

SOUTHERN REGION

AMERICAN SOCIETY

FOR

HORTICULTURAL SCIENCE

63rd ANNUAL MEETING

Mobile, Alabama

**Adam's Mark Hotel
& Convention Center
1-3 February 2003**

**AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE
SOUTHERN REGION**

OFFICERS

Dr. Regina P. Bracy, President
LSU AgCenter
Hammond Research Station
21549 Old Covington Highway
Hammond, Louisiana 70403-0533

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

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

CHAIRPERSON

Ed Bush, Louisiana
Bob Westerfield, Georgia
Gary Wade, Georgia
David Lockwood, Tennessee
Rick Snyder, Mississippi
Nihal Rajapakse, South Carolina
Lynn Bradenberger, Oklahoma
Richard Harkess, Mississippi
John Clark, Arkansas

COMMITTEES

Executive
Nominations
Membership

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Dewayne Ingram, Kentucky
Paul Smeal, Virginia

AWARD SELECTION COMMITTEES

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L. M. Ware Dist. Research
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Excellence in Doctoral
 Research & Writing
Leadership & Administration
Extension Publication Awards
Outstanding Club Award

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Richard Snyder, Mississippi

David Coffey, Tennessee

Tom Crocker, Georgia
Warren Roberts, Oklahoma
Richard Harkess, Mississippi

SPECIAL EVENTS AND SESSIONS

ADAM'S MARK HOTEL AND MOBILE CONVENTION CENTER

MOBILE, ALABAMA

SATURDAY, FEBRUARY 1, 2003

- 8:00 am - 6:00 pm Registration - Paul Smeal
Adam's Mark Hotel - Lobby
- 8:00 am - 5:00 pm National Sweet Potato Collaborators
Presiding: Wayne McLaurin
Room: Adam's Mark Mobile Ballroom III
- 8:00 am - 5:00 pm Pecan Research and Extension Forum
Presiding: Monte Nesbitt
Room: Adam's Mark Blakeley Ballroom I
- 8:00 am - 5:00 pm Southern Blueberry/Small Fruit Workers
Presiding: Manjula Carter
Room: Adam's Mark Blakeley Ballroom II
- 8:30 am - 12: noon ACB Program, Trade Show Passes to Gulf States Horticultural Expo for students.
- 12:00 noon ACB Lunch on Your Own
- 1:00 pm - 4:00 pm ACB Activities - Industry tour
- 1:00 pm - 5:00 pm Horticulture Administrators
Presiding: Charles Gilliam
Room: Adam's Mark Jubilee Suite
- 1:00 pm - 5:00 pm Master Gardener & Consumer Horticulture
Chairperson: Janet Carson
Room: Adam's Mark Bay Point Suite
- 4:00 pm - 6:30 pm ACB Program - Share Club Activities and Reception
Presiding: Hallie Dodson, ACB President
Room: Adam's Mark Alabama Ballroom I
Dinner on Your Own
- 8:30 pm - ? Student Entertainment on Your Own or Informal Gathering , TBA
- 5:00 pm - 6:00 pm Southern Region - ASHS Executive Meeting

SUNDAY, FEBRUARY 2, 2003

- 7:00 am - 6:00 pm Registration - Paul Smeal
Mobile Convention Center, Upper Concourse
- 8:00 am - 5:00 pm National Sweet Potato Collaborators
Presiding: Wayne McLaurin
Room: Adam's Mark Mobile Ballroom III
- 8:00 am - noon Vigna Crop Germplasm Committee
Presiding: Richard Fery
Room: CC Meeting Room 201A
- 8:00 am -12 noon Extension Section
Presiding: Bob Westerfield
Room: CC Meeting Room 201D
- 8:00 pm - 5:00 pm Watermelon Research Group
Presiding: Benny D. Bruton
Room: CC Meeting Room 201C
- 8:00 am - 10:00 am J. B. Edmond Undergraduate Student Paper Competition
Presiding: Hallie Dodson, ACB President and Regina Bracy, SR-ASHS President
Room: CC Meeting Room 201B
- 10:00 pm - noon Warren S. Barham Graduate PhD Student Paper Competition
Presiding: John Clark
Room: CC Meeting Room 201B
- 1:00 pm - 5:00 pm Norman F. Childers Graduate MS Student Paper Competition
Presiding: John Clark
Room: CC Meeting Room 201B
- 1:00 pm - 5:00 pm National Cowpea Improvement Association
Presiding: Jeff Ehlers
Room: CC Meeting Room 201A
- 1:00 pm - 5:00 am Education Section
Presiding: Ed Bush
Room: CC Meeting Room 201D
- 7:00 am - noon J. Benton Storey Student Judging Contest Setup
Room: CC Prefunction Area
- 1:00 pm - 3:00 pm J. Benton Storey Undergraduate Student Horticulture Community Evaluation Contest
Presiding: ACB Officers
Room: CC Prefunction Area
- 9:00 am - noon Set up Posters Presiding: Rick Snyder
3:00 pm - 5:00 pm Poster Session - Authors at Posters
Room: CC Prefunction Area

PROGRAM

SUNDAY, FEBRUARY 2, 2003

J. B. EDMOND UNDERGRADUATE STUDENT PAPER COMPETITION

Room: CC Meeting Room 201B

Presiding: Ms. Hallie Dodson, Southern Region - ASHS ACB President and Dr. Regina Bracy, Southern Region - ASHS President

Abstracts must be electronically submitted as attachment to Dr. Richard Harkess.
harkessr@ra.msstate.edu

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

- 1. Postemergence Weed Control in Ground Covers.** Adam Newby*, Charles Gilliam, Carey Simpson, and Glenn Wehtje Department of Horticulture, Auburn University, 101 Funchess Hall, Auburn University, AL 36849. (cgilliam@aces.edu)
- 2. Container Media Composition Affects on Fire Ant Colonization.** Paul Mumma*, Linda Hooper-Bui, and Ed Bush LSU AgCenter, Dept. of Horticulture, Baton Rouge, LA 70803. (ebush@agctr.lsu.edu)
- 3. Impact of Increasing Nitrogen Fertilizer on *Lantana camara* and on Feeding Preferences of Two Native Lepidoptera Species, *Agraulis vanillae* and *Danaus plexippus*.** Suzanne Knight Earnest*, Joe Eakes, Laura Bruner, and Celia Stuart-Whitman Department of Horticulture, Auburn University, 101 Funchess Hall, Auburn University, AL 36849. (knighes@auburn.edu)
- 4. The Effect of Potential Organic Apple Fruit Thinning Agents on Photosynthesis and Growth of Model Apple Trees.** J. McAfee* and C. R. Rom Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (jmcafee@mail.uark.edu, crom@uark.edu)
- 5. Outdoor Education in Thematic Gardens.** Debbie White* , Peter Gallagher, and Roxie Jordan. Louisiana Tech University, P. O. Box 10198, Ruston, LA 71272-0045 (whites501@yahoo.com, Pgall@ans.latech.edu)
- 6. Influence of Genotype and Environment on Anthocyanin Accumulation in Purple/Red Flesh Potatoes.** Mark E. Tietz* David G. Holm, Ronald E. Voss, Douglas C. Scheuring, Luis Cisneros-Zevallos, and J. Creighton Miller, Jr. Department of Horticultural Sciences, Texas A&M University, College Station, Texas, 77843-2133. (zerotoinfinity@msn.com)

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

Room: CC Meeting Room 201B

Presiding: Dr. John Clark, Southern Region - ASHS

Abstracts must be electronically submitted as attachment to Dr. John Clark.

jrclark@mail.uark.edu

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

1. Comparative Molecular Analysis of *FLORICAULA/LEAFY* Homologues in *Buddleja davidii* and *B. lindleyana*. Jeffrey A. Adkins* and Dennis J. Werner Dept. of Horticultural Science, Campus Box 7609, North Carolina State Univ., Raleigh NC 27695-7609. (jaadkins@unity.ncsu.edu)

2. Sweetpotatoes, Under Cover! Danielle Treadwell* and Nancy Creamer Dept. of Horticultural Science, Campus Box 7609, North Carolina State Univ., Raleigh NC 27695-7609. (Danielle_Treadwell@ncsu.edu)

3. Fluctuation of Parthenolide in Feverfew as Influenced by Water and Light and its Connection with Abscisic Acid Synthesis. Jorge M. Fonseca*, James W. Rushing, and Nihal C. Rajapakse, Dept. of Horticulture; Ronald L. Thomas, Dept. of Packaging Sciences; and Melissa B. Riley, Dept. of Plant Pathology and Physiology, Clemson Univ., Clemson SC 29634-0375. (jfonsec@CLEMSON.EDU)

4. Butterfly Feeding Preferences Among Lantana Cultivars in the Landscape. L.L. Bruner*, J.W. Baier, D.J. Eakes, G.J. Keever, P.R. Knight, and J.E. Altland, Auburn Univ., 101 Funchess Hall, Auburn Univ., AL 36849. (brunell@mail.auburn.edu)

5. Specific Inhibition of Selected Plant Pathogens by Individual Isothiocyanates and Potential Synergistic Effects. Stephanie G. Harvey* and Carl E. Sams, Dept. of Plant Sciences and Landscape Systems, The Univ. of Tennessee, Knoxville, Tennessee 37996. (sharvey@canes.gsw.edu)

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

Room: CC Meeting Room 201B

Presiding: Dr. John Clark, Southern Region - ASHS

Abstracts must be electronically submitted as attachment to Dr. John Clark.

jrclark@mail.uark.edu

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

1. Fruit Quality Characteristics of Satsuma Mandarins that Affect Consumer Preferences. Ben Campbell*, Robert Nelson, Robert Ebel, John Adrian, William Dozier, and Brandon Hockema, Dept. of Agricultural Economics and Rural Sociology, 202 Comer Hall, Auburn Univ., AL 36849. (campbbl@auburn.edu)

2. Foliar Symptomology and Tissue Concentrations of Nutrient Deficient *Calibrachoa* Plants. Amy L. Williams*, James L. Gibson, Brian E. Whipker, Paul V. Nelson, and John M. Dole, Dept. of Horticultural Science, North Carolina State Univ., Box 7609 Kilgore Hall, Raleigh, NC 27695-7609. (amywilliams21804@yahoo.com)

- 3. Paclobutrazol Seed Treatments for Early Height Control of Tomato Seedlings.** Juan Pablo Brigard,* Richard L. Harkess, and Paul Meints, Dept. of Plant and Soil Sciences, Mississippi State Univ. , 117 Dorman, Box 9555, Mississippi State, MS 39762. (harkessr@ra.msstate.edu)
- 4. Nutrition and PGR Rates for High Quality Growth of Spiderwort (*Tradescantia virginiana*).** Sarah White* and Joyce Latimer, Dept. of Horticulture, Virginia Tech Univ., 404 Saunders Hall, Blacksburg, VA 24061-0327. (sawwhite1@vt.edu)
- 5. Elevated Selenium Concentrations Increase Sulfur Uptake and Regulate Glucosinolate Metabolism in *Brassica oleracea*.** Heather D. Toler* and Carl E. Sams, Dept. of Plant Sciences and Landscape Systems, The Univ. of Tennessee, 369 Ellington Plant Science Bldg., 2431 Center Drive, Knoxville, TN 37996. (htoler@utk.edu)
- 6. Ethanol Extracts of *Silybum marianum* Seedlings Inhibit Teratoma Formation: A Possible Substitute for Seeds?** J. Lena Horst Warren* and Carl E. Sams, Dept. of Plant Sciences and Landscape Systems, The Univ. of Tennessee, 369 Ellington Plant Science Building, Knoxville TN 37996. (jwarren@utk.edu)
- 7. Optimizing in vitro Plantlet Regeneration From ‘Chandler’ Strawberry Leaves.** Kristi Whitley* and Charles E Johnson, LSU AgCenter, Dept. of Horticulture, Baton Rouge, LA 70803. (cejohnson@agctr.lsu.edu)
- 8. Improving Cutting Propagation of *Ludisia discolor*.** Adrienne M. Jackson*, Richard L. Harkess, and Brian S. Baldwin, Dept. of Plant and Soil Sciences, Mississippi State Univ., 117 Dorman, Box 9555, Mississippi State, MS 39762. (harkessr@ra.msstate.edu)
- 9. Flowering control and production of *Strobilanthes dyerianus* (Persian Shield).** Erin E. Gamrod* and Holly L. Scoggins, Dept. of Horticulture, Virginia Tech Univ., 301C Saunders, Blacksburg, VA 24061-0327. (egamrod@vt.edu)
- 10. Challenges in greenhouse production of *Rosemarinus officianalis* (Rosemary).** Paul M. Westervelt* and Holly L. Scoggins, Dept. of Horticulture, Virginia Tech Univ., 301C Saunders, Blacksburg, VA 24061-0327. (pw@vt.edu)
- 11. Growing By Doing: A Learning Landscape.** Michael Martin*, Erin R. Strickland, M. Elizabeth Tolley, and Halicine J. Van Brink, 223 McAdams Hall, Clemson Univ., Clemson, SC 29634. (MTM@Clemson.edu)
- 12. Nutrient Usage and Accumulation Patterns in Hydroponically Grown ‘Granex 33’ Onion as Influenced by Sulfur and Nitrogen Nutrition.** Timothy W. Coolong* and William M. Randle, Dept. of Horticulture, Univ. of Georgia, Athens, GA 30602. (tcoolong@arches.uga.edu)
- 13. The Genetics and Biochemistry of Flower Color in Stokes Aster (*Stokesia laevis*).** Jessica Gaus* and Dennis Werner, Dept. of Horticultural Science, North Carolina State Univ., Box 7609, Raleigh, NC 27695. (jlgaus@unity.ncsu.edu)

14. Oxalis Control for Landscape Crops. Carey Simpson*, Charles Gilliam, Glenn Wehtje, and Jeff Sibley, Auburn Univ., Auburn Univ., AL 36849 and James Altland, Oregon State Univ., Corvallis, OR. (cgilliam@aces.edu)

15. Bud Maturity and Influence of Preservatives on Longevity of Cut *Hippeastrum x Hybridum* ‘Apple Blossom’. John Kihia* and G.L.Klingaman, Dept. of Horticulture, Univ. of Arkansas, 316 Plant Science, Fayetteville, Arkansas 72701. (jkihia@uark.edu)

16. BA Applications on Woody Ornamental Crops. Jayme M. Oates* and Gary Keever, Dept. of Horticulture, Auburn Univ., 101 Funchess Hall, Auburn Univ., AL 36849. (oatesjm@auburn.edu)

17. Pruning Effects on Cold Hardiness of *Buddleia davidii*. ‘Royal Red’. Jennifer Warr*, Gary Keever, Doug Findley, and Raymond Kessler, Dept. of Horticulture, Auburn Univ., 101 Funchess Hall, Auburn Univ., AL 36849. (warrjen@auburn.edu)

18. Development of Glufosinate Tolerant Spinach. Luis Mass*, Vibha Srivastava, and T.E. Morelock, Dept. of Horticulture, Univ. of Arkansas, 316 Plant Science, Fayetteville, AR 72701. (lmaas@uark.edu)

EXTENSION SECTION

Room: CC Meeting Room 201D

Presiding: Dr. Robert R. Westerfield

Abstracts must be electronically submitted as attachment to Dr. Robert Westerfield.

bwesterf@arches.uga.edu

8:00 am Welcome and Introduction

8:15 am Extending Teaching and Demonstration Activities to a Greater Audience with Portable Computer Media. James Shrefler, Oklahoma Cooperative Extension Service, Lane, OK 74555. (jshrefler-okstate@lane-ag.org)

8:35 am Extension Programming in Ornamental Horticulture - A Regional Approach. Bodie V. Pennisi, Rick Schoellhorn, Raymond Kessler. Univ. of Georgia CAES - Griffin Campus, Griffin, GA 30223-1797. (bpennisi@uga.edu)

8:55 am Working Effectively with Spanish-speaking Agriculture Workers. Marco T. Fonseca, Univ. of Georgia CAES - Griffin Campus, Griffin, GA 30223-1797. (mfonseca@uga.edu)

9:15 am Fresh Produce Food Safety Training Program for the Southeastern United States. Dennis J. Osborne, Douglas C. Sanders, Donn R. Ward, James R. Rushing, and William C. Hurst. North Carolina State Univ., Raleigh, NC 27695-7609. (dennis_osborne@ncsu.edu)

9:35 am Extension Efforts in Florida in the BMP Era: Needs, Challenges, Opportunities, and some Accomplishments with Vegetables. Eric Simonne, David Studstill, John Duval, Bob Hochmuth, Gene McAvoy, Steve Olsen, Teresa Olczyk. University of Florida, Gainesville, FL 32611-0690. (esimonne@mai.ifas.ufl.edu)

9:55 am Program Efforts in the University of Georgia Center for Urban Agriculture. Robert R. Westerfield, Univ. of Georgia CAES–Griffin Campus, Griffin, GA 30223-1797. (bwesterf@uga.edu)

10:15 am Development of an Interactive Kiosk Promoting Extension Consumer Horticulture Programs. Lelia Scott Kelly and Danny Gardner, Mississippi State University Ext. Service, North Mississippi Research & Extension Center, PO Box 1690, Verona, MS 38879. (leliak@ext.msstate.edu)

10:35 am Questions and Discussion

10:45 am Adjourn

EDUCATION SECTION

Room: CC Meeting Room 201D

Presiding: Dr. Ed Bush

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

1:00 pm The Integration of a Formal School Garden Curriculum into Louisiana Public Schools. Leanna Smith and Carl Motsenbocker, LSU AgCenter, Dept. of Horticulture, Baton Rouge LA. 70803. (leanna_lynn13@hotmail.com)

1:30 pm Horticulture Study Tours: Seeing is Believing and Learning. Curt R. Rom, Department of Horticulture, University of Arkansas, Fayetteville, AR 72701. (crom@uark.edu)

2:00 pm Louisiana House: Home and Landscape Resource Center. Allen Owings and Claudette Reichel, LSU AgCenter, P. O. Box 25100, Baton Rouge, LA 70894. (aowings@agctr.lsu.edu)

2:30 pm Use of Animated GIFS for Teaching Horticulture Techniques. David Wm. Reed, Texas A&M University, College Station, TX, 77843. (dwreed@tamu.edu)

3:00 pm Break

3:30 pm Get It Growing: An Educational Tool for the Public Media. Dan Gill LSU AgCenter, P. O. Box 25100, Baton Rouge, LA 70894. (dgill@agctr.lsu.edu)

4:00 pm Thinking Outside the Semester: An Unconventional Approach to Herbaceous Plant I.D. Holly L. Scoggins, Virginia Tech Department of Horticulture, 301 C. Saunders, Blacksburg, VA 24061-0327. (hollysco@pop.vt.edu)

4:30 pm Service-Learning: Connecting the Classroom and the Community Ed Bush and Jan Shoemaker, LSU AgCenter, Dept. of Horticulture, Baton Rouge LA. 70803. (ebush@agctr.lsu.edu)

4:45 pm The Use of College Service-Learning Students to Teach a Formal Garden-Based Science Curriculum in Public Elementary Schools. Carl Motsenbocker and Leanna Smith, LSU AgCenter, Dept. of Horticulture, Baton Rouge LA. 70803. (cmots@lsu.edu)

POSTERS

Room: CC Prefunction Area

Presiding: Dr. Rick Snyder

Authors Set up Posters: 9:00 am to noon

Authors at Posters: 3:00 pm to 5:00 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. Rick Snyder.

RickS@ra.msstate.edu

Note: ** preceding title indicates an entry in the graduate student poster competition

*** preceding title indicates an entry in the undergraduate student poster competition**

Ornamentals

1. Incorporated Granular Sulfur Influences Growth of Two Tree Species. John M. Ruter¹ and Keith D. Mickler² ¹ Univ. of Georgia, Dept. of Horticulture, Tifton, GA 31793-0748. ²Univ. of Georgia Cooperative Extension Service, Cairo, GA 39828-1693. (mickelr@uga.edu)

2. Sunflowers: Cultural Practices for Vegetable Growers. Christine Coker¹, James Altland², Mike Ely¹, and Thomas Freeman¹. ¹Coastal Research and Extension Center, Mississippi State Univ., 2710 Beach Blvd. Ste. 1-E, Biloxi, MS 39531. ²Oregon State Univ. (cec117@ra.msstate.edu)

3. Characteristics and Performance of Plastic, Paper, and Processed Feather Growing Containers. Michael R. Evans Dept. of Horticulture, 316 Plant Science Building, Univ. of Arkansas, Fayetteville, AR 72701. (mrevans@uark.edu)

4. Comparison of Plant Growth in Plastic, Paper, and Processed Feather Growing Containers. Michael R. Evans Dept. of Horticulture, 315 Plant Sciences Building, Univ. of Arkansas, Fayetteville, 72701. mrevans@uark.edu

5. Suppression of *Pythium* and *Phytophthora* Species by Dried Waste Pepper Pulp. Byron Candole, Michael R. Evans and Teddy Morelock, Dept. of Horticulture, 316 Plant Science, Univ. of Arkansas, Fayetteville, AR 72701. (mrevans@uark.edu)

6. Substrate and Plant Tissue Nitrogen Concentrations of Peat-based Substrates Amended with Perlite and Fresh Rice Hulls. Mary Gachukia and Michael R. Evans Dept. of Horticulture, 315 Plant Sciences Building, Univ. of Arkansas, Fayetteville, AR 72701. (mrevans@uark.edu)

7. Efficacy of Steam Pasteurization for the Elimination of Weed Seed in Traditional and Organically Grown Rice Hulls. Mary Gachukia and Michael R. Evans, Dept. of Horticulture, 315 Plant Science, Univ. of Arkansas, Fayetteville, AR 72701. (mrevans@uark.edu)

8. Use of Processed Poultry Feather Fiber as an Alternative to Sphagnum Peat in Greenhouse Crops Growing Media. Michael R. Evans and Leisha Vance, Dept. of Horticulture, Univ. of Arkansas, Fayetteville, AR 72701. (mrevans@uark.edu)

9. Container Production of *Prunus laurocerasus*. Donna C. Fare, USDA-ARS, US National Arboretum, 472 Cadillac Lane, McMinnville, TN 37110. (dfare@blomand.net)

10. Foliar Symptomology and Tissue Concentrations of Nutrient Deficient *Bracteantha* Plants. James Gibson, Amy Williams, Brian E. Whipker, Paul V. Nelson, John M. Dole, Branda R. and F.R. Walls, Dept. of Horticultural Science, North Carolina State Univ., Raleigh, NC 27695-7609. (jlgibson@unity.ncsu.edu)

11. **Foliar Symptomology and Tissue Concentrations of Nutrient Deficient *Calibrachoa* Plants. Amy L. Williams*, James L. Gibson, Brian E. Whipker, Paul V. Nelson, and John M. Dole North Carolina State Univ., Box 7609 Kilgore Hall, Raleigh, NC 27695-7609. (amywilliams21804@yahoo.com)

12. Enhancing Herbaceous Perennial Germination. Gary R. Bachman and W. Edgar Davis Tennessee Tech Univ., Cookeville, TN Dept. of Agriculture, Illinois State Univ., Campus Box 5020, Normal, IL 61790-5020. (grbachm@ilstu.edu)

13. *Buddleja nivea* Hybrids. Jon T. Lindstrom, Gregory T. Bujarski, Scott E. Renfro, and Brent M. Burkett Dept. of Horticulture, Univ. of Arkansas, 316 Plant Science, Fayetteville, AR 72701. (tranell@uark.edu)

14. Growing By Doing: A Learning Landscape. Michael T. Martin, Jr., Erin R. Strickland, M. Elizabeth Tolley, and Halicine J. Van Brink, 223 McAdams Hall, Clemson Univ., Clemson, SC 29634.(MTM@Clemson.edu)

15. **Determining Irrigation Requirements for Establishment of Four Woody Shrub Species. Brian Winn, Thayne Montague, and Cynthia McKenney, Dept. of Plant and Soil Science, Texas Tech Univ., Lubbock, TX 79409-2122. (HREF="mailto:THAYNE.MONTAGUE@ttu.edu")

16. Versatility of Pawpaw in the Landscape. Robert Maribello, Charles E Johnson, and Allen Owings . LSU AgCenter, Dept. of Horticulture, Baton Rouge, LA 70803. (cejohnson@agctr.lsu.edu)

17. **In vitro Propagation of ‘Natchez’ Crape Myrtle. Kristi Whitley, Neil Parami, and Charles E. Johnson, LSU AgCenter, Dept. of Horticulture, Baton Rouge, LA 70803 (HREF="mailto:cejohnson@agctr.lsu.edu")

18. *Characterization of Flower Types Found in a Selected Population of Plains Coreopsis.Jessica LaBorde, C. E.Johnson, and K.L. Whitley LSU AgCenter, Dept. of Horticulture, Baton Rouge, LA 70803. Dearl Sanders, Idlewild Research Station, Clinton, LA 70722. HREF="mailto:cejohnson@agctr.lsu.edu")

19. **Foliar Symptomology and Tissue Concentrations of Nutrient Deficient *Calibrachoa* Plants. Amy L. Williams*, James L. Gibson, Brian E. Whipker, Paul V. Nelson, and John M. Dole, North Carolina State Univ., Box 7609 Kilgore Hall, Raleigh, NC 27695-7609(HREF="mailto:amywilliams21804@yahoo.com")

20. Response of *Gladiolus grandiflorus* cvs. Rose Supreme and White Prosperity to NPK Fertilization and Growth Regulator Treatments. Part I: Growth and Flowering Aspects. Ahmed A. Al-Badawy , M.K. Aly, E. T. Ahmed, N. M. Abdalla, and M. A. Abd Al-Azeem United Arab Emirates Univ., Dept. of Arid Land Agriculture, College of Food Systems, P.O.Box 17555. Al-Ain, United Arab Emirates and Dept. of Horticulture, Faculty of Agriculture, Minia Univ., Minia, Egypt(HREF="mailto:a.albadawy@uaeu.ac.ae")

21. Response of *Gladiolus grandiflorus* cvs. Rose Supreme and White Prosperity to NPK Fertilization and Growth Regulator Treatments. Part II: Chemical Composition. Ahmed A. Al-Badawy , M.K. Aly, E. T. Ahmed, N. M. Abdalla and M. A. Abd Al-Azeem, United Arab Emirates Univ., Dept. of Arid Land Agriculture, College of Food Systems, P.O. Box 17555, Al-Ain, United Arab Emirates and Dept. of Horticulture, Faculty of Agriculture, Minia Univ., Minia, Egypt (albadawy@uaeu.ac.ae)

22. Substrate and Fertilizer Effects on the Growth and Quality of ‘Candy’ Anthurium. Ruthvin Harper(1), J. Pablo Morales-Payan(1,2), and J. Richard Ortiz(1).(1)Universidad Nacional Pedro Henríquez Ureña, Dominican Republic (2)Horticultural Sciences Dept., Univ. of Florida, Gainesville, FL. (pmorales@mail.ifas.ufl.edu)

23. Wild Chrysanthemum (*Artemisia vulgaris* L.) Management in Fallow Land Prior to Ornamental Plant Production. Darren Robinson, Donna Fare, and Mark Halcomb. The Univ. of Tennessee, Plant Sciences and Landscape Systems, 252 Ellington Plant Science, 2431 Center Drive, Knoxville, TN 37906-4561. (drobins5@utk.edu)

24. The Effect of Fertilizer Placement on Weed Growth in Container Production. G. B. Fain¹, C.H. Gilliam², P.R. Knight¹, and J.W. Olive². ¹Mississippi State Univ., Truck Crops Branch Experiment Station, Crystal Springs, MS 39059 ²Auburn Univ. (gfain@ra.msstate.edu)

25. Time of Pruning Effects on Cold Hardiness of *Buddleia davidii* ;Royal Red’. Jennifer Warr, Gary Kever, Doug Findley and Raymond Kessler. Horticulture Dept., 101 Funchess Hall, Auburn Univ., Auburn Univ., AL 36849. (warrjen@auburn.edu).

Vegetables

26. Interaction of Soil Texture, Light Intensity, and Cultivar on Leaf Nutrients in Mustard Greens. D. J. Makus, USDA, ARS, 2413 E. US Hwy 83, Weslaco, TX 78596. (dmakus@WESLACO.ARS.USDA.GOV)

27. Evaluation of a Dibble-type Mulch Seeder. R. L. Parish and R. P. Bracy, Hammond Research Station, LSU AgCenter, 21549 Old Covington Highway, Hammond, LA 70403.(dparish@agctr.lsu.edu)

- 28. Short-Day Onion Variety Trials, 2000-2002.** George Boyhan, Bill Randle, Al Purvis, Anna Resurreccion, Reid Torrance, David Curry, Greg Hardison, Jeff Cook, Randy Hill, Thad Paulk, and Myron Graham. East Georgia Extension Center, PO Box 8112, GSU, Statesboro, GA 30460. (gboyhan@uga.edu)
- 29. Fertility Evaluation for Short-Day Onions in Southeast Georgia.** George Boyhan and Randy Hill. East Georgia Extension Center, PO Box 8112, GSU, Statesboro, GA 30460. (gboyhan@uga.edu)
- 30. Breeding Bacterial Blight Resistant Cream Southernpea Lines.** B. Buckley and J. C. Waters. LSU AgCenter, Calhoun Research Station, P.O. Box 539, Calhoun, LA 71225. (bbuckley@agctr.lsu.edu)
- 31. The Effects of Boron and Nitrogen Rates on Kernel Quality.** Tabatha M. Herron and Michael W. Smith, Dept. of Horticulture and Landscape Architecture, 360 Ag Hall, Oklahoma State Univ., Stillwater, OK 74078. (herront@yahoo.com)
- 32. Production and Postharvest Characteristics of Spaghetti Squash in South Florida.** Audrey H. Beany, Peter J. Stoffella, and Greg McCollum, Univ. of Florida, IFAS, Indian River Research and Education Center, 2199 South Rock Road, Fort Pierce, FL 34945. (ahbeany@mail.ifas.ufl.edu)
- 33. Watermelon Stand Establishment and Disease Control.** Warren Roberts, Benny Bruton, Jonathan Edelson, and Jim Shrefler. Oklahoma State Univ. & USDA, Lane Agricultural Center, Box 128, Lane, Oklahoma, 74555 (wroberts@lane-ag.org)
- 34. **Nutrient Usage and Accumulation Patterns in Hydroponically Grown ‘Granex 33’ Onion as Influenced by Sulfur and Nitrogen Nutrition.** Timothy W. Coolong and William M. Randle. Dept. of Horticulture, Univ. of Georgia, Athens, GA 30602. (tcoolong@arches.uga.edu)
- 35. Pumpkin Variety Evaluation for Northeast Florida Production.** Doug M. Gergela and Chad M. Hutchinson, Horticultural Sciences Dept., Univ. of Florida/IFAS, Gainesville, FL_ 32611-0690. (HREF="mailto:CMHutchinson@mail.ifas.ufl.edu")
- 36. Influence of Legume Cover Crops on Florida Potato Production.** Fernando Munoz¹, Chad M. Hutchinson², and Rao Mylavarapu¹, ¹Soil and Water Science Dept., Univ. of Florida/IFAS, Gainesville, FL_ 32611-0510, ²Horticultural Sciences Dept., Univ. of Florida/IFAS, Gainesville, FL_ 32611-0690. (fmunoz@mail.ifas.ufl.edu)
- 37. *The Effect of Mycorrhizae in a Solid-Based Hydroponic System for Growing Cucumbers.** Michael Longo and Elizabeth Lamb Indian River Research and Education Center, 2199 South Rock Road, Fort Pierce, FL 34945. (emlamb@mail.ifas.ufl.edu)
- 38. Effect of Irrigation and Fertilization Practices on Watermelon Yield and Nitrate Leaching.** Christine Worthington, Eric Simonne, George Hochmuth, Bob Hochmuth, Sal Locascio, Dorota Haman, Steve Sargent, Jennifer Hornsby, David Studstill, and Wayne Davis, Horticulture Sciences Dept., Univ. of Florida, Gainesville, Florida 32611. (dlsigator@ufl.edu)

Fruits & Nuts

- 39. Tipping Treatments Affect Production of Primocane-Fruiting Blackberries.** Eric T. Stafne and John R. Clark Dept. of Horticulture, 316 Plant Science, Univ. of Arkansas, Fayetteville, AR 72701 (estafne@uark.edu)

40. Evaluation of Pecan Genotypes for Commercial Use in Southern Georgia. Patrick J. Conner, Horticulture Dept., Univ. of Georgia, Coastal Plains Experiment Station, 4604 Research Way, Tifton, GA 31794. (pconner@tifton.cpes.peachnet.edu)

41. Changes in Antioxidant Capacity, Phenolics, and Anthocyanins During Maturation of Highbush Blueberry. Kenda Woodburn, Luke Howard, and John R. Clark, Depts. of Horticulture and Food Science, Univ. of Arkansas, Fayetteville, AR 72701. (woodburn@uark.edu)

42. Performance of Strawberry Plasticulture Cultivars at Two Arkansas Locations. Manjula Carter, Keith Striegler, Larry Martin, Steve Eaton, and Chris Lake, Univ. of Arkansas Southwest Research and Extension Center, 362 Hwy 174 N., Hope, AR 71801. (mcarter@uaex.edu)

43. Chilling Response of Arkansas Blackberry Cultivars. Manjula Carter and John R. Clark, Univ. of Arkansas Southwest Research and Extension Center, 362 Hwy 174 N., Hope, AR 71801. (mcarter@uaex.edu)

44. Fall Applied Ethephon Prevents Freeze Damage of ‘Climax’ Blueberry in 2002. Gerard Krewer, Univ. of Georgia, PO Box 1209, Tifton, GA 31793. Bob Boland, U. of GA. County Extension Coordinator, Brantley Co., GA. Ben Mullinix, Univ. of Georgia Dept. of Statistical Services, Tifton Campus, Tifton, GA. (gkrewer@uga.cc.uga.edu)

45. **Preliminary Investigations of *Botryosphaeria dothidea* and *Erwinia amylovora* in blackberry. P.J. Stewart, J.R. Clark, and P. Fenn, Dept. of Horticulture, Univ. of Arkansas, Fayetteville Dept. of Plant Pathology, Univ. of Arkansas, Fayetteville, AR 72701. (pjs05@uark.edu)

46. Effects of Crop Load and Shoot Type on Mineral Concentrations in Selected Tissues and Return Bloom of Pecans. Charles T. Rohla and Michael W. Smith Dept. of Horticulture and Landscape Architecture, Oklahoma State Univ., Stillwater, OK 74078. (rohla@okstate.edu)

47. *Response of Blackberry Cultivars to Graft and Nematode Transmission of Tobacco Ringspot Virus. A. Sanny¹, J. R. Clark,¹ S. Troxell,² and R. C. Gergerich,² ¹ Dept. of Horticulture, ² Dept. of Plant Pathology Univ. of Arkansas, Fayetteville, AR 72701. (asanny@uark.edu)

48. Consequences of the Application of Particle Film on Gas Exchange, Insect Density and Nut Quality of Pecans. Leonardo Lombardini Dept. of Horticultural Sciences, Texas A&M Univ., College Station, TX 77843-2133. (IHREF="mailto:l-lombardini@tamu.edu")

49. **Time of Thinning and Spacing Influence Fruit Size and Yield of ‘Contender’ Peach. S. N. Muriu and G. L. Reighard Dept. of Horticulture, Clemson Univ., Box 340375, Clemson, SC 29634. GRghrd@CLEMSON.EDU

50. Physio-Chemical Properties of ‘Texas Star’ Mayhaw. Fred Trappey, Charles E Johnson and Paul W. Wilson LSU AgCenter, Dept. of Food Science and Dept. of Horticulture, Baton Rouge, LA 70803. (cejohnson@agctr.lsu.edu)

51. Comparison of Fruiting Characteristics of Five Blackberry Cultivars Grown in South Louisiana. Charles E Johnson and Fred Trappey, Department of Horticulture and LSU AgCenter, Dept. of Food Science, Baton Rouge, LA 70803. (cejohnson@agctr.lsu.edu)

52. Comparison of Fruiting Characteristics of Six Fig Cultivars Grown in South Louisiana. Fred Trappey and Charles E Johnson, LSU AgCenter, Dept. of Food Science and Department of Horticulture, Baton Rouge, LA 70803 (cejohnson@agctr.lsu.edu)

53. Pollen Production and Viability of Four Rabbiteye Blueberry Cultivars. Patricio A. Brevis and D. Scott NeSmith, Dept. of Horticulture, 1109 Experiment Street, Griffin, GA 30223. (snesmit@gaes.griffin.peachnet.edu)

54. The Effect of Storage Time and Temperature on Mass Loss and Firmness of Several Rabbiteye Blueberry Cultivars. Abelardo Nunez, D. Scott NeSmith, and Stanley E. Prussia Dept. of Horticulture, 1109 Experiment Street, Griffin, GA 30223. (snesmit@gaes.griffin.peachnet.edu)

55. ‘Ochlockonee’ : A New Late Season Rabbiteye Blueberry Cultivar. D. Scott NeSmith, Arlen Draper, and James M. Spiers, Dept. of Horticulture, 1109 Experiment Street, Griffin, GA 30223. (snesmit@gaes.griffin.peachnet.edu)

56. The Effect of Machine and Hand Harvesting on Firmness, Mass Deterioration, and Fruit Respiration of Two Rabbiteye Blueberry Cultivars. Abelardo Nunez, D. Scott NeSmith, Manjeet Chinnan, and Stanley E. Prussia, Dept. of Horticulture, 1109 Experiment Street, Griffin, GA 30223. (snesmit@gaes.griffin.peachnet.edu)

57. Apple Production in the Highlands of the Dominican Republic: Management and Constraints. J. Pablo Morales-Payan. Horticultural Sciences Dept., Univ. of Florida, Gainesville, FL. 32611- 0690. (pmorales@mail.ifas.ufl.edu)

Food Safety

58. Fresh Produce Food Safety Training Materials and Program for Hispanic and Latin Farmworkers Dennis. J. Osborne, Douglas C. Sanders, and Luz Reyes, Horticultural Science Dept.; Donn R. Ward, Food Science Dept. NC State Univ., Raleigh, NC 27695-7609. (dennis_osborne@ncsu.edu) OR (HREF="mailto:(rock@intrex.net)"

59. Good Agricultural Practices (GAPs) Video: A New State/Univ. Cooperative Training Tool Dennis. J. Osborne, Douglas C. Sanders, and Luz Reyes, Horticultural Science Dept., Donn R. Ward, Food Science Dept., NC State Univ., Raleigh, NC 27695-7609. Don Howell, NC Dept. Of Agriculture, Raleigh, NC 27607. (dennis_osborne@ncsu.edu) OR (rock@intrex.net)

60. Fresh Produce Food Safety Risk Management Program for Small Farm and Roadside Direct Marketers Dennis. J. Osborne, and Douglas C. Sanders, Horticultural Science Dept., Donn R. Ward, Food Science Dept., NC State Univ. Raleigh, NC 27695-7609.(dennis_osborne@ncsu.edu OR rock@intrex.net

Miscellaneous

61. Response of Two Switchgrass (*Panicum virgatum* L.) Ecotypes to Seed Storage Conditions and Prechilling. Janet Grabowski^{1*}, Joel Douglas¹, David Lang², Paul Meints², and Clarence Watson, Jr.², ¹12533 County Road 65, Coffeetown, MS 38901 ²Dept. of Plant and Soil Sciences, Mississippi State Univ., Mississippi State, MS 39762. (Janet.Grabowski@ms.usda.gov)

62. Amplification of Echinaceae Pollen DNA Under Betaine and 3' to 5' Exonuclease. A2 Naseer Aziz and Roger J. Sauve. Cooperative Agricultural Research Program, Tennessee State Univ., 3500 J. A. Merritt Blvd., Nashville, TN 37209-1561. (aaziz@tnstate.edu)

63. A Low Cost Chamber for Higher Elevation/Cool Climate Plants in a Hot Greenhouse. Carl E. Niedziela Jr. and Guochen Yang, Dept. of Natural Resources & Environmental Design, North Carolina A&T State University, 1601 E. Market St., 242 Carver Hall, Greensboro, NC 27411. (cniedzie@ncat.edu)

64. Fall Flower & Garden Fest—Horticulture Education for the Masses. Richard G. Snyder, Mississippi State University, Truck Crops Experiment Station, P.O. Box 231, Crystal Springs, MS 39059. HREF="mailto:RickS@ra.msstate.edu")

PROGRAM

MONDAY, FEBRUARY 3, 2003

VEGETABLE CROPS SECTION

Room: CC Meeting Room 201A

Presiding: Dr. Lynn Brandenberger

Vegetable Crops Section Chair

Abstracts must be electronically submitted as attachment to Dr. Lynn Brandenberger.

lpb@okstate.edu

8:00 am Nitrogen Fertilization Affects Purple Nutsedge (*Cyperus rotundus*) Interference with Sweet Basil (*Ocimum basilicum*). J. Pablo Morales-Payan Horticultural Sciences Department, University of Florida, Gainesville, FL 32611-0690. (pmorales@mail.ifas.ufl.edu)

8:15 am Petiole Sap Testing Responses to Irrigation and Fertilization Rates. David Studstill*, Eric Simonne, Mike Dukes, Bob Hochmuth and Wayne Davis, Department of Horticultural Sciences, University of Florida, Gainesville, FL 32611. (dstudstill@mail.ifas.ufl.edu)

8:30 am Bell Pepper Production on Sand with Shredded Yard Waste and Reduced Fertilizer Rates. Alexander A. Csizinszky, University of Florida, Gulf Coast Research and Education Center, 5007 60th Street East, Bradenton, FL 34203. (aac@mail.ifas.ufl.edu)

8:45 am Development of a Controlled Release Fertilizer Program for Northeast Florida Potato Production. Chad M. Hutchinson and Eric H. Simonne, Horticultural Sciences Department, University of Florida/IFAS, Gainesville, FL 32611-0690. (cmhutch@ufl.edu)

9:00 am High Fertility Effects on Yields, Fruit Quality, and Size of Muskmelons Grown on Drip Irrigation in South Carolina. Richard L. Hassell, Coastal Research & Education Center, Clemson University, 2865 Savannah Highway, Charleston, SC 29414. (rhassel@clemson.edu)

9:15 am Pasteurized Broiler Litter Products for Tomato Production. William B. Evans, K. Paridon, and P. Hudson, Truck Crops Branch Experiment Station, Mississippi State University, P.O. Box 231, Crystal Springs, MS 39059. (wbe@ra.msstate.edu)

9:30 am BREAK

9:45 am Evaluation of Color Polyethylene Mulches for Yield and Size on Spring Pepper. James M. White, Mid-Florida Research and Education Center, 2725 Binion Road, Apopka, FL 32703-8504. (jmwhite@mail.ifas.ufl.edu)

10:00 am Influence of Black Polyethylene Mulch and NutriPak Fertilizer on Yield of White Potatoes in Missouri. Mack A. Wilson. Dept. of Agriculture, Southeast Missouri State Univ., One Univ. Plaza, MS 6100, Cape Girardeau, MO 63701. (mwilson@semovm.semo.edu)

10:15 am Evaluation of Color Polyethylene Mulches for Yield and Size on Spring Pepper. James M. White, Mid-Florida Research and Education Center, 2725 Binion Road, Apopka, FL 32703-8504. (jmwhite@mail.ifas.ufl.edu)

10:30 am Genetic Variation in Peppers (*Capsicum* spp.), for Flavonoid and Carotenoid Contents. Kevin Crosby. Texas A&M Research & Extension Center, 2415 East Business Hwy. 83, Weslaco, TX 78596. (k-crosby@tamu.edu)

Presiding: Dr. Elizabeth Lamb

1:30 pm An Improved Method for Quantifying Produce Inspectors' Measurement of Tomato Firmness. E. Lamb, M. Ritenour, S. Sargent and P. Stoffella, Indian River Research and Education Center, 2199 South Rock Road, Fort Pierce, FL 34945. (emlamb@mail.ifas.ufl.edu)

1:45 pm Field Screening of *Citrullus lanatus* Germplasm Accessions for Resistance to Cucurbit Insect Pests. Angela R. Davis, Sam D. Pair, and Forrest Mitchell, WWAREC, P.O. Box 128, Lane, OK 74555. (adavis-usda@lane-ag.org)

2:00 pm Yield and Quality of Fresh-Market Tomatoes as Affected by Transplant Container Size. C. Robert Stark, Jr., Univ. of Arkansas at Monticello; Paul E. Cooper, Southeast Research & Extension Service; and Paul B. Francis, Univ. of Arkansas at Monticello, Division of Agriculture, P.O. Box 3508, Monticello, AR 71656. (stark@uamont.edu)

2:15 pm Snap Bean Yield, Plant Growth and Pod Quality Using Single and Twin-Row Arrangements at Various Seeding Rates. William Terry Kelley and Keith S. Rucker, UGA-Rural Development Center, P.O. Box 1209, Tifton, GA 31793. (wtkelley@uga.edu)

2:30 pm Onion Bolting and Bulb Quality as Affected by Mulch and Irrigation System. Juan Carlos Diaz*¹, David Giddings¹, Denne Bertrand¹, Hunt Sanders², William M. Randle³, Ronald Walcott⁴, and Ronald Gitaitis², ¹Dept.s of Horticulture and ²Plant Pathology, Coastal Plain Experiment Station, Univ. of Georgia, Tifton, GA 31794; ³Dept.s of Horticulture and ⁴Plant Pathology, Univ. of Georgia, Athens, GA 30602. (jcdiaz@tifton.cpes.peachnet.edu)

2:45 pm BREAK

3:00 pm Comparing Simple Strategies to Promote Earliness for Small-scale Tomato Growers. Kent Cushman*, Richard Snyder, William Evans, Thomas Horgan, Peter Hudson, and David Nagel, Horticulture Research & Education Unit, North Miss. Research & Extension Center, Mississippi State Univ., P.O. Box 1690, Verona, MS 38879. (kcushman@ra.msstate.edu)

3:15 pm Optimizing Irrigation Management with Tensiometers for Crops Grown on Calcareous Soils in South Florida. Teresa Olczyk, Yuncong Li, Rafael Munoz-Carpena, Univ. of Florida Tropical Research & Education Center; Eric Simonne, Univ. of Florida Horticultural Sciences Dept., 18710 SW 288 Street, Homestead, FL 33030. (twol@mail.ifas.ufl.edu)

3:30 pm Are You Dying to See Where Irrigation Water Goes? Eric Simonne, David Studstill, Michael Dukes, John Duval, Bob Hochmuth, Gene McAvoy, Steve Olsen and Teresa Olczyk, Horticultural Sciences Dept., Univ. of Florida, PO Box 110690, Gainesville, FL 32611-0690. (esimonne@mail.ifas.ufl.edu)

3:45 pm Methyl Bromide Alternatives in Pepper and Cucurbit Rotation Systems. J.P. Gilreath, J.W. Noling and B.M. Santos, Gulf Coast Research and Education Center, 5007 60th Street East, Bradenton, FL 34203. (bmsantos@yahoo.com)

4:00 pm Evaluation of *Phomopsis amaranthicola* as a Potential Bioherbicide for Pigweeds in Basil (*Ocimum basilicum*). J. Pablo Morales-Payan*, R. Charudattan, W. M. Stall and J. DeValerio, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, FL32611. (pmorales@mail.ifas.ufl.edu)

4:15 pm Watermelon Weed Control Studies in Oklahoma. L. Brandenberger*, J. Shrefler, L. K. Wells, and B. Bostian. Department of Horticulture and Landscape Architecture Oklahoma State University, 360 Agriculture Hall, Stillwater, OK 74078-6027. (HREF="mailto:(lpb@okstate.edu)"

FRUIT CROPS SECTION

Room: CC Meeting Room 201B

Presiding: Dr. David Lockwood

Fruit Crops Section Chair

Abstracts must be electronically submitted as attachment to Dr. David Lockwood.
dlockwood@utk.edu

8 am - 10:45 am Workshop: Viticulture in the South

Interest in table and wine grapes is increasing dramatically in the South. While the potential is great, production in this region is challenging. Speakers from several southern states will address the history of viticulture, current trends and future opportunities in production and marketing as wells as challenges and opportunities.

Speakers

Andy Allen, North Carolina State Univ., Dept. of Horticulture, Box 7609, Raleigh, NC 27695-7609. (andy_allen@ncsu.edu)

Gerard Krewer, University of Georgia, P.O. Box 1209, Tifton, GA 31793-1209. (gkrewer@uga.edu)

David Lockwood, University of Tennessee, Dept. of Plant Sciences & Landscape Systems, 252 EPS, 2341 Center Drive, Knoxville, TN 37996-4561. (dlockwood@utk.edu)

Jiang Lu, Florida A & M University, Center for Viticulture, 6505 Mahan Dr., Tallahassee, FL 32308. (jiang.lu@famuedu)

George Ray McEachern, Texas A & M University, Dept. of Horticulture, College Station, TX 77843- 2133.

Keith Striegler, University of Arkansas, Dept. of Horticulture, 316 Plant Science Bldg., Fayetteville, AR 72701. Telephone: 479-575-2790. E-mail: kstrig@uark.edu

- 1:30 - 3:45 pm** **Dr. David Lockwood, Moderator**
- 1:30 - 1:45 pm** **Effect of Cu-impregnated Grow Bags in Growth and Production of ‘Bounty’ Peach in a High Density Orchard.** Curt R. Rom, University of Arkansas, Dept. of Horticulture, Fayetteville, AR. 72701. (crom@uark.edu)
- 1:45 - 2:00 pm** **New Insecticides and Trapcrop Techniques for Peach Pest Management.** Wheeler G. Foshee, Auburn University, Dept. of Entomology & Plant Pathology, 203 Extension Hall. Auburn University, AL 36849 . Bobby Boozer, Auburn University, 120 Co. Rd. 756, Clanton, AL 35045. and Dan Horton, University of Georgia, Dept. of Entomology, Athens, GA 30602. (wfoshee@aces.edu)
- 2:00 - 2:15 pm** **Effects of Iron Fertilization on the Growth of Papaya (*Carica papaya*).** J. Pablo Morales-Payan. University of Florida, Horticultural Sciences Dept., Gainesville, FL 32611-0690. (pmorales@mail.ifas.ufl.edu)
- 2:15 - 2:30 pm** **Fruit Quality Characteristics of Satsuma Mandarins that Affect Consumer Preferences.** Ben Campbell. Auburn University, Dept. of Agricultural Economics & Rural Sociology, 202 Comer Hall, Auburn University, AL 36849. (campbbl@auburn.edu)
- 2:30 - 2:45 pm** **Flowering, Fruit Set and Fruit Drop Characteristics in Selected Pawpaw Cultivars.** Kirk Pomper and Snake Jones. Kentucky State University, 129 Atwood Research Facility, Frankfort, KY 40601. (Kpomper@gwmail.kysu.edu)
- 2:45 - 3:00 pm** **‘White River’ Peach.** John R. Clark and James N. Moore, University of Arkansas. Dept. of Horticulture, Plant Science 316, Fayetteville, AR 72701.(jrclark@mail.uark.edu).
- 3:00 - 3:15 pm** **Commercial Adaptability of Bartlett-type Pears (*Pyrus communis*) in the South Carolina Piedmont.** G. L. Reighard, D. Ouellette, K. Brock, R. L. Bell and D. M. Hunter. Clemson University, Dept. of Horticulture, Box 340375, Clemson, SC 29634. (HREF="mailto:(grghrd@clemson.edu)"
- 3:15 - 3:30 pm** **Influence of Nitrogen Fertilization on the Interference of *Digitaria sanguinalis* in Passion Fruit (*Passiflora edulis*) Fields.** Bielinski M. Santos, University of Florida, GCREC, Gainesville, FL 32611-0690. (bmsantos@yahoo.com.)
- 3:30 - 3:45 pm** **‘Craven’, ‘Lenoir’ and ‘Pamlico’ Southern Highbush Blueberries.** James R. Ballington and Susan Rook. North Carolina State University, Dept. of Horticultural Science, Box 7609, Raleigh, NC 27695-7609.

FLORICULTURE, ORNAMENTALS AND TURF SECTION

Room: CC Meeting Room 201C

Presiding: Dr. Bodie Pennisi

Abstracts must be electronically submitted as attachment to Dr. Gary Wade.
gwade@arches.uga.edu

8:00 am Night-Break Lighting of Nursery Grown Herbaceous Perennials in the Southeast. J. Raymond Kessler, Jr., Department of Horticulture, Auburn University, Auburn University, AL 36849. (rkessler@acesag.auburn.edu)

8:15 am Taxodium X ‘F1302’, A New Interspecific Hybrid for Southern Landscapes. David L. Creech, SFA Mast Arboretum, Stephen F. Austin State University, Nacogdoches, TX 75962-3000 and Yin Yunlong, Nanjing Botanical Garden, Nanjing 21104, China. (dcreech@sfasu.edu)

8:30 am Effect of Mist and Cutting Water Potential on Rooting Stem Cuttings of Loblolly Pine. Anthony LeBude, Department of Horticultural Science, North Carolina State University, Raleigh, NC 27695-7609. (avlebude@unity.ncsu.edu)

8:45 am Masonry Color Affects Establishment of Texas Redbud and Baldcypress With Brick-On-Sand Pavement Michael A. Arnold 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 Genetics and Biochemistry of Flower Color in Stokes Aster (*Stokesia laevis*). Jessica Gaus, Horticultural Sciences Department, North Carolina State University, Raleigh, NC 27695. (jlgaus@unity.ncsu.edu)

9:15 am Break

9:45 am Management of Common Weeds in Turf In the Dominican Republic. J. Pablo Morales-Payan, Horticultural Sciences Department, University of Florida, Gainesville, FL 32601. (pmorales@mail.ifas.ufl.edu)

9:30 am Controlling the Slow Motion Explosion – Management of Invasive Plants of Horticultural Origin. Edward McWilliams, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843. (e-mcwilliams@tamu.edu)

9:45 am Survey of Water Management Practices in Georgia’s Greenhouses. Bodie Pennisi, Department of Horticulture, University of Georgia, Griffin, GA 30223. (bpennisi@uga.edu)

10:00 am The Response of Bloody-Lily, *Scadoxus multiflorus*, to Daylength, Shade, and Other Production Practices in South Florida. Joseph F. Garofalo and Wagner A. Vendrame, University of Florida, Homestead, FL 33031-3314. (jgarofalo@mail.ifas.ufl.edu)

POSTHARVEST/BIOTECHNOLOGY/PLANT BIOLOGY SECTION

Room: Adam's Mark Cypress Suite

Presiding: Dr. Nihal Rajapakse

Postharvest/Biotechnology/Plant Biology Chair

Abstracts must be electronically submitted as attachment to Dr.Nihal Rajapakse.

nrjpk@clemson.edu

8.15 am Elevated Selenium Concentrations Increase Sulfur Uptake and Regulate Glucosinolate Metabolism in *Brassica oleracea*. Heather D. Toler and Carl E. Sams, Dept. of Plant Sciences and Landscape Systems, The University of Tennessee, Knoxville, TN 37996. (htoler@utk.edu)

8.30 am Specific Inhibition of Selected Plant Pathogens by Individual Isothiocyanates and Potential Synergistic Effects. Stephanie G. Harvey and Carl E. Sams, Dept. of Plant Sciences and Landscape Systems, The University of Tennessee, Knoxville, TN 37996. (sharvey@canes.gsw.edu)

8.45 am Ethanol Extracts of *Silybum marianum* Seedlings Inhibit Teratoma Formation: A Possible Substitute for Seeds. J. Lena Horst Warren and Carl E. Sams, Dept. of Plant Sciences and Landscape Systems, The University of Tennessee, Knoxville TN 37996. (jwarren@utk.edu)

9.00 am Rapid Measurement of Watermelon Firmness Using a Texture Analyzer. Penelope Perkins-Veazie, USDA-ARS, SCARL, Lane, OK 74555. (pperkins-usda@lane-ag.org)

9.15 am Post-Production Conditions Affect Stability of Parthenolide in Feverfew Jorge M. Fonseca¹, James W. Rushing¹, Ronald L. Thomas², Melissa B. Riley³ and Nihal C. Rajapakse¹. Clemson University, Dept. of Horticulture¹, Dept. of Packaging Sciences², Dept. of Plant Pathology and Physiology³, Clemson, SC 29634-0375. (jfonsec@clemson.edu)

9.30 am Bud Maturity and Influence of Preservatives on Longevity of Cut *Hippeastrum x hybridum* 'Appleblossom' John Kihia and G.L.Klingaman. University of Arkansas, 316 Plant Science Building, Fayetteville, AR 72701. (jkihia@uark.edu)

9.45 am Antioxidant Properties of Developing and Ripening Blackberries. F.M. Woods, R.H. Thomas, W.A. Dozier, M. Nesbitt, D.G. Himelrick and R.C. Ebel, Auburn University Agricultural Experiment Station, Auburn University, AL 36849-5408. (fwoods@acesag.auburn.edu)

10.00 am Influence of Physiological Maturity on Physicochemical and Antioxidant Changes in Alabama Grown Blackberries. R. H. Thomas, F.M. Woods, W.A. Dozier, D. G. Himelrick, M. Nesbitt, and R.C. Ebel, Auburn University Agricultural Experiment Station, Auburn University, AL 36849-5408. (HREF="mailto:(fwoods@acesag.auburn.edu)"

10.15 am Lycopene and Total Antioxidant Content in Seedless Watermelon Cultivars Grown in Alabama. R. H. Thomas, F.M. Woods, W.A. Dozier, J.M. Kemble and E. L. Vinson, Auburn University Agricultural Experiment Station, Auburn University, AL 36849-5408. (fwoods@acesag.auburn.edu)

**Guidelines for Electronic Submission of Abstracts
for the Southern Region
American Society for Horticultural Science
2003 Conference in Mobile, Alabama**

The abstracts for the papers presented at the Southern Region - American Society for Horticultural Society annual conference in Mobile, Alabama, February 1-3, 2003 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 10, 2003. 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 1, 2003. Send a copy of the program and indicate the papers with abstracts received to Paul L. Smeal, SR-ASHS Secretary-Treasurer, Psmeal@vt.edu.