

## Fall 2006

### In This Issue:

Riders Pay Tribute to John White	1
President's Message	2
In the News	3
Letter to the Editor	4
Education Schedule	5
Florida Chapter Tree Climbing Competition	6
Tree Protection and Construction	7
Florida Chapter Education Update	8
Arborist Committee Certification Report	9
Florida Chapter Board Nominations	9
Trees Florida 2006 Awards	10
Certification Exam Schedule	11
New Chapter Members	12
Board Updates	13
Membership Committee	13
"Tree" License Plate	14
Trees Florida 2006	14
Potassium Deficiency in Palms	15
Tips When Using a Chainsaw	16
Consejos Cuando Trabajas con la Motosierra	17
Soil Compaction & Trees	19
Consultant's Corner	21
Licensure Committee	23

## Tour de Trees Riders Pay Tribute to John White



*Tour de Trees Riders pose in front of John White's memorial tree at Leu Gardens in Orlando*

Six Tour Des Trees riders arrived at the Trees Florida 2006 conference from all over the U.S. They organized a 'Mini Tour' themselves to honor and pay tribute to John White. John White passed away while riding in last years Tour Des Trees. Each was wearing a different jersey from each year that John rode in the Tour Des Trees. They were introduced at a general assembly of the conference, and the specifics of their special Mini Tour were described. Harry Banker, Stuart

Crow, Andy Kittsley, Dick Maloney, Tim Womick and Paul Wood talked about the TREE Fund and John's life projects and dedication to the TREE Fund, the Florida ISA and the Florida Urban Forestry Council. This ride was to honor John. They were sent off with a fanfare and a standing ovation. They left Fort Myers Florida at 1:30 pm on the final day of the conference and arrived at John's memorial tree at Leu Gardens in Orlando on Wednesday at around 2:30pm (230 miles). ■

# A Message From the President



Then the rains came. The summer and the rainy season have kicked in. The trees in Florida have sighed in relief from the spring drought and fires. Tropical storms and hurricane creation have been less than expected. These are good summer things!

I certainly hope anyone who attended Trees Florida 2006 enjoyed my hometown of Fort Myers and Lee County. All the comments I received from a large variety of participants and speakers about this year's conference were overwhelmingly positive. The

educational program was nothing short of awesome. We were very fortunate to have some heavy weights (no pun Dr. Coder!) in the sciences, law and education of trees.

A great level of appreciation must hardly be extended to Dr. Ed Gilman, the Trees Florida 2006 education committee Chair, and the Trees Florida 2006 planning committee members for the all out effort to bring such high quality programming to this conference. I understand speakers are already being secured for Trees Florida 2007. Be sure you plan early to go if you can!

I was thrilled that even with a tropical system brewing in the Gulf of Mexico we were able to successfully hold and complete the Chapter's Tree Climbing Champion-

ships (FCTCC) at the Edison-Ford Winter Estates. The Florida Chapter members sincerely appreciate Kris Stultz, the FCTCC Chairman and his hard working volunteers in making the FCTCC happen.

Some big congratulations extended to Chris Meitner, the ISA Florida Chapter TCC Champion, who went on to represent us at the International TCC in Minnesota. Congratulations are also forwarded to Zach Perry, Eli Villagran and Ed Bingle who also were part of the Florida Chapter's Masters Challenge. Of course, thanks to all the judges, assistants, participants and onlookers for making the FCTCC a success.

There could not be a better time to become active in the 10th year of your ISA Florida Chapter. Green industry and environmental issues are hot topics in all of Florida. Your chapter is actively engaged on important issues that effect trees and ultimately the quality of life in our beautiful state. It is clear that property owners, developers, property owner's associations, community districts, and local governments are getting more educated and more serious about tree care and landscape maintenance. Keep informed and please get or stay active to make our chapter even better.

In my welcoming remarks at Trees Florida, I provided some tree related quotations that I thought were profound and thought provoking. ISA Florida Chapter Board member Dave Reilly, an arborist from the City of Tampa, requested the details on one of those quotes and I thought I would share it here.

"God has cared for these trees, saved them from drought, disease, avalanches and a thousand tempests and floods. But he cannot save them from fools." John Muir

Lastly, and how could I forget this quote.... yelled very loudly...

"ARE YOU GUYS READY TO LEARN SOMETHING ABOUT TREES?"

Dr. Kim Coder

*Rick Joyce, President*

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# In the News

## Ryan Eckstein Receives First John P. White Memorial Scholarship

Congratulations to Ryan Eckstein for being the 2006 John P. White Memorial Scholarship recipient. Ryan is currently working on his Master's under Dr. Ed Gilman in the Environmental Horticulture Department at the University of Florida. Specifically, Ryan is investigating how 13 tree stabilization systems respond to wind loading. Ryan plans to continue on to a PhD, and eventually would like to become an arboriculture professor in the state of Florida. The Chapter wishes Ryan the best on all of his future endeavors.

## USDA, HRI Will Research Biodegradable Pots

Horticultural Research Institute (HRI) and USDA's Ag. Research Service will fund a study to develop biodegradable nursery containers. The goal is to make pots that can be recycled or composted. Initial research in the 3-year project will focus on feather-derived plastics from poultry-industry waste. The agreement gives HRI, the research division of American Nursery and Landscape Association, the option to

negotiate exclusive production licenses for products developed from the project.

## Rare Chestnut Tree Discovered in Georgia

Along a hiking trail on Pine Mountain in Albany, Ga., a stand of American chestnut



trees were recently discovered. The trees have created excitement among the scientists who have been working to restore American chestnut trees since

they were nearly wiped out in the early 1900s by a fungus.

Experts believe that the trees on Pine Mountain may have survived the blight due to the dry, rocky ridge on which they grow – the fungus that devastated so many chestnuts in the past, thrived in a moist environment.

The Georgia Chapter of the American Chestnut Foundation hopes to use pollen from the trees in a breeding program to develop blight-resistant chestnut trees.

“When the flowers are right, we're going to rush down and pollinate the flowers, col-

lect the seeds a few weeks later and collect the nuts,” said Nathan Klaus, a biologist with the Georgia Department of Natural Resources. “If we ever find a genetic solution to the chestnut blight, genes from that tree will find their way into those trees.”

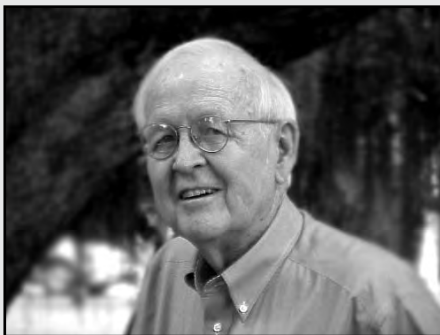
There were once an estimated 4 billion American chestnut trees in the eastern United States, making up 25 percent of the forests.

## Groups Explore Oak Rooting, Hybridization

Cornell Univ. and the Landscape Plant Development Center in Mound, Minn., have teamed to produce and evaluate new oak hybrids for urban plantings. Cornell is also developing a better means of rooting oaks. “Basil shoots are collected and rooted in complete darkness,” said project leader Nina Bassuk. The hybridization work involves crossing deciduous oaks with evergreen oaks and cross-breeding native northern white oaks with white oak species from across the United States, North Africa, Asia and the Mediterranean. Some of the 200 combinations of oaks started at Cornell are already 6 feet tall. The goal is developing shorter trees that withstand tough, urban conditions including heat, drought, compacted soils, salt, and high pH.

*(In the News continued on page 4)*

## SELMER UHR REMEMBERED



**Selmer Uhr** of Altamonte Springs passed away on Friday, July 14, 2006. Selmer was a friend to many

people in the tree industry not only in Florida but around the country as well. He was a Registered Consulting Arborist with the American Society of Consulting Arborists. He was a mentor to aspiring young consultants at the ASCA academy as well as consulting arborists around the state.

Selmer was professionally trained in Forestry. He graduated from Yale University with a Masters Degree in

Forestry Economics in 1957. Selmer spent 45 years working with trees. He was in commercial forestry for 20 years and then spent 25 years as a consulting arborist. In 2005, he was awarded the Edward W. Bok lifetime achievement award at the Trees Florida annual conference. Selmer is survived by his wife Ellen, three children, and 11 grandchildren. He will be sorely missed by us all. ■

*(In the News continued from page 3)*

### Florida Issues Red Palm Mite Alert

Fla. Dept. of Ag. and Consumer Services warned growers to be on the lookout for red palm mite, *Raoiella indica*. This pest of areca, date and coconut palms is a widespread problem throughout tropical and subtropical regions of the Old World. It has also been found infesting banana plants, heliconias and gingers. It was first found in the eastern Caribbean in 2004 and to date has been found on the islands of St. Lucia, Dominica, Trinidad and Hispaniola. The mite is bright red with long spatulate setae. All life stages, including eggs, are red and adult females often have small black patches on their backs.

### Leaf Scorch Impacting Urban Trees

"Bacterial leaf scorch (BLS) is severely affecting established urban shade trees in many communities," said America Phytopathological Society plant pathologists. Ann Brooks Gould, Rutgers Univ. associate ext. specialist, said "BLS affects up to 35% of susceptible street and landscape oaks in some central New Jersey neighborhoods." BLS infects many shade trees such as American elm, red maple, sweet gum, sycamore, London plane and many oak species. The disease is found in landscapes, street plantings and small woodlots throughout the East and as far west as Texas. *Xylella fastidiosa*, the BLS bacterial pathogen, has a wide host range including landscape ornamentals and weeds. It spreads via insects, mainly sharpshooters.

### Florikan Wins EPA Environmental Award

U.S. Environmental Protection Agency (EPA) awarded Florikan E.S.A. in Sarasota, Fla., its Gulf Guardian Award, recognizing the company's production of controlled-release fertilizers, which have reduced impacts on the environment. "Florikan's commitment to the environment establishes the company as a leader in the horticulture industry by developing products that reduce nutrient inputs and runoff. The reduction of nutrient runoff to the Gulf of Mexico is a significant challenge," said Jimmy Palmer, EPA regional administrator.

### Emerald Ash Borer

Officials confirmed the presence of emerald ash borer (EAB) in Kane County, Ill. This is the first time the pest has been identified in the state. The USDA, U.S. Forest Service and Ill. Dept. of Ag. had "been preparing for this day the past 2 years," said Chuck Hartke, Illinois Ag. director. The state is conducting surveys to determine quarantine boundaries for the pest. Officials suspect EAB arrived in Illinois on illegally transported firewood from other infested areas. The pest has been confirmed in IL, MI, OH, IN, MD, VA and Ontario, Canada, since it was first discovered in North America in 2002. ■

## Letter to the Editor

### *Roots Plus Growers Seminar gets an A+*

Hi,

I'm real glad that I attended the 10th Annual Roots Plus Seminar on April 27, 2006. Just the tour of Marshall Tree Farm was well worth attending. Each break out section was so informative; all of the instructors did a great job.

(Norm Easey's) 3 Golden rules for tree staking were great. (Your) field example showing how to correctly plant a tree, and anchor the root ball, was well done. ....we all appreciate what you and each instructor do at these seminars. Keep up with the good work.

*Sincerely,*  
Terrell E. McCombs  
FL-ISA Member

*Please let us know what you think about Florida Arborist articles, about your Florida Chapter or about tree issues in general. E-mail your thoughts to [Floridaisa@comcast.net](mailto:Floridaisa@comcast.net) or mail to*

*Florida Chapter ISA  
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***Rules: Letters should be no longer than 300 words. We reserve the right to condense letters, or edit as necessary.***

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Full Page - \$200

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## Florida Chapter ISA - 2006 Education Schedule

<b>Date</b>	<b>Subject</b>	<b>Location (s)</b>
September 26, 2006	Arborist Safety and Productivity Training After the Hurricane	St. Petersburg
September 28, 2006	Arborist Safety and Productivity Training After the Hurricane	Ft. Myers
September 19, 2006	Planting the Urban Forest - The ABC's of Tree Planting & Establishment	West Palm Beach
September 20, 2006	Planting the Urban Forest - The ABC's of Tree Planting & Establishment	Tampa
September 22, 2006	Planting the Urban Forest - The ABC's of Tree Planting & Establishment	DeFuniak Springs
October 30, 2006	Coast Series Seminar - Keys Coast	Homestead
October 31, 2006	Coast Series Seminar - Lee Island Coast	Ft. Myers
November 13, 2006	Coast Series Seminar - First Coast	Jacksonville
November 14, 2006	Coast Series Seminar - Disney Coast	Orlando



### Employment Opportunities with Davey Resource Group

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#### Inventory Arborist

An entry-level urban forester position involves working as a member of one of our project teams, conducting street tree and park tree inventories for communities throughout Florida. Applicants must have a minimum two-year degree in forestry, urban forestry, arboriculture, or related degree. Excellent tree identification skills and computer literacy required.

#### Contact:

**Joseph Gregory**  
*Urban Forestry Services Coordinator*  
[jgregory@davey.com](mailto:jgregory@davey.com)  
800-828-8312, ext. 24  
330-673-0860 (fax)

#### Utility Arborist / Field Inspector

A utility arborist position involves working as a liaison with a utility and its line clearance contractor. Other duties include notifying property owners of pending work, patrolling ROWs and prescribing vegetation management needs, and participating in storm assessment and restoration efforts. Candidate must have background in forestry, horticulture, or related field. Excellent tree identification skills and computer literacy required.

#### Contact:

**Jason McRobert**  
*Project Manager*  
[jmcrobert@davey.com](mailto:jmcrobert@davey.com)  
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## 2006 Florida Chapter Tree Climbing Competition

I want to congratulate all the competitors, judges and everyone who worked so very hard behind the scenes to make the 2006 Florida Chapter Tree Climbing Competition [FCTCC] such a great success. Even with the weather less than perfect, everyone involved with this year's event did their best to provide spectators and competitors with a fantastic show.

I would like to take this opportunity to thank the following vendors, tree companies, and corporations for providing outstanding prize packages and volunteering their time at this year's FCTCC. Bruce & Lita Smith, Arborscape; Don Winsett, Stiles Corporation; John Harris, Earth Advisers; Don Green, HS Tree Care; Yale Cordage, Sherrill Tree, Asplundh Tree Experts; Darcy Meagher, A Budget Tree Service; and Mary Edwards, ValleyCrest. Without the efforts and contributions by these and other individual businesses serving the Florida market place, this year's FCTCC would not have been such a success.

This year's FCTCC title was won for the unprecedented fourth consecutive year by Chris Meitner. The Masters Challenge was a very close call, each individual competitor displayed skills and techniques that set them apart as truly outstanding climbers. 21 total points separated 3rd place from 1st, in a climbing event held in troubling weather to say the least. The final results of the FCTCC were:

### Master's Challenge

- 1st Chris Meitner
- 2nd Zach Perry
- 3rd Eli Villagran

### Belayed Speed Climb

- 1st Eli Villagran
- 2nd Zach Perry
- 3rd Doug LaFortune

### Throwline

- 1st Eli Villagran
- 2nd Zach Perry
- 3rd Doug LaFortune

### FootLock

- 1st Doug LaFortune
- 2nd Eli Villagran
- 3rd Chris Meitner

### Aerial Rescue

- 1st Scott Olson
- 2nd Ed Bingle
- 3rd Brian Gould

Weather aside, we had a great turn out of competitors. The sportsmanship shown by all was inspiring, to both chapter membership and spectators. To all who have an interest in becoming a part of our chapter's TCC, please

contact the Florida ISA office and I will be in contact within the next few weeks. Again thank you to all those who worked so very hard to make this event a success. I look forward to seeing everyone again next year; please continue to support the Chapter and the FCTCC.

Thank you,  
Kris Stultz,  
*FCTCC Chairman 2006-2008* ■

## 2006 International Tree Climbing Championship Results Minneapolis, MN

### Men's Final

- Champion- Bernd "Beddes" Strasser, Gom-Dapfen, Germany
- 2nd place- Ronny Epple, Dapfen, Germany
- 3rd place- Mark Chisholm, Freehold, New Jersey, US
- 4th place- Dan Kraus, Seattle, Washington, US

### Women's Final

- Champion- Elena O'Neill, Dunedin, New Zealand
- 2nd place- Kathy Holzer, Seattle, Washington, US
- 3rd place- Chrissy Spence, Gisborne, New Zealand



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# Tree Protection and Construction

*David Reilly*

*Forester Examiner, City of Tampa  
ISA Fl-Chapter Municipal Arborist Rep.*

One of the daunting challenges faced by many municipal arborists is tree preservation on both residential and commercial construction sites. Inherently, construction sites with trees have conflict problems such as: utility location, building footprints and heights, driveways, sidewalks, parking lots and grading. As a municipal arborist responsible for protecting and enhancing the urban forest, wouldn't it be nice if we did not have to worry about the accuracy of the tree survey. As most manuals on this topic will state, it all starts with the tree survey. If the survey is accurate, we can concentrate on the actual plan review. Unfortunately, my experience indicates that only a small percentage of the site plans with tree surveys are correct.



Requiring site surveys that contain trees to be reviewed by a certified arborist is a solution that would allow the municipal and private arborist to mutually benefit, and in the long run this would be enormously beneficial to the urban forest. Requiring verification of a tree survey by a certified arborist creates new prospects for work. As most of the tree survey manuals suggest, involving an arborist in the early stages of the project is a key ingredient for the success of tree preservation. The urban forest benefits because we are now saving better trees and trees that will have a higher chance of survival. This is contrary to developers saving trees to meet a specific number regardless of health and condition. Furthermore, it relieves a huge burden from the municipal arborist, as the time

saved from not visiting a site to verify a tree survey can be better spent on developer and homeowner education about tree care.

However, this is a short-term solution. The problem needs to be addressed through the surveyors themselves. Tampa's Division of Natural Resources had an opportunity to conduct a seminar at the Florida Mapping and Surveying Society's Regional Conference in 2004. It became evident while talking to some of the participants that they follow a technical manual on measuring trees. One significant difference is how they measure multi-stemmed and co-dominant trees diverging at or below DBH (diameter at breast height; 4.5 ft); they are directed to measure each stem, which get portrayed as multiple trees on the site plan when in fact it is one tree.

Tree identification is another area that has to improve as well. Besides being burdensome to the municipal arborist, working with an inaccurate tree survey can be very costly to the developer as well. Ultimately, we will need to work with the Florida Mapping and Surveying Society so they can provide the municipal arborist with the accurate and necessary information to do our reviews efficiently with minimum site visits. ■

## Profit Centers Available

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## Florida Chapter Education Update

Michael Marshall

Education Committee Chair

Trees Florida, our biggest educational event of the year, was again a great success. For those of you that don't know, we had to move and change a great deal about our Southwest Florida version of Trees Florida because of damage from Hurricane Charlie back in 2004. Obviously, the demand for a Trees Florida in that region was not dampened because this year was the biggest conference ever with over 500 attendees. The hotel, conference facilities, and TCC location were great as were the many top rate speakers from around the state and country. Thanks for attending and we look forward to seeing you at Trees Florida next year at Innisbrook.

The "Arborist Safety and Productivity: In the Aftermath of a Hurricane" workshops have been a great success so far this year and we still have a couple to go with St. Petersburg – September 26th, and Ft. Myers – September 28th. These safety workshops are a joint venture between the Florida Chapter ISA, the University of Florida and the Division of Forestry. Topics include: ANSI Z-133 Safety Standard, personal protective equipment, post hurricane tree damage scenarios and much more. One of the most exciting aspects of these opportunities is that they are partially funded by a grant from the Division of Forestry. This has enabled us to provide one of the best training opportunities in the state at less than half of the normal cost. Business owners and municipalities cannot afford to miss this one time opportunity to get this essential safety training. A special thanks to instructors Bruce and Lita Smith for all of their hard work in bringing this important training to arborists throughout Florida.

In September, the Florida Chapter ISA will be offering a brand new seminar titled "Planting the Urban Forest". This seminar will explore why the simple act of planting a tree is not always so simple. The urban forest is a dynamic place and often inhospitable to trees. In fact, the average life expectancy of a newly planted city tree is only a fraction of their normal life span! This workshop will be offered in three locations throughout the state beginning with West Palm Beach – September 19th, Tampa – September 20th and DeFuniak Springs – September 22nd. Speakers include Mr. Jim Urban and Dr. Ed Gilman. Topics will include: species selection, proper tree staking,

urban tree inventory, soil and site evaluation, urban design to fit trees, and much more. This unique workshop will feature both indoor education and outdoor demonstrations. See our ad for this seminar on page 20, or to view the full flyer go to [www.floridaisa.org](http://www.floridaisa.org).

The 2006 Education schedule will conclude this October and November with the always popular Coast Series Seminars. This year the Coast Series will be visiting Jacksonville, Homestead, Fort Myers, and Orlando. This year's program will be as good as ever with topics such as: construction damage and restoration techniques, tree biology and much more. More information, including exact dates and locations will be available in early fall.

For more information on upcoming programs visit [www.floridaisa.org](http://www.floridaisa.org) and keep your eye on the education schedule published in each newsletter. If you have any ideas or questions about Florida Chapter educational opportunities please contact me at [michael@marshalltrees.com](mailto:michael@marshalltrees.com). ■

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## Arborist Certification Committee Report

By Norm Easey, Florida Chapter Certification Liaison

Arborist Certification in Florida is continuing its rapid growth. There were 3 exams held in Florida during this quarter in Jacksonville, Ft. Myers, and DeFuniak Springs. Florida now has 1177 Certified Arborists, and 3 Board Certified Master Arborists and we are adding more and more with every exam.

The Florida Chapter would like to congratulate the following 39 Florida individuals for earning their; Arborist Certification, Utility Certification, or Municipal Certification, during the third quarter of 2006:

### Utility Arborists

Adam Helminiak, Punta Gorda, FL  
Aaron Neville, West Palm Beach, FL

### Municipal Arborists

Scott Nelson, North Port, FL

### Certified Arborists

Jeffrey Anderson, Lehigh Acres, FL  
John Beaudet, Palm Coast, FL  
Anne Benolkin, Sarasota, FL  
Beth Bolles, Cantonment, FL  
Jeffrey Bryan, Palmetto, FL  
Darla Cooper, Deerfield Beach, FL  
Steve Edgar, Sanford, FL  
Donald Filmon, Clearwater, FL  
Carol Francis, Ft. Myers, FL  
Mike Goodchild, DeFuniak Springs, FL  
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Michael McNeill, Naples, FL  
Frank Murray, Venice, FL  
Bryan Nipe, Altamonte Springs, FL  
Michael Provencher, Orlando, FL  
Todd Reich, Davie, FL  
Michele Russo, Sarasota, FL  
Darrin Salvador, Jacksonville, FL  
Arthur Smith, Jacksonville, FL  
Peter Soety, Tallahassee, FL  
Rhiannon Stover, Dade City, FL  
Kenneth Sullivan, Riviera Beach, FL  
Michael Taulman, Pompano Beach, FL  
Donald Vincent, Port St. Lucie, FL  
Thomas Weintz, Deltona, FL  
Brian Wiebler, Tallahassee, FL  
Kevin Wilkey, Winter Springs, FL

## Florida Chapter Board Nominations

The Florida Chapter is seeking nominations for the Board of Directors. Board positions up for election in Fall 2006 include **Vice President, Secretary, Consulting Arborist** and **Educator**. All nominees must be committed to attend at least 5 Board of Directors Meetings throughout the state each year. Nominees should be further willing to be actively involved in Chapter events throughout the year.

Nominees for **Vice President** will be running to fill a 4-year term. The term includes the position of Vice President in 2007, President Elect in 2008, President in 2009, and Past-President in 2010. Nominees for Secretary will be elected to fill a 2-year term from 2007 to 2008. Nominees for **Consulting Arborist** must work in the field of arboriculture as a consultant and will be elected to fill a 3-year term from 2007 to 2009. Nominees for **Educator** should work in the education field of horticulture and/or arboriculture, and will be elected to fill a 3-year term from 2007 to 2009.

All nominations should be sent to the Florida Chapter office. Please submit nominations by October 15th, 2006.

All nominees must be Florida Chapter members. ■



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## Trees Florida 2006 Awards

Every year at the Trees Florida Conference, the Florida Chapter and the Florida Urban Forestry Council hand out the Edward W. Bok Awards, and awards for Outstanding Professional, Outstanding Individual, Outstanding Tree Advocacy Group, 2005 Florida Tree City of the Year, Outstanding Urban Forestry Program, and Outstanding Project. Here are this year's results:

### Outstanding Professional: Greg Brown, City of Largo



Greg began his career with the City of Largo in 1997 as the foreman for Largo Central Park. Promoted to Parks Superintendent in 2000, he has challenged his staff to become certified arborists. Greg is a champion for all projects that impact the enhancement and maintenance of the City's tree canopy. Under Greg's leadership as Park's Superintendent, the City has adopted an urban forest master plan. Over the next five years, 5,000 trees will be planted to restore the City's tree canopy.

### Outstanding Individual: Denny Scott, City of Orlando



Denny has worked for the City of Orlando Parks Division for 26 years, 21 years as Division Manager. Denny is responsible for over 104 parks, public buildings, medians and right-of-ways throughout the city. After the 2004 hurricanes, he developed a 10,000 Tree Initiative to allow individuals and organizations to help restore the tree canopy. He is the leader that has changed the City of Orlando's tree canopy and improved the citizen's quality of life. He has fought the political battle to plant fewer, but better quality and properly maintained trees. His motto is to spend half as much on installation, not to over plant and to set aside funds for future maintenance.

### Outstanding Tree Advocacy Group: The Windermere Tree Board



The Windermere Tree Board is a ten member volunteer group that has been in existence for twelve years. Members of the Board write and administer tree related grants for the community. The Windermere "Treebute" celebrates urban trees and includes outdoor booths, art for sale, live music, face painting and even Radio Disney. The Board sponsors two tree adoptions annually, holds educational workshops, has authored articles for the town's newspaper and helped the City obtain Tree City designation.

### Edward W. Bok Award: Dr. Ed Gilman



Ed received his PhD from Rutgers University in 1980 in forest pathology. He is currently a professor with the Environmental Horticulture Department at the University of Florida. Ed conducts educational programs on tree selection, urban design, nursery production and urban tree management nationwide and has taught in seven countries. He teaches a biannual arboriculture class and has a massive web site on urban tree management. Ed has won numerous awards and accolades, and has authored six books and numerous CD Roms.

### Outstanding Urban Forestry Program: The City of Altamonte Springs



The City of Altamonte Springs is committed to its comprehensive Urban Forestry Program. It has been a Tree City USA for the last 15 years and spends \$5.50 per resident on urban forestry projects. The City recently replaced its antiquated inventory program with a modern system that allows for greater recordkeeping, including laptop computers for field updating. The City has its own Neighbor Grants programs, which requires a 50/50 match with neighborhoods. The City also celebrates Arbor Day with a tree give-a-way in two locations.

### 2005 Florida Tree City of the Year: Sarasota County



A Tree City USA since 1991, Sarasota County has developed and launched an interactive website for homeowners, developers, builders, teachers, students and the general public ([www.scgov.net/forestry](http://www.scgov.net/forestry)). Sarasota County has hosted several community-wide tree events including Ultimate Pruning with the ISA, the Child Education Forum, and Awards at Marie Selby Botanical Gardens. Sarasota County's comprehensive tree inventory, completed in 2005, covers 54,000 right-of-way and publicly owned street trees. Sarasota County has 73 Street Tree Projects, 38 Neighborhood Street Tree Projects and 61 canopy roads (maintained and protected).

*(Trees Florida 2006 Awards continued on page 11)*

*(Trees Florida 2006 Awards continued from page 10)*

**Outstanding Project: A Tree-Mendous Giveaway - Charlotte County Extension Service**



A significant number of trees were lost in the 2004 hurricane season in Charlotte County. A Tree-Mendous Giveaway was funded with a two year \$120,348 Urban and Community Forestry Grant, and focused on tree distribution linked with an educational component. The Tree-Mendous Giveaway created a marketing brochure for the kick off booth at the Home and Garden show, and trained volunteer master gardeners to man the four learning stations. 1300 trees have been adopted by the residents of Charlotte County. ■

## 2006 Certification Exam Schedule

The **FLORIDA CHAPTER** of ISA is pleased to announce our revised 2006 schedule of Certification exams and Study Guide review sessions. See the chart below for the site nearest you.

Date	Exam/Class	Location	Time	Proctor or Instructors	Last Date To Register	Cost
Nov. 18 2006	Exam	Miami-Dade Ext. 18710 SW 288 St. Homestead, FL 33030	8:00 am to Noon	George Fitzpatrick	November 1, 2006	\$125/ \$225
Sep. 25 to Nov. 13, 2006	Class	M-Dade College 11011 SW 104s Miami, FL 33176 <a href="http://www.mdc.edu/kendal/ce">www.mdc.edu/kendal/ce</a>	Mon. evenings	Contact M-D College 305-237-2161	Contact M-D College 305-237-2161	\$168
Oct. 19 Dec. 1, 2006	Class	PTEC 901 34 <sup>th</sup> St. S. St. Petersburg, FL 33711 <a href="http://www.mypotec.org">www.mypotec.org</a> (727)893-2500 ext. 1101	Tues & Thurs. 6pm to 9pm	Greg Charles, Loren Westenburger, Norm Easey	Contact PTEC	\$170
Oct. 21, 2006	Exam	Duval Co Extension 1010 N. McDuff Ave. Jacksonville, FL 32254	7:30am	Larry Figart & Becki Jordi	Oct. 6, 2006	\$125/ \$225
Dec. 2, 2006	Exam	PTEC 901 34 <sup>th</sup> St. S. St. Petersburg, FL 33711	8:00am to Noon	Greg Charles & Loren Westenberger	Nov. 17, 2006	\$125/ \$225
Dec 16, 2006	Exam	Indian River Community College 500 NW California Bl Port St. Lucie, FL 34986 Ph: 772-336-6200	8:00am to Noon	Norm Easey & Joe Sentace	Dec. 4, 2006	\$125/ \$225
Jan. 20, 2007	Exam	Orange Co. Exten. 6021 S. Conway Rd. Orlando, FL 32812	8:00am to Noon	Norm Easey & TBA	Jan. 5, 2007	\$125/ \$225

This schedule is subject to change as additional tests and review sessions may be added.

For an application to any of the exams, call the ISA Office in Champaign, IL at 888-472-8733.  
 To register for the review class call the Florida Chapter ISA at 941-342-0153.  
 To purchase an ISA Certification Study Guide, call the Florida Chapter ISA at 941-342-0153.

The ISA Illinois must receive your application & exam fees **TWELVE WORKING DAYS** prior to the exam date. **NO EXCEPTIONS!** (ISA Illinois is closed New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and the day after, and Christmas Day) **\*\*\*PREPAYMENT IS REQUIRED\*\*\*** VISA/MC/AMEX accepted. US FUNDS ONLY

# Welcome!

## New Florida Chapter Members

Here are the new Florida Chapter ISA members as of March 1, 2006. If you see a name from your area of the state, look up their phone number online\* and give them a call. Introduce yourself and find out what aspect of arboriculture the new member is involved in. Let's make the Florida Chapter friendlier. We're all working in different ways for the same goals. Get to know other chapter members. You might make some helpful connections for the future.

First Name	Last Name	City	State	First Name	Last Name	City	State
Michael	Alexander	BONITA SPRINGS	FL	Brant	Kruger	DELAND	FL
Joshua	Alzamora	NAPLES	FL	Thomas	Ladimir	FT. MYERS	FL
Jeffrey	Anderson	LEHIGH ACRES	FL	Kirk	Lenzen	DAVIE	FL
Tamera	Banks	PALM CITY	FL	Denise	Leonard	SUNRISE	FL
Robert	Billingsly	ALTAMONTE SPRGS	FL	John	LePage	BOYNTON BEACH	FL
Robert	Blair	AVENTURA	FL	Buck	Lowery	JAY	FL
Beth	Bolles	CANTONMENT	FL	Robert	Lubov	TAMPA	FL
Jeff	Bunch	CAPE CORAL	FL	Stephen	Masterson	HOLIDAY	FL
Lawrence	Busha	ROYAL PALM BCH	FL	Bruce	McNall	NAPLES	FL
Beverly	Chadwick	PONTE VEDRA BCH	FL	Dayle	Melvin	JACKSONVILLE	FL
Shawn	Chumley	NEW SMYRNA BCH	FL	David	Moore	THONOTOSASSA	FL
Clark	Converse	DADE CITY	FL	John	Mumford	KEY WEST	FL
Eddie	Cora	MIAMI	FL	Jay	Myers	SEMINOLE	FL
Betty	Davis	VERO BEACH	FL	Melinda	Napier	TAMPA	FL
Michael	Dean	FT. MYERS	FL	Ryan	Pieper	SARASOTA	FL
Aaron	Duncan	ALLENHURST	GA	Jessie	Pittman	JACKSONVILLE	FL
Jason	Dyroz	DUNEDIN	FL	Eddie	Powell	DEFUNIAK SPRGS	FL
George	Earl II	KEY BISCAIYNE	FL	Mark	Richards	ALTAMONTE SPRGS	FL
David	Ellington	PARKLAND	FL	David	Rivers	DAVIE	FL
Manuel	Escobar	HIALEAH	FL	Meredith	Rockwood	PORT RICHEY	FL
Carol	Francis	FT. MYERS	FL	Gilda	Rodriguez	MIAMI	FL
Jose	Garcia	FT. LAUDERDALE	FL	Martin	Rozens	ALTAMONTE SPRGS	FL
Mike	Goodchild	DEFUNIAK SPRGS	FL	Erik	Schmitz	WINTER SPRGS	FL
Adam	Gayson	DAVIE	FL	Theresa	Siegfried	LAKELAND	FL
Laura	Greeno	FT. MYERS	FL	Timothy	Smith	MIAMI	FL
Christopher	Griffiths	PLANTATION	FL	Kenneth	Sullivan	RIVIERA BEACH	FL
Christopher	Griggs	DUNEDIN	FL	Hector	Teran	ORLANDO	FL
Tim	Harvey	PALM CITY	FL	Danny	Thomas	LARGO	FL
Paul	Hoffman	ST. AUGUSTINE	FL	Scott	Troutman	CRYSTAL RIVER	FL
Bryan	Horn	PLANT CITY	FL	Esteban	Varas	RIO PIEDRAS	PR
Jerry	Jacobs	JACKSONVILLE	FL	Ben	Wasielewski	ORLANDO	FL
Allen	Johnston	BRADENTON	FL	Benjamin	Wells	ST. AUGUSTINE	FL
Carol	Keiper-Bennett	ST. AUGUSTINE	FL	Marc	White	ATLANTIC BEACH	FL
James	Kirkpatrick	FT. MYERS	FL	Janet	Whitmill	JACKSONVILLE	FL
Guy	Kress	MIAMI	FL	Brian	Wiebler	TALLAHASSEE	FL
				Linda	Worle	TARPON SPRINGS	FL
				City of Miami		MIAMI	FL
				University of Central Florida		ORLANDO	FL

\*Go to <http://www.isa-arbor.com>, then go to "Members Only" and log in. Then go to ISA membership directory. If you do not know your log in for members only, contact ISA headquarters at (217) 355-9411. Once you log in, you can update your address, check your CEU's, edit or verify Certified Arborist information and search the membership list.

New Florida Chapter Members

## Florida Chapter Board Updates



### Board Welcomes New Trees Florida Coordinator

The Board is pleased to announce the hiring of Patty Morrison as the Chapter's Trees Florida Coordinator. Patty started in the height of conference registration and worked through the conference wrap-up in July. Not deterred by the hectic and at times overwhelming schedule, Patty will be back to do it all over again next year.

### Committees Abound

It seems that new committees are coming out of the woodwork these days. This is surely an indication that the Chapter is hard at work. At the past Board meeting, no less than 4 new committees were created; the Partnership Committee, the Strategic Planning Committee, the Records Disposal Committee and the John P. White Scholarship Committee. Committees are open to all members, so please contact the office if you would like additional information.

### Partnering Policy to be Revamped

The Chapter has decided to rework its existing partnership guidelines into a balanced and comprehensive policy that will encourage partnership with organizations sharing similar goals. The policy overhaul will be undertaken by the newly formed Partnership Committee composed of Rick Joyce, Chuck Lippi, Janet Maland, and Mike Robinson, who is acting as chair.

### FUFC & FL-ISA Partner on Scholarship

The Chapter has decided to collaborate on the John P. White Memorial Scholarship with the FUFC. It is a natural pairing since both groups want to promote arboriculture in the state, and since John White was a dedicated member of both organizations. The FL-ISA and FUFC will create a joint John P. White Trust Fund to accrue interest and provide scholarship money in perpetuity. ■

#### The Florida Arborist newsletter

is always interested in receiving contributions from our members.

If you have an article you'd like to submit,  
please contact the office at  
941-342-0153

or email us at  
[www.floridaisa.comcast.net](http://www.floridaisa.comcast.net)

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GERALDINE HOYT

C. WAY HOYT

## Membership Committee

Hello from the Membership Committee!

It's the middle of July at the time of this writing and I long for the cooler days of fall when this article is scheduled for publication. I am also reflecting back on a very successful Trees Florida Conference. A big thanks to Henry King, all the members of the planning committee and all of the volunteers for making this one of the best conferences in a string of successful conferences.

We are one of the few chapters that offer this high quality of education in a setting conducive to making friends and networking. The success of the Trees Florida Conference makes our job on the membership committee that much easier. Of course, this is the culmination of a year of excellent educational offerings by the Florida Chapter.

I am pleased to report that the Committee has been moving forward. Foremost, is the recruitment of the newest Committee member, Christine Hamden. Also of note, Mike Robinson is in the process of reviewing the Chapter's 2005 membership survey in an attempt to determine where the Committee's efforts are best placed. Finally, we are looking for individuals that would be interested in hosting a "Meet and Greet" in their area. The idea behind the "Meet and Greet" is to bring local arborists together so that they not only meet each other, but also local Board members. As always, you can contact Mary Edwards, Christine Hamden, Mike Robinson, or myself through Norm or Patricia at the Florida Chapter office.

*David Reilly*  
*City of Tampa*  
*Municipal Arborist Rep.* ■

## Trees Florida 2006

Trees Florida 2006 has proven to be the most successful to date with a record breaking 550 attendees, hailing from 5 states. A tropical storm could not keep people away from attending the 4 day conference that was jammed-packed with excellent education sessions and a variety of fun-filled activities. Inspired by the beautiful premises of Sanibel Harbor Resort & Spa, attendees also took part in the favorite summer pastime of lounging, whether on their waterfront balcony, on the spiraling veranda, by the fabulous pool or at the bar sipping a cocktail. Without a doubt, this year's Trees Florida was a memorable one that continued the tradition of being a first-rate conference.

As with any event, there are always a number of dedicated people that make it all possible. The Florida Chapter ISA would like to extend its gratitude to all of the Trees Florida Planning Committee members, who so graciously volunteer their time and effort to ensure the success of this yearly conference. A special thank you goes out to Henry King, the Trees Florida 2006 Chair.

Although it is only September, anticipation for Trees Florida 2007 has already begun. Taking place at the favorite Westin Innisbrook Resort in Palm Harbor, the 2007 conference will be held from June 9 -12. So make it a point to mark your calendar as this will be the perfect event to kick off summer 2007. ■

### Full Speed Ahead on a "tree" License Plate

The decision was a unanimous one. At the June Board meeting, the Chapter was given the green light to pursue the creation of a "trees" license plate. The license plate committee, chaired

by Don Winsett, has already set the ball rolling by signing a contract with Dobson, Craig & Associates to conduct an independent survey to confirm that at least 30,000 tags would be purchased. The survey is a required step in the application process, and is expected to be completed in 4 months. If the survey indicates that a market for the license plate is present, the Chapter will be allowed to move forward with their application. You can help this effort by

going to [www.treesarecool.com](http://www.treesarecool.com) and indicating your intent to get a "trees" specialty plate. Check for survey results in the next issue.

If successful, a "trees" license plate will provide substantial financial return to the Chapter, which would use the income to fund education programs, and tree research. The license plate could be ready for sale as early as Fall 2007. ■

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# Potassium Deficiency in Palms

By Timothy K. Broschat,  
Professor, Environmental Horticulture Department,  
University of Florida

This article is part 2 of a 6 part series covering nutritional deficiencies in palms (Part 1 in Summer 2006 issue). This article is an edis document. It can be accessed at <http://edis.ifas.ufl.edu/EP269>

## Symptoms

Symptoms of potassium (K) deficiency vary among species, but always appear first on the oldest leaves. Older leaflets of some palms such as *Dictyosperma album* (hurricane palm) are mottled with yellowish spots that are translucent when viewed from below. In other palms such as *Dypsis cabadae* (cabada palm), *Howea* spp. (kentia palms) and *Roystonea* spp. (royal palms), symptoms appear on older leaves as marginal or tip necrosis with little or no yellowish spotting present. The leaflets in *Roystonea*, *Dypsis*, and other pinnate-leaved species showing marginal or tip necrosis often appear withered and frizzled. In fan palms such as *Livistona chinensis* (Chinese fan palm), *Corypha* spp. (talipot palm), *Washingtonia* spp. (Washington palms), and *Bismarckia nobilis* (Bismarck palm), necrosis is not marginal, but is confined largely to tips of the leaflets. In *Phoenix roebelenii* (pygmy date palm), the distal parts of the oldest leaves are typically orange with leaflet tips becoming necrotic. The rachis and petiole of the leaves usually remains green, however, the orange and green are not sharply delimited as with magnesium (Mg) deficiency. This pattern of discoloration holds for most palm species that show discoloration as a symptom.

In *Phoenix canariensis* (Canary Island date palm), leaflets show fine (1-2 mm) necrotic and translucent yellow spotting and extensive tip necrosis. These necrotic leaflet tips in most *Phoenix* spp. are brittle and often break off, leaving the margins of affected leaves irregular. In *Caryota* spp. (fishtail palms) and *Arenga* spp. (sugar palms), chlorotic mottling is minimal or non-existent, but early symptoms appear as irregular necrotic spotting within the leaflets. In most

other palms, including *Cocos nucifera* (coconut palm), *Elaeis guineensis* (African oil palm), *Dypsis lutescens* (areca palm), *Chamaerops humilis* (European fan palm) *Hyophorbe verschafeltii* (spindle palm), and others, early symptoms appear as translucent yellow or orange spotting on the leaflets and may be accompanied by necrotic spotting as well. As the deficiency progresses, marginal and tip necrosis will also be present. The most severely affected leaves or leaflets will be completely necrotic and frizzled except for the base of the leaflets and the rachis. For all palms, symptoms decrease in severity from tip to base of a single leaf and from old to new leaves within the canopy. In severe cases, the entire canopy will consist of a reduced number of leaves, all of which will be chlorotic, frizzled, and stunted. The trunk will begin to taper (pencil-pointing) and death of the palm often follows.

## Cause

Potassium deficiency is caused by insufficient K in the soil, but can be induced or accentuated by high N:K or Ca:K ratios in the soil. Potassium is readily leached from sand or limestone soils which have very low cation exchange capacities.

## Occurrence

Potassium deficiency is very common on palms grown in highly leached sandy soils. It is less common in container substrates. Potassium deficiency is perhaps the most widespread of all palm nutrient deficiencies, occurring in most palm-growing regions of the world. It is quite severe in southern Florida and much of the Caribbean region. Although most species of palms are susceptible to some degree, genera such as *Veitchia*, *Ptychosperma*, *Adonidia*, and *Archontophoenix* are notably resistant to K deficiency. Potassium deficiency is the leading cause of mortality in *Roystonea* growing in southern Florida landscapes.

## Diagnostic Techniques

Visual symptoms alone may be sufficient for diagnosis of this disorder, although leaf nutrient analysis may be helpful in distinguishing late stage K deficiency from manganese (Mn) deficiency. These two deficiencies can be extremely similar from a distance, but close examina-

(Potassium Deficiency continued on page 18)

*The following article is provided in English and Spanish and is intended for you to copy and give to your employees and/or crew.*

## **THINK OF YOUR FAMILY: "TIPS WHEN USING A CHAIN SAW"**

*Henrique Mayer, Miami-Dade IFAS Extension Agent,  
ISA Hispanic Committee  
Based on the American Red Cross Fact Sheet: "Using a  
Chainsaw Safely."*

The peak of the Hurricane season is fast approaching. Although this peak will bring more work to your company, it will also heighten the risk of on-site injury, particularly those occurring from chain saws. According to the U.S. Consumer Products Safety Commission there were more than 33,000 chain saw related injuries in 1998. To minimize potential chain saw accidents, it is very important to take into consideration these useful tips.

First and foremost, always read the chain saw manual that comes with your equipment. Wear the Personal Protective Equipment (PPE) when using a chain saw. These are required by the U.S Occupational Safety and Health Administration (OSHA) reg. 1910.2669, and consist of either a hard hat (if you work from the ground) or helmet (when climbing the tree), cotton or leather gloves, chain saw chaps or chain saw protective pants, a pair of chain saw protective work boots with steel toes, protective glasses, face shield, and mufflers or ear plugs.

Approximately 20% of all chain saw injuries are related to kickback. Kickback occurs when the area near the upper quadrant of the tip of the guide bar contacts an object. It may cause a very fast upward action of the chain saw back toward the operator. In order to reduce kickback, you can use a reduced kickback bar and low kickback chain, avoid contact between the bar tip and any object, perform all cutting while standing to the side of the chain saw, hold the chain saw firmly with both hands, do not over-reach, do not cut above shoulder height, check the chain brake frequently, and follow sharpening and maintenance instructions for the chain saw.

Make sure that your chain saw has a chain brake (manual or inertia), chain catcher, safety throttle switch, on/off switch, and spark arrester. Don't forget to fill a gas-powered chain saw

when the engine is cool. If the saw is out of gas, let it cool 30 minutes before refueling. Do not smoke when refueling the saw, and use a chain saw outdoors only.

It is important to have several commercially sharpened saw chains to match your chain saw and bar, as a chain can immediately dull by hitting the ground with the tip, cutting dirty wood, or hitting a rock or nail. It is very tiring to cut with a dull chain and the extra pressure you apply to the chain saw in order to cut faster will only increase your chance of an injury!

Remember to look out for hazards such as broken or hanging branches, attached vines, or a dead tree that is leaning. If you must cut a dead tree, be very careful as the top could break off and kill you. If the tree is broken and under pressure, make sure you know which way the pressure is going. If you're not sure, make small cuts to release some of the pressure before cutting up the section.

Chain saws should always be carried with the engine off. Never cut when tired or alone, as most accidents occur late in the afternoon when most people are pushing to finish up for the day. Always work with a partner but never around children or pets.

When felling a tree, keep everyone at least "two tree lengths away." Always have a preplanned escape route. These routes should be generally opposite to the planned direction of the fall of the tree about at a 45 degree. Make sure there is nothing that could trip or stop you from making a quick retreat. Finally, when picking up heavy wood debris, get several helpers. It has been shown that a 24-inch log may weigh over 100 pounds, so never underestimate the weight of wood debris. Always bend your knees and lift with your legs, not your back.

If you follow these basic tips you can avoid preventable injuries.

**AVOID AN ACCIDENT. DON'T BE AN OSHA  
STATISTIC. BE SAFE!! ■**





*El siguiente artículo está escrito en Inglés y en Español. La intención es que Ud. lo copie y lo distribuya a los trabajadores y a los empleados de su empresa.*

## **ALGUNOS CONSEJOS ÚTILES CUANDO TRABAJE CON LA MOTOSIERRA: “PIENSE EN SU FAMILIA”**

*Henrique Mayer, Miami-Dade IFAS Agente de Extensión  
ISA Comité Hispano*

*Artículo basado en la publicación “Usando la Motosierra de una  
Manera Segura” de la Cruz Roja Americana*

La temporada de huracanes se aproxima. Esta es la época del año que más trabajo tiene su compañía. De acuerdo con algunas cifras del U.S Consumer Products Safety Comisión, durante el año 1998 se registraron 33,000 accidentes relacionados con el uso de la motosierra. Para disminuir los accidentes provocados por una motosierra es muy importante que considere los siguientes consejos prácticos.

Siempre lea el manual del operador que viene con el equipo. Use el Equipo de Protección Personal (EPP). Este equipo es requerido por la Administración de Seguridad y Salud Ocupacional de los Estados Unidos (OSHA) reglamento número 1910.2669. Comprende un casco pesado o liviano dependiendo de si trabaja subido sobre el árbol o desde el suelo, guantes de cuero o algodón, chaparreras o pantalones especiales, botas de seguridad para trabajos pesados, lentes o gafas de seguridad, protector facial, y protección de los oídos.

Aproximadamente un 20% de todos los accidentes son causados por rebotes. El Rebote ocurre cuando el cuadrante superior de la barra entra en contacto con algún objeto. Esto causa un movimiento muy rápido de la motosierra hacia el operador. Para reducir el riesgo de accidentes por rebote: Use una cadena o barra que sea de rebote reducido; Evite el contacto entre el cuadrante superior de la motosierra y cualquier objeto; Posicione su cuerpo a un lado de la motosierra nunca de frente a ella; Sostenga la motosierra con ambas manos, no corte más allá de lo que pueda alcanzar, corte a la altura de la cintura; Asegúrese de que el freno de la motosierra este funcionando; Siga las instrucciones del manual en cuanto a mantenimiento y afilamiento de la cadena.

Asegúrese de que su motosierra posea freno, agarre de la cadena, control apagado / prendido, apaga chispas y control ahogador. No olvide llenar el estanque de gasolina cuando la

maquina está fría. Si la motosierra se queda sin gasolina espere 30 minutos para rellenarla. No fume cuando esté llenando la motosierra y use la motosierra solamente al exterior.

Es importante tener a la mano varias cadenas afiladas de la misma medida que la barra pues que la cadena puede perder el filo si entra en contacto con el suelo, una piedra, o un clavo. El operador necesita mucho mas esfuerzo para operar una motosierra con una cadena no bien afilada. Este esfuerzo extra que tiene que hacer puede ocasionarle un accidente!

Esté alerta a condiciones peligrosas: como ramas rotas y/o colgando, enredaderas en el árbol, árboles muertos o inclinados. Si va a desenterrar un árbol muerto tenga mucho cuidado por que la parte de arriba puede quebrarse fácilmente y matarlo. Si el árbol esta quebrado y bajo cierta presión, asegúrese de conocer hacia donde va la presión. Si no está seguro, haga pequeños cortes para aliviar la presión antes de cortar la sección.

Transporte la motosierra siempre en la posición apagada. Nunca use la motosierra cuando este cansado o cuando se encuentre solo. La mayoría de los accidentes ocurren al termino de la jornada de trabajo. Nunca trabaje cuando haya niños o animales a su alrededor.

Cuando este tumbando un árbol asegúrese de tener un espacio de por lo menos “dos veces la altura del árbol.” Siempre prevea las salidas de escape. Estas escapes deben estar en sentido contrario a la dirección prevista de la caída del árbol y en un ángulo de 45 grados. Asegúrese bien de que las salidas de escapes estén libres. Finalmente, cuando este recogiendo los restos pesados del árbol busque algunos ayudantes. Esta demostrado que un tronco de 24 pulgadas puede pesar más de 100 libras. No subestime el peso de los restos de madera, siempre doble sus rodillas y levante el peso con sus piernas no con su espalda.

Siguiendo estos consejos básicos usted podrá evitar futuras lesiones.

**EVITE LOS ACCIDENTES. NO FORME PARTE DE LAS  
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*(Potassium Deficiency continued from page 15)*

tion should reveal characteristic spotting and marginal necrosis in K deficiency or necrotic streaking for Mn deficiency. Potassium deficiency symptoms are also more severe toward the leaf tip and are less so at the leaf base. The reverse is true for Mn deficiency.

When sampling for leaf analysis, select 4 to 6 central leaflets from the youngest fully-expanded leaf. Soil analysis is not particularly useful for diagnosing palm nutrient deficiencies, since palm nutrient symptomology often bears little resemblance to soil nutrient profiles.

## Management

Regular applications of K fertilizers will prevent K deficiency and treat palms already deficient. On sandy soils, or those having little cation exchange capacity, controlled-release K sources are much more effective than the easily leached water-soluble K sources. Sulfur-coated potassium sulfate has been shown to be the most effective and economical source for K in the landscape. When applying K fertilizers to correct an existing K deficiency, it is important to also apply about 1/3 as much Mg (also in a slow release form such as prilled kieserite) to prevent a high K:Mg ratio from causing an Mg deficiency problem. For severely K-deficient landscape palms, broadcast this 3:1 blend of sulfur-coated potassium sulfate and prilled kieserite uniformly to the soil under the canopy at a rate of 1.5 lbs per 100 sq ft of canopy area. This should be repeated in three months. Three and six months after that, a 1:1 mixture of the K:Mg blend and a balanced 8-2-12+4Mg palm maintenance fertilizer should be similarly applied at the rate of 1.5 lbs of fertilizer per 100 sq ft of canopy area, bed area, or entire landscape area. After one year, use only the 8-2-12+4Mg with micronutrients maintenance fertilizer at the above rate. For mild to moderately K-deficient palms, application of the 8-2-12+4Mg palm maintenance fertilizer every 3 months should be sufficient to treat and prevent K deficiencies. Treatment of K deficient palms may require one to two years or longer, since the entire canopy of the palm may need to be replaced with new symptom-free leaves. Removal of discolored older K-deficient leaves on a regular basis has been shown to accelerate the rate of decline from this disorder and can result in premature death of the palm. ■



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# Soil Compaction & Trees: Tree Root Survival & Growth

Dr. Kim Coder

Professor of Community Forestry and Arboriculture  
University of Georgia

Part 2 of 4 of in-depth and technical articles on soil compaction (Part 1 in Summer 2006 issue).

Roots utilize space in the soil. The more space controlled, the more potential resources controlled. Thus, the volume of soil space controlled by tree roots is directly related to tree health. The resources required are water, oxygen, physical space for growth processes, and open soil surface area for replenishment of essential resources.

Tree roots occupy the spaces and gaps around, under, and between infrastructures. In heavily compacted sites, roots will be concentrated around the edges of infrastructures, filling any moist air space. The soil matrix is a significant concern for essential elements, surfaces holding biological cooperators, and frictional and inertial forces that maintain structural integrity (Figure 1).

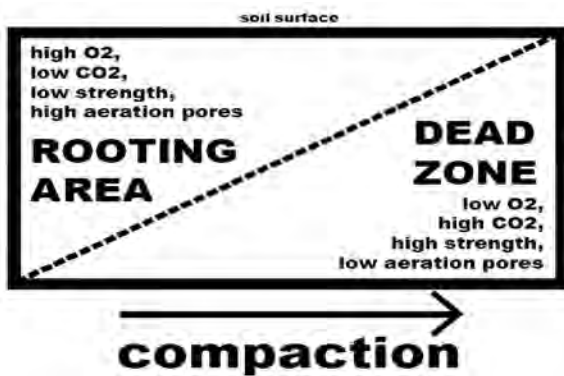


Figure 1: Graphical representation of compaction effects on soil.

Tree roots and the soil surrounding them are an ecological composite of living, once-living, and abiotic features facilitating life. Compaction initiates many negative impacts in the soil including: a decrease in the volume of ecologically active space available; tree rootable space is decreased and made more shallow; the detritus food web, the ecological engine responsible for powering a healthy soil, is disrupted and modified; the diversity of living things decline, beneficial associates are eliminated, and a few ecological niche generalists succeed; and, pests favored by the new conditions (i.e. *Pythium* & *Phytophthora*) consume organisms and roots not able to defend themselves. Further, tree roots become more prone to damage and attack at a time when sensor, defense, growth regulation, and carbon allocation processes are functioning at reduced levels.

## Root Requirements

Growth in trees may not be a positive increase in living mass, but does represent expansion of tissues into new spaces. For roots, the tips elongate and the tissues thicken in diameter. Lateral roots are developed adventitiously and allowed to elongate and radially thicken. Root density, mass, and activity vary with internal and external conditions. Resources required for root growth are summarized in Table 1.

Root Resource	Requirements	
	Minimal	Maximum
Oxygen in soil atmosphere (for root survival)	3%	21%
Air pore space in soil (for root growth)	12%	60%
Soil bulk density restricting root growth (g/cc)	-	1.4 clay 1.8 sand
Penetration strength (water content dependent)	0.01kPa	3MPa
Water content in soil	12%	40%
Root initiation (O <sub>2</sub> % in soil atmosphere)	12%	21%
Root growth (O <sub>2</sub> % in soil atmosphere)	5%	21%
Progressive loss of element absorption in roots (O <sub>2</sub> % in soil atmosphere)	10%	21%
Temperature limits to root growth	40°F/4°C	94°F/34°C
pH of soil (wet test)	pH3.5	pH8.2

Table 1: Brief list of root resource requirements

Roots utilize soil spaces for access to water and essential element resources, and to provide structural support. Roots grow following pathways of interconnected soil pores. Pore space can be the result of the space between textural units (sand, silt, and clay particles), between structural units (blocks, plates, grains, prisms, etc.), along fracture lines (shrink / swell clays, frost heaving, pavement interfaces, etc.), and through paths of biological origins (decayed roots, animal diggings, etc.).

Roots survive and grow where adequate water is available, temperatures are warm, and oxygen is present. Roots are generally shallow as limited by oxygen contents, anaerobic conditions, and water saturation in deeper soil. Near the base of the tree, deep growing roots can be found, but they are oxygenated through fissures and cracks generated as a result of mechanical forces moving the crown and stem under wind loads (sway).

*(Soil Compaction & Trees continued from page 19)*

### Growth Forces

The ability of primary root tips to enter soil pores, further open soil pores, and elongate through soil pores is dependent upon the force generated by the root and the soil penetration resistance. Root growth forces are generated by cell division and subsequent osmotic enlargement of each new cell. Oxygen for respiration and adequate water supplies are required (Figure 2). Tree roots can consume large amounts of oxygen during elongation. At 77°F (25°C) tree roots will consume nine times their volume in oxygen each day, at 95°F (35°C) roots can use twice that volume per day. The osmotic costs to cells resisting surrounding forces and elongating can be significant.

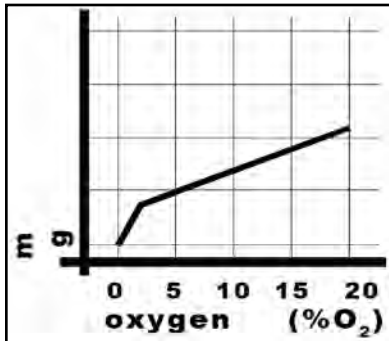


Figure 2: Maximum root growth force expressed by seedlings at various oxygen concentrations. (after Souty and Stepniewski, 1988)

In response to increased compaction, roots thicken in diameter. Compaction also forces roots to generate increased turgor pressures concentrated farther toward the root tip, to lignify cell walls quicker behind the growing root tip, and to utilize a shorter zone of elongation. Thicker roots exert more force and penetrate farther into compacted soil areas (Figure 3). As soil penetration resistance increases in compacted soils, roots thicken to minimize their own structural failure (buckling), to exert increased force per unit area, and to stress soil just ahead of the root cap which allows for easier penetration.

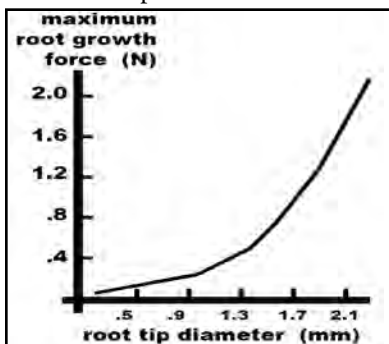


Figure 3: Maximum root growth force by root tip diameter. (after Misra et al.,

For effective root growth, pore sizes in the soil must be larger than root tips. With compaction in a root colonization area, pore space diameters become smaller. Once soil pore diameters are less than the diameter of main root tips, many growth problems can occur. The first noticeable root change with compaction is morphological. The main axis of a root becomes thicker to exert more force to squeeze into dimin-

*(Soil Compaction & Trees continued on page 22)*

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# Consultant's Corner



By Joe Samnik, Consulting Arborist

## The Sky is Falling

Chicken Little was correct. The sky is falling. The Sky is falling as it pertains to housing starts and to our economy in general.

For every new home buyer in today's market there are seven sellers. Developers are pulling out of deals. Builders are offering significant discounts on inventory products. Gas is heading toward \$5.00 per gallon, probably higher. Economic stats around us all indicate recession. The "D" word (Depression) has been muttered in hushed tones. Everyone will be affected during this correction.

Ah, the sweet smell of opportunity in the morning!

Change is a constant. It's inevitable. As always is the case, for some it comes too soon, for others not soon enough. We can either deny it or face it head on. The denial mode evokes our defensive mechanisms. There is always an excuse for not being a success - too much of this – not enough of that. The denial mode is a blueprint for failure. Strategizing our future head-on is the proactive approach to succeeding in a major marketplace correction.

Being proactive requires that a strategy be developed to operate your business, especially during bad economic times. A team approach to your situation may include your spouse, confidant, CPA, financial advisor, or business coach. A "Mastermind Group" is a highly effective approach to problem solving where brainstorming creates new ideas and avenues of approach.

If you don't have a niche in the marketplace or workplace, develop one. The more and more that you know about less and less, the more successful you will become, and the more security you will have. Once your niche is developed, broaden it ever so slightly to include tangential boundaries.

This is the time to invest in yourself. It may not be the time for large capital purchases. The Florida Chapter of ISA offers dynamic educational venues of extreme value. Attend them. If a capital purchase is being contemplated, seek the advice of a CPA, accountant, or other financial advisor.

Do something. Make something happen. Send e-mails to your clients. Pick up the phone, make a call. Old clients are better prospects than people who have never been contacted. Af-

ter contacting old and current clients, start marketing to new ones. Don't be too busy to make money.

Internal focus far exceeds the benefits of external focus. Know your strengths – and your limitations. A bad market place is, after all, a matter of perspective. The very best to you and your families. ■



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(Soil Compaction & Trees, continued from page 20)

ished sized pores. As roots thicken, growth slows and more laterals are generated of various diameters. Lateral root tip diameters are dependent upon initiation by growth regulator and the extent of vascular tissue connections. If laterals are small enough to fit into the pore sizes of the compacted soil, then lateral growth will continue while the main axis of the root is constrained. If the soil pore sizes are too small for even the lateral roots, root growth will cease (Figure 4).

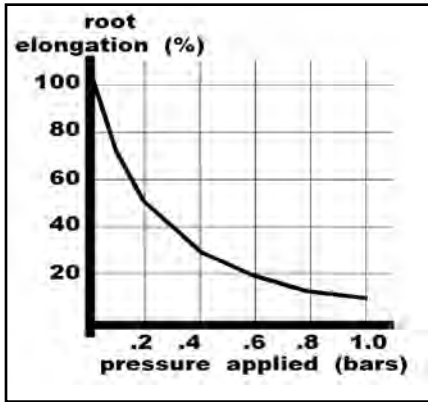


Figure 4: Pressure applied to roots that limit elongation. (after Rendig & Taylor 1989; Russell, 1977)

### Tree Species Tolerance

Across the gene combinations which comprise tree forms, there is a great variability in reactions to soil compaction. As there are many different soils and associated responses to compaction, so too are there many gradations of tree responses to compaction. A tree's ability to tolerate compacted soil conditions is associated with four primary internal mechanisms: reaction to mechanical damage is effective and fast; continuation of respiration under chronic oxygen shortages; ability to continue to turnover, reorient, and adjust absorbing root systems; and, ability to deal with chemically reduced materials (toxics).

Some species, varieties, and individuals may tolerate various compacted soil conditions better than others. Below is a list of trees meeting the above criteria for soil compaction tolerance. Note that this is not a comprehensive list and is only provided to show average species examples. Ultimately, chronic and severe compaction will kill any tree.

**Scientific Name**

- Acer negundo*
- Acer rubrum*
- Acer saccharinum*
- Alnus* spp.
- Betula nigra*
- Carya aquatica*
- Carya illinoensis*
- Celtis laevigata*
- Celtis occidentalis*
- Cercis canadensis*
- Crataegus* spp.

**Common Name**

- box elder
- red maple
- silver maple
- alders
- river birch
- water hickory
- pecan
- sugarberry
- hackberry
- redbud
- hawthorns

**Scientific Name**

- Diospyros virginiana*
- Fraxinus* spp.
- Gleditsia triacanthos*
- Ilex* spp.
- Juglans nigra*
- Juniperus virginiana*
- Liquidambar styraciflua*
- Magnolia virginiana*
- Nyssa* spp.
- Persea borbonia*
- Pinus elliotii*
- Pinus taeda*
- Platanus* spp.
- Populus* spp.
- Quercus bicolor*
- Quercus falcata*
- Quercus imbricaria*
- Quercus laurifolia*
- Quercus lyrata*
- Quercus macrocarpa*
- Quercus michauxii*
- Quercus nigra*
- Quercus nuttallii*
- Quercus palustris*
- Quercus phellos*
- Quercus rubra*
- Quercus shumardii*
- Robinia pseudoacacia*
- Salix* spp.
- Taxodium distichum*
- Ulmus* spp.

**Common Name**

- persimmon
- ash
- honey locust
- holly
- black walnut
- Eastern redcedar
- sweetgum
- sweetbay
- tupelo / black gum
- redbay
- slash pine
- loblolly pine
- sycamore / planetree
- cottonwood / aspen
- swamp white oak
- Southern red oak
- shingle oak
- laurel oak
- overcup oak
- bur oak
- swamp chestnut oak
- water oak
- Nuttall oak
- pin oak
- willow oak
- red oak
- Shumard oak
- black locust
- willows
- bald cypress
- elms ■

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# LICENSURE COMMITTEE

*By Joe Samnik,  
Arborist Liscensing Chair*

Your Licensure Committee, under the guidance of our lobbyist and attorney, Ross McVoy, has drafted a legislative bill, "Florida Arborist Licensing Law".

You may review the bill on the chapter's website. Please feel free to e-mail me (joe.samnik@verizon.net) with any questions or comments you may have regarding this matter. I will personally respond to each inquiry, and your comments will be shared with the Licensure Committee.

While all components of our bill are important, the exemptions are the area of greatest debate. During the recent educational sessions regarding licensure at Trees Florida, the people and groups exempted from licensure generated the most comments. Most of the exemptions are only common sense decisions. Other exemptions are somewhat volatile. The decisions

to include or exclude were based upon our strategic alliances with other Green Industry professional colleagues and the history of safety and exemplary training programs of other related groups. The goal of the licensure initiative is to provide professional commercial arborists with a level playing field as it relates to safety, health, and welfare of the citizenry while keeping unqualified bidders out of the marketplace.

To this end must come the realization by all that this effort of licensure is the single most important event since the formation of our chapter ten years ago. The ramifications to each of us individually, and our group as a whole, will be positive and will be profoundly affected in the future by what we are doing now.

All ships rise at high tide – even those of our detractors. Do not be misled by the misinformed. Do not lose site of our goal to become a professional membership rather than a membership of professionals.

The Licensure Committee includes Mike Marshall (Marshall's Tree Farm), Don Winsett (Stiles Arbor Services), Jeff Caster (Florida Department of Transportation), Norm Easey, and myself. The committee serves at the pleasure of the Florida Chapter president and the Board of Directors. ■

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Strive for continuous self-development by increasing their qualifications and technical proficiency by staying abreast of technological and scientific developments affecting the profession.

Not misuse or omit material facts in promoting technical information, products or services if the effect would be to mislead or misrepresent.

Hold paramount the safety and health of all people, and endeavor to protect property and the environment in the performances of professional responsibilities.

Accurately and fairly represent their capabilities, qualifications and experience and those of their employees and/or agents.

Subscribe to fair and honest business practices in dealing with clients, suppliers, employees and other professionals.

Support the improvement of professional services and products through encouraging research and development.

Observe the standards and promote adherence to the ethics embodied in this code.