0690.

4:45 pm The Commercialization of an Oriental Crisp Flesh Melon "Srite" Through the NC Specialty Crops Program. Bill Jester* and Jonathan Schulthesis, Department of Horticulture Science, North Carolina State University, Raleigh, NC 27695.

5:00 pm Weed Control Trials in Transplanted Onions in Oklahoma. James W. Shrefler* and Charles L. Webber III. Oklahoma Cooperative Extension Service, P.O. Box 128, Lane, OK 74555.

5:15 pm Growth Analysis of Sweet Onion Plants Grown on Organic and Inorganic Mulches. Diaz-Perez, J.C., D. Giddings, D. Bertrand, R. Gitaitis. University of Georgia, Dept. of Horticulture, Coastal Plain Experiment Station, PO Box 748, Tifton, GA 31793-5401. (jcdiaz@tifton.uga.edu)

FRUIT CROPS SECTION

Room: Adam's Mark Diplomat Suite

Presiding: Dr. Kathryn Taylor

Fruit Crops Section Chair

Abstracts must be electronically submitted as attachment to Dr. Kathryn Taylor.
(kctaylor@uga.edu)

8:00 am Effects of Lime Sulfur, Potassium Salts, and NaCl on Vegetative Model Apple Trees as Potential Alternative Fruit Thinners. Jason McAfee and Curt R. Rom, University of Arkansas, Dept. of Horticulture, Fayetteville, AR 72701. (jmcafee@uark.edu, crom@uark.edu)

8:15 am Effect of Lime Sulfur and Osmotic Salts on Apple Pollen Germination
Vikramjit Bajwa and Curt R. Rom, University of Arkansas, Dept. of Horticulture, Fayetteville, AR 72701. (vbajwa@uark.edu, crom@uark.edu).

8:30 am Yield and Growth of 'Gala' on Size Controlling Rootstocks of the 1994 NC140 Trial.
Curt R. Rom and Jason McAfee, University of Arkansas, Dept. of Horticulture, Fayetteville, AR 72701. (crom@uark.edu, jmcafee@uark.edu).

8:45 am Effect of Dormex on High Chilling Arkansas Blackberries in South Georgia" Gerard Krewer, James Jacobs, and Ben Mullinix. Rural Development Center, University of Georgia, P.O. Box 1209, Tifton, GA 31793-1209. (gkrewer@arches.uga.edu)

9:00 am Primocane-Fruiting Blackberry Cultivar Releases from the University of Arkansas.
John R. Clark, James N. Moore, and Jose Lopez-Medina, Dept. of Horticulture, University of Arkansas, Fayetteville, AR 72701. (jrclark@uark.edu)

9:15 am 'Craven', 'Lenoir' and 'Pamlico' Southern Highbush Blueberries. James R. Ballington* and Susan D. Rooks. North Carolina State University, Dept. of Horticultural Science, Box 7609, Raleigh, NC 27695-7609. (jim_ballington@ncsu.edu)

9:30 am BREAK

9:45 am Tolerance of Papaya Transplants to Post-Emergence Herbicides. J. Pablo Morales-Payan and William M. Stall. Horticultural Sciences Department, University of Florida Gainesville, FL 32611-0690. (pmorales@mail.ifas.ufl.edu)

10:00 am Passion Fruit Transplant Production as Affected by Selected Organic Biostimulants.
J. Pablo Morales-Payan and William M. Stall. Horticultural Sciences Department, University of Florida. Gainesville, FL 32611-0690. (pmorales@mail.ifas.ufl.edu)

10:15 am Grape Borer Trials with On-Rooted American Bunch and French Hybrid Varieties.
David Lockwood, University of Tennessee, Dept. of Plant Sciences & Landscape Systems, 252 EPS, 2341 Center Drive, Knoxville, TN 37996-4561. (dlockwood@utk.edu)

11:00 am Southern Region ASHS Business Meeting and Awards Program- John R. Clark, presiding

FRUIT CROPS SECTION
Presiding: Dr. Kathryn Taylor
Fruit Crops Section Chair

1:30 pm Extension's Rapid Response To A Regional Strawberry Plant Crisis.

E. B. Poling, G. Miller and S. Navey-Davis, NC State University North Carolina State University, Dept. of Horticultural Science, Box 7609, Raleigh, NC 27695-7609. (barclay_poling@ncsu.edu)

1:45 pm Two Years of Field Trials in North Carolina with Iodomethane (Midas) as a Pre-Plant Fumigant in Strawberry Plasticulture. E. B. Poling and R. D. Schiavone, North Carolina State University, Dept. of Horticultural Science, Box 7609, Raleigh, NC 27695-7609. (barclay_poling@ncsu.edu)

2:00 pm Systems Approach to Strawberry Yield Enhancement *Robert Boozer, Jim Pitts, and Tony Dawkins, Chilton Research and Extension Center and Sand Mountain Research and Extension Center Superintendent, Auburn University/ (rboozer@acesag.auburn.edu)

2:15 pm 'Bish', a New Strawberry Adapted to Plasticulture. James R. Ballington. North Carolina State University, Dept. of Horticultural Science, Box 7609, Raleigh, NC 27695-7609. (jim_ballington@ncsu.edu)

2:30 pm Horticultural Impact Of Extending Dormant Oil Application Season For Scale Control. Kathryn Taylor, Frank Funderburk, and Dan Horton, University of Georgia, Athens, GA 30602. (kctaylor@uga.edu)

2:45 pm BREAK

3:00 pm A Novel Girdling Technique For Peach Trees. Kathryn Taylor, University of Georgia, Dept. of Horticulture. SE Fruit and Tree Nut Research Laboratory, 21 Dunbar Rd. Byron, GA 31008. (kctaylor@uga.edu)

3:15 pm Guardian Performance In Replant Sites With And Without Fumigation. Mike Parker, and Dave Ritchie. North Carolina State University, Dept. of Horticultural Science, Box 7609, Raleigh, NC 27695-7609. (mike_parker@ncsu.edu)

3:30 pm Smart Fresh (MCP): A Postharvest Management Tool For Apples. Mike Parker, and Sylvia Blankenship. North Carolina State University, Dept. of Horticultural Science, Box 7609, Raleigh, NC 27695-7609. (mike_parker@ncsu.edu)

3:45 pm 'Weed Management in Tree and Small Fruits in Tennessee Production Systems'. Darren K. Robinson and David Lockwood. Plant Sciences, The University of Tennessee, Knoxville, TN 37901.

FLORICULTURE, ORNAMENTALS AND TURF SECTION

Room: Adam's Mark Studio Room 301

Presiding: Dr. Richard Durham

Floriculture, Ornamentals and Turf Section Chair

Abstracts must be electronically submitted as attachment to Dr. Richard Durham (rdurham@uky.edu)

FLORICULTURE, ORNAMENTALS AND TURF SECTION

8:00 am ***Freesia* Response to Flurprimidol Corm Soaks.** Todd J. Cavins and Paul I. Erickson, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, OK 74078-6027. (cavinst@okstate.edu)

8:15 am **Greenhouse Production Applications of Paclobutrazol and Ancymidol Induced Residual Effects on Landscape Growth of Pansies.** Garry V. McDonald* and Michael A. Arnold, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133. (ma-arnold@tamu.edu)

8:30 am **A Comparison Of Factorial And Mixture Experimental Designs Applied To Container Crop Production.** Geoffrey C. Denny*, Michael A. Arnold, Louis A. Valdez Aguilar, and David Wm. Reed, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133. (ma-arnold@tamu.edu)

8:45 am **Use Of Recycled Nursery Runoff From Mixed Stand Wetlands Influences Container Production of Four Tree Species.** Michael A. Arnold*, Mitchell W. Goyne, Don C. Wilkerson, Michelle S. Meche, and Garry V. McDonald, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133. (ma-arnold@tamu.edu)

9:00 am **The Influence of Ground Rubber, Compost, and Fresh Rice Hulls on Soil Compaction.** Heather Quinney* and David L. Hensley, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (hquinne@uark.edu)

9:15 – 9:45 am **Break**

9:45 am **Affect of Transplanting and Mulch on Gas Exchange and Growth of Field-grown Red Oak (*Quercus shumardii* Buckl.) trees.** Lindsey Fox and Thayne Montague*, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX 79409-2122. (THAYNE.MONTAGUE@ttu.edu)

9:30 am **Comparison of Physical Properties of Perlite and Parboiled Fresh Rice Hull-Containing Substrates.** Michael R. Evans* and Maryanne Gachukia, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (mrevans@uark.edu)

9:45 am **Comparison of Chemical Properties Over Time for Perlite and Parboiled Fresh Rice Hull-Containing Substrates.** Maryanne Gachukia* and Michael R. Evans, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701 (mrevans@uark.edu)

10:00 am **Suppression of Soil-Borne Diseases Caused by *Pythium* and *Phytophthora* Species in Coconut Coir-based Substrates.** Byron Candole* and Michael R. Evans, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (mrevans@uark.edu)

10:15 am **The Effect of a Garlic Extract on Soil-Borne Fungal Pathogens of Greenhouse Crops.** Ramsey Sealy* and Michael R. Evans, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (mrevans@uark.edu)

10:45 am **Adjourn for Southern Region Business Meeting**

1:30 pm **Sudden Oak Death: Implications for Oklahoma's Ornamentals Industry.** Michael A. Schnelle*, Brian Olson, and Sharon L. von Broembsen, Department of Horticulture and Landscape Architecture, Oklahoma State University, Stillwater, Oklahoma 74078. (mas@okstate.edu)

1:45 pm **Distinguishing among Several Bud-rotting Diseases/disorders of Palms in Field Nurseries and Landscapes.** Joseph F. Garofalo, University of Florida/Miami-Dade County Cooperative Extension Service, Homestead, FL 33030-2309. (jgarofalo@mail.ifas.ufl.edu)

2:00 pm **Influence of Potassium Fertilization on Yield and Subsequent Rooting of Stem Cuttings from Stock Plants of Vegetative Strawflower.** James L. Gibson*, Brian E. Whipker, Paul V. Nelson, John M. Dole, Brenda Cleveland, and Bobby Walls, West Florida Research and Education Center, Institute of Food and Agricultural Sciences, Milton Campus, 5988 Highway 90, Building 4900, Milton, FL 32583. (jlgibson@mail.ifas.ufl.edu)

2:15 pm **Development of a micropropagation protocol for *Astilbe*.** B.E. Trader, R. E. Veilleux, and H., L. Scoggins. Department of Horticulture, Virginia Polytechnic Institute and State University, Blacksburg, VA 24060. (btrader@vt.edu)

2:30 pm **Promising Magnoliaceae in the SFA Mast Arboretum.** David L. Creech. Stephen F. Austin State University, Nacogdoches, TX 75962. (dcreech@sfasu.edu)

2:45 pm **The use of Tropical Flowering and Foliage Plants as Ground Covers in the Landscape.** Richard Durham, Department of Horticulture, University of Kentucky, Lexington, KY 40546-0091. (rdurham@uky.edu)

3:00 pm **Height Control of Herbaceous Perennials Grown Under Night-Interrupted Lighting and Nursery Conditions in the Southern U.S.** J. Raymond Kessler, Jr. Department of Horticulture, Auburn University, AL 36849. (rkessler@acesag.auburn.edu)

POSTHARVEST/BIOTECHNOLOGY/PLANT BIOLOGY SECTION

Room: Adam's Mark Directors Row 4

Presiding: Dr. David Picha

Postharvest/Biotechnology/Plant Biology Chair

Abstracts must be electronically submitted as attachment to Dr. David Picha
(dpicha@agctr.lsu.edu)

8:00 am **Postharvest Care and Market Analyses of Sweetpotatoes Exported to the U.K.** D. H. Picha and R.A. Hinson, LSU AgCenter, Baton Rouge, LA. 70803.

8:30 am **Antioxidant Variation Among Numerous Raspberry Cultivars.** P. Perkins-Veazie, USDA-ARS, SCARL, Lane, OK; 74555, P. Moore, Washington State University, Puyallup, WA; C. Weber, Cornell University, Geneva, NY.

9:00 am **Changes in Quality and Carotenoids of Stored Watermelons.** J.K. Collins and P. Perkins-Veazie, USDA-ARS, SCARL, Lane, OK. 74555

**Guidelines for Electronic Submission of Abstracts for the
Southern Region - American Society for Horticultural Science
2004 Conference in Tulsa, Oklahoma**

The abstracts for the papers presented at the Southern Region - American Society for Horticultural Society annual conference in Tulsa, Oklahoma, February 14-16,

2004 will be submitted electronically to the appropriate Section Chair. For the preconference groups that wish to submit abstracts, their abstracts will be submitted to their chair or coordinator.

The abstract should include title, author(s) (presenting author indicated with an asterisk), affiliation(s), and abstract: do not allow the length to exceed approximately 250-275 words. Please use WordPerfect or Word as the software to submit.

The abstracts must be to Chairs or Coordinators by February 20, 2004. The Chairs will contact authors of missing abstracts to confirm if they will be submitting an abstract. The abstracts will be submitted by e-mail as an attached word processing file.

The Southern Region - ASHS must pay for the publication of abstracts, therefore at least one author must be a Southern Region - ASHS member who has paid the conference registration fee.

Section Chairs and Coordinators will send the abstracts, along with a copy of the program, to Kathy Lewis at ASHS Headquarters by March 15, 2004.

Send a copy of the program and indicate the papers with abstracts received to Paul L. Smeal, SR-ASHS Secretary-Treasurer, Psmeal@vt.edu.