



Fall 2011  
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## New Research Underway to Develop Longer Lasting Treatment to Protect Avocados

by Brandon M. Gallagher Watson, Director of Communications, Rainbow Treecare Scientific Advancements

Since its discovery nearly a decade ago, laurel wilt (*Raffaelea lauricola*) has been an increasing concern and management challenge for Florida arborists, foresters, and property owners. While the impact this invasive fungus on Florida forests is being felt with the loss of red bay (*Persea borbonia*) trees and other native species, the state's avocado industry is especially worried and is investing in research to develop a new protection protocol.

In a recent study, published in HortTechnology (20: 234-238 [2010]), researchers at University of Florida estimate the loss of avocado revenue from this fungus could range from \$183 million if half of the trees are protected, up to \$356 million if nothing is done. Avocados (*Persea americana*) represent Florida's second largest fruit industry, behind only citrus, and constitute over 800,000

individual trees. An estimated 98% of those trees are in the Miami-Dade area and while the fungus has not yet been found in an orchard there yet, it is seen as only a matter of time. Laurel wilt has been identified in swamp bays (*Persea palustris*) as close as 4 miles to production orchards, and given the fungi's insect vector is known to move up to 20 miles per year, the risk to avocado is clear and immediate.

Fortunately, an effective management protocol has been developed. Research done by Florida DACS scientist, Dr. Bud Mayfield, along with Rainbow Treecare Scientific Advancements led to a fungicide injection treatment that is effective for 12 to 14 months in red bay trees (J. of Arbor. & Urb. For. 34(5): 317-324 [2008]). This standard laurel wilt protocol involves an injection of the fungicide Alamo® (propiconazole) using Rainbow's macro-infusion process. The upside of this treatment is that it is effective in stopping the fungus when introduced to a healthy avocado tree by the beetles. The downside of this treatment is that it requires that the tree be drilled in the root flares every 14 months, which is both invasive to the tree and time consuming to apply. It is for this reason new research is underway to develop a management protocol that will last much longer.



The research department at Rainbow, along with Dr. Randy Ploetz and Dr. Jonathan Crane from University of Florida, was approached by Florida's largest avocado

*Protect Avocados continued on page 8*

# A Message From the President

"Good Day, Mate!"

If I heard that once, I heard it a thousand times during my trip to Sydney, Australia during the annual International ISA



Conference and International Tree Climbing Competition. What a great trip and what an honor it was to be there to represent the Florida Chapter. From the Tree Climbing Competition to the educational sessions and the equipment show, it had to be one of the best conferences I have ever attended for ISA!

People have asked me what the one thing was from my trip that really stood out above the rest. It was without a doubt the friendliness of all the Australian people. They were so accommodating; they appreciated us being there and they bent over backwards to welcome us and help us if needed. It was hard traveling such a long distance, much less to a foreign country, but the Australian people made everything so much better.

The International Tree Climbing Championship (ITCC) was fun and amazing to watch. The quality of the competitors and the level of competition was incredible. Our climber, Eli Villagran, did a wonderful job of representing the Florida Chapter. This event was great for me to watch and it has 'set the bar' for our chapter when we host the ITCC and the International Conference in 2015 in Orlando.

I attended both the Council of Representatives (COR) and the International Board meetings which were both excellent. I feel that real progress was made. I was glad to see how the new board is working and that the future for ISA looks strong.

Thanks for this opportunity to represent the Florida Chapter.

My final thought: if you get the opportunity to visit Australia, GO! Your life will change...

"No Worries!"

*Don T. Winsett*



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## New National Champion Sweetbay Magnolia Lives in Riverside Heights

The 62-foot-tall tree was recently designated the biggest of its species in the nation.

From *Seminole Heights Patch*  
By [Penny Carnathan](#)



**K.J. Kosobucki** was used to enormous trees back home in Wisconsin, but here in Florida? Not so much. That's why she loved the giant [sweetbay magnolia](#) at her new rental home – even before she knew it's a new National Champion.

"It's gorgeous. It shades our entire back yard," the 25-year-old said. She pointed to a generous crook in the tree, where fat limb meets mammoth

trunk. I sit up there and read."

The 62-foot-tall tree at 809 W. Plymouth St. in **Riverside Heights** was recently designated the largest native sweetbay magnolia (*Magnolia virginiana*) in the nation by [American Forests](#), a non-profit that maintains a 70-year-old [National Register of Big Trees](#). It's Hillsborough County's only National Champion, shooting past two Florida Champion sweetbays when it was discovered by arborist **Jason Zysk**.

Nominated trees are scored on a point system, said **Charlie Marcus**, coordinator of [Florida's Big Tree Program](#) through the Florida Division of Forestry. They get 1 point for every inch of trunk circumference, measured 4½ feet above the ground; 1 point for each foot in height; and ¼-point for each foot of crown spread. Tampa's new queen is 198 inches around and wears a 60-foot crown.

Other Bay area National Champs are a **turkey oak** (*Quercus laurifolia*) on Pasco County property owned by the **Southwest Florida Water Management District**, and a 78-foot **cat's claw** (*Pithecellobium unguis-cati*)

in Manatee. A 69-foot South Florida slash pine in Pinellas County was stripped of its title by a Lee County tree, and so now bears the designation "emeritus."

"People like big trees," Marcus said. "Probably the No. 1 questions people ask are about the champion tree program. They want to know if they have the biggest tree. Or if we know where they can go to see the biggest trees."

Trees on public property are free to visit; people are asked to get permission before visiting those on private property, such as the home of Kosobucki and her roommate, **Leigh Donharl**. The pair moved into the little house about six weeks ago, after their other rental home was robbed, Kosobucki said. The roommates wanted out, and their landlord offered them the vacant home on Plymouth. Seeing the giant tree in the back "didn't hurt," Kosobucki said.

"It changes every time you come up here," she said, climbing up to her favorite perch. "It's a living thing."



She wonders how old it is, but Marcus wouldn't venture a guess. The house was built in 1949, according to property records, and sweetbay magnolias generally live 50 years or more, said **Sharon Fitzpatrick** of [Florida Native Plant Nursery](#) in Sarasota.

Anyone is welcome to nominate a tree for the Big Tree Register. The list includes only native and naturalized species, and no invasive exotics, such as camphors, Brazilian

pepper and chinaberry, Marcus said.

Find instructions for measuring and nominating at [Florida's Forest Management](#) website. (Hint: Check the list of species for which there is no champion, and you'll boost your odds of finding a winner.) ❖

# Ganoderma

## The Death Sentence for Oaks and Palms

Tammy Kovar, Certified Arborist and owner Biological Tree and Landscape Services, Sustainable Landscape Supply and Yard Rx

reprinted with permission from *Living Out East & On The Bay Magazine*

The “MUSHROOM OF IMMORTALITY”, *Ganoderma lucidum* - also known as *Reishi*, is the best known and most well studied of all the medicinal mushrooms. It has been used in traditional Chinese medicine for at least 5,000 years. It is known in China as *Ling Zhi*. All traditional Chinese medicine doctors know that *Reishi* is the most potent adaptogen available. Adaptogens are those herbs and other substances that increase the body’s resistance to stress and help it overcome health challenges more quickly.

How can such a widely prescribed human helper be a death sentence for our heritage live oak trees? Ganoderma is a soil-borne fungus that enters trees through open wounds. The disease spreads through root contact but is not found in the canopy of infected trees. This potent human adaptogen is a killer of oaks and other deciduous trees. Once infected with Ganoderma, or “butt



rot”, the tree will eventually die. There is no cure!

The fruiting body, known as a basidiocarp or “conk” is a shiny, often colorful shelf fungi that grows anywhere from four feet up the trunk, to the base of the trunk at the ground. After



removal of a diseased tree the infected portion must be taken to the landfill and properly disposed of. The uninfected part can be used as mulch. It is not recommended to replant another deciduous tree in its place. The new tree will likely die of Ganoderma, too.

If you must replace with a new deciduous tree for aesthetics of the landscape, heroic efforts will need to take place. Complete removal of the soil is step one. Then a licensed fumigation expert will need to treat the area with a fumigant prior to replanting. This is still no guarantee that the new tree will survive.

There is also a “butt rot” of palms, named *Ganoderma zonatum*. This mushroom only affects palms. There is no known reason why Ganoderma randomly selects one palm over another. The health of the palm is not the issue and weather, soils and temperature variations have all been ruled out as promoters. Once a basidiocarp (conk) is visible, it is time to remove the palm. Sometimes a palm dies and a conk will never have developed. Ganoderma can then be identified by the dark center of the trunk from the base to about four feet off the ground.

Ganoderma may be the ‘MUSHROOM OF IMMORTALITY’ used in traditional Chinese medicine as a prescription for your well being, but do not give it to your tree... or eat it if you discover one! ❖







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*Protect Avocados continued from page 1*



producer to evaluate both longer lasting fungicide possibilities and novel application methods. These trials will focus on the comparison of Alamo® to two other fungicide compounds known to have longer half-lives than propiconazole. It is hoped that one of these treatment will be shown to prevent laurel wilt as effectively as the propiconazole treatments, but have a longer

retreatment interval. Treatments are scheduled to begin in July of 2011 and will be a multiple year study. Trees in this trial will be periodically challenged with the laurel wilt fungus by inoculating the trees in a manner that mimics the introduction by beetles.

The second part of this project is evaluating the tree injection process itself to see if a faster application method could be developed. Macro-infusion application has shown

effectiveness but the time to treat any individual tree can be up to an hour. The avocado growers are considered treating half the states crop trees, which would be a staggering 400,000 trees that would require treatment so any time that can be saved during the application would significantly reduce the cost of these treatments to the growers.

Injecting fungicides into trees to protect against vascular wilt diseases is fairly common in arboriculture for problems like Dutch elm disease or oak wilt, but presented new challenges when applied for an agricultural purpose. Fruit fate studies, which look at the presence of the fungicide in the avocados themselves, showed that Alamo® (propiconazole) does not move into the fruit. This was good news for growers as it would not be beneficial to develop a process to save the trees that rendered the fruit unsalable. Studies are currently underway to evaluate the fruit fate of the other fungicides in this trial.

It is not common for agricultural producers, foresters, and arborists to share a common challenge but the aggressive nature, wide distribution of host trees, and looming economic impact of laurel wilt make it a major concern for all who manage Florida's trees. If the project for developing a longer lasting, easier-to-apply treatment is successful in avocados the benefit will be felt across all of Florida and may improve vascular wilt treatments in other parts of the country as well. ❖



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The following article is provided in English and Spanish

## URBAN FOREST CANOPY ASSESSMENT FOR THE TOWN OF DAVIE

By Justin Freedman, ISA Certified Arborist and Senior Environmental Scientist for Metric Engineering, Inc

**D**uring the spring of 2011, Metric Engineering scientists conducted a canopy analysis in the Town of Davie in Broward County, Florida to measure the extent, benefits and values of the urban forest canopy. This project was funded through a grant from the Florida Division of Forestry, performed as a collaborative effort among Metric Engineering, the Town of Davie and the South Florida Audubon Society. The goals of the analysis were to help determine the principal characteristics and functions of the Town's canopy, an estimate of the value of those functions, and then to use the analysis data to determine actionable tasks to meet the Town's environmental initiatives and landscape maintenance concerns.

Metric Engineering Scientists measured trees and shrubs and collected information about land cover at 50 randomly generated tenth-acre plots within the Town boundaries. For the purpose of this study, trees were defined as woody plants having a diameter at breast height of greater than one inch. Because this study included trees in public and private lands, the results provide valuable information that can be used for management of the Town's entire urban forest. The results of the assessment were analyzed using the US Forest Service's iTree Eco program, as well as through a variety of other means.

### Key results of the assessment are as follows:

Total estimated number of trees: 704,000; total canopy cover: 15 percent (calculated using iTree and verified by the Town using GIS analysis), total shrub cover: 5 percent, total remaining plantable area: 35% (areas not covered with infrastructure, water or landscaping).

Over 37 percent of the Town's trees are native to Florida, while another 24 percent are native to North America. The most common species of tree within the Town of Davie is weeping fig (*Ficus benjamina*), which makes up 12 percent of all trees. This species is common due to its frequent use as a hedge material, and many of these "trees" were overgrown hedges

12 feet or more in height. Brazilian pepper (*Schinus terebinthifolius*) and live oak (*Quercus virginiana*) are the second and third most common tree in the Town, representing 11 percent each. Brazilian pepper is listed as a Category I Invasive Exotic species by the Florida Exotic Pest Plant Council. Pond apple (*Annona glabra*), which is common along canal banks and in freshwater natural areas, is the fourth most abundant, representing nine percent of the canopy. When ranked



by biomass, live oak becomes the most abundant, followed by Florida royal palm (*Roystonea elata*) and Brazilian pepper.

### Analysis of the results:

The Town's urban forest canopy provides environmental benefits to its residents, including reduced energy costs and carbon emissions, carbon storage and sequestration, and pollutant removal. Using iTrees valuation of these benefits, the annual value of the Town's tree canopy is worth \$1,560,000, with valuation of

the trees themselves (based on cost of replacement) at \$275,500,000

The breakdown of how the overall tree values were estimated are as follows: Trees in the Town of Davie reduce energy-related costs by \$473,000 annually by shading residential and commercial buildings. This reduction in the need for fossil-fuel based electricity to fuel air conditioners results in the avoided usage of 894 tons of carbon, providing an additional \$16,464 in annual value.

Trees in the Town of Davie sequester 8,410 tons of carbon per year combined and currently store 81,600 tons of carbon. The value of the annual carbon sequestration in the Town of Davie is \$155,000 per year. The value of the carbon storage is \$1.5 million dollars.

Live oak trees in Davie sequester over 1,993 tons of carbon per year, the most of any of the species. This environmental service has a value of approximately \$32,000 per year. Strangler fig (*Ficus aurea*) stores the most carbon of any species, 25,133 tons. Weeping fig and Brazilian pepper, two species generally considered ecologically unfavorable, do provide benefits for carbon sequestration to the tune of \$48,000 annually.

Trees and shrubs in the Town of Davie remove 120 tons of harmful pollutants from the atmosphere every year.

[Urban Forest continued on page 20](#)

El siguiente artículo está escrito en Inglés y en Español.

## ESTUDIO DE LA COBERTURA VEGETAL EN LA CIUDAD DE DAVIE

By Justin Freedman, ISA Certified Arborist and Senior Environmental Scientist for Metric Engineering, Inc y Henry Mayer, Miami Dade IFAS Agente de Extensión y ISA Comité Hispano.

**D**urante la primavera del 2011, la compañía Metric Engineering y la asociación Audubon condujeron un análisis sobre la cobertura vegetal en la ciudad de Davie en el condado de Broward. Esto lo realizaron para medir el grado, las ventajas y los valores que la cobertura vegetal representa. Este proyecto fue financiado con una beca de la división de silvicultura de la Florida (FDOF). El objetivo del análisis fue ayudar a determinar las características principales y las funciones de la cobertura vegetal en Davie, estimar el valor de esas funciones, y finalmente utilizar los datos del análisis para determinar las tareas concretas que la ciudad debe hacer para cumplir las iniciativas y metas ambientales.

El personal de Metric Engineering midió los árboles y arbustos y recogieron información sobre la cubierta vegetal en 50 parcelas que midieron un décimo de acre distribuidas aleatoriamente dentro de los límites de la ciudad. En este estudio, los árboles fueron definidos como plantas leñosas que tenían un diámetro en la altura del pecho (DBH) mayor de una pulgada. Porque este estudio incluyó árboles sembrados en tierras públicas y privadas, los resultados proporcionaron información valiosa que la ciudad puede utilizar en la gerencia del bosque urbano. Los resultados de la evaluación fueron analizados usando el programa del US Forest Service Eco del iTree, así como otros medios.

### Los resultados más resaltantes del análisis fueron:

El número estimado de árboles fue 704.000; la cubierta vegetal: 15% (calculado usando iTree y verificado por la ciudad usando GIS), cubierta total de los arbustos: 5%, área plantable, el 35% (áreas no cubiertas con infraestructura, agua o jardines).

Más del 37% de los árboles de la ciudad son nativos a la Florida, mientras que 24% es nativo de Norteamérica. La especie más común de árbol dentro de la ciudad de Davie es *Ficus benjamina* (*Ficus benjamina*), que compone el 12% de todos los árboles. Esta especie es común debido a su uso frecuente como seto, muchos de estos “árboles” fueron setos de más de 12

pies en altura. La pimienta brasileña (*Schinus terebinthifolius*) y el roble (*Quercus virginiana*) son el segundo y tercer árbol más común de la ciudad, representando el 11% cada uno. La pimienta brasileña es una especie exótica invasora de la categoría I del Florida Exotic Pest Plant Council. La manzana de charca (*Annona glabra*) que es común a lo largo de canales y en áreas naturales de agua dulce, es el cuarto más abundante, representando el 9%. Cuando clasificamos por biomasa, el



roble se convierte en el más abundante, seguido por la palma real de la Florida (*Roystonea elata*) y la pimienta brasileña (*Schinus terebinthifolius*).

### Análisis de los resultados:

El bosque urbano de la ciudad proporciona ventajas ambientales a sus residentes, incluyendo la reducción del consumo de energía y reducción en las emisiones de carbono, así como almacenaje y secuestro de carbono, y remoción de agentes contaminantes. Usando la valoración de iTrees, el valor anual de la cobertura vegetal en la ciudad de Davie es de \$1.560.000, la valoración

de los árboles (basado en el coste del reemplazo) es de \$275.500.000.

El desglose de cómo los valores fueron estimados es como sigue: Los árboles en la ciudad de Davie redujeron los gastos de energía en \$473.000 anualmente debido a la sombra a edificios residenciales y comerciales. Menor utilización de combustible produjo una reducción de 894 toneladas de carbón, proporcionando un ahorro de \$16.464 adicionales en valor anual.

Los árboles secuestraron 8.410 toneladas de carbón al año y almacenaron 81.600 toneladas de carbón. El valor del carbón secuestrado es de \$155.000. El valor del almacenado es \$1.5 millones.

Los árboles de roble en Davie secuestran 1.993 toneladas de carbón por el año, es la mayor especie que secuestra. Esto tiene un valor de \$32.000 por año. El higo estrangulador (*Ficus aurea*) almacena la mayoría del carbón comparado a cualquier especie, 25.133 toneladas. El higo y la pimienta del Brasil, dos especies generalmente consideradas ecológicamente desfavorables, proporcionan un beneficio de \$48.000 anualmente por concepto de secuestro de carbono.

Los árboles y los arbustos en la ciudad de Davie sustraen 120 toneladas de agentes contaminantes dañinos de la atmósfera. Esto incluye 65 toneladas [\*Urban Forest continued on page 16\*](#)



# Membership Committee Report

*By Patrick Miller, Vice President and Membership Chair*

First, I want to announce our thanks to Mike Robinson (Trees Florida 2012 Committee Chairman) for bringing the Trees Florida Conference and Trade Show to Jacksonville, Florida this year. Also, we would like to offer our appreciation to all the hard work by the planning committee, the volunteers and Norm Easey and staff for a very successful Trees Florida 2012 Conference.

This year’s membership committee consists of Don Winsett, Eric Hoyer, Richard Cervi, Adam Jackson, Todd Kucharski and David Reilly. I am pleased to report that the Florida Chapter Board and membership committee has been moving forward toward one of our strategy goals to increase our membership. The committee is developing an aggressive campaign to bring our numbers up in Florida. Currently, as of July 11<sup>th</sup>, there are 1049 Florida chapter members. The total ISA members in Florida who are not chapter members are 1227.

I would like to sign off with a short message: ***please get involved with the Florida ISA Chapter***. Contact the chapter for more information on the committees and board meetings. If you are not a chapter member, the annual membership is very affordable at an additional \$30 to your International membership. Take the time to attend a meeting and be a part of this great organization and ***help us make a difference***.❖

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With the devastation to trees in Florida by hurricanes, storms and fires, millions of dollars in valuable tree resources have been lost, particularly within the past several years. Jointly, the Florida Urban Forestry Council (FUFC) and the Florida Chapter of the International Society of Arboriculture (FC-ISA) developed the Trees-4Florida program which focuses on making the public more aware of the need to be vigilant in safeguarding our trees and preserving Florida’s greatest green resource.

The Trees 4 Florida program has produced a variety of Public Service Announcements (PSAs) available for anyone to free of charge. Included in the campaign are English and Spanish print-quality and broadcast-quality PSA ads and spots. Include them on your website, flyers or any promotional material.

Access these FREE PSAs by visiting [www.treesarecool.com](http://www.treesarecool.com); hover on ‘Trees4Florida’ in the menu box to the left to make your choice of ad style.

## Conference to discuss longevity of urban trees

The Urban Tree Growth International Meeting and Research Symposium will present the latest studies on urban tree growth and health.

LISLE, Ill. – Trees living in communities and cities are under threat. The average life span of a street tree in the city of Chicago? Less than 10 years. But even trees living in verdant suburban villages die decades before they should. Scientists will gather in September to address the plight of urban trees in hopes of helping them live longer, healthier lives.

A seminal research conference, The Urban Tree Growth International Meeting and Research Symposium, will gather international scientists to present the latest studies on urban tree growth and collaborate on a comprehensive plan for future research. The meeting will be held Sept. 12 and 13, at The Morton Arboretum in Lisle, Ill.

Early tree death is not just a tree problem. It's a people problem. Mature urban trees provide crucial environmental benefits for humans, such as cooling urban heat islands, cleaning polluted air in cities, and capturing and storing carbon on our warming planet. Studies show that urban trees also

have psychological, restorative and crime-reduction benefits for people. When trees die early, they fail to adequately provide these services, and people's health and well-being can suffer, said Greg McPherson, Ph.D., Urban Ecosystems and Social Dynamics Program at the USDA Forest Service in Davis, Calif.

"A high-performing urban forest is critical to human health," said McPherson, who will deliver a keynote speech at the Urban Tree Growth meeting. "We need scientific answers to better diagnose and treat threats to trees, because ultimately, a healthy urban forest creates a setting where people and communities are healthy."

*"Early tree death is not just a tree problem. It's a people problem."*

The conference, co-hosted by the International Society of Arboriculture's (ISA) Urban Tree Growth & Longevity Working Group and The Morton Arboretum, will help to summarize the state of the science, identify important knowledge gaps and [Tree Longevity continued on page 18](#)

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# TREE Fund Update



*Andy Kittsley*

Well, during any other year the Tour des Trees would be in full swing by now. This year however the Tour will take place in October.

Complications involving organizing the Tour in Australia proved too daunting for the “no worries” mind-set of our counterparts “down under” so there will be NO ride in Australia. But die hard ride-a-holics like me and a few dozen others clamored for a ride “somewhere”. So, it will take place in October in conjunction with the Mid Atlantic Chapter’s Annual Conference.

The ride itself will start in Virginia Beach with a tour of the STIHL manufacturing plant, and a ride that loops around Virginia Beach with a group of local riders. This fairly new one-day “Ride for Research” segment is meant to encourage those who would like to participate in the Tour... but can’t commit to an extended multi-day ride. This segment also helps raise badly needed cash for the TREE Fund. The next day there is another loop ride planned in Colonial Williamsburg. After that the ride continues west through Virginia, up into the Smoky Mountains and north on the Skyline Drive to Front Royal. Then we head back east, ending at American University in Washington D. C.

This year’s Tour is special. The Florida Chapter will be represented by → 4 riders! In addition to me (**Andy Kittsley**) Team Florida includes **Eric Hoyer**, **Michael McCoy** and **Sue Rowland**. Some scheduling problems kept one or two others from committing to the ride – but next year they will look forward to another opportunity to represent our chapter.

What can you do? That’s the easy part.

Florida Chapter riders need to raise \$3500 each. What we are asking from each of you is a check for \$25, sent to the TREE Fund in Team Florida’s name. Each of us riders pays our own way to the Tour, a night or two in a hotel, plus our bike shipping, spare tubes, bike shorts, etc. This costs us each about \$500-800. We pay that. All we ask you for is \$25 apiece. 100% of your money goes to research (to people like Dr. Ed Gilman, Dr. Monica Elliott, Dr Tim Broschat, Dr. Nina Bassuk, to name a few).

The Chapter will reap a benefit from your donation as well – it will all count toward the Chapter Challenge to the TREE Fund for which each chapter is responsible.

We’re all in this together. We riders do the hard-fun part. We rely on the rest of you to do your part. Please send in your check for \$25 today or simply [click here](#) to donate to **Team Florida** online.

Send it to: TREE Fund  
552 S. Washington St., Ste 109  
Naperville, IL 60540

And put “**Team Florida**” on the memo line. That’s all there is to it. We all thank you. ❖

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by Joe Samnik, Consulting Arborist



THE MATTER OF DUTY

While a city is not an insurer of the motorist or the pedestrian who travels its streets and sidewalks, it is responsible, for damages resulting from defects which have been in existence so long that they could have been discovered by the exercise of reasonable care, and mitigated.

In this instance, an oak tree was growing in a parkway on Eighth Street in the city of AnyTown, FL and blew down in a strong but not unusual wind. The failed tree demolished a car, and injured a woman who was driving it. The trial resulted in a verdict for the plaintiffs, and the defendant appealed.

The city was charged with negligence of its duty when it

permitted the tree to become insecure by its roots, a condition that was known, or in the exercise of reasonable care, should have been known. The question becomes whether there was sufficient evidence that the city was put on notice of the unsafe condition of the tree before it fell. The subject tree appeared healthy, and the defect was not learned until the after - situation of the failure and the roots were exposed after the tree toppled. The plaintiff's contention was that the decay was evident and plainly visible before the tree fell. From a review of the record, it appears that there was sufficient testimony as to a white fungus that appeared at the earth line. This white fungus was indicative of the decay and highly visible before the tree failed. There was also evidence that there was decay at the bottom of the trunk, which also was visible prior to the tree failing.

A hazard inspection of a tree includes two components: the foliage and structure. To the casual observer, this subject tree appeared healthy; however, to a trained eye the defects would have been obvious.

The jury concluded that by the exercise of reasonable care the defect could have been found, the danger removed, and the damage prevented. ❖

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call 941-342-0153  
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## Impact of Mulch on Water Loss from a Container Substrate and Native Soil

*Edward F. Gilman, Richard C. Beeson, and Dustin Meador, IFAS, University of Florida*

**Abstract.**

This study was designed to measure evaporation from substrate-filled and soil-filled containers (360 L) to simulate a planted root ball. There was no difference in evaporation between mulched and non-mulched soil-filled lysimeters in any consecutive three-day period following irrigation. In contrast, more evaporation occurred the first dry day after irrigation from substrate-filled lysimeters covered with mulch than from those without mulch. Non-mulched substrate-filled lysimeters lost more water to evaporation than mulched lysimeters the second day after irrigation. Cumulative evaporation through day two was identical for mulched and non-mulched substrate treatments. Cumulative evaporation through the third dry day after irrigation was 0.5 L greater from non-mulched lysimeters because of higher evaporation the third day. Mulched or not, only about one liter evaporated daily from the surface of the substrate-filled or soil-filled lysimeters during consecutive three-day rain-free periods following irrigation. Evaporation accounted for an estimated 4% of water loss from the root ball the first three days following irrigation; based on similar studies with trees present, the remaining 96% would have been lost through transpiration. Given minor reduction in evaporation, and reported disadvantages of mulch application close to the trunk, landscape managers might consider changing mulch application practices for newly-planted trees. ❖



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RPG Growers are committed to enhancing the image and quality of field-grown trees through the hardening-off process. Research continues to show that hardened-off field-grown trees are more wind resistant than container-grown trees, use water more efficiently at planting, establish faster after planting, and when planted with container trees in a situation of limited water or irrigation will have dramatically higher survival rates.

To Subscribe to the RPG Times Newsletter or to request copies of the Tree Grading, Planting or Pruning Cue Cards contact an RPG member or visit [www.rootsplusgrowers.org](http://www.rootsplusgrowers.org)

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Urban Trees continued from page 10

del ozono (O3), 25 toneladas de materiales de partículas menores de 10 micrones (PM10), 7 toneladas del dióxido de nitrógeno (NO2), 6 toneladas de dióxido de sulfuro (SO2) y 3 toneladas del monóxido de carbono (CO). Esto tiene un valor de \$916.000.

**Aplicación de los resultados del estudio:**

El plan de sostenibilidad la ciudad para 2011-2016 indica que las emisiones totales del dióxido de carbono en 2009 eran de 754.383 toneladas. La ciudad está intentando reducir este número a un nivel más sostenible. La cobertura del bosque urbano secuestra actualmente bastante carbón para reducir las emisiones netas por un equivalente de 34.146 toneladas de dióxido de carbono al año, o aproximadamente 4.5 por ciento de las emisiones totales actuales.

Más allá de las metas de emisiones de carbono, los resultados del estudio han ayudado a identificar las especies que abarcan la mayor parte de la cobertura vegetal. Algunas de estas especies son susceptibles a problemas tales como la mosca blanca del ficus. La ciudad está utilizando esta lista de plantas más usadas para identificar que especies no se deben sembrar en futuros proyectos. La ciudad también está utilizando la lista para promover el uso de ciertos árboles poco utilizados, identificando las especies que crecen bien en la ciudad y tienen pocos problemas con plagas y enfermedades, así como representan un porcentaje bajo de la cobertura vegetal.

La sociedad Audubon del Sur de la Florida están utilizando los resultados del estudio para educar al público y a los oficiales electos sobre las ventajas financieras de preservar y de realzar la cobertura vegetal de la ciudad.❖

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Learn more at <http://www.floridaisa.org/etreenews.php>





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*Tree Longevity continued from page 12*

highlight promising new approaches, said Bryant Scharenbroch, Ph.D., soil scientist at The Morton Arboretum.

“We hope to integrate the needs of the tree professionals with skills of the researchers, as they work towards some common goals related to urban tree growth and longevity,” said Scharenbroch.

Arborists and other green industry professionals, municipal foresters, college students, professors and fellow researchers are invited to attend. Those who are working to improve tree performance in urban conditions will find the latest information on best practices and research in tree selection and care.

The Urban Tree Growth meeting will present a “who’s who” of urban tree researchers from around the world. Keynote speakers and panel discussions will focus on four topic areas:

1. Descriptive studies of tree growth, longevity and mortality. Keynote speaker: Greg McPherson. Panelists: Chris Martin (Arizona State University), Robert Fahey and Marlin Bowles (The Morton Arboretum), Lara Roman (University of California – Berkeley), Bryant Scharenbroch (The Morton Arboretum), and Julia Bartens (Virginia Tech)

2. Roles of tree production and sales on tree growth and longevity. Keynote speaker: Ed Gilman (University of Florida – Gainesville). Panelists: Ed Mulrean (Arid Zone Trees), Matthew Stephens (New York City Parks), and Henrik Sjöman (Swedish University, Department of Agricultural Sciences)
3. Roles of site design and tree selection on tree growth and longevity. Keynote speaker: Susan Day (Virginia Tech). Panelists: Tom Smiley (Bartlett Tree Experts), Alan Siewart (Ohio Department of Natural Resources), and Jason Grabosky (Rutgers University)
4. Roles of tree and site management on tree growth and longevity. Keynote speaker: James Clark (HortScience). Panelists: Alessandro Pestalozza (Monza Dendrotec), Alessio Fini (University of Florence), Gary Watson (The Morton Arboretum), and Nina Bassuk (Cornell University)

The Urban Tree Growth meeting will also include a roundtable discussion to prioritize future research, a poster session, networking opportunities and continuing education units offered through ISA (6 ISA CEUs for Day 1 and 3 ISA CEUs for Day 2). ❖

Find more information about The Urban Tree Growth International Meeting and Research Symposium at [www.mortonarb.org/education/adults/22369](http://www.mortonarb.org/education/adults/22369)



## USDA looks to public for help with pests, diseases

The agency is using blogs and social media to engage the public

This month the USDA Animal and Plant Health Inspection Service has been raising awareness about the threat that invasive plant pests and diseases pose to America’s agricultural and natural resources, and is urging residents to help stop their spread.

“Preventing foreign pests and diseases from entering the United States and looking for those that are here already are critical functions of APHIS,” said Gregory Parham, APHIS administrator. “Invasive pests and diseases can impact our communities and the natural landscape, jeopardize the livelihood of our farmers, ranchers and foresters, and alter our ecosystems. During the month of August, we will share information and tools so that everyone can learn more about these threats and help us take action in the fight against invasive pests.”

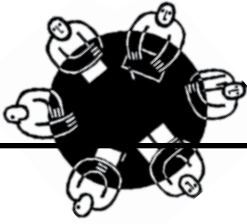
Using Twitter, USDA Blog posts and individual interactions, APHIS will provide information that the public can use to actively participate in the effort to curtail invasive pests and diseases of plants, such as Asian citrus psyllid,

European grapevine moth, Mediterranean fruit fly and sudden oak death.

Concerned citizens can find a list of specific actions they can take to protect our nation’s agricultural and ecological health in the APHIS factsheet “Attack of the Invasive Species” [here](#). Concerned residents can also gain useful tips and information by following the APHIS Twitter feed at [http://twitter.com/#!/usda\\_aphis](http://twitter.com/#!/usda_aphis).

Invasive species can cause harm to the economy, the environment and human health. From Americans returning from foreign travel, to arriving cargo on ships, there is always the potential for dangerous plant pests and microorganisms to enter the country. Many of these pests and diseases have already seriously harmed U.S. industry and urban and rural landscapes. Some scientists estimate that the economic impacts from invasive species exceed \$1 billion annually in the United States, in addition to the damage they cause to hundreds of millions of acres of native ecosystems. ❖





# Florida Chapter Board Updates

## BOARD SHORTS:

### Trees Florida 2011



Kudos to Mike Robinson who was chair of the Trees Florida 2011 Conference and Trade Show held in Jacksonville in early June! From the Sunday Tree Academies to the Tuesday adjournment, the conference provided an excellent educational program, social events that were ‘out of this world’, the largest number of trade show exhibitors in recent years... and everything went off as smoothly as could be.

Mike Robinson and local host, Anna Dooley, along with a hard-working committee deserve a huge round of applause! Thanks to Mike and Anna, social event coordinator Glenda Hall, TREE Fund

Silent Auction coordinator Kim Pearson, exhibitor coordinator Eric Hoyer, A/V coordinator Mindy Moss, Education coordinator Ed Gilman and all the volunteers that pitched in to keep things running smoothly.

### Tell Us What You Think . . . About a Member Lending Library

Board member Richard Cervi has proposed a new member benefit: creating a lending library for members to use when studying for the Board Master Certified Arborist exam. Preliminary plans are outlined so that books can be borrowed for a nominal fee for a period of 30 days with one optional 30 day renewal.

**Please let us know what you think about this idea.** If you would be interested in using such a resource please let us know by emailing your comments to [floridaisa@comcast.net](mailto:floridaisa@comcast.net). The Chapter may send out a survey to get an overall overview of this idea and whether it is likely to be used.

**Let us hear from you!** ❖

With Florida's unique environment, extra attention must be paid to preserving our natural resources, especially our trees. By purchasing a TreesAreCool license plate you help underwrite programs that directly benefit trees of Florida which help keep our state the uniquely beautiful place we all call home.

Healthy trees benefit wildlife, increase property values and help cool and clean the air. The Florida Chapter of the International Society of Arboriculture, a non-profit organization, is committed to serving the needs of Florida's professional arborists and tree-care consumers. The TreesAreCool license plate revenues benefit our urban environment of Florida through tree research, the on-going education of tree-care practitioners, and by providing public education programs about tree care and preservation.



You do not need to wait for your current plate to expire. Do your part and order your TreesAreCool plate today!



### How to Order Your TreesAreCool Specialty Plate

**In person:** You can select and pay for your TreesAreCool specialty license plate in person at your county tax collector office.

**By mail:** Complete and return this form with your vehicle registration renewal notice and a check for an additional \$58 (\$25 annual donation, \$5 annual state fee and a one-time new plate fee of \$28). If your renewal notice indicates that it is time to replace your license plate, do not include the \$28 new plate fee.

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The TreesAreCool program is administered by the Florida Chapter of the International Society of Arboriculture (ISA).

*Urban Trees continued from page 9*

This includes over 65 tons of ozone (O3), 25 tons of particulate materials less than 10 microns (PM10), 7 tons of nitrogen dioxide (NO2), 6 tons of sulfur dioxide (SO2) and 3 tons of carbon monoxide (CO). This environmental benefit has an annual value of \$916,000.

**Applying the results of the study:**

The Town of Davie’s 2011-2016 Sustainability Plan indicates that the Town’s total carbon dioxide emissions in 2009 were 754,383 tons, and the Town is currently seeking to identify a goal for reducing this number to a sustainable level. The Town’s urban forest canopy currently sequesters enough carbon to reduce the Town’s net emissions by the equivalent of 34,146 tons of carbon dioxide per year, approximately 4.5 percent of current total emissions.

Beyond carbon emissions goals, the results of the study have helped to identify species that comprise the majority of the forest canopy. Some of these species are susceptible to significant risks, such as weeping

fig with the ficus white fly. The Town is using the list of the most common canopy species, combined with knowledge of known risks for these species, to identify potential species to discourage from planting on new landscaping projects. The Town is also using the list to promote using tree giveaways and other means, by identifying species that are growing well within the Town and have few species-specific pest/disease risks but as of yet comprise a very small percentage of the Town’s canopy.

Environmental advocates including the South Florida Audubon Society are using the valuations from the study to educate the public and elected officials on the financial benefits of preserving and enhancing the Town’s tree canopy.

For a copy of the complete report, including information and references about how dollar values are calculated for the environmental services, please contact Justin Freedman at [jfreedman@metriceng.com](mailto:jfreedman@metriceng.com).

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## News From International

### Meet Your New Certification Director, Marya Ryan



Marya Ryan started full time with ISA International on Monday, July 18, as new Director of Certification. She has been spending a few hours a week at ISA since mid-May. She is pleased to take on an established yet dynamic

certification program run by a great team. She has started meeting Certification Board members and looks forward to getting to know all of them in the very near future. She will attend the ISA Annual Conference in Parramatta, Australia, and start her first full week at ISA meeting our international stakeholders. She looks forward to working with the Certification Board to set priorities for the program. *Nothing like diving in head first!*

Marya is leaving her position as Director of i-card Programs at the University of Illinois to join ISA. In addition to her work as i-card Programs' Director, Marya's background includes project management, municipal government work, technical communication, and a PhD in English. She is a LEED accredited professional and a past chair of the Central Illinois Branch of the U.S. Green Building Council. She currently chairs the City of Urbana Sustainability Advisory Commission.

She is impressed with the dedication and teamwork of her new coworkers at ISA and is excited to work with them. The Certification team is looking forward to her arrival but is a little frightened of what missing a deadline could mean. :)

*Please help us welcome Marya Ryan, Director of Certification. ❖*

### ISA Membership Demographic Survey - YOU COULD WIN AN I-POD!

ISA has launched a membership demographic survey. The information will be gathered exclusively online. To encourage members to participate, two i-Pods loaded with ISA podcasts will be given out to two randomly selected survey participants. ISA International hopes all members participate as the more feedback they get, the more useful this information is to ISA and to chapters. The survey can be accessed at <https://www.surveymonkey.com/s/YSMX63P>.

### CALL FOR PRESENTATIONS for 2012 ISA Conference



ISA is seeking proposals for presentations for the 88th Annual International Conference, to be held in Portland, Oregon, USA, August 11-15, 2012. Sustainability is the focus of the conference, and the theme is "Trees: A Global Necessity."

Proposals will be accepted for 30- or 60-minute oral presentations during general and split sessions.

Proposals are also being accepted for Tree Academy workshops, Climbers' Corner demonstrations, and poster presentations.

Proposals will be evaluated based on overall quality, appropriateness and timeliness of topic, well-defined focus, practical application of material, and the subject's interest to a diverse audience.

Only proposals submitted online will be accepted. The deadline for submissions is October 17, 2011. To learn more about submitting a proposal, [visit ISA's Web site](http://www.isa-arbor.com/events/conference/submitPresentation.aspx). link to <http://www.isa-arbor.com/events/conference/submitPresentation.aspx> ❖

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for a full list of benefits.



# Trees Florida 2011

Chapter President Don Winsett recognizes the 15th anniversary of the Florida Chapter!

The Hospitality Suite was enjoyed by many

If you missed this conference, you missed a great one. This educational program was among the best we have done. One attendee told me that he used some of the information gathered at the conference a few days later to sell new tree work to an engineer.  
**Dr. Ed Gilman**

Thank you to all on my Conference Committee for what I think was one of our best conferences yet! The event went off well and our special events were fantastic, from the bus study, to the night at MOSH and the planetarium show, all were just awesome!!  
**Mike Robinson, Conference Chair**

Great classes, great evening events! I am looking forward to next year. **Bill**

The evening social at MOSH planetarium was a highlight! **Deb**

This year's conference had a great roster of speakers. Always top notch. **Scott**

What a phenomenal Conference! Absolutely top-shelf presenters, A Pink Floyd laser show, a great 15th Anniversary Party, a quick hop up into the Treaty Oak when nobody was looking. It's going to take me a week to process all the information and quite possibly plastic surgery to get the smile off my face! **Richard**



2010 FC-TCC champion Doug LaFortune and Mary Edwards share a laugh



Kim Paulson and Norm Easey



Rick Joyce and Vic Bernardini have a refreshment



Now, let's not turn this into a board meeting!




Deb Rothwell and Richard Cervi... smilin' after the Pink Floyd laser light show.



Florida Chapter ISA - 15 years young


Don't put away those sandals yet!  
**SAVE THE DATE!!**  
Trees Florida 2012 - June 10-11-12 - Captiva Island's - South Seas Island Resort




## Planting and Establishment Grades and Standards of Nursery Plants

**Hands-On Learning With The Experts**

Sarasota - 10/05/11  
Ft. Lauderdale - 10/07/11



CEUs - ISA 7.25 - FNGLA 4 - LIAF 4



# OUT ON A LIMB . . .

## Florida Chapter Well Represented at International TCC



Please join the Florida Chapter Board of Directors in congratulating *Eli Villagran* as the Florida Chapter Climbing representative at the recent International Tree Climbing Championship held in Sydney, Australia. Eli had a strong finish in 21st place overall at the ITCC event; great job, Eli!

## Looking Ahead to Florida Chapter TCC in 2012!



FC-TCC Chair Adam Jackson has preliminary plans in place to hold the 2012 Florida Chapter TCC in Dunedin FL. He is working on scheduling the event in March again and hopes to have spots for 35 climbers this year (combined male and female). Future details will be posted in the Florida Arborist; climber and volunteer application forms will be available in the winter issue.

[Click here](#) for full results of the ITCC.

### SALES/ESTIMATOR POSITION

**TCIA Accredited Company looking for a top producing experienced individual to build relationships by servicing existing clients and developing new customers in a high-end residential and commercial territory. Plant identification and tree pruning knowledge required. Diagnose problems, design treatment plans, provide job estimates and close sales. Must have excellent communication skills, be well organized, possess a strong work ethic and valid FL DL.**

**ISA certification is a plus.**

**FAX RESUME TO (561) 966-4612**

### ? DID YOU KNOW? ?

**TREES ARE COOL** has professionally produced educational videos in English and Spanish covering pre / post hurricane tree care and hiring an arborist available online!

#### **EASILY ADD THEM TO YOUR SITE**

Help spread the message to safeguard our trees from the ravages of weather, time and nature and provide a service for your visitors at the same time!

Go to

[www.treesarecool.com/Television.html](http://www.treesarecool.com/Television.html)

for more information





## 2011 Certification Exam Schedule

The FLORIDA CHAPTER of ISA is pleased to announce our  
2011 schedule of Certification exams. See the chart below for the site nearest you.

Date	Exam/ Class	Location	Time	Proctor or Instructors	Last Date to Register	Cost Member/ Nonmem
December 3 2011	Certified Arborist Exam	Miami-Dade IFAS 18710 SW 288 St. Homestead, FL	7:30 AM to Noon	Dr. George Fitzpatrick & Henry Mayer	Minimum 12 business days prior	\$150/ \$250
December 3 2011	Certified Arborist Exam	Hillsborough County IFAS Extension 5339 CR 579 Seffner, FL 33584	7:30 AM to Noon	Rob Northrop, Richard Bailey	Minimum 12 business days prior	\$150/ \$250
December 10 2011	Certified Arborist Exam	Leon County IFAS 615 Paul Russel Rd. Tallahassee FL 32301	8:30 AM. to 12:30 PM	Perry Odom	Minimum 12 business days prior	\$150/ \$250
December 10 2011	Certified Arborist Exam	PTEC - Room D-2 901 34th St. S St. Pete, FL 33711	8:00 AM. to 12:00 PM.	Richard Cervi & Glenn Duncan	Minimum 12 business days prior	\$150/ \$250

This schedule is subject to change as additional tests and review sessions may be added. Visit [www.floridaisa.org](http://www.floridaisa.org) for updates.

For an application form to register for an Exam call the ISA Office in Champaign, IL at 888-472-8733

To purchase an ISA Certification Study Guide, call the Florida Chapter ISA at 941-342-0153 or fax an order form to 941-342-0463.

The ISA Illinois must receive your application & exam fees A MINIMUM OF TWELVE BUSINESS 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). First-time applicants can apply online at [www.isa-arbor.com](http://www.isa-arbor.com).

\*\*\*PREPAYMENT IS REQUIRED\*\*\* VISA/MC/AMEX accepted. US FUNDS ONLY

### **Florida Chapter ISA - 2011 Education Schedule**

\*The schedule below is tentative and subject to changes.

Date	Seminar/Class	Location (s)	Open for Registration
September 16, 2011	Arborist Safety	Tampa	<a href="#">Click Here to Register</a>
Sept. 28, 2011	Tree Appraisal Workshop	Tampa	<a href="#">Click Here to Register</a>
October 5, 2011	Planting & Establishment with G&S Sarasota	Sarasota	<a href="#">Click Here to Register</a>
October 7, 2011	Planting & Establishment with G&S	Ft. Lauderdale	<a href="#">Click Here to Register</a>
October, 2011	Arborist Safety	Ft. Lauderdale	October TBA

# Welcome!

## New Florida Chapter Members

Here are the individuals that joined the Florida Chapter during the of the second quarter of 2011. 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
Paul	Amari	TAMPA	FL	James	Lineberger	JACKSONVILLE	FL
Joseph	Begala	SANFORD	FL	Mary Lopez	Wilson	PEMBROKE PINES	FL
Lloyd	Bozarth	LARGO	FL	Chad	Mako	OKAHUMPKA	FL
Robert	Browning	MILTON	FL	James	Moody	JACKSONVILLE	FL
Stanley	Buchanan	ORLANDO	FL	Suzanne	Newman	PLANTATION	FL
Steven	Burke	DUNEDIN	FL	Sean	O'Reilly	WEST PALM BEACH	FL
Craig	Conatser	TALLAHASSEE	FL	Hudson	Puente	MIAMI	FL
Bryan James	Durr	CLERMONT	FL	Keith	Remson	RIVERVIEW	FL
Carlton	Haney	CRAWFORDVILLE	FL	Michele	Rowland	NAPLES	FL
Jessica Lynn	Harlow	NAPLES	FL	Timothy	Trivett	BIG PINE KEY	FL
Robert	Hawter	ROTONDA WEST	FL	Jonathan	Wright	PALM HARBOR	FL
Drake	Kurlander	MIAMI	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 (888) 472-8733. Once you log in, you can update your address, check your CEU's, edit or verify Certified Arborist information and search the membership list.

### Letters to the Editor

We welcome your thoughts about Florida Arborist articles, about your Florida Chapter, or about tree issues in general.

Email your letters to:  
floridaisa@comcast.net

or mail to:  
Florida Chapter - ISA  
7853 S. Leewynn Court  
Sarasota, FL 34240



Please remember:  
Letters should be no longer than 300 words.  
We reserve the right to condense letters, or to edit as necessary.

An invitation to all members  
to attend a  
**Board of Directors Meeting!**  
Call 941-342-0153  
for specific times and locations

### Up-coming 2011 Board Meeting - Dates & Locations

September 22, 2011 - TBD - Ft. Lauderdale  
November 18, 2011 - TBD - Orlando



# Arborist Certification Committee Report

By Norm Easey, Florida Certification Liaison

There are four Florida ISA exams scheduled, the cities include: Homestead, Seffner, Tallahassee and St. Pete. [Click here for the specific dates.](#) The ISA Certified Arborist exam is also now available at Pearson Testing Centers throughout Florida. See the ISA International web site [www.isa-arbor.com](http://www.isa-arbor.com) for more information about the various ISA arborist credentials and how to earn them.

Arborist Certification is still moving ahead worldwide; there are now 25,315 ISA Certified Arborists, 949 ISA Certified Tree Workers, 1,597 Utility Specialists, 450 Municipal Specialists and 357 Board Certified Master Arborists. The Florida Chapter currently has 1757 Certified Arborists.

The Florida Chapter would like to congratulate the following 43 Florida individuals for earning their Arborist Certification, Climber Specialist, or Municipal Arborist Certification during the second quarter of 2011:

## Certified Arborist

Michelle Amaral, Vero Beach, FL  
 Brian Angelillis, Howey In The Hills, FL  
 Gladynette Benarroch, Marco Island, FL  
 Stephen Blackburn, Hollywood, FL  
 Emily Buchanan, Coral Springs, FL  
 Miguel Castillo, Hollywood, FL  
 William Clinton, Vero Beach, FL  
 Kevin Cope, Port St. Lucie, FL  
 Stephen Davis, Port St. Lucie, FL  
 Alexander Dobosiewicz, Gainesville, FL  
 Christopher Fasnacht, Fort Pierce, FL  
 John Godshall, Davie, FL  
 Paul Gottardo III, Fort Pierce, FL  
 Michael Guido, West Palm Beach, FL  
 Carlton Haney, Crawfordville, FL  
 Jessica Harlow, Naples, FL  
 Brenda Hedges, Fort Pierce, FL  
 David Hernandez, Miami, FL  
 Katherine Hernandez, Hollywood, FL  
 Heather Holley, Doral, FL  
 Erin Jenkins, Hobe Sound, FL  
 Joel Langaney, Cape Coral, FL  
 Jeff Langel, Fort Pierce, FL  
 Tsz Ching Leung, Hong Kong

James Lineberger, Jacksonville, FL  
 David McGrew, West Palm Beach, FL  
 Christopher Meitner, Fort Pierce, FL  
 Robert Newell, Weirsdale, FL  
 Quatisha Oguntoyinbo, Miami, FL  
 Robin Pelensky, Vero Beach, FL  
 Kevin Podkowka, Labelle, FL  
 Mark Pointon, Fort Pierce, FL  
 Paula Robb, Vero Beach, FL  
 Victor Rodriguez, Port St. Lucie, FL  
 Peter Rowan, Tallahassee, FL  
 Jerry Stanage, Fruitland Park, FL  
 Mark Stumpo Sr., Plantation, FL  
 Daniel Wall, Inverness, FL  
 Paola West, Pompano Beach, FL  
 Cheryl Zegelbone, Hollywood, FL



## Utility Specialist

Harold Curington, Florahome, FL  
 Nicholas Varhola, Stuart, FL

## Board Certified Master Arborist

Eric Engstrom, Kissimmee, FL

Are you thinking about becoming certified?

[Visit the International ISA website](#)

to access the certification application handbook with further information.

# International Society of Arboriculture Florida Chapter

Our Mission: "To Promote and Improve the  
Scientifically Based Practice of Professional Arboriculture"



## Arborist Code of Ethics

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.



Florida Arborist  
Florida Chapter ISA  
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Sarasota, FL 34240