

**FINAL REPORT**  
**FOREST SERVICE GRANT NO. 06-DG-11244225-245**

Period covered by this report: 07/01/06-09/30/10

*NOTE: Please review the following information and revise/complete as necessary.*

**Issued to:** Louisiana State University Agricultural Center

**Address:** P.O. Box 25071, Baton Rouge, LA 70894-5071

**Project Name:** Mature Tree Response to Hurricane-related Flooding in Northern Gulf Coast Communities

**Contact Person/Principal Investigator**

**Name:** Hallie Dozier/Jim Chambers  
**Phone Number:** 225-578-7219  
**Fax Number:** 225-578-4227  
**E-Mail Address:** hdozier@agcenter.lsu.edu

**Web Site Address (if applicable):**

**Date of Award:** July 1, 2006

**Grant Modifications:** No cost extension through 09/30/11

**Date of Expiration:** June 30, 2009

**Funding: Federal Share:** \$68,364 plus **Grantee Share:** \$68,634 = **Total Project:** \$136,998

**Budget Sheet: (see p. 4)**

**FS Grant Manager:** Linda Haenn

**Address:** USDA Forest Service  
Newtown Square Corporate Campus  
11 Campus Blvd., Suite 200  
Newtown Square, PA 19073  
lhaenn@fs.fed.us

**Phone Number:** 610-557-4238

**Fax Number:** 610-557-4190

We made considerable progress towards completion of our scheduled activities. However, difficulties with analyses have meant that we have, thus far, been unable to complete analysis or

detect statistical differences in growth of mature trees subjected to short- and long-term flooding compared to controls.

#### Summary of Activities/Accomplishments:

- Established study sites, identified study species
- Conducted a windshield survey in New Orleans to assess immediate mortality from shorter and longer term flooding that occurred following Hurricane Katrina.
- Collected baseline data on a total of 907 trees on sites that underwent short- and long-term flooding in the New Orleans and on sites in Orleans and East Baton Rouge Parishes, LA and Harris County, TX that did not flood (control). Metrics included: dbh, crown diameters, crown densities, estimate of storm-related limb loss and epicormic branching.
- While we found a variety of tree species, we found only few species for which we were able to locate a minimum of ten individuals within a sampling area. Not all were found in sufficient numbers across sampling areas. For example, outside of finding one cottonwood (*Populus deltoides*) in a park 20 miles from New Orleans, Houston was the first location we found any in our sampling, and there we found only six individuals. We do not have enough replication of these trees for comparative purposes.
- We collected baseline data from the following species:
  - *Acer rubrum*
  - *Carya illinoensis*
  - *Celtis laevigata*
  - *Fraxinus* spp.
  - *Lagerstroemia indica*
  - *Liquidambar styraciflua*
  - *Pinus* spp.
  - *Platanus occidentalis*
  - *Quercus nigra*
  - *Quercus virginiana*
  - *Taxodium distichum*
  - *Ulmus americana*
  - *Ulmus parvifolia*
- Starting in 2009 we collected core samples from a sub-sample of previously measured individuals in New Orleans, Baton Rouge and Houston. Early on we determined that coring multi-stemmed crape myrtles was infeasible and would not yield usable data, and thus crape myrtles were dropped from the sampling. Additionally, all individuals of *Celtis laevigata* were removed and stumps ground from the City Park site in New Orleans. This was the largest concentration of *Celtis* in the flooded areas and one of the few locations where we found *Celtis*. As such, we dropped *Celtis* from sampling in NOLA. Maples did not yield readable cores (annual rings indistinct) and were removed from the analysis. In all, 449 usable cores were collected from trees in New Orleans, East Baton Rouge and Houston.
- Species cored (2 perpendicular cores/individual tree, 5 individuals/species):
  - *Acer rubrum*
  - *Fraxinus* spp.
  - *Pinus* spp.

- *Platanus occidentalis*
- *Quercus nigra*
- *Quercus virginiana*
- *Taxodium distichum*
- *Ulmus parvifolia*
- Educational activities during the grant included hurricane-related presentations; television and radio appearances; two family bicycle tours of significant trees in East Baton Rouge and three in Shreveport; presentations on hurricane resistant trees to student groups, professional groups, tree care and landscape professionals, and municipal and planning professionals.

**Objectives not met:**

- We were unable to determine if the longer term flooding that occurred in the New Orleans area as a result of levee failures and low-lying topography had a greater impact on mature tree survival, growth and vigor than short term flooding typically associated with hurricane-driven rains and storm surge. This is because we have not been able to complete analysis statistical analysis. We believe our (thus far) inability to detect difference in growth among flood treatments is a statistical modeling issue that came about, in part, because of high covariance among response variables (ring width, initial tree size, etc.) and final sampling dictated by the landscape and above mentioned problems with certain species.
- Until we have this, however, we cannot say there is a difference in mature response across treatments and we are not able to examine interactions between wind and flood effects on mature trees. We are continuing to work with a statistician on this and feel confident we will be able to glean information from the samples.

**How did this project increase the knowledge we have about urban forestry? How did the public benefit?**

This project increased knowledge of the impact tropical cyclones have on coastal community forests by complementing existing information regarding wind damage to urban and community trees with information about the contribution storm-driven floods make to mortality of mature trees in residential areas.

By going beyond simple inventories of damage to urban and community forests, this research helps give a more complete picture of how mature trees survive these storms, and contribute to our knowledge of ecological processes and patterns in urban and community forests.

**Deliverables:**

Presentations and workshops targeting tree care professionals, utility right of way crews, municipal planners, and the general public were delivered during the grant period (see list below for details). This topic is very popular among professional and community groups and presentations continue to be requested today. The following list represents educational activities related to this project and is not exhaustive.

Arborist, planning and urban forestry audiences all included emergency personnel, so, although a dedicated classes for emergency personnel were not conducted, our information reached some of

that population. See Appendix 1 for sample seminar and workshop agendas. Published peer-reviewed manuscripts are in preparation, pending completion of statistical analysis.

### **Publications:**

Dozier, H. 2006. Dealing with storm-damaged trees. Publication 2949-D.

<http://www.lsuagcenter.com/NR/rdonlyres/1ECbeeaf-4ff9-45D5-A939-A0CF9FA76526/26249/Pub2949DstormDamagedTreesFINAL1.pdf>

Dozier, H. and S. Wright. 2007. Make wise tree removal decisions before a hurricane.

[http://www.lsuagcenter.com/en/lawn\\_garden/home\\_gardening/trees\\_shrubs/Make+Wise+Tree+Removal+Decisions+before+a+Hurricane.htm](http://www.lsuagcenter.com/en/lawn_garden/home_gardening/trees_shrubs/Make+Wise+Tree+Removal+Decisions+before+a+Hurricane.htm)

### **Presentations:**

Dozier, H. "Hurricanes and Trees in the Southeast." 2007 Gulf States Horticultural Exposition and Trade Show, Mobile, AL. February 1, 2007. (invited)

Dozier, H. "Storms and Trees: Selecting Wind Resistant Trees & Hiring a Professional for Their Care." Association of Louisiana Electrical Cooperatives Right-of-Way School, DeRidder, LA. February 6, 2007. 50 participants.

Dozier, H. "Storms and Trees: Selecting Wind Resistant Trees & Hiring a Professional for Their Care." Association of Louisiana Electrical Cooperatives Right-of-Way School, Greenwell Springs, LA. February 8, 2007. 100 participants.

Dozier, H. "Storm-driven Flooding and Mature Trees: Preliminary Survival following Hurricanes Katrina and Rita." Trees Florida Conference and Trade Show, Palm Harbor, FL. June 9, 2007. (invited)

Dozier, H. "Arborist Licensing and Storm Recovery: A Louisiana Tale." Trees Florida Conference and Trade Show, Palm Harbor, FL. June 9, 2007. (invited)

Dozier, H. "Trees and Hurricanes in the Southeast." LA Arborist Continuing Education: Tree Law, Louisiana Arborist Continuing Education: Tree Law in Louisiana, Port Allen, LA. January 11, 2008. 202 participants.

Dozier, H. "Trees and Hurricanes in the Southeast." Louisiana Urban Forestry Council Annual Conference, Mandeville, LA. March 26, 2008.

Dozier, H. "Hurricanes and Trees: Selecting Wind Resistant Trees & Hiring a Professional for Their Care." Baton Rouge Green Community Forum: Trees in our Cities, Baton Rouge, LA. 2008.

Dozier, H. "Designing with Trees for a Changing Climate." LSU Hilltop Arboretum: Sustainable Landscape Design, Baton Rouge, LA, March 27. 2008.

Dozier, H. "Trees and Wind." Broadmoor Resident Association Educational Seminar, Baton Rouge, LA. July 17, 2007.

Dozier, H. "Wind and Trees: Some Good Things to Remember." LSU Horticultural Expo, Baton Rouge, LA. February 9, 2009.

Dozier, H. "Minimizing Hurricane Damage to the Urban Canopy." Mid-Atlantic Horticulture Society Annual Conference, Norfolk, VA. January 25, 2010.

Dozier, H. "Minimizing Hurricane Damage to the Urban Canopy." American Planning Association Louisiana Chapter, Baton Rouge, LA. March 25, 2010.

### **Workshops:**

Louisiana Arborist Continuing Education: Arborist Safety and Productivity after the Hurricane, Baton Rouge, LA. January 23, 2009. 81 participants.

Louisiana Arborist Continuing Education: Arborist Safety and Productivity after the Hurricane, Baton Rouge, LA. January 24, 2009. 38 participants.

Louisiana Arborist Continuing Education: Arborist Safety and Productivity after the Storm, Pollock, LA. October 23, 2009. 72 participants

**Press releases:**

“Forester to lead bike tour of Shreveport’s significant trees.” October 26, 2010.

“Forester to lead bike tour of significant trees.” January 27, 2009.

“Baton Rouge neighborhood wins tree preservation grant.” July 2, 2007.

**Television and radio appearances:**

Interview with Sally Ann Roberts and Eric Paulson. In the Garden. CBS. WWLTV, New Orleans, LA.  
June 30, 2011

Interview with Sally Ann Roberts and Eric Paulson. In the Garden. CBS. WWLTV, New Orleans, LA.  
November 4, 2010.

Interview with Denise Chambers. Coffee Break. PEG. KCAV-TV, Bossier. October 5, 2010.

Interview with Kate Archer. “Forester leads bicycle tour of significant trees.” NPR. KDAQ, Shreveport,  
LA. October 5, 2010.

Interview with Loren Demerath and Carolyn Manning. Time for a Better Shreveport. KSCL-FM,  
Shreveport, LA. October 4, 2010.

**List the active partners (key individuals or organizations) involved in the project to-date:**

Jim Chambers & Hallie Dozier, LSU AgCenter; Ann McCarty, New Orleans Department of  
Parks and Parkways.

**This report was prepared by:**

**Name:** Hallie Dozier  
**Title:** Associate Professor/PI  
**Phone Number:** 225-578-7219  
**Date:** December 7, 2012

## 2007 Educational Program

This year's educational program at the **Gulf States Horticultural Expo** returns to a morning general session and afternoon concurrent sessions for retailers, landscapers, nursery growers and greenhouse producers. We are pleased to have Dr. Neil Odenwald, former head of the landscape architecture program at LSU, Dr. Hallie Dozier from the LSU AgCenter's School of Renewable and Natural Resources, and Bobby Dupont from Dupont Nursery in Plaquemine, LA as our morning general session speakers. The pest management session will be an opportunity for CEU credits for participating states. New this year is a plant workshop on azaleas.

### **General Session**

9:00-9:50 am            My Favorite Plants and Their Landscape Attributes  
Neil Odenwald, Landscape Architect, Baton Rouge, LA

Dr. Odenwald is retired horticulture specialist at the LSU AgCenter and former head of landscape architect at LSU. Author of "Southern Plants for Landscape Design", Dr. Odenwald will discuss some of his favorite landscape plants for the Gulf States and how to use them in landscape settings.

**10:00-10:50 am            Hurricanes and Trees**  
**Hallie Dozier, LSU AgCenter, Baton Rouge, LA**

Hurricanes devastated the Gulf States landscape during 2004 and 2005. Dr. Hallie Dozier with the LSU AgCenter's School of Renewable Natural Resources has been conducting surveys of how different tree species respond to hurricane issues. She will present a summary of this interesting information.

11:00-11:50 am            Cajun Hibiscus: New *Rosa-sinensis* Varieties for the Gulf States  
Bobby Dupont, Dupont Nursery, Plaquemine, LA

One of the newest group of plants being talked about in the Gulf States are the „Cajun“ hibiscus from Dupont Nursery in Louisiana. Bobby Dupont has won „Hibiscus of the Year“ awards and will discuss his breeding and new variety development efforts.

12:00-1:00 pm            Lunch On Your Own

### **Pest Management**

9:00-9:50 am            Pesticide Safety  
Fudd Graham, Auburn University

Pesticide safety involves a number of factors. Environmental concerns in pesticide use will be addressed.

10:00-10:50 am      Disaster and Risk Management: Planning Opportunities  
Virginia Morgan, Auburn University

Does your green industry business have an emergency plan? Last year, the Alabama Cooperative Extension Service worked with the Southern Region Risk Management Education Center to develop information on emergency preparedness for green industry businesses in the Gulf States. Here about this and much more.

11:00-11:50 am      Woody Ornamental Disease Issues in the Commercial Landscape  
Don Ferrin, LSU AgCenter, Baton Rouge, LA

Dr. Ferrin works in the area of horticultural plant pathology in Louisiana. He will address issues we are currently seeing in commercial landscape plantings in addition to items we need to be on the lookout for in the future.

12:00-12:50 pm      Lunch On Your Own

1:00-1:50 pm      What Fungicides You Should Have On Hand  
Alan Henn, Mississippi State University, Starkville, MS

Many of us have become more confused about fungicides currently available for commercial and consumer horticulture use. See about the current available products and what materials we need to have on hand to handle our disease issues we face on a daily basis.

2:00-2:50 pm      Turfgrass Insect Issues for Horticultural Service Providers  
David Held, Mississippi State University, Biloxi, MS

Dr. Held works in the area of ornamental and turfgrass entomology. We will hear some information on the current insect pests causing problems in our residentially and commercially maintained turfgrass areas.

3:00-3:50 pm      Turfgrass Disease Issues for Horticultural Service Providers  
Don Ferrin, LSU AgCenter, Baton Rouge, LA

Turfgrass disease seems to more of a problem the last few years in the Gulf States. Dr. Ferrin will cover the main diseases seen in our common turfgrass species and discuss control and management options.

4:00-4:50 pm      Entomology Research Update from USDA  
David Boyd, USDA-ARS, Poplarville, MS

Dr. Boyd has a diverse program at USDA looking at insect issues that are affecting nursery growers, landscapers and other green industry professionals. Hear about azalea lacebugs, flea beetles, strawberry rootworm, hibiscus sawfly and others.

## **Nursery Production**

1:00-1:50 pm            Alternative Media for the Nursery Industry  
Glenn Fain, USDA-ARS, Poplarville, MS

Glenn Fain's USDA research on ground whole pine trees for nursery media was featured in the November issue of Ornamental Outlook. Hear about possibilities for this and other alternative media for the horticulture industry.

2:00-2:50 pm            Developments in Controlling Rhizoctonia Web Blight on Azaleas  
and the Use of Disinfectants  
Warren Copes, USDA-ARS, Poplarville, MS

The symptoms, biology and control of Rhizoctonia web blight of container grown azaleas and other plants will be reviewed. Research results of environmental conditions that favor disease development in the Gulf South will be presented along with how this could impact control efforts.

3:00-3:50 pm            Risk Management and Nursery Crop Insurance Information  
Paul Walden, USDA-RMA, Valdosta, GA

Paul Walden has been a valuable contributor over the last few years in providing information to green industry businesses in the southeastern United States on nursery crop insurance and other risk management information available from USDA. He will highlight a few things growers need to know.

4:00-4:50 pm            Nursery Research Overview: Media Improvement, Improving  
Retail Plant Quality, and More  
Ed Bush, LSU AgCenter, Baton Rouge, LA

The LSU AgCenter has an active nursery and landscape research program. Dr. Bush will give us an overview of current research findings that will be of practical benefit to the wholesale nursery grower.

## **Retail/Plant Material**

1:00-1:50 pm            New Plants for Retailers  
Norman Winter, Mississippi State University, Raymond, MS

Norman Winter always has information on new plants. We have many new herbaceous plants that are potentially great selections for promoting to the Gulf States gardening consumer. Here Norman's plant picks for 2007 and beyond.

2:00-2:50 pm            Fruit Varieties to Recommend to Consumers  
Charles Johnson, LSU AgCenter, Baton Rouge, LA

Garden centers seem to be noticing a rebound in demand for fruit crops. Consumers have many more varieties to select from than in the past. Also, new varieties continue to be released. Dr. Johnson does fruit crop research and variety development at the LSU AgCenter and will provide an overview of species and varieties that need to be in your garden center inventory.

3:00-3:50 pm                      Hibiscus: Species, Varieties and Current Development Efforts  
Cecil Pounders, USDA-ARS, Poplarville, MS

Dr. Pounders has many years of experience in plant breeding and development. One of his current efforts is hibiscus evaluation and new variety development. Hear about this exciting work that has potential for new additions to this great group of plants.

4:00-4:50 pm                      Proven Winners Update  
Doug Parkinson, Euro American Propagators, Zoar, OH

Proven Winners continues to develop and release many outstanding herbaceous plant varieties for retailers and landscapers. Also, with the association with P. Allen Smith, name recognition of the Proven Winners brand continues to build. Hear about some great plants in their current collection.

### **Plant Workshop: Azaleas**

1:00-1:50 pm                      Overview: Status in Azalea Breeding/Development/Interests  
Buddy Lee, Transcend Nursery, Independence, LA

Buddy Lee, past president of the Azalea Society of America and prolific azalea breeder from Louisiana, will discuss what is current happening in azalea variety development.

2:00-2:50 pm                      Aromi Hybrids and Other Azaleas with Potential  
Maarten van der Geissen, van der Geissen Nursery, Semmes, AL

Maarten van der Geissen is known for his expertise on new plants. He is currently working with several azalea groups and will provide an overview of some outstanding varieties having potential in the Gulf States.

3:00-3:50 pm                      Auburn University's Camp Hill Azalea Trial – Some Initial  
Observations  
Gary Keever, Auburn University, Auburn, AL

Auburn University began a very large landscape evaluation of azalea varieties several years ago. Dr. Keever will discuss some of the initial results of this major trial effort and feature some plants that have some commercial use potential.

4:00-4:50 pm                      My Favorite Azaleas and Some Companion Native Plants

Margie Jenkins, Jenkins Farm and Nursery, Amite, LA

Margie Jenkins is known for her love and interest in azaleas and native plants. She will highlight a few of her favorite azaleas and discuss some native plants with commercial potential in the Gulf States.

### **Greenhouse Production**

1:00-1:50 pm            Spice Up Your Production and Landscape with Tropicals  
Jeff Kuehny, LSU AgCenter, Baton Rouge, LA

Dr. Kuehny has been working at LSU on gingers and other tropical plants that have commercial production potential and increased utilization potential in commercial landscape plantings. Hear him highlight some new tropical plant options.

2:00-2:50 pm            Production of Tropical Perennials  
Jamie Gibson, University of Florida, Milton, FL

As a follow up to Dr. Kuehny's presentation, Dr. Gibson from Florida will highlight some tropical plants with potential that he is seeing being used or experimented with in the southeastern United States.

3:00-3:50 pm            Step By Step Costs of Production  
Raymond Kessler, Auburn University, Auburn, AL

Cost is often overlooked in greenhouse production. Raymond will offer some information on this topic of considerable importance, considering the increased cost of inputs the last few years.

4:00-4:50 pm            Floriculture Research Update  
Richard Harkess, Mississippi State University, Starkville, MS

Dr. Harkess conducts floriculture research and will give us an overview of some of his most recent research findings from Mississippi State University.

### **Landscape Contracting/Maintenance**

1:00-1:50 pm            Invasive Plant Issues in the Horticulture Industry  
Hallie Dozier, LSU AgCenter, Baton Rouge, LA

We are all hearing more and more about the invasive plant issue. Dr. Dozier from the LSU AgCenter will address some of these concerns and provide some information on what she is seeing and hearing in the invasive plant movement.

2:00-2:50 pm            Landscape Management and Plant Material Selection with Water  
Conservation in Mind

Sam McCoy, VersaScapes, Mt. Pleasant, SC

Landscape planting with water conservation in mind is the thing of the future, and maybe the present, for many of us. Hear Sam McCoy discuss some plants that offer xeriscape options.

3:00-3:50 pm            Recommended Planting Times in the Landscape for PanAmerican Varieties  
Terry Howe, PanAmerican Seed Company, Palmetto, FL

Many landscapers are using “new plants” but ideal planting times for some of these new varieties may not be the same as what we have been used to for some of the older species and varieties. Hear Terry Howe provide information on this important topic to aid in landscape performance.

4:00-4:50 pm            Tax Issues and Concerns for Landscape Contractors  
Jeff Sibley, Auburn University, Auburn, AL

Landscape contractors continue to be faced with many business related decisions outside of horticulture plant material. Dr. Jeff Sibley will address some important tax information and issues that landscape professionals need to know.



**Arborist Safety and Productivity after the Hurricane  
January 23, 2009  
Burden Center, Baton Rouge**



☞ This one-day seminar will bring you the best and most current information on cutting, climbing and rigging techniques that can help keep you from becoming a statistic during storm clean-up. Bruce Smith, trainer for North American Training Solutions, lives

and works in the tropical storm belt and has firsthand experience with the procedures involved in what quite possibly is the most dangerous aspect of arboriculture. Join Bruce as he discusses and demonstrates many of the skills needed to be safe on the job following the storm. ☞

- 7:15** Registration
- 8:00** Welcome and LDAF update (*Hallie Dozier, LSU AgCenter & LDAF Inspector*)
- 8:10** What Stands & What Falls During the Storm? (*Hallie Dozier, LSU AgCenter*)
- 8:45** The ANZI Z133.1 Safety Standard for Tree Care Operations
- 9:45** **Break**
- 10:15** Personal Protective Equipment
- 10:45** Post Hurricane Tree Damage Scenarios
- 11:45** Chainsaw Safety and Cutting Techniques
- 12:30** **Lunch (provided)**
- 1:15** Rigging and Cutting Techniques for Post-Hurricane Situations - Demonstration
- 4:30** **Wrap up, questions, licensing paper work**



It is the policy of the LSU AgCenter that no person shall be subjected to discrimination on the grounds of race, color, national origin, gender, religion, age or disability.

This workshop satisfies LDAF licensing renewal continuing education requirements. ISA credits have been requested.

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**REGISTRATION:** Registration is \$75 if received by January 2, 2009. After Jan. 2<sup>nd</sup>, the cost is \$120. Seating is limited to 90 and **pre-registered participants will be given priority.** Detach & mail form with registration fee to arrive by January 2<sup>nd</sup> to:

Brigida Cook-Brown  
227 School of Renewable Natural  
Resources  
LSU  
Baton Rouge, LA 70803  
**ATTN: Arborist Certification**

**MAKE CHECKS PAYABLE TO:  
LSU AGCENTER**

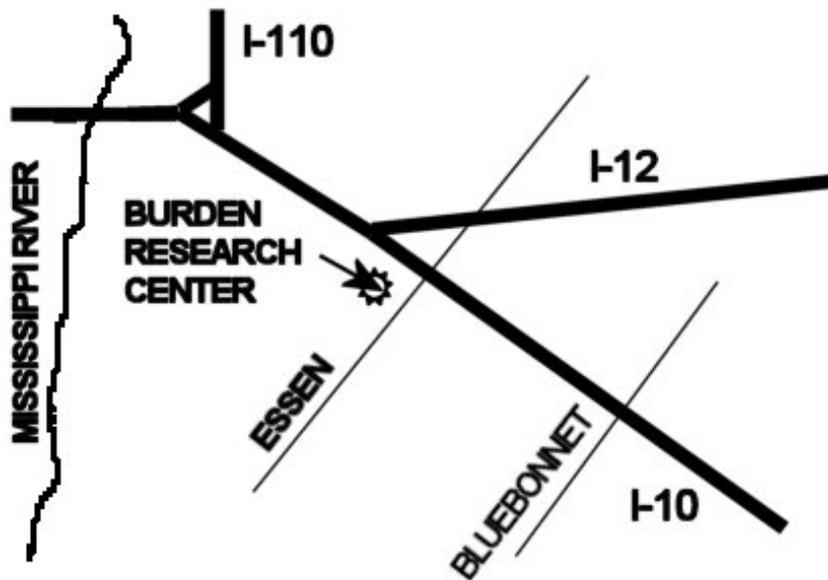
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## LSU BURDEN CENTER

**Directions:** From the west and south on I-10: Exit south on Essen Lane at Exit 160. From the east on I-12: Exit 1B to Drusilla. Turn left onto Drusilla and follow south to Jefferson Hwy (0.1 mi). Turn right onto Jefferson (0.4 mi). Turn left onto Essen (0.9 mi).

The entrance to Burden Center is on the west side of Essen Lane immediately south of Interstate 10. 225-763-3990.

**LODGING:** There are several nearby hotels; the closest to Burden Center is the Marriott Fairfield Inn at 7959 Essen Park. 225-766-9493.



# Trees Florida 2007

## CONFERENCE & TRADE SHOW

June 9 - 12

Innisbrook Resort and Golf Club

Palm Harbor, Florida



*Quercus virginiana*

Trees Florida



Arborists • Urban Foresters • Growers • Landscape Architects

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# Trees Florida

Look what's happening in 2007!

The best way to keep up-to-date is by attending Trees Florida 2007. Network and build relationships to take your business and programs to the next level.

- education program features many national speakers
- the latest in tree research and arboriculture
- enhance your arboricultural technical skills
- the latest equipment and technology
- ISA certification exam on Sunday
- silent auction to benefit TREE Fund
- awards luncheon

## Reception with Exhibitors

**Monday, 5:00 PM - 6:00 PM**

Meet and greet old friends and make new ones. Join exhibitors, speakers and attendees, and view silent auction items in this fun-filled hour.

## FCISA/FUFC Hospitality Suite

**Monday, 8:00 PM - 10:00 PM**

Join your colleagues and other members in socializing at this joint FCISA/FUFC event.

## Keynote Speakers



### Dr. Bruce Fraedrich

Bruce Fraedrich is the Vice President of Research at the F.A. Bartlett Tree Expert Company, the Director of Bartlett Tree Research Laboratories and an Adjunct Professor of Forestry at Clemson University. Dr. Fraedrich is responsible for directing research, technical support and training functions for the Bartlett Company, NC. Research interests include diseases of landscape plants, tree risk management and planting and establishment of landscape plants. He received a Ph.D. in Plant Pathology from Clemson University. He is a member of the American Phytopathological Society, the International Society of Arboriculture (ISA Certified Arborist SO 175). Dr. Fraedrich received the L.C. Chadwick Award for Arboricultural Research from the International Society of Arboriculture in 2005.



### Michael T. Rains

Michael T. Rains is currently the Director of the Northern Research Station, United States Forest Service. The Station, headquartered in Newtown Square, PA, is a regional research organization designed to help the Northeast and Midwest states manage, protect, and use their forests. Under Mr. Rains' direction, more than 150 scientists across 20 states are working to develop and communicate leading-edge scientific information and technology. Research is organized around five science themes: Managing with Disturbance, Urban Natural Resources Stewardship, Sustaining Forests, Providing Clean Air and Water, and Natural Resources Inventory and Monitoring. Mr. Rains emphasizes the need to improve the stewardship of urban natural resources in order to better link environmental health with community well-being.



### Dr. E. Thomas Smiley

Tom Smiley is an arboricultural researcher at the Bartlett Tree Research Laboratories in Charlotte, NC and an adjunct professor of Urban Forestry at Clemson University. Tom serves as a technical advisor to the American National Standards Institute A300 Committee in the preparation of the Standards for Tree Care Operations and is chair of the International Society of Arboriculture's Best Management Practices Committee that interprets the standards. He also chairs the ISA's Board Certified Master Arborist Committee and is the Past President of the Southern Chapter of the ISA. He was the Society of Commercial Arborist 'Arborist of the Year' in 2004 and received the International Society of Arboriculture's Research Award in 2005.



### James Urban

James Urban, FASLA, ISA is a landscape architect with over 30 years of experience in the field of urban development and the planting of trees in difficult urban sites. Since 1982, he has been researching and testing ideas related to the installation of trees in the urban environment. This work has brought him into close association and collaboration with many leading arborists and tree researchers translating and developing applications of their ideas for landscape architects. This has included the testing of new urban tree systems and planting concepts, developing new approaches to landscape architectural design, detailing, and specifications in the area of trees and urban soils.

## Restoring the urban forest: post hurricane strategies

9:00 AM - 4:00 PM (5.5 ISA CEUs)

- How hurricanes affect tree ordinances and enforcement.  
*Dr. Mike Orfanedes, University of Florida and Kim Pearson, City of Pompano Beach*
- Lessons learned from hurricanes and trees.  
*Way Hoyt, Tree Trimmer and Associates, Inc.*
- Marshalling forces to clean up and replant the urban forest.  
*Rachael Barker, Columbus, GA*
- Remove or restore: how do we decide?  
*Jeffrey L. Siegel, City of Plantation*
- Treating storm damaged trees.  
*Dr. Bruce Fraedrich, Charlotte, NC*
- Arborist licensing and storm recovery: a Louisiana tale.  
*Dr. Hallie Doser, Louisiana State University*
- Impacts of storm surge and flooding on trees.  
*Dr. Hallie Doser, Louisiana State University*
- Choosing new trees after hurricanes.  
*Mike Conner RLA, Calvin, Giordano and Associates*
- Reforestation efforts in Florida following the hurricanes.  
*Charlie Marcus, Florida Division of Forestry*
- Post-hurricane: making changes, moving forward.  
*Alyce M Robertson, Miami-Dade County*
- Restoration pruning in the first ten years after the storm.  
*Dr. Ed Gilman, University of Florida*

## Tree risk assessment and management

9:00 AM - 4:00 PM (5.5 ISA CEUs)

- Visual tree analysis and evaluation stem and branch defects.  
*Dr. Bruce Fraedrich, Charlotte, NC*
- Visual tree analysis and root and soil-related defects.  
*Dr Tom Smiley, Charlotte, NC*
- Documentation, risk tree rating systems and remedial treatment options for managing common defects.  
*Dr. Bruce Fraedrich, Charlotte, NC*
- Outdoor lab: this lab will feature visual tree analysis and site analysis for assessing branch, stem, root, and soil failures. Techniques and tools to evaluate wood and root decay will be presented including drilling, Resistograph and air tools. Attendees will be given opportunities to use the various tools that are demonstrated.

Sunday, June 10 *(No transportation is provided to off-site events)*

### ISA Certification Exam

Sunday, June 10

7:30 AM - 12:00 PM

*Separate registration required  
Contact ISA at 217-355-9411*



**Other family attractions available at**  
[www.treesflorida.com](http://www.treesflorida.com)

### Deep sea fishing: one-half day

*Clearwater, 8:00 AM - 12:00 PM*  
Fish on the Double Eagle III.  
\$43.00/adult, \$30.00/child, ages 6-12  
(5 and under free)

### Family Fun Field Day

*A.L. Anderson Park, 9:30 AM - 1:00 PM*  
Come one and all to enjoy a day of fun for the family. There will be many hands-on activities for the children including art projects, juggling and much more. A wonderful way to watch the

register online @ [www.treesflorida.com](http://www.treesflorida.com)

## Urban forestry field study

8:30 AM - 4:30 PM (6.00 ISA CEUs)

- Natural area wildland-urban interface, Brooker Creek Preserve  
*Lisa Baltus, Pinellas County*
- Analyzing an urban forestry problem, Palm Harbor  
*Dave Fox, NRPS, Inc.*
- Inside Florida Botanical Gardens, Largo  
*Loren Westenberger, Westenberger Tree Service and Vernon Bryant, Florida Botanical Gardens*

This three-stop field study will encompass a variety of urban forestry issues. Pinellas County's Brooker Creek Preserve will demonstrate the challenges of land managers in a wildland-urban interface. Issues such as prescribed burning, smoke management, timber thinning, exotic species control, and public education will be discussed.

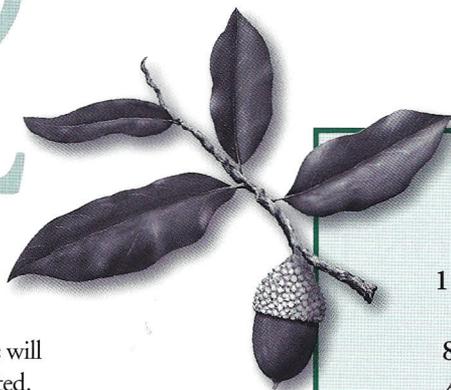
We will then look at the urban forest planted within the community of Lansbrook in Palm Harbor. Issues of tree quality, pruning, spacing and species diversity will be discussed and demonstrated.

The third stop will take us to the Florida Botanical Gardens located at Pinewood Cultural Park in Largo. Loren Westenberger and Vernon Bryant will guide us on an "inside" look at the gardens and discuss ongoing arboricultural projects.

## ISA certification exam review session

9:00 AM - 4:00 PM (5.5 ISA CEUs)

Want help in preparing for the certification exam? This is your chance to brush up before the test on Sunday. Expert instructors will review the more difficult domains on the exam.



### Tree Climbing Championship

Saturday, June 9

11:00 AM - 3:30 PM

Sunday, June 10

8:00 AM - 4:00 PM

*A. L. Anderson Park*

Come see Florida's best climbers compete! Winners receive cash and prizes and champions receive a trip to Hawaii. Come watch or join the head-to-head competition all day long.

climbers and have something for the kids to enjoy. Free t-shirts to the first 25 children.

### Sunday Barbeque

*A.L. Anderson Park, 6:00 PM - 7:30 PM*  
Everyone is invited to the Sunday BBQ. Join your friends and make new ones as we present TCC competitors with climbing championship awards.

Day at a glance

7:00 AM - 5:00 PM	Registration desk/book store open
7:30 AM - 5:00 PM	Trade show open
7:30 AM - 6:00 PM	TREE Fund silent auction 
8:00 AM - 12:00 PM	General session
8:00 AM - 5:00 PM	Outdoor tree school
12:00 PM - 1:00 PM	Lunch with exhibitors
1:00 PM - 5:00 PM	Breakout sessions
5:00 PM - 6:00 PM	Reception with exhibitors
8:00 PM - 10:00 PM	Hospitality suite FUFC and Florida ISA

Monday, 1:00 PM - 5:00 PM and

**General Session 8:00 AM - 12:00 PM (3.5 ISA CEUs)**

- 8:00 Welcome. *President FCISA, President FUFC and Conference Chair*
- 8:30 Expanding the stewardship of America's urban natural resources.  
*Michael T. Rains, Newtown Square, PA*
- 9:15 Best management practices: applying standardized methods in arboriculture.  
*Geoff Kempter, Willow Grove, PA*
- 10:00 Break with exhibitors
- 10:30 Rational use of pesticides.  
*Dr. Jerome Goddard, Jackson, MS*
- 11:15 Engineering space for trees.  
*Jim Urban, FASLA, Annapolis, MD*
- 12:00 Lunch with exhibitors.

**What's up doc? (3.5 ISA CEUs)**

**Monday, 1:00 pm - 1:30 pm; Tuesday, 8:00 am - 8:30 am**  
What's up with all the oak galls?  
*Dr. Eileen Buss, University of Florida*

**Monday, 1:30 pm - 2:00 pm; Tuesday, 8:30 am - 9:00 am**  
Tree mortality across Florida: what's up?  
*Dr. Ed Barnard, Florida Division of Forestry*

**Monday, 2:00 pm - 2:30 pm; Tuesday, 9:00 am - 9:30 am**  
Dr. Treevorkian's ten step program for assisted herbicide.  
*Jim Chatfield, Ohio State University*

**Monday, 2:30 pm - 3:00 pm; Tuesday, 9:30 am - 10:00 am**  
Organic mulches in ornamental landscapes: effects on soil ecology and plant health. *Dr. Dan Herms, Ohio State University*

**Monday, 3:00 pm - 3:30 pm; Tuesday, 10:00 am - 10:30 am**  
Break with exhibitors

**Monday, 3:30 pm - 4:00 pm; Tuesday, 10:30 am - 11:00 am**  
Reduction pruning effects on decay and canopy response.  
*Dr. Ed Gilman, University of Florida*

**Monday, 4:00 pm - 4:30 pm; Tuesday, 11:00 am - 11:30 am**  
What's this new i-Tree software I keep hearing about?  
*Dr. Francisco Escobedo, University of Florida*

**Monday, 4:30 pm - 5:00 pm; Tuesday, 11:30 am - 12:00 pm**  
How trees react to stress.  
*Dr. Dan Herms, Ohio State University*

**Municipal and utility arboriculture (3.5 ISA CEUs)**

**Monday, 1:00 pm - 1:45 pm; Tuesday, 8:00 am - 8:45 am**  
Installing trees in urban areas.  
*Jim Urban, Annapolis, MD*

**Monday, 1:45 pm - 2:30 pm; Tuesday, 8:45 am - 9:30 am**  
Keeping tabs on trees: how to plan for a tree inventory.  
*Dr. Michael Andreu, University of Florida*

**Monday, 2:30 pm - 3:00 pm; Tuesday, 9:30 am - 10:00 am**  
Calculating the benefits and costs of an urban forest in Florida.  
*Dr. Francisco Escobedo, University of Florida*

**Monday, 3:00 pm - 3:30 pm; Tuesday, 10:00 am - 10:30 am**  
Break with exhibitors

**Monday, 3:30 pm - 4:00 pm; Tuesday, 10:30 am - 11:00 am**  
Urban forestry success stories coast to coast.  
*Jim Chatfield, Ohio State University*

**Monday, 4:00 pm - 4:30 pm; Tuesday, 11:00 am - 11:30 am**  
Executing a tree maintenance program in a small community.  
*Brian Kempf, Visalia, CA*

**Monday, 4:30 pm - 5:00 pm; Tuesday, 11:30 am - 12:00 pm**  
Public relations during storm response.  
*Geoff Kempter, Willow Grove, PA*



DON'T MISS THE  
**2007**  
Awards Luncheon  
Tuesday 12:00 pm - 1:15 pm

- Outstanding Professional    Outstanding Individual
- Outstanding Urban Forestry Program
- Outstanding Project    Edward W. Bok Award
- Outstanding Tree Advocacy Group
- Florida Tree City of the Year



Monday, Tuesday, 8:00 AM - 12:00 PM

## Tree basics workshop (3.5 ISA CEUs)

**Monday, 1:00 pm - 1:30 pm; Tuesday, 8:00 am - 8:30 am**  
Quality of nursery stock. *Dr. Mike Orfanedes, University of Florida*

**Monday, 1:30 pm - 2:00 pm; Tuesday, 8:30 am - 9:00 am**  
Planting and establishing trees: what's new in the last 5 years. *Dr. Ed Gilman, University of Florida*

**Monday, 2:00 pm - 2:30 pm; Tuesday, 9:00 am - 9:30 am**  
Landscape tree staking systems. *Ryan Eckstein, University of Florida*

**Monday, 2:30 pm - 3:00 pm; Tuesday, 9:30 am - 10:00 am**  
Pruning trees for long term health. *Kris Stultz, Stiles Landscape*

**Monday, 3:00 pm - 3:30 pm; Tuesday, 10:00 am - 10:30 am**  
Break with exhibitors

**Monday, 3:30 pm - 4:00 pm; Tuesday, 10:30 am - 11:00 am**  
Tree biology: the basics revisited. *Dr. Michael Andreu, University of Florida*

**Monday, 4:00 pm - 4:30 pm; Tuesday, 11:00 am - 11:30 am**  
Important insects on urban trees. *Dr. Eileen Buss, University of Florida*

**Monday, 4:30 pm - 5:00 pm; Tuesday, 11:30 am - 12:00 pm**  
Important diseases on urban trees. *Dr. Ed Barnard, Florida Division of Forestry*

7:00 AM - 3:30 PM	Registration desk/bookstore open
7:30 AM - 1:00 PM	Trade show open
7:30 AM - 1:00 PM	TREE Fund silent auction 
8:00 AM - 12:00 PM	Breakout sessions
8:00 AM - 3:30 PM	Outdoor tree school
12:00 PM - 1:15 PM	Awards luncheon
1:15 PM - 3:30 PM	General session

12:00 Awards luncheon

## General Session 1:15 PM - 3:30 PM (2.25 ISA CEUs)

- 1:15 Why trees matter - in Ohio and Florida.  
*Jim Chatfield, Ohio State University*
- 2:00 How to survive a nightmare pest infestation.  
*Dr. Dan Herms, Ohio State University*
- 2:45 Politics, policy and public relations: developing and funding an urban tree program for small communities.  
*Brian Kempf, Visalia, CA*
- 3:30 Conference ends

Outdoor

Indoor



**all day Monday  
& Tuesday until 1:00 PM!**



## OUTDOOR Tree School

### Chainsaw Mastery, Emergency Readiness and Rescue Seminars

Join fellow arborists as they demonstrate the tools and techniques of the present day tree care professional.

**Monday, 8:00 AM - 5:00 PM (7.0 ISA CEUs)**

#### Chainsaw safety, cutting and technical felling

This seminar is designed to educate anyone who uses a chainsaw about chainsaw safety, maintenance, use, and handling. Participants will gain an understanding in what contributes to accidents and how to avoid them. There is a strong focus on personal safety, risk assessment and accident prevention. PPE required. **Instructors:** Bruce Smith, North American Training Solutions • Glenn Peroni, American Tree, Lieutenant/ Paramedic Leesburg, Florida Fire Rescue • Ed Bingle, Bingle's Tree Care

**Tuesday, 8:00AM - 3:30 PM (5.75 ISA CEUs)**

#### Emergency readiness and high angle rescue

Morning Program: Sam Kezar will present findings from research conducted with Dr. John Ball of South Dakota State University and ArborMaster Training. Interactive discussion will follow the indoor portion of this seminar. Afternoon Program: Instructors will demonstrate three rescue scenarios such as Palm/ Pole, Open Canopy, and Redirected with injuries of varying degrees. Participants may be asked to join in, so bring your PPE and your climbing gear.

**Instructors:** Sam Kezar, Kezar Treez and Adjunct Instructor University of Minnesota • Bruce Smith, North American Training Solutions • Glenn Peroni, American Tree, Lieutenant/Paramedic Leesburg, Florida Fire Rescue

## Conference-at-a-glance

Date & Time	Event
<b>Saturday, June 9</b>	
8:00 AM - 4:00 PM	Registration desk open
8:00 AM - 4:00 PM	Bookstore open
8:00 AM - 10:00 AM	Mandatory TCC contestants meeting
8:30 AM - 4:30 PM	Urban forestry field study
9:00 AM - 4:00 PM	ISA certification exam review session
9:00 AM - 4:00 PM	Tree Academies - Hurricane and Risk assessment
11:00 AM - 3:30 PM	Tree Climbing Championship

<b>Sunday, June 10</b>	
7:30 AM - 3:00 PM	Registration desk open
7:30 AM - 12:00 PM	ISA certification exam
8:00 AM - 12:00 PM	Deep sea fishing
8:00 AM - 4:00 PM	Tree Climbing Championship
9:30 AM - 1:00 PM	Family Fun Field Day
12:00 PM - 3:00 PM	Indoor trade show setup
6:00 PM - 7:30 PM	Sunday Barbeque

<b>Monday, June 11</b>	
7:00 AM - 5:00 PM	Registration desk open
7:00 AM - 5:00 PM	Bookstore open
7:30 AM - 5:00 PM	Trade show open
7:30 AM - 6:00 PM	TREE Fund silent auction
8:00 AM - 12:00 PM	General education session
8:00 AM - 5:00 PM	Outdoor tree school
10:00 AM - 10:30 AM	Break with exhibitors
12:00 PM - 1:00 PM	Lunch and visit with exhibitors
1:00 PM - 5:00 PM	Breakout sessions
3:00 PM - 3:30 PM	Break with exhibitors
5:00 PM - 6:00 PM	Monday reception with exhibitors
8:00 PM - 10:00 PM	Hospitality suite

<b>Tuesday, June 12</b>	
7:00 AM - 3:30 PM	Registration desk open
7:00 AM - 3:30 PM	Bookstore open
7:00 AM - 7:45 AM	TCIA Breakfast
7:30 AM - 1:00 PM	Trade show open
7:30 AM - 1:00 PM	TREE Fund silent auction
8:00 AM - 12:00 PM	Breakout sessions
8:00 AM - 3:30 PM	Outdoor tree school
10:00 AM - 10:30 AM	Break with exhibitors
12:00 PM - 1:15 PM	Awards Luncheon
1:15 PM - 3:30 PM	General education session
3:30 PM	Conference adjourns

## Tree Care Industry Association Member Breakfast

**Tuesday, 7:00 AM - 7:45 AM**

TCIA members and commercial arborists interested in membership are invited to share breakfast with Don Staruk, managing editor of TCI magazine.

Confirm attendance at

1-800-733-2622 or Cyr@tcia.org



## Conference Hotel Reservations

Space is limited so make reservations early.  
Special Trees Florida room rate expires  
**May 18, 2007**  
or when room block is filled.

**\$119 (Standard guest room)**

**\$129 (Junior suite)**

**\$139 (One bedroom suite)**

**\$279 (Two bedroom suite)**

For reservations call toll free: (800) 456-2000

Resort phone: (727) 942-2000

### Directions to Resort:

Innisbrook Resort and Golf Club

36750 US Hwy 19 N

Palm Harbor, FL 34684

[www.innisbrookgolfresort.com](http://www.innisbrookgolfresort.com)

### FROM MIAMI

Take Alligator Alley across the state. Proceed north on Interstate 75 to Interstate 275 and cross the Skyway Bridge to St. Petersburg. Continue on I-275 North and then onto Florida Highway 686 West (Exit 30). Cross the Bayside Bridge to Florida highway 60 West. Take U.S. Highway 19 North and the resort is ahead on the left.

### FROM TAMPA INTERNATIONAL AIRPORT

Take the exit to leave the Airport on the right. Follow the signs and take the Clearwater exit. Take Florida Highway 60 West (Courtney Campbell Causeway) for approximately 13 miles to US Highway 19 North. The resort is approximately 11 miles on the left.

### FROM ORLANDO

Take Interstate 4 West to Tampa. Then take Interstate 275 South to St. Petersburg. Exit right at Tampa Airport and continue to Florida Highway 60 West to US 19 North. The resort is 11 miles ahead on the left.

### FROM NORTHEAST

Take Interstate 95 South to Jacksonville. Then take Interstate 295 South to Interstate 10 West. Then take US 301 South towards Gainesville. Turn right on 24 West to Interstate 75 South. Take Florida Highway 56 (Exit 275) to Highway 54. Turn left on US 19 and proceed for 8.3 miles. The resort is on the right.

# Trees Florida

## Conference & Trade Show

CEUs available ISA, FNGLA, FDACS and others



### Registration Form (One person per form please)

Name \_\_\_\_\_ ISA/FUFC Member # \_\_\_\_\_

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_ County \_\_\_\_\_

Phone ( ) \_\_\_\_\_ Fax ( ) \_\_\_\_\_ E-mail \_\_\_\_\_

Category:  Commercial Arborist  Utility Arborist  City/County Employee  State/Federal Employee  Consultant  Landscape Architect  Other

Pre-registration postmarked by May 30 or pay late registration at the door

	Member*	Non-Member	Total
<input type="checkbox"/> Saturday, June 9 pre-conference Tree Academy (late registration add \$25) includes breaks, Sat. lunch Choose one <input type="checkbox"/> #1 - Post hurricane strategies <input type="checkbox"/> #2 - Tree risk assessment <input type="checkbox"/> #3 - Urban forestry field study <input type="checkbox"/> #4 - ISA certification review session	\$155	\$185	\$
<input type="checkbox"/> Sunday, June 10 Deep sea fishing (Call if bringing child 5 and under)	Adult \$43	\$43	\$
	Child, ages 6-12 \$30	\$30	\$
<input type="checkbox"/> Full indoor conference (late registration add \$50) - includes Sunday BBQ, Monday lunch, Monday exhibitor reception, Monday and Tuesday educational sessions, Tuesday Awards luncheon	\$240	\$290	\$
<input type="checkbox"/> Monday, June 11 indoor only (late registration add \$25) - includes Monday lunch and Monday exhibitor reception	\$155	\$185	\$
<input type="checkbox"/> Tuesday, June 12 indoor only (late registration add \$25) - includes Tuesday Awards luncheon	\$155	\$185	\$
<input type="checkbox"/> Awards Luncheon (guest) - Tuesday	\$40	\$40	\$
<input type="checkbox"/> Full Outdoor Tree School, Monday and Tuesday (late regist. add \$50) - includes Sunday BBQ, Monday lunch, Monday exhibitor reception, Monday and Tuesday educational sessions, Tuesday Awards luncheon	\$240	\$290	\$
<input type="checkbox"/> Outdoor Tree School and indoor conference combo (late regist. add \$50) - includes Sunday BBQ, Monday lunch, Monday exhibitor reception, Monday and Tuesday educational sessions, Tuesday Awards luncheon Choose: Indoor education ( <input type="checkbox"/> Monday or <input type="checkbox"/> Tuesday ) and Outdoor education ( <input type="checkbox"/> Monday or <input type="checkbox"/> Tuesday )	\$240	\$290	\$
<input type="checkbox"/> Outdoor Tree School, Monday or Tuesday (late regist. add \$25) - includes lunch <input type="checkbox"/> Monday <input type="checkbox"/> Tuesday	\$155	\$185	\$
<b>If you register for the conference at <a href="http://www.treesflorida.com">www.treesflorida.com</a>, you may win a 2008 full conference registration.</b>		 TREE Fund donation (optional) \$10	
		<b>Grand Total \$ _____</b>	

#### Method of Payment

Amex 4 digit code (on front of card) \_\_\_\_\_

Check/PO# \_\_\_\_\_  Mastercard  Visa  Amex Card# \_\_\_\_\_ 3 digit code (on back of card) \_\_\_\_\_

Exp. Date \_\_\_\_\_ Name (as it appears on card) \_\_\_\_\_

Card billing address \_\_\_\_\_ City/State/Zip \_\_\_\_\_

Signature \_\_\_\_\_

<input type="checkbox"/> Please make your check payable to: <b>Trees Florida</b>	<input type="checkbox"/> <b>Cancellation and refund policy:</b> Refund will be made if requested at least 2 weeks prior to conference. No requests for refunds will be honored less than 2 weeks prior to conference. Substitutions permitted.	<b>*ISA/FUFC Members</b> Save \$\$\$!! Bring up to 3 employees at the member rate.
<input type="checkbox"/> Send completed form and check/PO # to: 7853 South Leewynn Court Sarasota, FL 34240 Phone (941) 342-0153 Fax (941) 342-0463		

## Trees Florida



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Florida Chapter ISA  
7853 South Leewynn Court  
Sarasota, FL 34240

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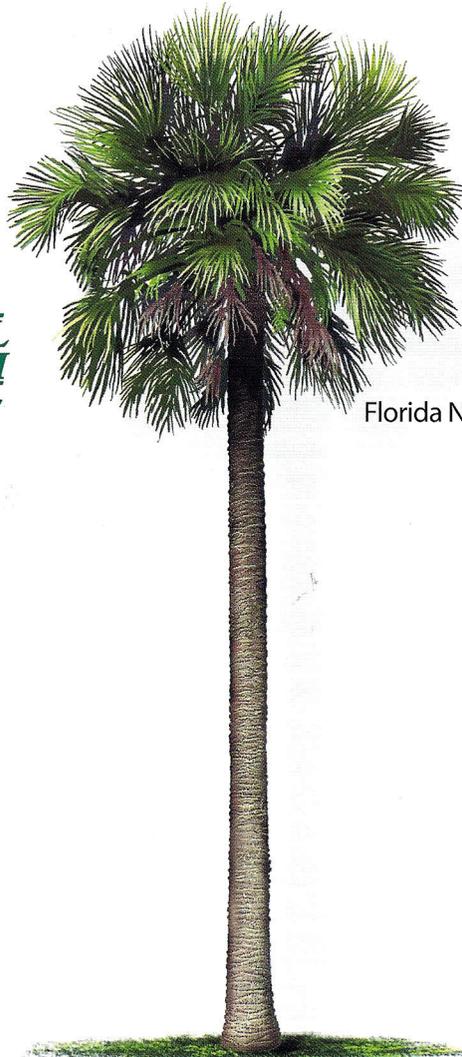


### Gold



### Silver

AMERISAFE, Inc.  
Cherry Lake Tree Farm  
Earth Advisors, Inc.  
Ground Effects Landscape  
Maintenance Inc.  
Nelson Tree Service, Inc.



## Exhibitors

Accuplastics Inc.  
ACRT, Inc.  
Altec  
American Arborist Supplies  
Davey Resource Group  
Florida Chapter ISA  
Florida Nursery, Growers and Landscape Association  
Florida Urban Forestry Council  
Forestry Resources, Inc.  
Green Manufacturing, Inc.  
Horticultural Alliance Inc.  
John Deere Landscapes  
Karl Kuemmerling, Inc.  
Marshall Tree Farm  
Morbark, Inc.  
Natural Resource Consulting  
NRPS, Inc.  
Nelson Tree Service, Inc.  
North American Training Solutions  
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Professional Tree Care  
Roots Plus Growers Association  
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Tree Care Industry Association  
Vermeer Southeast

If you are interested in sponsoring or exhibiting  
at Trees Florida 2007 please  
E-mail FUFC@aol.com or call (407) 872-1738

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register online @ [www.treesflorida.com](http://www.treesflorida.com)