

Fall 2017
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CAN WE VACCINATE TREES TO PROTECT AGAINST DISEASES?

by Dr. G. Percival, Bartlett Tree Research Laboratory

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PART 1: THE SCIENCE BEHIND THE THEORY

Over the past 10 years professionals involved in urban tree management have had to contend with a dramatic increase in pest and disease epidemics to include Dutch elm disease, oak wilt, sudden oak death, Asian long horned beetle, elm bark and leaf beetles and emerald ash borer. Unmanaged, these pest and diseases can prove devastating to several tree genera.

It can be argued that increases in global commerce, travel and purchasing of non-native tree species that potentially harbor pathogens may have facilitated the spread of these problems. Although work is being undertaken in the field of global plant security to focus on eliminating the introduction of foreign plant diseases a major problem is that trees that do not visibly appear to have disease symptoms can still be carriers for a hidden pathogen. Scientists refer to these trees as asymptomatic.

One issue all experts agree on, however, is that pest and disease issues will only become [Vaccinate continued on page 4](#)



A Message From the President



Dear Florida Chapter ISA Members,

For those of you who joined us to “Hang Out in Natural Florida” at Trees Florida 2017 I’m sure you will agree that it was an exceptional conference. Based on the positive feedback that I received from numerous attendees, exhibitors and speakers about the educational program and venue I think Trees Florida 2017 may be considered the best ever. I want to thank our Conference Chair, Bill Armstrong, and his

committee for planning and implementing new ideas and events which resulted in a great conference. This year’s events included the Past President’s Reception, Pub Crawl and a Lawn Party which ended up inside due to rain and proved to be just as much or more fun than if we had it outside.

I would also like to thank my Education Committee for thinking outside of the box while determining this year’s line-up of speakers which was the subject of much of the positive feedback. Lastly, thank you to our speakers, committees, volunteers and especially the Florida Chapter ISA CEO, Norm Easey and staff, Patty and Jan who also contributed to this great event.

The 2018 Trees Florida conference will be held at the Sanibel Harbour Marriot Resort, perfectly located in picturesque Fort Myers, Florida, just a short distance away from the famed beaches of Sanibel Island. Mark your calendars because due to popular demand we will keep the Monday, Tuesday, Wednesday format for next year’s conference to be held June 11 -13. Rick Joyce will chair the conference and I anticipate that Trees Florida 2017 won’t be considered the best for long. Rick will need plenty of help to exceed our expectations so if you are interested in getting involved contact the Chapter office.

Our June board meeting proved to be very productive. Kim Pearson was appointed to become our new ISA Council of Representatives (COR) representative. The primary function of the Council is to provide a forum of collaboration and cooperation between the individual chapters and ISA International. Kim attended her first meeting at the ISA International Conference in Washington DC at the beginning of August. In addition, an Ad-hoc By-laws Committee was appointed with Bonnie Marshall as the Chair. The committee will be tasked with the responsibility of updating, revising and streamlining our current by-laws and policies. It was reported by Norm Easey that the TRAQ renewal program will start this October. Certified arborists who became qualified during our first TRAQ classes approximately five years ago will want to get more information about renewal to ensure their qualifications don’t expire. Our “Empty Chair” participant was Carson Smith from O’Neil’s Tree Service and Climber Committee Chair, who updated

us on his plans to move forward with his committee.

In addition to our August and September educational offerings, the 2017 Florida Tree Climbing Championship (FLTCC) is scheduled for October 28 and 29 at Moss Park in Orlando with the Outdoor Tree School the Friday before. If you have not attended the FLTCC I encourage you to attend and get involved. The FLTCC is a great opportunity to experience the overall skills, athleticism and sportsmanship of the climbers in our industry.

President continued on page 3

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- ▷ Flyer



ORLANDO - MOSS PARK

Outdoor Tree School
 Friday, October 27, 2017

Florida Chapter TCC
 Saturday-Sunday, October 28-29, 2017

President continued from page 2

I and the board of directors invite you to get involved and see what the Chapter has to offer. Come to a board meeting, attend a seminar or come out and watch our climbers at the FLTCC. You will find board members at all events that are open to discuss your questions and ideas.

I would also like to extend a personal request. I have only two board meetings left of my year as president. I want to ensure that

I have focused not only on the needs of the Chapter that I have identified; I would like to address the needs that you as a member may have recognized. Please do not hesitate to contact me and I will do everything possible to communicate your ideas and needs to the board.

Lori Ballard
President, Florida Chapter ISA

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worse. In most instances government advice states that there are limited treatments for pest and diseases with recommendations largely based on tree removal and destruction; primarily by burning. However, continual reliance on this approach has its drawbacks.

For example, work in the United Kingdom by the author using horse chestnut (*Aesculus hippocastanum* L.) infected with *Pseudomonas* bleeding canker (*Pseudomonas syringae* pv. *aesculi*) has shown some trees have overcome initial infections without human intervention. Recent data (unpublished) from the Bartlett Tree Research Laboratory shows a similar response with acute oak decline. Consequently, premature removal before trees have the opportunity to demonstrate resistance could result in resistant trees being lost. Removal also obliterates a tree species which is important not only to people, but wildlife. For example, trees are a haven for birds, mammals, insects, lichen, moss, fungi and bacteria. One question that is rarely asked is how many billions of insects, fungi, bacteria have been destroyed because of this tree removal/sanitation policy? With these concerns in mind the Bartlett Tree Research Laboratory has initiated several research projects to include funding of two PhD students and successfully obtained funding from the 2016 Canadian TREE FUND, Hyland Johns Grant to investigate a potentially unique and environmentally benign system of preventing and managing major pest and disease outbreaks.

How do we currently control pests and diseases of trees?

If tree removal and destruction is not considered an option then managing pest and disease outbreaks relies primarily on treating the tree with either an organic, natural and/or synthetic plant protection product i.e. a fungicide, insecticide or bactericide. Application of these products is mainly via spray technology (high volume, electrostatic). On occasion, some products can be soil applied (drench) while development in trunk injection offers real potential for the future. The main issue here is that trees are being treated with a product that has direct toxicity against the pest or pathogen in question. Consequently, use of these products has led to a number of concerns such as the impact on nontargets caused by spray drift, ground water contamination and

[Vaccinate continued on page 7](#)

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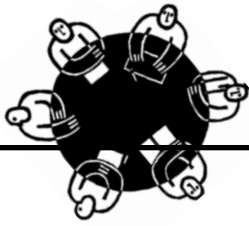


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Florida Chapter Board Updates

BOARD SHORTS:

THANKS FOR HANGIN' OUT WITH US AT TREES FLORIDA 2017!



Thanks to all attendees who were at Palm Coast for the Trees Florida 2017 Conference and Trade Show. Our feedback reflected appreciation of the outstanding education lineup of speakers in a beautiful location right along the Atlantic.

We tried a new schedule this year, and the general consensus of the survey results is to keep the Monday-Tuesday-Wednesday Schedule for Trees Florida 2018 in Fort Myers. Mark your calendar for June 11-12-13, 2018 at Sanibel Harbour Resort and we'll see you for another great event!

NEW COR REPRESENTATIVE FOR FLORIDA ISA



The Florida Chapter board of directors approved Kimberly Pearson to act as the Florida Chapter representative on the Council of Representatives (COR) for a period of three years beginning in July 2017. President Lori Ballard thanked outgoing COR rep Rick Joyce for representing of the Florida Chapter at the International ISA annual meeting and at all the COR conference calls.

2017 FLORIDA CHAPTER AWARDS



Congratulations to the 2017 Florida Chapter Award winners! Awards were presented at the Trees Florida 2017 luncheon in Palm Coast. The Chapter expresses their admiration and thanks to those who represent the arboriculture field with their talents, their energy and their time.

- **BOK AWARD:** Gene Dempsey, Fort Lauderdale (post-humous award)
- **PRESIDENT'S AWARD OF MERIT:** Apollo O'Neil, Ozona
- **EXCELLENCE IN EDUCATION:** Dr. Tim Broschat, Fort Lauderdale
- **AWARD OF DISTINCTION:** Art Finn, Clearwater
- **LOREN WESTENBERGER AWARD:** Jonathan Frank, Boca Raton



KIMBERLY PEARSON AND CHAPTER PRESIDENT LORI BALLARD WITH BOK AWARD FOR GENE DEMPSEY (POST-HUMOUS AWARD)

[Vaccinate continued from page 4](#)

build-up of pesticide resistance by target populations. As a result, there is a general reluctance to use any form of chemical protection within an urban landscape. Likewise, increased government legislative restrictions regarding the use and application of plant protection products, expense of application and significant training required for staff to apply these products can prove costly. There is now a fundamental requirement to develop new systems of pest and disease management.

How do we currently control pests and diseases of humans?

The concept of repeatedly spraying one-self with artificial chemicals to protect against pests and diseases would be considered ludicrous in today's society. Western medicine dictates that prevention of infectious diseases (typhoid, diphtheria, measles, hepatitis, small pox) is primarily via vaccination. In such circumstances, the human body is injected with a weakened or attenuated strain of a disease. This in turn stimulates the body to produce antibodies against that specific disease, which in turn confers immunity. Immunity is defined as "the ability of the human body to tolerate the presence of material indigenous to the body ("self"), and to eliminate foreign ("nonself") material. This discriminatory ability provides protection from infectious disease, since most microbes are identified as foreign by the immune system. Immunity to a microbe is usually indicated by the presence of an antibody to that organism. The principles of vaccination to prevent infectious diseases has been recognized since 1796 when Edward Jenner performed his famous experiment by vaccinating an eight year-old child with milk pox, having noticed that milkmaids who suffered the mild disease of cowpox never contracted smallpox, one of the greatest killers of the period. In essence Edward Jenner used a mild form of pox (milk pox) that boosted the human immune system and protected against the deadlier form of small pox. Importantly, a "one-off" vaccination can confer immunity for many years (at least 10) - and in some cases, last an entire life time.

Can we use these vaccination principles for trees?

The answer is yes. Vaccinating plants against pests and diseases is not a new concept; the idea of inducing resistance in response to plant diseases was recognized

in the early 20th century when heat or cold treated *Botrytis cinerea* (grey mold) when exposed to Begonia plants. Instead of causing infection as expected, this resulted in the plants developing resistance. It was later demonstrated that inoculation of a single leaf of tobacco with tobacco mosaic virus reduced the severity of subsequent infections on other leaves throughout the plant.

Since then hundreds of published papers now exist demonstrating how a plant's own defense mechanisms can be "switched on" by prior treatment with either a biological (weakened disease) or chemical (inorganic potassium and phosphate salts) agent. Interestingly, tree defense responses are superior to that of a human in that an injection against typhoid, for example, would only confer immunity against typhoid. Further separate injections would be required if immunity against diphtheria or measles was required. In trees, however, a single vaccination causes alterations to several plant biochemical and physiological processes. These include accumulation of antimicrobial proteins, fungi-toxic enzymes, phenolics and terpenoids within leaves, stems and roots.

At the whole plant level leaves become thicker and more lignified increasing resistance to degradation of the leaf surface caused by enzymes released by the invading pathogen. In conifers enhanced resin production, production of phenolics and initiation of a wound periderm occurs. Importantly, because multiple defense mechanisms are switched on at the same time means it is highly unlikely that pests and diseases can develop resistance to this measure. In addition, a single vaccination has been shown to provide resistance against biologically different pathogens (fungal, bacterial, viral) over a growing season to include fire blight (bacterial), *Phytophthora* root rot (algae), powdery mildew (fungal), *Ceratocystis* spruce wilt (vascular wilt fungus), horse chestnut leaf miner (insect). Current plant protection technology would require the use of three different chemicals i.e. a fungicide, a bactericide and an anti-viral product to achieve any degree of control.

A small but significant step

A few years ago, field trials were conducted at the Bartlett Tree Research Laboratory using four-year-old

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horse chestnut (*Aesculus hippocastanum* L.) to assess the efficacy to two products known to “switch” on tree defense systems. These were potassium and silicon phosphite which were being evaluated as plant protection agents against the bacterial pathogen *Pseudomonas syringae* pv *aesculi* (Pae) the causal agent of *Pseudomonas* bleeding canker of horse chestnut. Results demonstrated that application of both phosphites reduced Pae lesion size, the main proxy of Pae success or aggressiveness. However, the uniqueness of this result was that these phosphites were applied as a root drench as well as a foliar spray. Applying products as a root drench opens up many opportunities to manage tree pest and diseases without the need to spray and raises the real possibility that tree resistance can be acquired by exposing a tree to natural and/ or synthetic soil amendments applied at the time of planting or around the base of established trees using for example air-spade technology. With funding secured from the TREE Fund, Hyland Johns Grant “Can Soil Amendments Reduce Disease Severity in Trees?” research at the Bartlett Tree Research Laboratory aim to evaluate a range of potentially powerful, stable and non-toxic resistance inducing soil amendments singly and in combination against controlling two worldwide economically important tree diseases i) apple scab (*Venturia inaequalis*) a foliar biotrophic pathogens and ii) *Phytophthora* root rot (a root invasive pathogen).

PHOTO CREDIT: Dean Morewood, Health Canada, www.bugwood.org

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Part II in our next issue, Dr. Percival will look at how Bartlett Tree Research Laboratory has just received funding through the Tree Fund to turn the “science into practice”. ❖

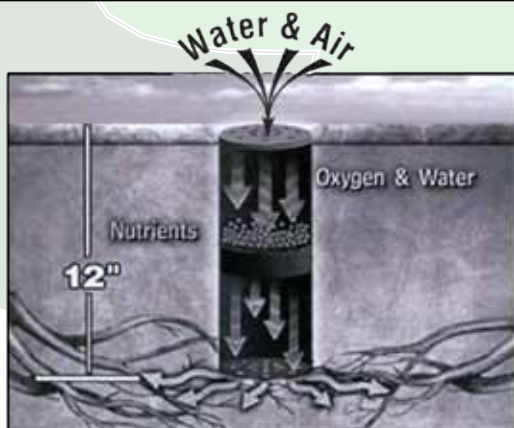


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From the Family Farm to UF/IFAS: The New Chair of Environmental Horticulture

By: Brad Buck



GAINESVILLE, Fla. --- When he was 4, Dean Kopsell moved with his family to a 200-acre nursery in northern Illinois. He spent days roaming the farm, wading in the creek that ran through the property and playing in the barns.

In high school and college, Kopsell worked summers with his dad, selling shade trees and shrubs. It seemed natural that he would study plants in college. After he earned his bachelor's degree, Kopsell, returned to the family business and worked in the nursery.

After his parents retired, Kopsell went back to college, earning advanced degrees. Then he got his hands dirty -- in a different way -- toiling for nearly 20 years in research fields and

labs and teaching plant sciences. Now, he has been named chair of the UF/IFAS department of environmental horticulture.

Kopsell comes to UF/IFAS from the University of Tennessee, where he has worked since 2004, the last four years as professor plant sciences. Before UT, he worked as an assistant professor of plant sciences at the University of New Hampshire.

Jack Payne, UF senior vice president for agriculture and natural resources, named Kopsell to the position following a national search.

Dean continued on page 11



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Dean continued from page 10

“We had to choose from a number of high-quality applicants, but Dr. Kopsell stood out from the rest because of many factors,” said Payne. “He brings a broad vision and a wealth of knowledge about plant industry research, Extension and education that can help UF/IFAS continue to build its relationships with Florida’s burgeoning ornamental industry.”

Kopsell starts at UF/IFAS Aug. 25. Before coming here, Kopsell gained valuable administrative experience by working as the research coordinator for his academic department at UT as well as vice president of the research division of the American Society of Horticultural Sciences.

He said he was interested in running the UF/IFAS environmental horticulture department partially because of its talented faculty and national reputation. In addition, departmental participation in the newly formed plant science degree program will make a difference in training the next generation of horticulturalists, he said.

“One of the greatest strengths is the applied horticulture within the department,” Kopsell said. “Whole-plant horticultural physiology and plant improvement are two areas in high demand within industries, and faculty in the department are having big impacts in these areas, as well as environmental horticulture as a whole.”

Another factor that attracted Kopsell to UF/IFAS is the size and scope of the ornamental horticulture industry in Florida. Kopsell harkens to his early days at the family nursery when relating to the horticulture industry. He irrigated plants, helped with planting new stock material, helped with propagation and equipment maintenance, cultivation and loading trucks.

“Florida leads the nation in the production of many horticultural crops, and it is a tremendous opportunity to work with the industry,” he said.

Kopsell’s first goal as chair will be to visit environmental horticulture in the UF/IFAS research and education centers. Secondly, he wants to continue the strong relationships already established with the Florida green industry. Thirdly, he wants to get to know UF/IFAS and the university system.

“A good understanding of on-campus entities will help me serve the depart-

ment and mentor younger faculty and staff,” Kopsell said.

His fourth goal will be to develop a new strategic plan for the department. For the future of the department, Kopsell emphasized how important it is to keep current with technology; stay relevant; reduce financial burdens as they relate to research, teaching and Extension; and attract and train the next generation of horticulturists.

At Tennessee, his research program focuses on mineral nutrition and plant physiology, specializing in increasing the nutrition of specialty crops for improved human health. He has served as lead author or a co-author on about 140 peer-reviewed articles.

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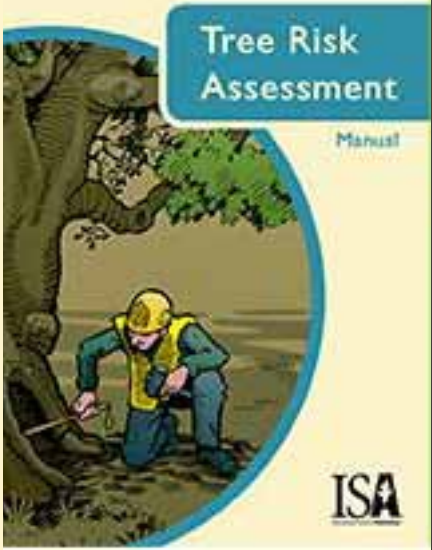


Dean continued from page 11

Kopsell earned his bachelor’s degree in agribusiness from Illinois State University, and his master’s and doctoral degrees in horticulture from the University of Georgia.

He remembers his days in the nursery with fondness – days that laid the foundation for his current career.

“Some of my best memories were working with the crew and having them teach me how to ball and burlap hand-dug plant material,” Kopsell said. ❖

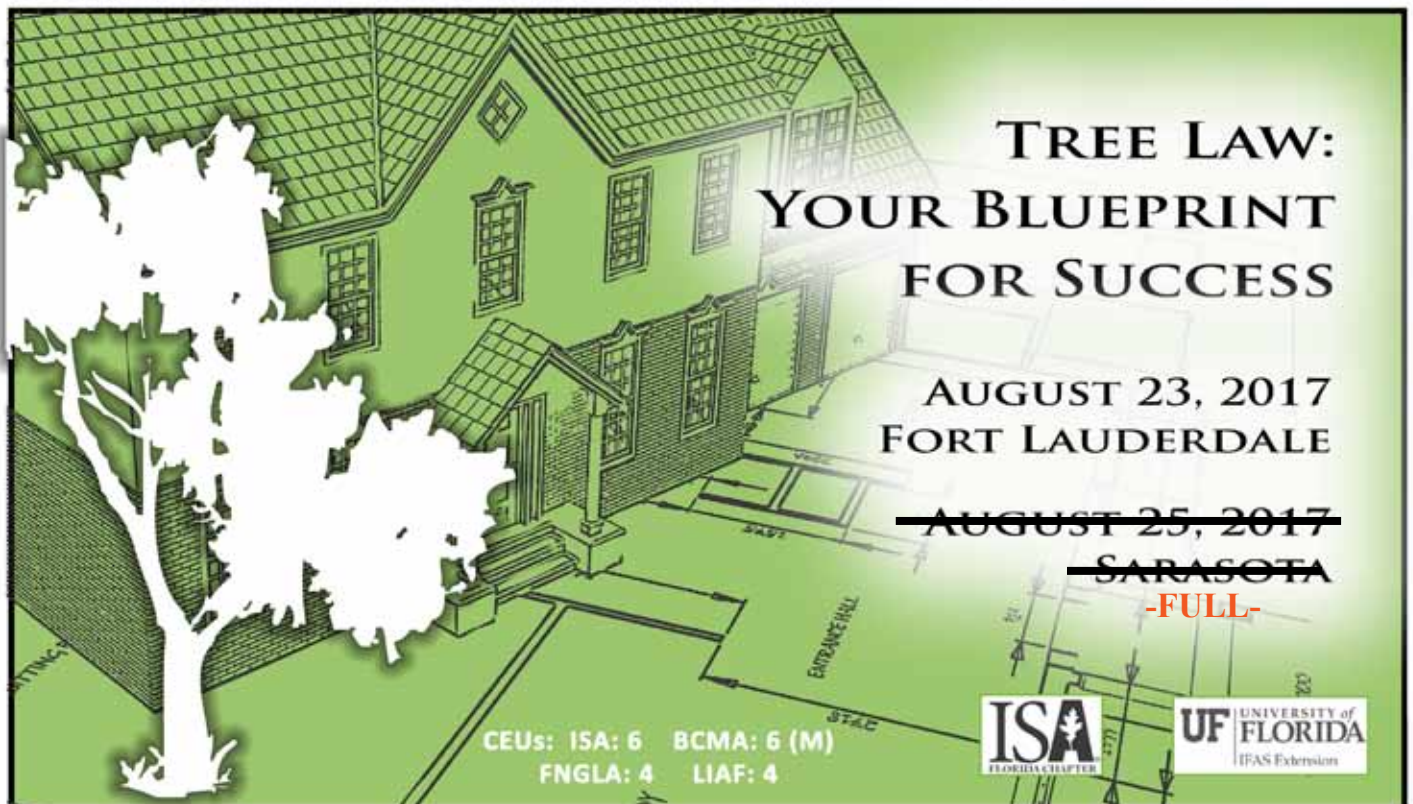
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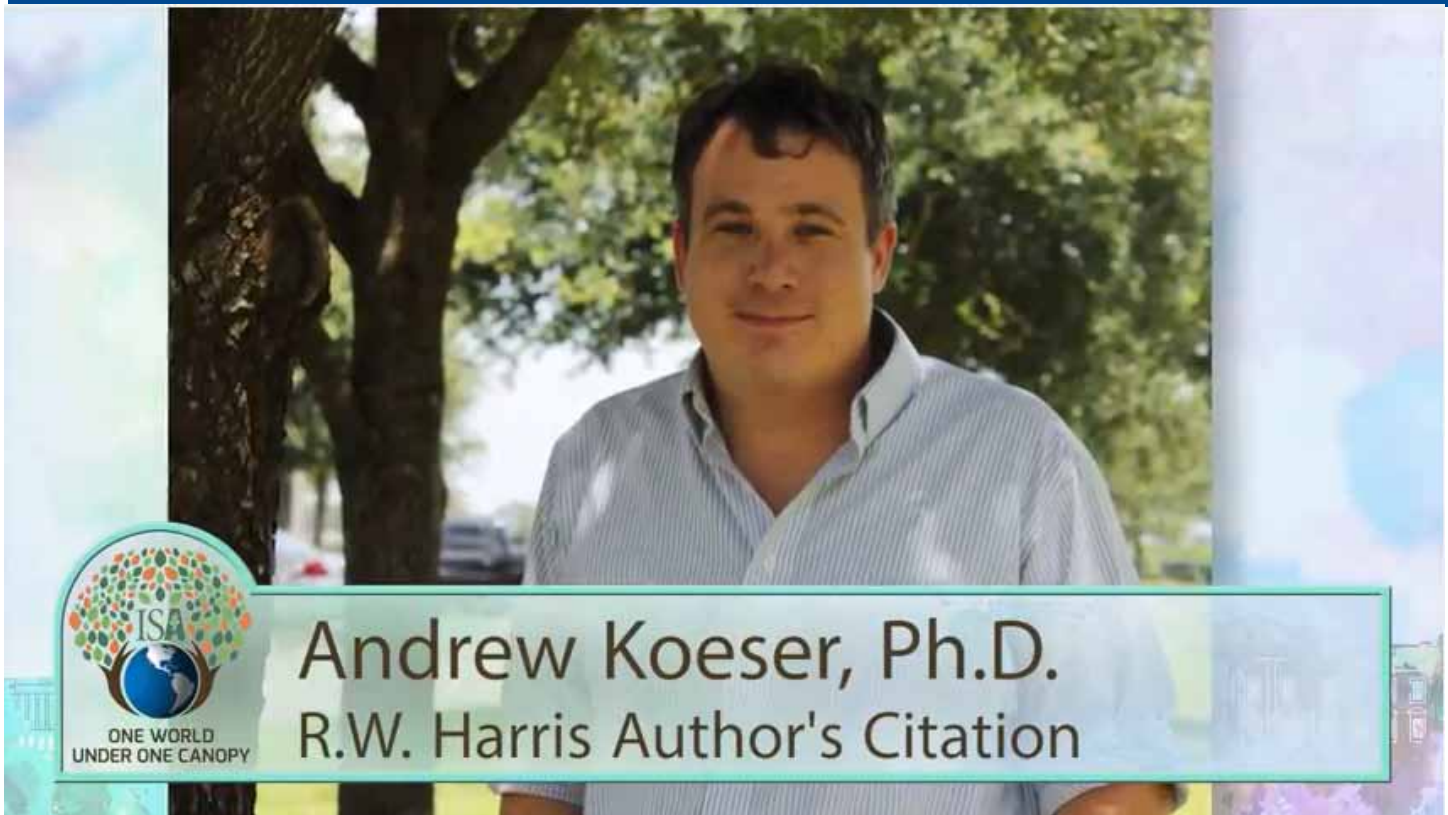
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Florida Professor Recognized with Second International Award from ISA

Dr. Andrew Koeser writes popular guide books on Florida trees



The Florida Chapter ISA would like to congratulate Dr. Andrew Koeser of the UF-IFAS Gulf Coast Research and Education Center, Wimauma, Florida, as this year's recipient of the International Society of Arboriculture's (ISA) R.W Harris Author's Citation Award. This Award of Distinction is given to authors who consistently publish timely and valuable content related to the field of arboriculture.

Koeser, an assistant professor of Environmental Horticulture at the University of Florida, is an ISA Board Certified Master Arborist® and is Tree Risk Assessment Qualified. This is the second time he has been recognized by ISA with an Award of Distinction. Koeser received the Early-Career Scientist Award in 2015.

"Dr. Koeser has enjoyed many accomplishments in his young career," says Michelle Mitchell, ISA board president. "He is incredibly ambitious when it comes to his projects and publications. The industry looks forward

to much more from him throughout his career."

According to Koeser, he truly loves to write. "I write every day even if only for an hour," says Koeser. "As authors, you must write – especially when you don't feel like it." He advises, "Writing each day requires less time spent picking up where you left off and allows for more time to be creative."

Among Koeser's highly-regarded contributions is a series of publications focusing on trees in Florida. Previous books on Florida trees lacked photos and were not designed for identification. "I am a visual learner and have a hard time with botanical line drawings," Koeser explained. "For our series of books, we made sure to shoot clear photographs of all of the key parts of a tree for easier identification." So far, the books in the series include *Trees of North and Central Florida* (released in 2014), *Trees of South Florida* (released 2017), and the third, *Palms and Palm-like*

Koeser continued on page 15

[*Koeser continued from page 14*](#)

Plants of Florida, nearing completion.

Koeser also spends a lot of research time on the topic of tree risk assessment. He is currently working on a project with colleagues to develop a mobile app that will aid in risk assessment data collection and mapping. “I think the app project has the potential to gather the best user data needed to make a reasonable assessment of potential tree failure,” he says. “The app is still in development and recent research results will go a long way toward advancing the project.”

Koeser was recognized during the opening ceremony of the ISA Annual International Conference and Trade Show on Sunday, July 30 in Washington, D.C. “We continue to provide our support to the Awards of Distinction because of the true difference individuals like these make – not only within our industry, but even

more importantly, for the betterment of our communities and urban forests,” states Robert Bartlett Jr., chairman and CEO of Bartlett Tree Experts, sponsor of The Awards of Distinction. “Congratulations to this year’s recipients and thank you to all those who work tirelessly to advance the field of arboriculture.”

ISA, with more than 30,000 members and credential holders worldwide, has been honoring members and industry professionals with the Awards of Distinction since 1963. Nine categories recognize candidates in such areas as research, publishing, education, and advancing the cause of the organization. Nominations are reviewed by the ISA Awards Committee and winners are selected then presented to the ISA Board for approval. ❖

[Click here for a video on Dr. Andrew Koeser.](#)

ITCC RESULTS

The Florida Chapter ISA proudly acknowledges Alisha Amundson and Jason Gerrish as the female and the male climbers who represented the Chapter with their climbing expertise at the International Tree Climbing Championship at the Washington DC National Arboretum in July. Though the weather put a damper on the

event on the first day, the climbers finished their events on the second day with solid results. Alisha Amundson won third place in the Throw Line event and both Alisha and Jason had nice final totals against other climbers from across the world. Thanks to both climbers for representing the Chapter!



Alisha Amundson: 2017 ITCC



Jason Gerrish: 2017 ITCC



**The 3rd Annual Saluting Branches
will be
Wednesday, September 20, 2017.**

Saluting Branches: Arborists United for Veteran Remembrance is an opportunity for tree care professionals throughout the country to unite and do what we do best – provide exceptional tree care – to keep our veterans cemeteries safe, beautiful places for all those who visit. We need you to help make Saluting Branches 2017 another successful event!

There are two Florida Locations this year:

- Florida National Cemetery in Bushnell, FL
- South Florida National Cemetery in Lake Worth, FL

Saluting Branches is our way of saying thank you to veterans who have given us so much. The 3rd Annual Saluting Branches will take place on Wednesday, September 20th, 2017. Through our partnership with the U.S. Department of Veterans Affairs, we look forward to providing another successful day of volunteer tree care for veterans’ cemeteries throughout the country!

[Click here to sign up for your location.](#)

The Florida Chapter ISA Presents

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Florida Chapter ISA Presents

ISA Tree Risk Assessment Qualification FULL COURSE & EXAM

**3 days: Wednesday, October 11, 2017: 8 AM - 5 PM
Thursday, October 12, 2017: 8 AM - 5 PM
Friday, October 13, 2017: 8 AM - noon**
**UF-IFAS Fort Lauderdale Research & Education Center
3205 College Avenue - Davie, FL 33314**



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ISA BCMA 6-Pract / 6-Mngmt / 2.5-Sci

Industry News

SOMETHING BUGGING YOUR TREES? - CHECK OUT A NEW DIAGNOSTICS FORUM



The Southern Forest and Tree Health Diagnostics is a new and rapidly growing online forum focused on identification of pests and diseases in your city, or your forest. Simply join the group and report your tree health issue. Entomologists and pathologists at

the University of Florida, University of Georgia and other institutions and companies will have an answer for you in a few minutes, and will try to recommend a solution that you may or may not find in textbooks. Visit the new Forest Health Diagnostic forum on Facebook: <https://www.facebook.com/groups/Southern-TreeHealthDiagnostics/>. This is a strictly professional forum. We do not share any personal information, all we share is advice and news on tree health in the Southeastern region.

SOUTHEASTERN URBAN WOOD EXCHANGE INVITES BUSINESSES TO LIST THEIR PRODUCTS & SERVICES



Free online directory connects tree care professionals, sawyers and woodworkers to create or grow local urban wood networks.

The Southeast Urban Wood Exchange encourages all businesses in the U.S. Forest Service's Region 8 with a stake in the urban wood movement to quickly and easily list their products and services for free at UrbanWoodExchange.org.

UrbanWoodExchange.org is a new clearinghouse for businesses ranging from professional tree care and removal services through sawyers, kiln dryers and lumber suppliers to connect and create local urban wood networks. The Urban Wood Exchange features a searchable database that helps users find urban wood

providers in their state.

Businesses can list their products and services by simply logging onto UrbanWoodExchange.org. Product listings include Cut Logs, Milled Lumber and Firewood/Chips. Service listings include Arborists, Sawyers, Kiln Operators and Lumber Sellers.

An underlying mission of the Southeast Urban Wood Exchange is helping to facilitate the highest and best possible use of community trees at the end of their service. These trees are felled due to old age, insect infestation, storm damage, utility excavation and other circumstances. They are never meant to be removed, however, solely for their wood value.

“Our goal is to encourage utilization of urban wood on the local level including producing sustainable lumber for use in municipal projects and by professional and hobbyist woodworkers,” said Nancy Stairs, Urban Forestry Program Coordinator of the North Carolina Forest Service (NCFS). “By treating removed urban trees as a resource the costs associated with the removal and disposal of trees are reduced and the amount of urban wood in the waste stream is minimized.”

The Urban Wood Exchange is hosted by the North Carolina Urban Forest Council, in partnership with the NC Forest Service's Urban & Community Forestry Program and funded through the USFS Southern Region 8. The Exchange serves 13 states extending from Florida to Texas on the south and Virginia to Oklahoma on the north.

Register your urban wood products and services or learn more at UrbanWoodExchange.org.

About the Urban Wood Exchange

The Southeast Urban Wood Exchange is a free online directory of urban wood products and services funded through the U.S. Forest Service Southern Region 8. Region 8 encompasses the following 13 states: Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas and Virginia. For more information visit UrbanWoodExchange.org. Contact: Rich Christianson richsonmediapro@gmail.com 773-822-6750 ❖

Pruning and Training Tropical Fruit Trees

Henry Mayer, Miami Dade IFAS Extension Agent

Based on the fact sheet from: Jeff Wasielewski, Commercial Tropical Fruit Agent, UF/IFAS, Miami-Dade County Extension Service, Jonathan H. Crane, Tropical Fruit Crop Specialist, UF/IFAS, Tropical Research and Education Center, John McLaughlin, Program Assistant, UF/IFAS, Miami-Dade County Extension Service and Carlos Balerdi, Emeritus Commercial Tropical Fruit Agent, UF/IFAS, Miami-Dade County Extension Service.

The art and science of pruning takes time and thought. Before making the first cut, study the tree's potential size and natural shape, and imagine how it might appear in three to four years. Try to maintain that shape in your mind as you prune. This will help you to make the sometimes difficult decisions associated with pruning. The recommended tree height for tropical fruit trees varies and depends upon the species and sometimes the cultivar (Table 1). Some types of tropical fruit trees, and particularly some specific cultivars, are less vigorous than others and have a tendency towards profuse branching and smaller internodes which facilitate maintaining a smaller tree and heavy fruiting. Others are inherently more vigorous and must be allowed to be larger trees to remain fruitful.

In training young fruit trees, the goal is to try to shape the tree for the future by creating a multi-branched structure that allows all portions of the tree to be exposed to sunlight. Generally, tree training is only necessary the first two to three years after planting, thereafter, to maintain fruit production (from the ground upward) selective pruning is used to control tree height and spread and maintain fruit production. Tree training and pruning to maintain height begins when the fruit tree is newly planted. A heading cut should be made at approximately three feet from the ground if the tree is not already branching. This cut will encourage the tree to develop three to four branches which will eventually become the main branches of the tree. Heading cuts should be applied to the resulting branches when they reach approximately 20 inches. This will again cause branching and should be repeated each time a branch reaches about 20 inches.

In order to maintain fruit production in a tree's lower canopy, it must be exposed to sufficient light. When fruit trees are allowed to grow too tall or to become shaded by adjacent trees

the lower canopy will be lost and only the middle or top of the tree will flower and eventually set fruit. To prevent this, fruit trees should be pruned annually or biannually. When you are ready to begin pruning, look for unhealthy conditions such as included bark, dead wood or crossed branches and rectify these as you prune. Remember that each cut you make on the tree is causing the tree stress by producing a wound on the tree. With that in mind, keep pruning cuts to a minimum and only prune what you feel must be removed. Prune with a purpose.

After the obvious cuts have been made to further the tree's health, it is time to evaluate what remains to be done. This is the time in pruning when your mind is just as important as your saw. Decide what cuts are needed in order to reduce the tree's height, open the canopy to decrease wind resistance, and at the same time, maintain the overall shape of the tree. Vigorous vertical branches should always be removed in favor of horizontal or wide-angled branches. The horizontal or angled branches will help the tree to maintain a reduced height. This type of pruning continues until the tree is about two to four years old. Once the tree has reached the desired height, one to two thinning cuts a year should be made to help control the height. Over time major woody branches will develop which do not contribute much to fruiting and can be removed one by one over a period of several years. This will result in the rejuvenation of the overall canopy of the fruit tree as well as help to control tree height.

Mature trees are those that are either bearing fruit or are more than four to five years old. The height and eventually the spread of mature trees should be such that fruit production is maintained throughout the entire tree canopy. When you are ready to begin pruning, look for unhealthy conditions such as included bark, dead wood or crossed branches and rectify



First pruning cut
(credit: J. Wasielewski)



Good young branching
(credit: J. Wasielewski)



Eventual shape of tree
(credit: J. Wasielewski)

these as you prune. Remember that each cut you make on the tree is causing the tree stress by producing a wound on the tree. With that in mind, keep pruning

[Pruning continued on page 20](#)

Poda y Formacion de Arboles de Frutos Tropicales

Henry Mayer, Miami Dade IFAS Extension Agent

Based on the fact sheet from: Jeff Wasielewski, Commercial Tropical Fruit Agent, UF/IFAS, Miami-Dade County Extension Service, Jonathan H. Crane, Tropical Fruit Crop Specialist, UF/IFAS, Tropical Research and Education Center, John McLaughlin, Program Assistant, UF/IFAS, Miami-Dade County Extension Service and Carlos Balerdi, Emeritus Commercial Tropical Fruit Agent, UF/IFAS, Miami-Dade County Extension Service.

El arte y la ciencia de podar toma tiempo y análisis. Antes de dar el primer corte, estudie su tamaño potencial y forma natural, e imagíneselo cómo lucirá tres o cuatro años más tarde. Trate de mantener esa forma en su mente al podar. Esto lo ayudará a hacer decisiones difíciles asociadas con la poda. La altura recomendada para árboles de frutos tropicales varía y depende de la especie y algunas veces del cultivar (Table 1). Algunos tipos de frutos tropicales, y particularmente algunos cultivares, son menos vigorosos que otros y tienden a tener abundantes ramas y cortos entrenudos lo que facilita mantener a un árbol pequeño y alta fructificación. Otros, son inherentemente más vigorosos y se deben dejar alcanzar mayor tamaño para que se mantengan productivos.

En la formación de un árbol joven, el objetivo es formar al árbol para el futuro creando una estructura ramal que permita que todas las porciones del árbol estén expuestas a la luz solar. Generalmente, la formación del árbol es necesaria los dos o tres primeros años después de la siembra, y después para mantener la producción (del suelo hacia arriba), usar poda selectiva para mantener la altura y el ancho y mantener la producción. La formación y poda para mantener la altura comienza al sembrar el árbol. Un corte de destope se debe hacer aproximadamente a tres pies del suelo si el árbol no tiene ramas. Este corte ayudará al árbol a producir tres o cuatro ramas que eventualmente serán las ramas principales. Cortes de destope se deben hacer a estas ramas cuando alcancen 20 pulgadas. Esto inducirá más producción de ramas y deberá repetirse cada vez que las ramas lleguen a 20 pulgadas.

Para mantener la producción en la parte más baja del árbol, esta tiene que estar expuesta a suficiente luz. Si a los frutales se les deja crecer demasiado alto, o que sean sombreados por árboles adyacentes, el follaje inferior del árbol se perderá y

solo la mitad o la parte superior del árbol florecerá y producirá frutos. Para prevenir esto, los árboles deberán ser podados anual o bianualmente. Cuando este preparado para podar, busque áreas no sanas tales como ramas muy juntas, muertas, o cruzadas y rectifique esto al podar. Recuerde que cada corte causa estrés. Con esto presente, use un mínimo de cortes y solo podelo que es necesario. Podelo con un propósito.

Después de hacer los cortes obvios para mejorar la salud del árbol, evalúe lo que queda por hacer. Este tiempo de la poda es muy importante. Decida los cortes necesarios para reducir la altura, aclarar el follaje para disminuir la resistencia al viento, y al mismo tiempo, mantener la forma del árbol. Las ramas verticales y vigorosas siempre deberán cortarse preferiendo las horizontales. Este tipo de poda continua hasta que el árbol tenga de dos a cuatro años. Una vez que el árbol alcance la altura deseada, uno o dos cortes de entresaque al año se deben hacer para controlar la altura. Al pasar el tiempo, habrá ramas muy gruesas que no contribuyen a la fructificación y pueden ser cortadas una a una a través de los años. Esto resultará en la rejuvenación del follaje del árbol y ayudará a controlar la altura.

Busque el artículo completo en : http://miami-dade.ifas.ufl.edu/pdfs/tropical_fruit/Tropical%20Fruit%20Pruning%20Factsheet%20Final.pdf

[See Table 1. on page 18](#)



First pruning cut
(credit: J. Wasielewski)



Good young branching
(credit: J. Wasielewski)



Eventual shape of tree
(credit: J. Wasielewski)

Pruning continued from page 18

cuts to a minimum and only prune what you feel must be removed. Prune with a purpose. If tools are used to remove diseased wood cutting surfaces should be disinfected after each cut (1 part pine oil disinfectant to 3 parts water). Homeowners frequently allow fruit trees such as mango and avocado to become far too large. These trees should be reduced in size, but it is a job best left to a professional arborist, particularly if it requires climbing into the tree.

Check the whole article at: http://miami-dade.ifas.ufl.edu/pdfs/tropical_fruit/Tropical%20Fruit%20Pruning%20Fact-sheet%20Final.pdf

Table 1. Recommended plant height for tropical fruit trees

Common Name	Scientific Name	Recommended maintenance tree height (ft)
Abiu	<i>Pouteria caimito</i>	8-12
Atemoya	<i>Annona cherimola</i> x <i>A. squamosa</i>	8-12
Avocado	<i>Persea americana</i>	10-15
Banana	<i>Musa</i> hybrids	Control suckers
Black sapote	<i>Diospyros digyna</i>	12-15
Caimito (star apple)	<i>Chrysophyllum cainito</i>	8-12
Canistel (egg fruit)	<i>Pouteria campechiana</i>	10-12
Carambola	<i>Averrhoa carambola</i>	6-12
Cashew	<i>Anacardium occidentale</i>	10-12
Citrus	<i>Citrus</i> species	10-14
Cocoa	<i>Theobroma cacao</i>	6-8
Coffee	<i>Coffea arabica</i> , <i>C. canephora</i>	5-15
Custard Apple	<i>Annona reticulata</i>	8-12
Guava	<i>Psidium guajava</i>	3-12
Jaboticaba	<i>Plinia cauliflora</i>	8-12
Jackfruit	<i>Artocarpus heterophyllus</i>	8-14
Longan	<i>Dimocarpus longan</i>	10-15
Loquat	<i>Eriobotrya japonica</i>	6-12
Lychee	<i>Litchi chinensis</i>	10-15
Macadamia	<i>Macadamia integrifolia</i> and <i>M. tetraphylla</i>	12-14
Mamey sapote	<i>Pouteria sapota</i>	12-15
Mamoncillo	<i>Melicoccus bijugatus</i>	12-15
Mango	<i>Mangifera indica</i>	6-15
Pineapple	<i>Ananas comosus</i>	---
Pitaya	<i>Hylocereus undatus</i> and hybrids	---
Pomegranate	<i>Punica granatum</i>	9-12
Sapodilla	<i>Manilkara zapota</i>	12-15
Soursop	<i>Annona muricata</i>	8-12
Spondias	<i>Spondias</i> species	8-12
Sugar apple	<i>Annona squamosa</i>	8-12
Tea	<i>Camellia sinensis</i>	5-6
White sapote	<i>Casimiroa edulis</i> and <i>C. tetrameria</i>	10-15

Consultant's Corner

by Joe Samnik, Consulting Arborist



WHOSE TREE IS IT ANYWAY?

The Florida Chapter, ISA, will be conducting a great seminar regarding tree law and related components, including how to write a contract and avoiding litigation. The segment on contract writing alone is worth the price of admission.

One topic which will be presented is the time-honored question, "Whose tree is it anyhow?" With homeowners, condominiums, homeowner associations and the like where people and trees are involved, this is an event waiting to explode underfoot.

The question of who owns a tree at first blush has a simple explanation: any tree whose entire trunk is located on one property is the owner of that tree. The mischief starts when the trunk or root plate has encroached onto another property or, in some cases, encroaches onto more than another single property. In such matters as these the tree is owned as tenants in common. Establishing the ownership of a tree is crucial to determining the rights, potential liability, and the responsibilities of the owner juxtaposed to the neighboring landowners. It puts great limitations on our work as arborists.

Before starting to work on a tree, regardless of the scope of work, you need to understand and realize who owns the tree. If the tree has more than one owner, you must have permission from all owners to work on the tree, regardless of the scope of what you will be doing. This reduces itself even to removing deadwood. You cannot work on other's property without the owner's permission. If you were smart, this permission would be in writing, such as a written contract from each tree owner or a contract with available signature lines for each owner. Make certain that each owner signs the contract or your work proposal. Don't start work without a signature.

Another common concern is encroaching tree parts from one owner onto another owner's property. Whether it's a limb, branch, or other tree part the question becomes, "Do you have the right of removal if the offending part is on your client's property, but the tree does not belong to your client?"

In Florida, Kentucky, Massachusetts, Maryland, and the District of Columbia the *Massachusetts Rule* is a landowner's sole remedy to self-help; *Michalson v.*

Nutting, 175 N.E. 490, 490-91 (Mass.1931). The burden to make property safe from a neighbor's encroachment is in the hands of self-help. If the offending neighbor can be talked into sharing the costs, great. But the financial burden lies with the person seeking self-help, and not the owner of the tree causing the problem. Unfair? Perhaps. But it is straightforward and easily understood. Like it or not, those are the ground rules for encroaching tree parts including roots.

But what happens if, when you prune or otherwise remove offending parts, the tree suffers because of your actions? The answer is unclear; however, there is no question but that you can be tried in a court of law for causing (potentially irreparable) damage to a tree that you have worked on, even when exercising self-help. Watch yourselves. Get things in writing. Make certain, if you can, that the person who owns the offending tree is aware of what you're about to do to his tree. The trouble typically starts when the owner of the tree is unaware that parts of his tree are causing a dangerous situation or a neighbor distress. Speak before you act. Reduce agreements to writing. Put your intentions in writing.



Everybody signs. Walking from a job hurts, but going to court hurts worse.

There are other approaches to self-help beside the Massachusetts Rule. They include the Reinstatement Rule, the Virginia Rule and the Hawaii Rule.

The *Reinstatement Rule* requires the control of artificial vegetation, but not natural vegetation. Unbelievably, if a tree was landscaped or installed then there is a duty to protect neighboring interests; but if the tree grew naturally no duty exists.

The *Virginia Rule* states that encroaching plants or trees that are not noxious in nature and cause no sensible injury need not be controlled from encroachment onto other's properties. That leaves the landowner with the remedy of self-help. The trouble starts with differentiating as to whether the tree is noxious by nature or because of the injury it causes. What a mess.

[Whose Tree continued on page 22](#)

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Whose Tree continued from page 21

The *Hawaii Rule* states that if a tree has or will in the near future cause damage or danger to a neighbor's home then the owner is responsible for the remedy. This approach to remedy certainly makes the most sense and is included in many states law.

Take care before you cut. Know all circumstances—especially, who owns the tree.

Nothing in this article or the article in its entirety should be considered legal advice. If you need legal advice seek legal counsel. ❖



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From Your TREE Fund Liaison Chair - Eric H. Hoyer

By the time you read this, the 2017 Tour des Trees will be history (July 30 – August 5). This year Florida boasts two riders – both TDT veterans – Andy Kittsley (ride #22) from Orlando and Scott Davis from Miramar. I have ridden with both riders on previous TDTs and have no doubt they will both ride hard and complete the tour.

This year's tour immediately precedes the ISA conference to be held in National Harbor, Maryland, just outside Washington, DC and features daily loops returning to the conference hotel each night. Each rider must raise \$3,500, \$1,000 of which is donated by the Florida Chapter. As of the deadline for this article, the three riders had raised a total of \$4,910 so your donations are still needed. If you have not yet donated to the individual riders or to Team Florida, it is not too late to do so. Just go into the <https://www.crowdrise.com/2017STIHLTourdesTrees> website and donate; it

only takes a few minutes.

So, where does the money go that you donate? The tour serves as the primary annual fundraiser for the TREE Fund, raising upwards to \$400,000. The tour is now completely self-sustaining. In other words, all tour expenses are now paid for by sponsors such as Stihl, Davey, Bartlett, Rainbow, and others. All money raised by the riders now goes to research and education grants and scholarships. In 2016, the TREE Fund awarded a record \$550,000 in grants and scholarships, up from \$300,000 in 2015. This money goes toward important urban forestry and arboricultural research. Last year's recipients included the following:

- Mitchell Pavao-Zuckerman, PhD (University of Maryland) and Co-Investigator Dr. Raymond Weil (University of Maryland) to evaluate approaches to improve urban soil quality, including the use of agricultural cover crops.
- Christopher M. Halle, PhD (Sonoma State University) and Co-Investigator Claudia Luke, PhD (Sonoma State University) will compare the efficacy of mechanical only vs. mechanical plus herbicide treatment in establishing low-growing native plant communities in a range of western ecosystems. The effects on local animals and pollinators will also be studied.
- Adam Berland, PhD (Ball State University) and Co-Investigator Jess Vogt, PhD (DePaul University) seek to understand the possibilities and limitations of virtual street tree surveys using Google Street View.
- Justin Morgenroth, PhD (University of Canterbury, New Zealand) and Co-Investigator Andrew Koeser, PhD (University of Florida) will monitor physiological and tree growth responses to various root removal treatments.
- Francesco Ferrini, PhD (University of Florence, Italy) and Co-Investigator Simone Orlandini, PhD (University of Florence, Italy) hypothesize that the common but harmful pruning practice called top-

[TREE Fund continued on page 27](#)



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FLORIDA CHAPTER TREE CLIMBING CHAMPIONSHIP OCTOBER 2017

Join us in Orlando for the Florida Chapter Tree Climbing Championship and Arbor Fair - October 28-29, 2017 at Moss Park: 12901 Moss Park Rd, Orlando, FL 32832



2018 FCTCC Arbor Fair Chair: Julie Iooss, Julie.Iooss@cityoforlando.net
 FCTCC Climbing Chair: Adam Jackson, adam.jackson@davey.com

Contact the Committee members above if you have any question about competing or volunteering, or being an exhibitor or a sponsor! We all look forward to seeing Florida's best climbers compete for the opportunity to represent the Florida Chapter at the International Tree Climbing Championship in 2018.

CLIMBERS GET READY TO SHOWCASE YOUR SKILLS!

Register early - climbing spots are limited.

[Click here for the Climber Forms.](#)

FEES:

- \$75.00 Florida Chapter Member *Winner of the Florida Chapter TCC will need to be a member of International ISA in order to compete at the International TCC
- \$125.00 Non-Member **includes Florida Chapter membership for 12 months!

MAIL, EMAIL, OR FAX the REGISTRATION FORM, WAIVER FORM & PAYMENT TO:

Florida Chapter ISA
 7853 S. Leewynn Court
 Sarasota, FL 34240
 FAX: 941-342-0163

(make checks payable to Florida Chapter ISA or include ALL credit card information)

Volunteers

Volunteers are needed for site preparation, event assistance and judging.

[Click Here for Volunteer Forms.](#)

Sponsors

Sponsors are greatly appreciated at our annual event!

Monetary and/or Gear donations are accepted.

[Click Here for Sponsor Forms.](#)

EXHIBITORS

Join us on Saturday for a full day of exhibiting.

[Click Here for Exhibitor Forms](#)

2018 ARBORMASTER CLIMBING KIT PRIZE PACKAGE

The Florida Chapter ISA is pleased to announce the 2018 ArborMaster Climbing Kit Prize Package for the Tree Climbing Champion (TCC), held in conjunction with the Chapter's 2018 Tree Climbing Championship (TCC) event.

This climbing kit is being offered to each chapter champion (both male and female, if applicable)! The package is intended to help equip the Chapter representative(s) for the International Tree Climbing Championship (ITCC) Competition.



GET GEARED UP!

Each prize package includes:

- Husqvarna: Arborist Technical Helmet by Petzl, Husqvarna Composite Multi-Purpose Ax
- Buckingham Master 5.0 Arborist Tree Saddle
- Silky Tsurugi Curve Hand Saw
- ArborMaster® 150' Hawkeye Climbing Line by Samson
- OREGON® Tool Bag
- Vermeer Logo 'd Camo Tumbler
- 50% savings for an ArborMaster® 2-Day or 3-Day Hands-On Training Module

Sponsored by:



Growth Rings in the New Year

What would the TREE Fund's 2016 annual growth ring tell you about our nonprofit organism if you peeked inside?

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We're setting the stage for transformative growth in 2017. With your support, growth can ring in the New Year from day one.



TREE Fund continued from page 23

ping not only depresses tree health, but also directly reduces thermal comfort and human well-being in cities. tor physiological and tree growth responses to various root removal treatments.

- Brian Kane, PhD (University of Massachusetts Amherst) and Co-Investigator Mark Reiland (University of Massachusetts Amherst) will assess the likelihood of failure of different parts of a tree rigging system.
- Camilo Ordóñez, PhD (Ryerson University, Canada) and Co-Investigator Andrew Millward, PhD (Ryerson University, Canada) are evaluating the factors that contributed to the decline and mortality of urban trees in Toronto planted using structural soil cell technology.

One can see that this research is important and covers a variety of topics. By contributing to the TDT and TREE Fund, this research can continue to be carried out to the benefit of arborists throughout the US and the world. ❖

To advertise in the Florida Arborist contact the Florida Chapter office at 941-342-0153.

Our electronic version of the Florida Arborist allows for an active link directly to your website!!

Single Issue advertising rates are as follows:

- Full Page - \$250/issue
- Half Page - \$200/issue
- Quarter Page - \$150/issue
- Business Card - \$75/issue
- Classified Ad - \$25/issue

Discounts for a commitment of 4 consecutive issues:

- Full Page - \$200/issue
- Half Page - \$150/issue
- Quarter Page - \$100/issue
- Business Card - \$50/issue
- Classified Ad - \$25/issue

Prices include one link from the ad to your website. Additional links are \$25/link per issue.

call 941-342-0153
or email jan@floridaisa.org

JOIN ISA!

Compare the member benefits. Decide which membership suits you best: International, Florida Chapter or BOTH!

Benefits for joining International ISA:

- 'Arborist News' and 'Arboriculture & Urban Forestry' publications
- Online access to 'ISA Today' and other ISA electronic news
- Access to members-only online resources
- Discount on annual International ISA Conference and Trade Show
- Discounts on ISA merchandise
- Use of the ISA Member logo
- Access to ISA Job Bank
- ISA member directory listing
- 'True Professionals' program
- Online 'Find a Tree Care Service' tool

International Society of Arboriculture MEMBERSHIP

Benefits for joining the Florida Chapter:

- Quarterly Florida Arborist newsletter
- Discounts on Florida Chapter seminars
- Discount on annual Trees Florida Conference and Trade Show
- Discounts on Florida Chapter merchandise
- Florida Chapter Awards program

JOIN BOTH International ISA and the Florida Chapter !

- Receive all benefits listed above PLUS deep discounts on certification and recertification fees

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FLORIDA CHAPTER

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News From International

TRAQ Renewal Course

With the TRAQ credential reaching its fifth anniversary in March 2018, the first course participants who earned the TRAQ credential are nearing the five-year expiration date of their ISA Tree Risk Assessment Qualification. All TRAQ holders who took the full TRAQ course will be required to pass the TRAQ Renewal Course to maintain their credentials for another five years. As a reminder, those who transferred their TRACE credential to TRAQ are required to take the full TRAQ course when their current qualification expires to be eligible for future TRAQ Renewal Courses.

TRAQ Renewal Course Structure

**One-day course and exam: Five hours of instruction and three hours for exam completion.
100 multiple-choice-question exam and performance-based outdoor tree assessment.**

All existing TRAQ holders may complete the TRAQ Renewal Course or full course as early as one-year prior to their expiration dates. Once you have successfully passed the requirements, you will be given five years from the date of your previous qualification expiration, allowing you to take full advantage of the five-year period granted with the credential. For example, if you take the TRAQ Renewal Course one year before your expiration date, your next expiration date will not occur for six years.

You will have a six-month grace period to complete the TRAQ Renewal Course after your qualification period expires. If you exceed the six-month timeframe, you will be required to take the full course again. Your next expiration date will occur five years from the date you pass the TRAQ Renewal Course.

TRAQ Renewal Course Fee

Course by Florida ISA: \$220 USD for ISA members and \$260 USD for nonmembers. (Membership in either International ISA or the Florida Chapter)

Renewal exam retake: There is an exam retake fee of \$150 USD. You will have one year from your initial exam date to successfully pass the exam. Any

additional retakes within the one-year timeframe would require another fee of \$150 USD. If you do not pass the exam portion within one year, you will be required to complete the full TRAQ course and examination and pay the full course fee.

TRAQ Renewal Course CEUs Granted

Five CEUs will be granted for the instructional portion of the program. These CEUs can be applied to your ISA Certified Arborist® credential as well as the Tree Worker credentials. For an ISA Board Certified Master Arborist®, two CEUs go to practice, two to management, and one to science.

We look forward to your continued participation in the Tree Risk Assessment Qualification program. If you do not currently hold the TRAQ credential and would like to learn more about it, please visit the Becoming Qualified page on the ISA website for detailed information.

HAVE YOU CHECKED OUT THE ISA PODCASTS?

International ISA offers a small library of short podcasts on several different topics. The newest include Best Practices for Tree Planting. Check them out!

<http://www.isa-arbor.com/education/onlinelearning/podcasts.aspx> ❖





OUR TEAM

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(352)238-0917

ERIC HOYER, CA, RCA, CF
(863)670-0734

CHARLIE MARCUS, CA
(850)570-5963

JAY VOGEL, CA
(352)238-0458

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www.NRPSforesters.com

2017 Certification Exam Schedule

The FLORIDA CHAPTER of ISA is pleased to announce our
2017 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
Sept. 23, 2017	Certified Arborist Exam	Duval County Extension Jacksonville, FL	7:30 AM to 11:30 AM	Larry Figart & Penny Powell	Minimum 12 business days prior	\$170/ \$280
Dec. 2, 2017	Certified Arborist Exam Eng/Span	Miami-Dade Extension Homestead, FL	8:30 AM to 1 PM	Henry Mayer and Norm Easey	Minimum 12 business days prior	\$170/ \$280

This schedule is subject to change as additional tests and review sessions may be added. Visit 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 International office in Champaign, IL must receive your application and exam fees AT LEAST TWELVE BUSINESS DAYS before the exam date. NO EXCEPTIONS. (The ISA International office is closed New Year’s Eve, New Year’s Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and the day after, and Christmas week. First-time applicants can apply online at www.isa-arbor.com.

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

Florida Chapter ISA - 2017 Education Schedule

*The schedule below is tentative and subject to changes.

Date	Seminar/Class	Location (s)	Open for Registration
August 23, 2017	A Blueprint for Success: Tree Law	Pomano Beach	Register Online
August 25, 2017	A Blueprint for Success: Tree Law	Sarasota	Filled - call to be added to wait list
September 27, 2017	Tree ID	Naples	Register Online
September 29, 2017	Tree ID	Largo	Register Online
October 10, 2017	TRAQ Renewal	Ft. Lauderdale	Register Online
October 11, 12, 13, 2017	TRAQ	Ft Lauderdale	Register Online
October 25, 2017	Arborist Master Class w/ Mark Chisholm	Tallahassee, FL	Watch for details
October 27, 2017	Outdoor Tree School	Moss Park, Orlando, FL	Watch for details
November 2017	Mature Tree Care	Orlando	
November 2017	Mature Tree Care	Ft. Lauderdale	

Welcome!

New Florida Chapter Members

Here are the individuals that joined the Florida Chapter during the third quarter of 2017. 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.

Mateo Alonzo, Estero, FL
 Bernard Blackburn, Pembroke Pines, FL
 Seth Blair, Saint Petersburg, FL
 Robert Bragan, Jacksonville, FL
 Joyce Brown, Mount Dora, FL
 Mason Brown, Crawfordville, FL
 Timothy Brownlee, Elkton, FL
 Andre Buehler, Boca Raton, FL
 Bob Burns, Bonita Springs, FL
 Juan Cabrera, Lake Worth, FL
 Orlando Camacho, Orlando, FL
 Clayton Cantley, Tallahassee, FL
 Miguel Castillo Lagrange, Southwest Ranches, FL
 Michael Clarida, Palm Harbor, FL
 Marina Crawford, Largo, FL
 Gary Crumley, Jacksonville, FL
 Thomas Curry, Port Richey, FL
 Debra DeMarco, South Miami, FL
 Harry Doyle, Boca Raton, FL
 Brian Duffy, Lake Worth, FL
 James Dunaway, Tallahassee, FL
 Matthew Dunn, Sarasota, FL
 John Durden, Tampa, FL
 Dale Dyer, Pinellas Park, FL
 Joaquin Fernandez, Homestead, FL
 John Folker, Leesburg, FL
 Sherri French, Tampa, FL
 Christian Genest, Big Pine Key, FL
 Michael Gilileo, Lakeland, FL
 Todd Hannah, Edgewater, FL
 Denise Jeanson, Upland, CA
 Rodney Jones, Punta Gorda, FL
 William Jones, Gainesville, FL
 Ryan Joyce, Apollo Beach, FL
 Bruce Kern, Winter Park, FL
 John King, Tallahassee, FL
 Scott Kresh, Land O Lakes, FL
 Ron Lamneck, Lake Worth, FL

Kasey Leon, Naples, FL
 Matthew Mantione, Spring Hill, FL
 Phillip Massingale, Brooksville, FL
 William Mc Donough, Hollywood, FL
 Juan Melo, Hialeah Gardens, FL
 Edward Mesis, Miami, FL
 Katie Moffatt, West Palm Beach, FL
 Jason Moore, Hudson, FL
 John Munro, Hollywood, FL
 Brian Nichols, Saint Petersburg, FL
 Curtis Owens, Saint Petersburg, FL
 Ira Padgett, Safety Harbor, FL
 Mike Palermo, Clermont, FL
 Jana Read, Orlando, FL
 Brad Reschak, Vero Beach, FL
 Daniel Riese, Palm harbor, FL
 Albert Rivera, ORLANDO, FL
 Carlos Rodriguez, Miami, FL
 Joshua Rumbley, Bradenton, FL
 Dillan Runner, Sebring, FL
 Robert Sackett, Orange City, FL
 Louis Schwartz, Jacksonville, FL
 Roy Seay, Orlando, FL
 Kevin Seay, Apopka, FL
 Jeremiah Severino, Riverview, FL
 Jason Simione, Fort Lauderdale, FL
 Liz Soriano, Naples, FL
 Michael St.Amour, Key West, FL
 Mark Templeton, Naples, FL
 Jared Thompson, Lutz, FL
 Anthony Thompson, Pompano Beach, FL
 Drew Underhill, Deland, FL
 Miles Upcavage, Plant City, FL
 Misail Valladares, Hialeah, FL
 Anne West, Lake Mary, FL
 Gregory White, Coral Gables, FL
 Sandra Whitley, Silver Spring, MD

*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:
 jan@floridaisa.org

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 2017 Board Meeting - Dates & Locations
 September 8, 2017 - Orlando
 November 13, 2017 - Orlando

Arborist Certification Committee Report

By Norm Easey, Florida Certification Liaison

There is currently one ISA certification exams scheduled in Florida during the third quarter of 2017. [Click here to watch for future 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 for more information about the various ISA arborist credentials and how to earn them.

Florida Chapter currently has 1943 Certified Arborists.

The Florida Chapter would like to congratulate the following 35 Florida or Florida Chapter individuals for earning their certifications as: Certified Arborist, Board Certified Master Arborist, Municipal and Utility Specialist :

Certified Arborist

Rollin S Austin, Tallahassee, FL
 Trevor Scott Bacon, Dunedin, FL
 Glenn Bechtle, Dunedin, FL
 Travis Beckwith, Tallahassee, FL
 Jennifer Bellars Forrester, Daytona Beach, FL
 Bernard Blackburn, Pembroke Pines, FL
 Billy Joe Calhoun, Sebring, FL
 Michael John Casey Jr., Loxahatchee, FL
 Marina Crawford, Largo, FL
 Thomas Mark Curry, Port Richey, FL
 Dustin Demmery, Lake Worth, FL
 Carolyn Geddes, Lake Worth, FL
 Angel Gonzalez, Miami, FL
 Matthew Hill, Tarpon Springs, FL
 Allen L Howell, Palm Harbor, FL
 Chris A. Keenan, Delray Beach, FL
 John Daniel King, Tallahassee, FL
 Scott Kresh, Land O Lakes, FL
 Jacob Lafever, South Miami, FL
 Wesley L. Maks, Vero Beach, FL
 Joel McGuire, Land O Lakes, FL
 Rebecca Moody, Gibsonton, FL
 Jason Moore, Hudson, FL
 Julio Perez, Davie, FL
 Kyle Portwood, Pompano Beach, FL
 Nicholas G. Ramos, Deerfield Beach, FL

Eric Robinson, Land O Lakes, FL
 Daniel Ruben, Tampa, FL
 Diane Marie Staubitz, Tallahassee, FL
 Eric Melvin Stutzman, Dade City, FL
 Donald Ray Swanner, Crestview, FL
 Jared Thompson, Lutz, FL
 Anne George West, Lake Mary, FL
 Greg Johan Wigeri van Edema, Bradenton, FL

Board Certified Master Arborist

Rob P. Calley, Mary Esther, FL
 Christopher Johnson, Merritt Island, FL

Municipal Specialist

Luis R Moreno, Hialeah, FL
 Heather Shields, Naples, FL

Utility Specialist

Billy Joe Barnes, Astor, FL
 John Daniel King, Tallahassee, FL



Are you thinking about becoming certified?

[Visit the International ISA website](#)

To access the certification application handbook with further information.

[CLICK HERE TO VIEW EXHIBITOR RULES](#)

EXHIBITOR FORM: Saturday only

Florida Chapter Tree Climbing Championship

See www.floridaisa.org for full details on dates, location and due date.

Fill out and send this Exhibitor Form; the park may require further items.



Please PRINT or TYPE:

Contact Name _____

Company _____

Address _____

City _____ State _____ Zip _____

Phone # _____ EMail Address _____

Please list the names of the individuals (and tee shirt sizes) who will be representing your company (registration is for two representatives per exhibitor booth for **Saturday only**)

Name on badge 1 _____ Tee Shirt size _____

Name on badge 2 _____ Tee Shirt size _____

Lunch preference: Regular lunch Vegetarian lunch

TREE CLIMBING CHAMPIONSHIP & FIELD DAY EXHIBITOR OPPORTUNITIES

Outdoor Exhibitor space for Equipment/Trucks/Displays \$ 400.00
(payable with a monetary payment, appropriate gear or prizes, of combination of both)

- Exhibitor SETUP will be from 8:00 am to 9:00 am on Saturday, the morning of the climbing preliminary event.
- Exhibitor BREAKSOWN is when competition ends or 30 minutes before sunset
- Exhibitors provided space for one (1) large truck or two (2) small pieces of equipment, or an outdoor display.
- Exhibitors will be provided on-site signage and recognition in the Field Day program
- Each park has its individual rules regarding active selling of goods and services; please inquire.

*see Exhibition rules attached to this form or at www.floridaisa.org

I have read the terms and conditions of this application and the attached Florida Chapter ISA Tree Climbing Championship & Field Day Exhibition rules and agree to them accordingly.

Print Name _____ Signature _____ Date _____

MONETARY PAYMENT

Payment: Charge to Visa, MasterCard or Discover Check enclosed (payable to Florida Chapter ISA) Check # _____

Card Number _____ Exp Date _____ CV Code _____

Name on Card _____

Card Billing Address (if different than above) _____

Card Billing City/State/Zip _____

*** IN-KIND EQUIPMENT, GEAR OR PRIZES ***

If you plan to include gear or prizes for the TCC as part of your payment, or in addition to your exhibitor space registration, please describe your item(s) below and include a monetary value (**required**). Please contact the Florida Chapter prior to shipping items: jan@floridaisa.org

MAIL FORM OR ITEMS TO: Florida Chapter ISA - 7853 S Leewynn Court - Sarasota, FL 34240
or SCAN/EMAIL or FAX to: jan@floridaisa.org FAX: 941-342-0463 PHONE: 941-342-0153



[CLICK HERE TO VIEW SPONSOR BENEFITS](#)

SPONSOR FORM: Sponsorship Levels listed on next page
Florida Chapter Tree Climbing Championship

See www.floridaisa.org for full details on dates, location and due date.
 Fill out and send this Sponsor Form.
 Read details regarding sponsor benefit levels.



Please PRINT or TYPE:

Name _____
 Company _____
 Address _____
 City _____ State _____ Zip _____
 Phone # (_____) _____
 EMail Address (for contacting and to send a receipt) _____

MONETARY DONATION

Amount \$ _____

- Check enclosed (Make out to Florida Chapter ISA)
- Cash Enclosed
- Credit Card VISA MasterCard Discover

Card Number _____
 Exp. Date _____ 3 or 4 digit Card Code _____
 Exact name on card _____
 Card billing address _____
 Card billing City/State/Zip _____

Your receipt will be emailed to you (please provide an email address above).

PLEASE SEND YOUR MONETARY DONATION WITH THIS DONATION FORM TO:

MAIL: Florida Chapter ISA - 7853 S Leewynn Court - Sarasota, FL 34240
 PHONE: 941-342-0153
 FAX: 941-342-0463
 EMAIL: floridaisa@comcast.net (you may submit this form as an email attachment)

DONATION OF EQUIPMENT, GEAR OR PRIZES

Please describe your donation below. Include a monetary value if you would like a receipt to be emailed to you (please provide an email address above).



PLEASE SEND YOUR DONATED ITEM(S) WITH THIS DONATION FORM TO:

BY MAIL, FED EX or UPS: Adam Jackson - 2111 Edmands Place - Apopka, FL 32703

CLIMBER ENTRY FORM (Limited to 40 climbers: max of 4 from out-of-state)
Florida Chapter Tree Climbing Championship and Field Day
 See www.floridaisa.org for full details on dates, location and due date.
 Fill out and send BOTH this climber form AND the climber waiver.



SPACE IS LIMITED/First-come, First-serve!

CHECK DUE DATE ON www.floridaisa.org

Name _____

Company _____

Address _____

City _____ State _____ Zip _____

Phone # (_____) _____ T-Shirt size (register early so we can provide your requested size) _____

E-Mail Address (for contacting and to send a receipt) _____

Gender: Male Female

Lunch preference: Regular lunch Vegetarian lunch

OPTIONAL EDUCATIONAL EVENT

The Outdoor Tree School is being offered on Friday (the day before the climbing event) FREE OF CHARGE to all registered competitors. Space may be limited - we cannot always guarantee available space.

See www.floridaisa.org for location and time.

Registration fees for non-competitors to attend class: \$55-Florida Chapter Member or \$65-Nonmember)

- YES! You plan to attend the Outdoor Tree School on Friday for free as a climber.
 - Regular lunch Vegetarian lunch
- NO, you do NOT plan to attend the Outdoor Tree School.

REGISTRATION FEES

- \$75 - Florida Chapter ISA member price
- \$125 - nonmember price **includes membership in Florida Chapter ISA for 1 year
- Check enclosed (Make out to Florida Chapter ISA)
- Cash Enclosed
- Credit Card VISA MasterCard Discover

**If you are not comfortable emailing your credit card information, please fax, mail or phone it in.

Card Number _____

Exp. Date _____ 3 digit Card Code _____

Exact name on card _____

Card billing address _____

Card billing city/state/zip _____

Submit this Entry Form, the Climber Waiver form and payment to:

MAIL: Florida Chapter ISA ♦ 7853 S Leewynn Court ♦ Sarasota, FL 34240
 PHONE: 941-342-0153 FAX: 941-342-0463
 EMAIL: jan@floridaisa.org



**FC-TCC Tree Climbing Championship
Competition Waiver Form**



Please PRINT Clearly

Contestant's Name: _____ Age: _____

Address: _____ Zip: _____

Employed by: _____

Phone: (____) _____ Email: _____

Number of years you have climbed: _____

Waiver and Hold-Harmless by Contestant

In consideration of acceptance of my application for entry as a contestant in the Climbing Championship, I hereby waive any and all claims I may have at anytime, and any and all claims which might otherwise be made by, or on behalf of, or on account of me, or by me, or by any person or entity in any way as my subrogee against the property owner and the International Society of Arboriculture, its officers, directors, employees, agents, members, guests, invitees, and any person who would be lawfully entitled to indemnification from them for any liability to, or on behalf of, or on account of me, for any injuries or damages of any kind whatsoever arising on account of or in consequence of my activities or participation in the Climbing Championship, or in any other way related to the Climbing Championship. I further agree to hold the property owner and the International Society of Arboriculture, its officers, directors, employees, agents, members, guests and invitees, safe and harmless from any expense for defense, settlement, payment of damages, or other expenses related in any way to injuries sustained by me in any way related to the Climbing Championship. I recognize and assume all risks and danger involved in my participation, and will not under any circumstances rely upon the care, attention or assurance of anyone other than myself for matters relating to my safety.

Dated _____ Signature of Contestant _____

Certification and Waiver by Employer of Contestant

I hereby certify that I am the employer or a duly authorized representative of the employer of the above-named individual planning to participate in the Climbing Championship, and that the employer has encouraged this participation. I further certify that I have satisfactorily confirmed that the employee will be covered by statutory protection levels of Workers Compensation Insurance or the equivalent, for any injuries sustained in the course of participation. The employer hereby waives any and all subrogation claims it may have against the property owner and the International Society of Arboriculture, its officers, directors, employees, agents, members, guests, or invitees, as a result of any compensation or their benefits or expenses incurred or paid by it, its insurance carrier, or otherwise on its behalf, in the event any claim or injury results from this participation, and will hold the property owner and the International Society of Arboriculture, its officers, directors, employees, agents, members, guests, and invitees safe and harmless from any expense for defense, settlement, payment of damages and other expenses relating in any way by this employee. I further certify that I am duly authorized to execute this Certification and Waiver on behalf of the employer and that any and all necessary resolutions have been duly passed and adopted by the employer.

The exact name and address of the employer, and state of incorporation (if applicable):

Dated _____

Signature of Employer or Authorized Representative _____

**Mail, fax or email (you may submit as an email attachment) this completed competition waiver form
along with the competition registration form and payment to:
Florida Chapter ISA ♦ 7853 S Leewynn Court ♦ Sarasota, FL 34240**

JUDGE & VOLUNTEER FORM

Florida Chapter Tree Climbing Championship

See www.floridaisa.org for full details on dates, location and due date.

Fill out and send **BOTH** this volunteer form **AND** the volunteer waiver.



Please PRINT or TYPE:

Name _____

Company _____

Address _____

City _____ State _____ Zip _____

Phone # (_____) _____ T-Shirt size (volunteer early so we can provide your requested size) _____

E-Mail Address (for contacting) _____

Allergies? Yes No Please list if yes: _____

Have you ever volunteered at any TCC event before? Yes No

List year(s): _____

Are you First Aid/CPR Certified? Yes No

Do you have experience as a gear check technician? Yes No

List any specific qualifications or past experience: _____

Lunch preference: Regular lunch Vegetarian lunch

THANK YOU FOR YOUR OFFER TO VOLUNTEER!

I am able to help:

- as a judge
 - with site pre-pruning
 - with site preparation the week prior to competition
 - with registration
 - with timing and record keeping
 - with awards
 - at the FC-TCC dinner on day of the competition
 - other _____
- _____
- _____
- _____

Submit this Volunteer Form and the Volunteer Waiver form to:

MAIL: Florida Chapter ISA - 7853 S Leewynn Court - Sarasota, FL 34240
 PHONE: 941-342-0153
 FAX: 941-342-0463
 EMAIL: jan@floridaisa.org (you may submit this form as an email attachment)



**FC-TCC TREE CLIMBING CHAMPIONSHIP
VOLUNTEER WAIVER FORM**



Please PRINT Clearly

Volunteer's Name: _____

Address: _____ Zip: _____

Employed by: _____

Phone: (___) _____ Email: _____

Waiver and Hold-Harmless by Volunteer

In consideration of acceptance of my offer to be a volunteer for the Climbing Championship, I hereby waive any and all claims I may have at anytime, and any and all claims which might otherwise be made by, or on behalf of, or on account of me, or by me, or by any person or entity in any way as my subrogee against the property owner and the International Society of Arboriculture, its officers, directors, employees, agents, members, guests, invitees, and any person who would be lawfully entitled to indemnification from them for any liability to, or on behalf of, or on account of me, for any injuries or damages of any kind whatsoever arising on account of or in consequence of my activities or participation in the Climbing Championship, or in any other way related to the Climbing Championship. I further agree to hold the property owner and the International Society of Arboriculture, its officers, directors, employees, agents, members, guests and invitees, safe and harmless from any expense for defense, settlement, payment of damages, or other expenses related in any way to injuries sustained by me in any way related to the Climbing Championship. I recognize and assume all risks and danger involved in my participation, and will not under any circumstances rely upon the care, attention or assurance of anyone other than myself for matters relating to my safety.

Dated _____ Signature of Volunteer _____

Certification and Waiver by Employer of Volunteer

I hereby certify that I am the employer or a duly authorized representative of the employer of the above-named individual planning to volunteer at the Climbing Championship, and that the employer has encouraged this participation. I further certify that I have satisfactorily confirmed that the employee will be covered by statutory protection levels of Workers Compensation Insurance or the equivalent, for any injuries sustained in the course of participation. The employer hereby waives any and all subrogation claims it may have against the property owner and the International Society of Arboriculture, its officers, directors, employees, agents, members, guests, or invitees, as a result of any compensation or their benefits or expenses incurred or paid by it, its insurance carrier, or otherwise on its behalf, in the event any claim or injury results from this participation, and will hold the property owner and the International Society of Arboriculture, its officers, directors, employees, agents, members, guests, and invitees safe and harmless from any expense for defense, settlement, payment of damages and other expenses relating in any way by this employee. I further certify that I am duly authorized to execute this Certification and Waiver on behalf of the employer and that any and all necessary resolutions have been duly passed and adopted by the employer.

The exact name and address of the employer, and state of incorporation (if applicable):

Dated _____

Signature of Employer or Authorized Representative _____

**Mail, fax or email (you may submit as an email attachment) this completed volunteer waiver form
along with the volunteer registration form to:
Florida Chapter ISA ♦ 7853 S Leewynn Court ♦ Sarasota, FL 34240**

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
7853 South Leewynn Court
Sarasota, FL 34240