

Spring 2018  
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## So Much Depends on a Tree Guard

Adding Protective Barriers Around Street Trees Could Reduce Load On City Sewers

Columbia University

***In a big city, trees, like people, like their space. In a new study, researchers found that street trees protected by guards that stopped passersby from trampling the surrounding soil absorbed runoff water more quickly than trees in unprotected pits.***



*In a new study, Columbia researchers find that street trees with protective guards soaked up runoff water six times faster than trees without guards.  
Credit: Lizzie Adkins, Columbia University*

In a big city, trees, like people, like their space. In a new study, researchers at Columbia University found that street trees protected by guards that stopped passersby from trampling the surrounding soil absorbed runoff water more quickly than trees in unprotected pits. The results are published online in the journal Ecological Engineering.

Comparing the infiltration rate of street trees with and without guards in Manhattan's Morningside Heights neighborhood, the researchers found that trees in protected pits absorbed water six times faster on average than tree pits

without guards -- 3 millimeters versus .5 millimeters per minute. The researchers hypothesize that the guards improve infiltration by limiting soil compaction in tree pits.

“Placing guards around tree pits allows urban trees to absorb more storm water runoff, taking pressure off the city sewer system,” said the study’s senior author, Patricia Culligan, a professor at Columbia Engineering and a member of Columbia’s Earth Institute and Data Science Institute.

The researchers were surprised at what a difference the guards made, and how little

*[Tree Guard continued on page 4](#)*

# A Message From the President



Thank you for the opportunity to be your Florida Chapter president in 2018. For many years I have benefitted from attending the various conferences offered by the Chapter. And, I have enjoyed the many relationships that I have built around the state with many of you. It's great to be able to give back to our organization by serving on the board!

Many thanks to everyone who served on the 2017 board. First of all, for Lori Ballard for doing an excellent job as our president, chairing our Education Committee, and championing our new climbing representative. We also want to extend our gratitude for an outstanding job to those whose term was up on the board. Bill Armstrong served as our Commercial Arborist representative, Rick Joyce as our Grower Representative, and Matt Anderson and Jeremy Chancey as our At Large representatives.

I would also like to welcome several new board members. Alison Summersill will be serving as our Treasurer, Carson



*Pictured from left to right: Jordan Upcavage, Ron Collins, Caitlyn Pollihan, Kris Stultz, Carson Smith, Ali Summersill, Jan Easey, Julie Iooss, Patty Morrison, Kimberly Pearson, Scott Shultz, Lori Ballard, Bonnie Marshall, Norm Easey, Rob Calley, Alicia Calley*

Smith as our Climbing Representative, and Dr. Andrew Koeser and Kris Stultz as our two At Large representatives. We have three members who are returning to the board but in different capacities. Adam Jackson went from Treasurer to Vice President, Bonnie Marshall went from Past President to

Grower Representative, and Rob Calley went from Climbing Representative to Commercial Arborist representative. We appreciate your dedication to come back and serve again! We started off the new year in January with a board workshop at Walt Disney World. We had a great time at our team building exercise at Disney's Animal Kingdom (see accompanying photo). Besides all the fun and learning about some interesting trees, we also had training and informational presentations including one session from Caitlyn Pollihan, the Executive Director of the International Society of Arboriculture.

We are looking forward to getting to know each of you in 2018! Come to one (or several) of our seminars around the state and get to know us and your fellow arborists. Or plan to attend our March 10-11th Florida Chapter Tree Climbing Championship at Moss Park in Orlando, or perhaps the 3-day

*[President continued on page 3](#)*

## MEMO BOARD

**Outdoor Tree School**  
Orlando  
March 9, 2018

- ▷ Register
- ▷ Flyer

**Sustainable Landscapes**  
W. Palm Beach - March 21  
Tampa - March 23

- ▷ Register
- ▷ Register
- ▷ Flyer

**Trees Florida**  
Trees Florida 2018  
Ft. Myers  
June 11-13, 2018

**Arboriculture Short Course - 2 Day Seminar**  
Orlando  
April 3 & 4, 2018

- ▷ Register
- ▷ Flyer

*President continued from page 2*

Tree Florida Chapter Conference being held in Fort Myers June 11-13th. Additionally, I hope many of you will consider serving on your chapter board in the future!

Looking forward to a great year!

## Scott Shultz

President, Florida Chapter ISA

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Jan Easey, Admin. Assist.  
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**We honor and thank the Florida Chapter ISA Past Presidents**

2017 - Lori Ballard  
2016 - Bonnie Marshall  
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2014 - Dr. AD Ali  
2013 - Patrick Miller  
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2000 - Dane Buell

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1998 - Richard Bailey  
1997 - Joe Samnik  
1996 - Joe Samnik

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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.rootspplusgrowers.org](http://www.rootspplusgrowers.org)

Tree Guard continued from page 1

mulch or additional vegetation improved results. City-recommended tree guards cost about \$1,000, depending on their style and size of the tree pit, but an improvised \$20 fence can work just as well, said the study's lead author Robert Elliott, a recent graduate of Columbia Engineering and cofounder of Urban Leaf, a New York City startup helping city dwellers grow food at home.

"Only 14 percent of New York City trees have protective guards," he said. "Our results suggest street trees could manage six times as much storm water if every tree pit were enclosed," he said.

New York's 660,000 trees cover about 6 percent of the city. Besides cleaning and cooling the air, trees benefit the city by soaking up rainwater that runs off its impervious roads and buildings. During heavy storms, the aging network of sewers is unable to keep up with the combined flow of wastewater from streets and homes. As a result, heavy flows are often released directly into nearby rivers, raw sewage and all. To reduce these combined sewer overflows the city has turned to 'green infrastructure,' or engineering solutions that harness trees and other vegetation to drain the built landscape.

The push has spurred a related effort to measure the cost-effectiveness of each solution. In a related unpublished study, Elliott and his colleagues compared the relative costs and benefits of guarded tree pits to bioswales, which are pits dug into city sidewalks and planted with shrubs to serve as catch basins. They found that bioswales substantially outperformed guarded tree-pits when factoring in their initial cost-plus maintenance over 10 years; Bioswales captured 141,886 gallons of water per year, at 20 cents per gallon, compared to a guarded tree pit's extra 1,132 gallons per year, at 49 cents per gallon.

But trees become more competitive, says Elliott, if the cost of guards is reduced or water flows are increased by digging out the tree pit's curb so water from the street can flow in (much like a bioswale. Trees also tend to attract less controversy, he points out. Residents have complained that some of the 3,000 bioswales New York City has installed in the last five years in Brooklyn, Queens and the Bronx are ugly. ❖

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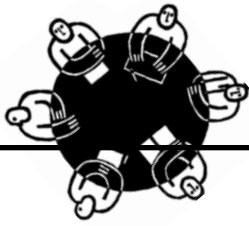


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# Florida Chapter Board Updates

## BOARD SHORTS:

### FLORIDA CHAPTER GRANT PROGRAM



The Florida Chapter ISA board of directors approved two Chapter grants to be awarded for 2017. Congratulations to the following recipients of a Florida Chapter Grant:

- Epidemiology of Texas Phoenix Palm Decline (TPPD) in Florida Vector (Brian W. Bahder, Ph.D.) - \$120,000 over 3 years
- Assessing Tree Risk Assessment - Impact of the Method and Time Frame or Risk Assessment (Dr. Andrew Koeser and Ryan Klein, MS/Doctoral Student) - \$9,000

The Florida Chapter ISA is pleased to announce a new open enrollment period for our Arboriculture Grant Program. The goal of the Florida Chapter ISA Arboriculture Grant Program is to fund research, educational, and promotional material development relevant to Florida arboriculture and in accordance with the Florida ISA mission statement. Application deadline for pre-proposals is April 1, 2018. Click here for Florida Chapter Grant [pre-proposal form](#) and the [instructions](#).

### NEW STUDENT CHAPTER OF ISA AT UF



Mr. Ryan Krammes, past firefighter, current part time arborist and Forestry student at the University of Florida, is working on approval for a new Student Chapter of ISA at the Gainesville campus. Information on this new organization can soon be accessed on [GatorConnect](#), or you can get more information by contacting [Ryan Krammes](#) directly. The primary UF student advisor is [Dr. Michael Andreu](#); secondary student advisors include [Dr. David Fox](#) and [Dr. Jason Smith](#).

The new student chapter already has 30 prospective student members and plans to begin hosting meetings and guest speakers starting this spring, the subject of Safety in the Field will be a top priority.

Participating in the ISA Student Chapter offers many advantages:

- Student memberships for ISA and the Florida chapter are FREE and include all benefits of the traditional ISA

membership

- [Florida Chapter ISA](#) and the [International ISA](#) organization provides student member discounts on products, seminars and conferences
- Scholarship opportunities from the Florida Chapter ([John P. White Scholarship](#) for fall and spring semesters) and the [TREE Fund](#) (various)
- Two free arboricultural literature subscriptions (ISA International) and free quarterly electronic newsletter (Florida Chapter)
- Tree climbing opportunities for students interested in Arboriculture or even canopy research
- Arboriculture-specific seminars

### STUDENTS – PLAN AHEAD!

2018 Fall John P. White Scholarship Applications are due June 15, 2018. Students must be enrolled full-time, part-time



or place-bound in an arboriculture or urban forestry program or related field with the intent to graduate in that field. [Click here for full details](#).

The John P. White Scholarship is sponsored jointly by the Florida Urban Forestry Council and the Florida Chapter ISA.

## FLORIDA CHAPTER HELP NEEDED

Florida Chapter ISA is looking for a member to loan the chapter a **portable sawmill** and operator for an upcoming seminar.

Contact Norm at 941-342-0153 or [neasey@floridaisa.org](mailto:neasey@floridaisa.org).

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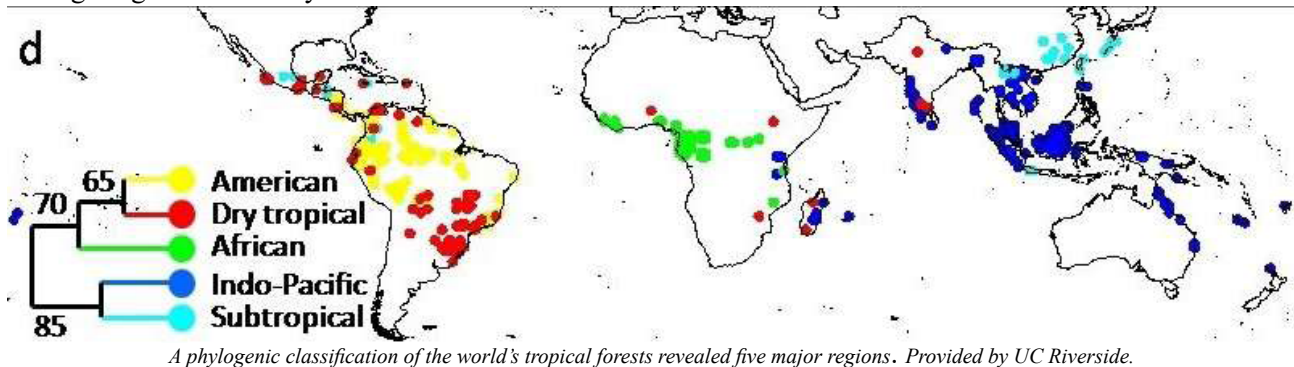
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## MAPPING THE FIRST FAMILY TREE FOR TROPICAL FORESTS

### UNRAVELING THE EVOLUTIONARY HISTORY OF THE WORLD'S TROPICAL FORESTS

by Sarah Nightingale: University of California – Riverside



**More than 100 researchers have collaborated to classify the world's tropical forests according to their evolutionary history, a process that will help researchers predict the resilience or susceptibility of different forests to global environmental changes.**

The results, culled from almost 1 million different tree samples from 15,000 tree species, have uncovered a shared ancestry between tropical forests thousands of miles apart and previously believed to be unrelated. Published this week in the *Proceedings of the National Academy of Sciences*, the study describes an international, grassroots effort to collect and analyze data from more than 400 geographic coordinates across the tropics, a region that comprises 40 percent of the Earth's surface.

The study was led by Ferry Slik, an associate professor at the Universiti Brunei Darussalam in Brunei. Janet Franklin, a distinguished professor of biogeography at the University of California, Riverside, coordinated the interpretation and reporting of the data, which is publicly available as an open access article.

Franklin said the new classification scheme's value comes from the inclusion of ancestral information about the tree samples (gleaned from DNA analyses), rather than the "snapshot" of tree biodiversity that is obtained from recording a plant's species.

"When ecologists study biodiversity, they look at the present day by identifying the range of species in a particular forest. However, without going deeper into a plant's history by looking at its family tree, each species is considered separate and unrelated," Franklin said. "By adding the evolutionary relationships between species, however, we suddenly have a measure of how similar species are to each other. This means that we were able to do a much more detailed and realistic comparison between forest sites than previously possible."

The study revealed five major tropical forest regions: Indo-Pacific, Subtropical, African, American, and Dry Forests, which

are found at the boundaries between tropical and dry climates.

The study also showed the evolutionary relationships between the forests. One surprising finding was that tropical forests in Africa and South America are closely related, with most of the differences between them occurring within the last 100 million years.

"An African tropical forest is evolutionally more similar to tropical forests in the New World than to forests in the Indo-Pacific," Franklin said. "While this was somewhat unexpected, it likely reflects the breaking apart of South America and Africa resulting in the formation of the Atlantic Ocean that started approximately 140 million years ago."

Researchers also found that related subtropical forests exist in two distinct regions: East Asia and Central/South America. "These regions share the same temperate climate and, even though they are not geographically close, their forests share common ancestors, which is a bit of a mystery," Franklin said. "However, it may be that we are actually looking at remnants of the once extensive tropical forests that ranged from North America all the way to Europe and Asia. When Earth's climate cooled down these forests mostly disappeared, but parts seem to have survived in Asia and America."

The researchers hope an understanding of the diversity and composition of the tropical forests will help them anticipate region-specific responses to global environmental change.

"Different forests may be more vulnerable or resilient to climate change and deforestation, so if we understand the similarities and differences between forests it will help inform conservation efforts," Franklin said. ❖



## What Magnets Have to do with Pistachios

### Synchrony in Ecology Puts Ising Model to the Test

by Kat Kerlin - University of California - Davis

A study using thousands of pistachio trees shows that ecological systems can be governed by the Ising model, which is typically used to explain permanent magnets. It also helps explain synchrony in nature, such as why a field of fruit trees blossom at the same time.

Did you ever pass an orchard with branches bursting with flowers and wonder how the trees “know” when to blossom or bear fruit all at the same time? Or perhaps you’ve walked through the woods, crunching loads of acorns underfoot one year but almost none the next year.



*Pistachios form on the branch of a pistachio tree.*

Scientists from the University of California, Davis, have given such synchrony considerable thought. In 2015, they developed a computer model showing that one of the most famous models in statistical physics, the Ising model, could be used to understand why events occur at the same time over long distances.

In a new study, published Feb. 5 in the journal *Proceedings of the National Academy of Sciences*, they put their computer model to the test using thousands of real pistachio trees planted on a grid and found that it worked.

“We’re trying to understand the dynamics in time and space of ecological populations,” said senior author Alan Hastings, a professor in the Department of Environmental Science and Policy at UC Davis. “We were able to make use of a very large data set from more than 6,500 trees in a pistachio orchard and were able to show that ecological systems can be governed by the Ising model.”

### Magnetic Connections

The Ising model was developed to explain permanent magnets,

like the kind that stick to a refrigerator door, but the authors showed it can also help explain how pistachio trees synchronize in an orchard.

In magnetic materials, forces between neighboring atoms tend to keep electrons aligned so their magnetic forces add together. The Ising model makes quantitative predictions of how neighbor-to-neighbor interactions can create alignments over large distances.

If neighboring trees are synchronized, it implies they are communicating somehow. While the authors do not identify the means of this communication, they suggest it may be a consequence of root grafting, where roots intertwine. Grafting may help one tree “tell” another that it’s time to produce, which may help neighboring trees synchronize their production. The Ising model helps predict how interactions between trees next to each other spread through the whole orchard.

### Synchrony Found Throughout Nature

“Instances of synchronous behavior, when everything comes on at once, are found throughout nature, from fruit and nut trees in orchards, to cone-bearing trees in the forest and even the sudden spread of some infectious diseases,” said lead author Andrew Noble, a project scientist in the Department of Environmental Science and Policy at UC Davis at the time of the study. “Understanding these dynamics helps better explain ecological systems and their effects in natural and managed systems.” ❖

## JOHN P. WHITE MEMORIAL SCHOLARSHIP



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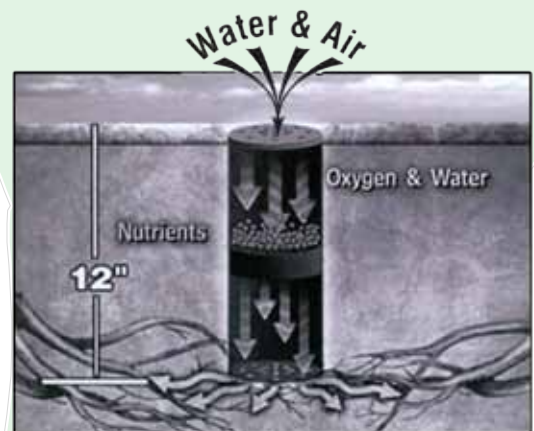
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## New Tree Walk at the UF/IFAS Extension Orange County

A brand-new tree walk was added to the Exploration Gardens at the UF/IFAS Extension in Orange County. The gardens are used for teaching and demonstration. The tree walk was added to increase the canopy cover, add diversity of species and create new educational opportunities in an undeveloped section of the gardens. For easy identification, the trees are labeled with scientific and common names. In addition, there is signage along the path describing the healthy benefits of trees.

Walking in nature has been proven to reverse poor health trends among sedentary individuals. Walking can reduce blood pressure, heart rate, stress, and enhance a sense of well-being. It is good for individuals who cannot afford to participate in formal exercise programs. The tree walk will be used extensively by all UF/IFAS Extension team members who plan to teach classes on right tree/right place, tree identification and the benefits to health and the environment. The tree walk is an ideal site for hands-on pruning, establishment, irrigation, and other demonstrations. Associations such as the Florida Chapter of the International Society of Arboriculture, the Florida Urban Forestry Council, the Florida Nurserymen, Growers and Landscape Association can use the tree walk for seminars for commercial landscape professionals and arborists.

Many thanks go out to the Florida Chapter of the International Society of Arboriculture who awarded a \$5,000 sponsorship to partially fund this project. An innovative partnership was developed with the National Association of State Foresters to utilize their My Tree-Our Forest® education campaign in the tree walk signage describing the benefits of trees and in our educational efforts.

Creating a tree walk of this scale sets a new standard for an Extension demonstration garden. By modeling an urban forest and following best management practices in tree care and maintenance, we believe that this tree planting will grow and thrive as a sustainable urban forest meeting the needs of the public for many years to come. ❖





# Trees make life more fun.

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## New Tree Bills Proposed in Florida Legislature



Florida Arborists need to be aware of two bills that have been proposed in both the Florida House and Senate for the 2018 Legislative Session. The Florida Senate bill is [SB 574](#) and Florida House bill is [HB 521](#). Please use these links to read the bills. These bills impact Florida cities and counties ability to regulate urban trees.



# SAVE THE DATE! TREES FLORIDA 2018



**FORT MYERS, FL**

**JUNE 11-13, 2018**

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# Florida Chapter ISA

## 2017 Accomplishments

Below is a partial list of accomplishments of the Florida Chapter ISA during the past two years:

	2016	2017
Welcomed new Certified Arborists	105	92
Welcomed new Board Certified Master Arborists	3	5
Hosted Certified Arborist exams	8	8 plus 2 TRAQ classes/exams
Hosted Arboricultural seminars	18 seminars in 10 Florida cities	19 seminars in 12 cities
Trained arborists	1318	1376
Hosted a Florida Chapter TCC event	Postponed until spring 2017 due to hurricane Matthew	Postponed until spring 2018 due to hurricane Irma; permanently moved to spring each year
Sponsored TCC Chapter winner at ISA ITCC	Alisha Amundson and Jason Gerrish – San Antonio	Alisha Amundson and Jason Gerrish – Washington DC
Hosted annual Trees Florida Conference	Hosted Trees Florida 2016 in Delray Beach, FL	Hosted Trees Florida 2017 in Palm Coast, FL
Earned proceeds from our Florida Specialty Plate "TreesAreCool"	\$106,445	\$119,016
Published monthly Florida eTree Newsletters	Sent to 5431	Sent to 6074
Published 4 quarterly Florida Arborist Newsletters	Sent to 1633 Chapter members	Sent to 1643 Chapter members
Answered phone calls to the Florida Chapter office	Approx. 3500 calls	Approx. 3350 calls
Answered emails to the Florida Chapter office	Approx. 9200 emails	Approx. 9400 emails
Processed CEU requests	171	142
"Likes" on our Chapter Facebook page	512	623
Donated to the TREE Fund	\$8,182	\$7,191
Donated TAC revenues to our UF Arboriculture Endowment	\$80,000	\$80,000
Gave Chapter service awards to deserving individuals	4	5
Financially contributed to Tour de Trees riders	3 riders through Maryland	2 riders - Washington DC
Welcomed new people to the Board of Directors	7 (4 elected and 3 appointed or at-large)	6 (4 elected and 2 appointed or at-large)
Matched TREE Fund Kimmel Award	\$5,000 to UF-IFAS Gulf Coast REC (Andrew Koeser)	\$5,000 to UF-IFAS Gulf Coast REC (Andrew Koeser)
Florida Chapter Grant Program	Inaugural year: 2 grants approved for distribution totaling \$60,000	2 new grants approved for distribution totaling \$49,000 plus 2 ongoing grants for \$60,000
Scholarships awarded	1 of \$1,250	2 each \$1,250



# Transplanting Palms in the Landscape

Henry Mayer, UF/IFAS Urban Commercial Horticulture Extension Agent

Why do some palms survive the transplant and others not? Understanding how palm roots grow and respond to being dug can greatly improve the chances of success when transplanting palms. In order to successfully transplant palms, it is important to understand how the roots respond to the digging process.



Figure 1. Root Initiation Zone/ photo Dr. Broschat

While broadleaf trees typically have only a few large primary roots originating from the base of the trunk, palm root systems are entirely adventitious.



Figure 2 Dead Sabals due to poor transplanting techniques / photo: H. Mayer

All primary roots are of a more or less constant diameter and arise independently from an area at or near the base of the stem called the root initiation zone. Because of these root system characteristics and the ability of their trunks to store water and carbohydrates, palms are relatively easy to transplant - even large specimens with small root balls - resulting in instant, mature landscapes.



However, research from Dr. Broschat and Dr. Donselman (1984) showed that different species of palms have different tolerances and strategies to survive the transplanting process. For example, when transplanting the **coconut palm** (*Cocos nucifera*), about half of the cut roots sur-

Figure 3. Royal with a lot of stress probably due to lack of water / photo H. Mayer

vive and produce new roots regardless of their length. In the **Sabal palm** (*Sabal palmetto*), none of the root stubs survived, regardless of their length. With the **Queen palm** (*Syagrus romanzoffiana*), **Wild date palm** (*Phoenix reclinata*), **Royal** (*Roystonea regia*) and **Washingtonia** (*Washingtonia robusta*), the percentage of roots surviving was di-



Figure 4. Royal with adventitious roots / photo H. Mayer

rectly proportional to the length of the remaining stubs. This research is very useful in determining the minimum rootball



Figure 5. Good-looking sabals / photo: H. Mayer

size in order to result a successful transplant. For example, a minimal rootball size is needed for **Sabal**, since taking a larger rootball will not improve survival of existing roots. Similarly, the rootball for **Coconut** need not be large since survival of existing roots is similar for both short and long root stubs. For **Queen** palm, 6–12 inches represents the minimum rootball radius from the trunk. For **Washingtonia** and **Royal**, 1–2 feet is the minimum recommended rootball radius. A rootball radius of 2–3 feet is recommended for **Wild date palm**. Keep in mind that rootballs are three-dimensional, and rootball depth contributes to root survival also.

The key ingredient for a successful palm transplant is water! A shallow berm should be constructed around the perimeter of the rootball of the newly transplanted

*Palms continued on page 19*



# Trasplante de palmas en el paisaje

Henry Mayer, UF/IFAS Urban Commercial Horticulture Extension Agent

¿Por qué algunas palmas sobreviven al trasplante y otras no? El comprender cómo crecen las raíces de las palmas y como responden a la excavación puede mejorar enormemente las posibilidades de éxito al trasplantarlas. Para trasplantar palmas con éxito, es importante comprender cómo las raíces responden al proceso de excavación. Mientras que los árboles de generalmente tienen solo unas pocas raíces primarias grandes que se originan en la base del tronco, los sistemas de raíces de las palmas son completamente adventicios. En las palmas todas las raíces primarias son de un diámetro más o menos constante y surgen independientemente de un área en la base del tallo o cerca de ella llamada zona de iniciación de la raíz. Debido a estas características del sistema radicular y a la capacidad de sus troncos para almacenar agua y carbohidratos, las palmas son relativamente fáciles de trasplantar, incluso los ejemplares grandes con pequeñas bolas de raíz - esto resulta en paisajes instantáneos y con grandes especímenes.



Figure 1. Zona de iniciación de la raíz / foto: Dr. T. Broschat



Sabals muertas debido a mal trasplante / photo: H. Mayer



Sin embargo, la investigación del Dr. Broschat y el Dr. Donselman (1984) mostró que diferentes especies de palmas tienen diferentes tolerancias y estrategias para sobrevivir al proceso de trasplante. Por ejemplo, al trasplantar **cocos** (*Cocos nucifera*), aproximadamente la mitad de las raíces corta-

Figure 3. Royal bajo estrés debido a mal riego / foto: H. Mayer

das sobreviven y producen nuevas raíces, independientemente de su longitud. Con la **sabal** (*Sabal palmetto*), ninguno de los trozos de raíz sobrevivió, independientemente de su longitud. Con la **palma queen** (*Syagrus roman-zoffiana*), **wild date** (*Phoenix reclinata*), **royal** (*Roystonea regia*) y **washingtonia** (*Washingtonia ro-*



Figure 4. Royal con raíces adventicias, foto: H. Mayer

*busta*), el porcentaje de raíces sobrevivientes son directamente proporcional a la longitud de los trozos restantes.



Figure 5. Sabals luciendo bien después del trasplante / foto: H. Mayer

Esta investigación es muy útil para determinar el tamaño mínimo de la bola de raíz para lograr un trasplante exitoso. Por ejemplo, se necesita un tamaño de bola de raíz mínimo para la palma **sabal**, ya que tomar una bola de raíz más grande no mejorará la sobrevivencia de las raíces existentes. De manera similar, la bola de raíz para el **cocotero** no necesita ser grande ya que la sobrevivencia de las raíces existentes es similar para los trozos de raíz cortos o largos. Para la palma **queen**, de 6-12 pulgadas representan el radio mínimo de raíces hasta tronco. Para la **washingtonia** y **royal**, 1-2 pies es el radio mínimo recomendado de bola de raíces. Se recomienda un radio de raíz de 2-3 pies para la **wild date**. Tenga en cuenta, que las raíces son tridimensionales, la profundidad de las raíces también contribuye a la sobrevivencia de la

*Palms continued on page 19*

# SAVE THE DATE: SEPTEMBER 19, 2018

We are officially announcing the 4th Annual Saluting Branches event, to be held on **Wednesday, September 19, 2018!** You can [Sign up to be notified](#) as locations and other details become available. (Note that you will still need to register for your specific location later in the year.)

## LOCATIONS FOR 2018

The Saluting Branches day of service for 2017 was held at 45 National Cemeteries across the US. We are in the process of determining locations for 2018. **Know of a good one?** [Request Location for 2018](#)



[Watch the 2017 Saluting Branches Tribute Video](#)

## SALUTING BRANCHES 2017 WAS AMAZING!

The largest one-day volunteer event in the tree industry with over **2,200 volunteers**

[www.salutingbranches.org](http://www.salutingbranches.org)

Saluting Branches, created by Rainbow Treecare in partnership with the U.S. Department of Veterans Affairs, National Cemetery Administration





*Palms continued from page 16*

palm to retain water in the rootball area during irrigation.



Figure 6. Healthy Royals / photo: H. Mayer.

The soil around the rootball should be kept uniformly moist (but never saturated) during the first four to six months following transplanting. After that time, irrigation frequency can be reduced or eliminated altogether if adequate rainfall is received. Research has shown no benefit to irrigating the crown of the palm versus soil application of water (Broschat 1994).

References:

Broschat, T. Transplanting Palms in the Landscape, 2017. EDIS publication #CIR1047

<http://edis.ifas.ufl.edu/ep001>

Hodel, D. Biology of Palms and Implications for Management in the Landscape. 2009. HortTechnology. 19 (4): 676-681

<http://horttech.ashspublications.org/content/19/4/676.full>

*Palms continued from page 17*

palma. ¡El ingrediente clave para un trasplante exitoso es el



Figure 6. Royal saludable  
Foto: H. Mayer

agua! Para retener agua en el área de la raíz se debe construir una berma poco profunda alrededor del perímetro de la bola de raíces de la palma recién trasplantada. Durante los primeros cuatro a seis meses posteriores al trasplante el suelo alrededor de la bola de raíces se debe mantener uniformemente húmedo, pero nunca saturado! Si hay una precipitación adecuada después de ese tiempo, la frecuencia de riego puede reducirse o eliminarse por completo. Los últimos resultados

de la investigación no demuestran ningún beneficio en regar el follaje de la palma en comparación con la aplicación de agua en el suelo (Broschat 1994)

Referencias:

Broschat, T. Transplanting Palms in the Landscape, 2017. EDIS publication #CIR1047 <http://edis.ifas.ufl.edu/ep001>

Hodel, D. Biology of Palms and Implications for Management in the Landscape. 2009. HortTechnology. 19 (4): 676-681

<http://horttech.ashspublications.org/content/19/4/676.full> ❖



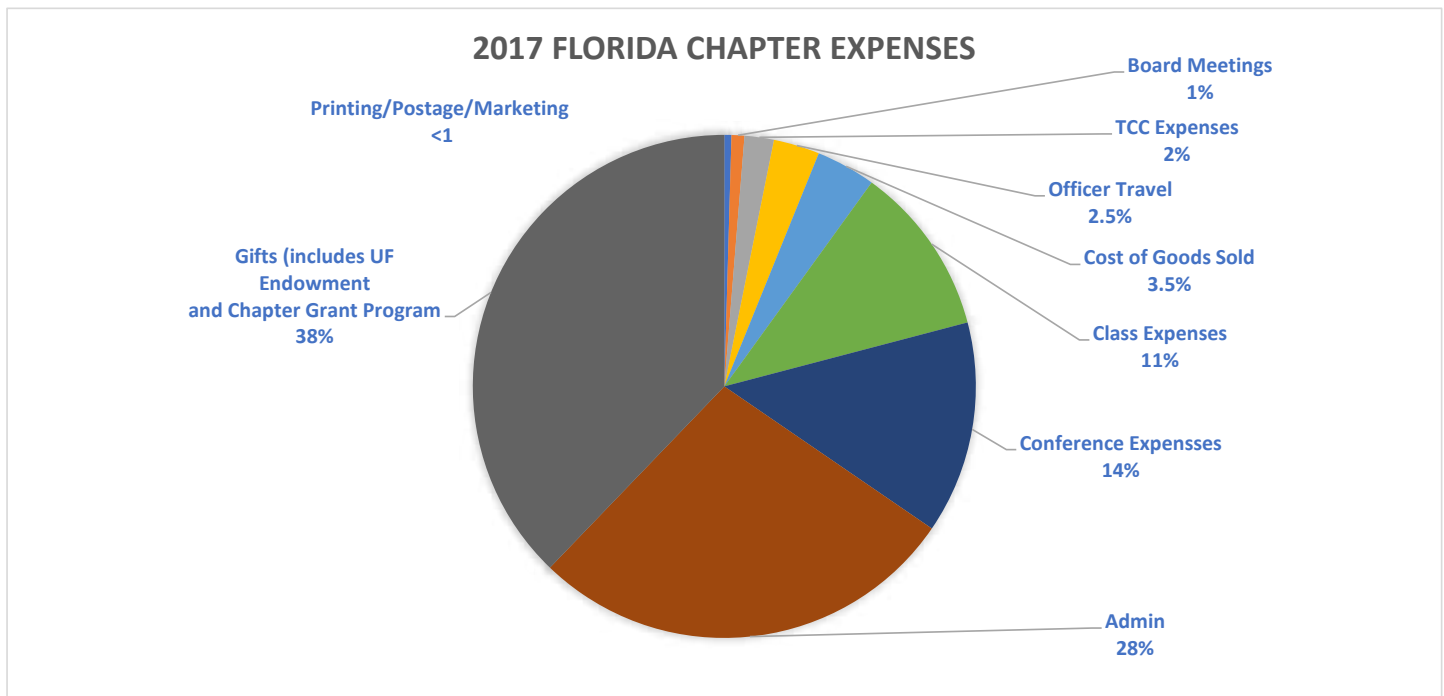
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The Florida Chapter of the International Society of Arboriculture (ISA) is a non-profit organization committed to serving the needs of Florida's professional arborists and tree-care consumers.

## Consultant's Corner

by Joe Samnik, Expert Tree Consultant



### DODGING THE BULLET

That was a close one. And it's not over yet. Next year it will come around again. City and county governments across this state were about to have significant tree management problems. Really significant.

So, a Florida elected official attempts to build something on his property. Local tree ordinances require that he



pay a fee for the removal of trees. The official hits the roof. He doesn't think he should be fined for removing his own trees. He is so enraged that he proposes a bill of eliminating all tree codes and ordinances, including fines, for tree removal on private property.

The bill doesn't pass but he is bent on trying again next year - and again. This very same scenario occurred in the state of Texas.

Panic ensued. Many of us immediately went to the idea of getting in touch with our representatives in Tallahassee. Informing them that we, as voters, certainly do not want this bill to pass. There was talk of forming committees to represent our membership. Management in government offices were making telephone calls to their representatives. Other ideas emerged on how to defend against this unthinkable bill actually passing. A lot of letters were written. A lot of phone calls were made. A ton of emails were sent. But the actual causation has never been addressed.

We, as a professional group of arborists, have never asked ourselves the hard question of tree ordinances and how they impact property rights. Property rights, Article 5 of the Bill of Rights, defines the tone and seriousness of property rights. Our country was formed on the principle of property rights. An industry exists to defend property rights. That industry is called eminent domain.

The hard question becomes this: does the government have a right to stop people from doing what they want to elements of their own real estate; direct interference with the right to reasonable use of one's owned property? Property Rights.

I can tell you precisely where I was at the moment I first heard that no longer could trees be removed from property without a permit. It was the most outrageous thing I think I ever heard. Imagine, the government telling me what I can do on my own property with my own trees! Nobody had ever heard of such a thing before. This was in the early or mid-1970s before the Florida Chapter ISA was formed. The ordinance was passed because of the clearcutting of trees by developers and builders of homes. The citizens did not want clearcutting to continue. So an ordinance was passed saying that could not be done without a permit to do so. Forty-five years later or so, here we are. Still grappling with the issue.

The issue has morphed into what many claim is nothing more than a tax. And, to the heart of the matter, direct interference with the right to the reasonable use of one's property. In many cases the additional costs of paying tree ordinance dollars is restrictive. And, moreover, the tree ordinance payments are based on flawed calculations of value. There may be more government jurisdictions in Florida whose tree removal fees are inconsistent with our industries approach to value than those jurisdictions with reasonable charges for tree removal. More importantly, to the marketplace and the custom of the industry to value a tree is in too many instances, wrong. The marketplace holds the key to just compensation. And our tree ordinances should mirror those principles.

There are many moving parts to this dilemma we face. But there is only one we have control over – policing our own tree codes and the costs brought to bear by those codes. Otherwise, we as a professional organization will leave the decision to the lawmakers. And we all know how that can end. ❖

## From Your TREE Fund Liaison Chair - Eric H. Hoyer

The TREE Fund President and CEO, Eric Smith, is emphasizing a broader concept in bringing awareness of the TREE Fund called “**Friendraising**”. This idea is based on five key organizational objectives as follows:

- Reducing our dependence on fundraising events
- Increasing the quality, quantity, and relevance of our research
- Fostering a better understanding of our mission
- Communicating outcomes of work funded by our supporters
- Expanding recognition outside of the tree care industry

While fundraising is still a “necessary evil”, the TREE Fund is trying to reduce its dependence on events such as the Tour des Trees and Chapter donations. By focusing on research needed by, and relevant to the industry, and by doing a better job at getting the results of the research to the public and industry, the TREE Fund will become more relevant to more people and, hence, become more connected to a larger audience creating a greater willingness to support the TREE Fund moving forward.

Eric Smith is emphasizing greater community engagement by reaching out to groups outside the industry – Society of American Foresters, American Society of Landscape Architects, Parks and Recreation Associations, Extension Agents, Rotary Clubs, Mayors/City Councils, and Homeowner Associations (HOA) are just a sampling of some of the groups to whom we can reach out. By engaging these groups, we educate more people on the benefits of trees and the importance of supporting the TREE Fund to promote relevant research. For example, by reaching out to these groups, we may learn that the biggest concern of an HOA is infrastructure damage caused by trees and supporting research to reduce such damage may garner the support of these groups. Mayors and City Council members may want research to prove that downtown areas planted with trees increases the length of time shoppers spend downtown. While these groups aren’t expected to provide significant financial support, their awareness of the TREE Fund may lead to other contacts who can do so and may generate donations from individuals within those groups.

Eric Smith is making himself available to travel and meet with any client, customer, or corporate prospect who could make a significant gift to the TREE Fund endowment.

Eric has developed various levels of “Partnership Support” ranging from \$2,500 (Bronze Partner) to \$50,000 (Crown Partner). These partnerships provide various degrees of recognition to the donor depending upon the level of support. Recognition can include logo recognition on apparel, year-round logo placement on the TREE Fund website, on-stage recognition at community events, national media announcement of the partnership, and logo placement on all printed articles for public release.

If any of you know of one of more of such prospective partners, please contact me at my email above or the TREE Fund at [treefund@treefund.org](mailto:treefund@treefund.org) to discuss and arrange for a meeting with the partner. These can be individuals or business people who have a keen interest in the environment, a corporation who is civic/community minded, a civic organization looking to make a donation, a local environmental group, a local Bandit or Stihl dealer, etc.

The TREE Fund still needs the support of the Chapters and individual members. However, by taking the emphasis off Chapter fundraising and increasing our circle of influence to others outside our immediate circle and embracing “Friendraising”, we will, together, advance our cause far more effectively. ❖



### 2018 Tour des Trees

Bike the Buckeye State with the 2018 Tour des Trees. Registration is open and filling fast! Sign up today at [treefund.org/tourdestrees](http://treefund.org/tourdestrees) for the July 29 to August 4, 2018, ride from Columbus to Cleveland and back.

#### NEW this year: Virtual Tour

YOU choose the activity (i.e., walking, running, cycling, etc.), the distance, and your fundraising goal. Get details at [treefund.org/tourdestrees/faqs-virtual](http://treefund.org/tourdestrees/faqs-virtual). ❖



## Your donations are making a difference!

TREE Fund is pleased to announce its 2017 grant awards for urban tree research. We issued \$ 225,000 in new awards in 2017, bringing our total disbursement of funding to over \$3. 4 million since our inception in 2002.

### 2017 Research Awards

#### Hyland R. Johns Research Grants

- **Richard Hauer, PhD** (University of Wisconsin – Stevens Point) will create an easy - to - use tool to evaluate and track progress within urban forestry programs. Ultimately the “Sustainable urban forestry planning models and decision-making dashboard” project will help urban forest planners create a story of the current state of their urban forestry program and identify areas to improve, thus leading to a sustainable urban forest program and tree population.
- **Kathleen Wolf, PhD** (University of Washington) will extract research about human health benefits specific to city trees and forests and conduct an economic valuation of such benefits. The “Urban forests for human health: a focused economic valuation” project will provide professionals in arboriculture, urban forestry, landscape design, etc. with additional data for justifying the costs of tree planning, planting and management.

#### Safe Arborist Techniques Fund Grant

- **Brian Kane, PhD** (University of Massachusetts Amherst) will collect and analyze safety standards from around the world in the “Arboricultural safety around the world” project. It will serve as a foundation for future studies into safe working practices in arboriculture.

#### Directed Grant: Arboriculture Education Benchmark

##### Review

- **Eric Wiseman, PhD** (Virginia Tech) and Co - Investigator Sarah Gugercin (Virginia Department of Forest Resources and Environmental Conservation) will inventory organizations involved with arboriculture / urban forestry educational grant-making programs in recent years. The “Education Review Program” project will provide a thorough analysis on such programs to guide decision - making on future TREE Fund Arboriculture Education grants. February 2018

#### Directed Grant: Research Impacts and Outcomes Study

- **Andrew Koeser, PhD** (University of Florida - Gulf Coast REC) and Co - Investigator Rich Hauer, PhD

(University of Wisconsin – Stevens Point) will conduct a comprehensive review of all past TREE Fund - supported research in their study “Research Review Program.” Their work will gauge direct and indirect outcomes, outputs, and impacts of the funded projects.

#### John Z. Duling Grant

- **Nina Bassuk, PhD** (Cornell University) seeks to improve tree transplant success and ultimately provide greater tree species diversity in the nursery industry via root manipulation. In the “Enhancing Tree Transplant Success through the Manipulation of Root Hydraulic Conductance” project, Dr. Bassuk will manipulate root growth to increase the rate and efficiency of water uptake, resulting in a production practice that can improve a tree’s ability to respond to transplant shock.

#### Jack Kimmel International Grants

Kimmel grants are supported by Canadian TREE Fund and its riders in the Tour des Trees outreach and fundraising event .

- **Rachael Antwis, PhD** (University of Salford, U.K.) and Co - Investigator Stephen Parnell, PhD (University of Salford, U.K.) are exploring natural microbial communities of trees as a way to address emerging infectious diseases such as the chalara fungus infecting ash. The “ Fighting microbes with microbes to protect our native trees ” study aims to identify microbial signatures of ash resistance to chalara and markers of host gene expression to identify resistant trees for cultivation and reforestation.
- **Liliana Franco - Lara, PhD** (Universidad Militar Nueva Granada) and Co - Investigator Helena Brochero, PhD (Universidad Militar Nueva Granada) aim to better understand the diseases caused by phytoplasma (a type of bacteria) that are affecting urban trees in Bogotá, including the strategically important Andean oak (*Q. humboldtii*). The “Identification of possible insect vectors of phytoplasmas in *Quercus humboldtii* Bonpl in Bogotá, Colombia” project will detect the insects associated with the Andean oak and identify the species that may be transmitting the bacteria. Findings will serve to define strategies to manage and reduce the spread of phytoplasmal diseases.

Apply today for 2018 TREE Fund [grants](#) and [scholarships](#); applications accepted through March 15th at [www.treefund.org](http://www.treefund.org). ❖

# LET THE COMPETITION BEGIN

**Date March 10 and 11, 2018**

Moss Park  
 12901 Moss Park Rd.  
 Orlando, FL  
 4 miles Southeast of SR 15  
 (Narcoossee Rd.) on Moss Park Rd.  
 Park phone: (407) 254-6840



**Regular Park Admission Fee:**

\$3 per vehicle for 1-2 people and \$5 per vehicle for 3-8 people.

Pets, drugs, and alcohol are NOT allowed in the park; ropes, hammocks and lines of any kind may not be tied to trees in the park.

**Saturday Kid's activities:**

Free Kid's climb for 3 hours, mid-day  
 Kid's activity/craft table

# MARK YOUR CALENDAR!

Everyone is invited to come watch the  
 2018 Florida Tree Climbing  
 Championship!

## 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

**ISA JOIN TODAY!**  
FLORIDA CHAPTER

visit [www.FloridaISA.org](http://www.FloridaISA.org)

# 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
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## News From International



### ANSI Z133 Updates

The 2017 revision of the Z133 Standard in English (Safety Requirements for Arboricultural Operations) is [now available for purchase](#). The Spanish translation of the Z133 Standard will be coming out soon.

### International Annual Conference and Trade Show – Save the Date!

August 5-8, 2018

Greater Columbus Convention Center

400 North High Street

Columbus, Ohio 43215

Host hotel:

[Hilton Columbus Downtown](#)

401 North High Street

Columbus, Ohio 43215

Phone: 1-800-HILTONS – Reference ISA18

Reservation deadline: July 11, 2018 or until the block is full

### 2018 International Tree Climbing Championship

August 3-5, 2018

Franklin Park, Columbus, OH

### Read the Latest Editions of ISA's Serial Publications Online

International members – remember you can access the current and past issues the international publications by clicking the links below and signing in on the isa-arbor.com website.

- the [Arborist News](#) magazine
- the scholarly, peer-reviewed journal, [Arboriculture & Urban Forestry](#).

Members and credential holders, sign in online to access to the [ISA Today](#) electronically as well.

### SPANISH RESOURCES

Several Spanish language resources are available on the ISA International website. There are Spanish translations of several important publications available to purchase at the ISA International [bookstore](#). ISA members can also access Spanish translations of several Arborist News articles by signing into your ISA account and looking under 'My Membership > Online Access to Publications > Arborist News Translated Articles'. ❖

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

## 2018 Certification Exam Schedule

**The FLORIDA CHAPTER of ISA is pleased to announce our 2018 schedule of Certification exams. See the chart below for the site nearest you.**

<b>Date</b>	<b>Exam/Class</b>	<b>Location</b>	<b>Time</b>	<b>Proctor or Instructors</b>	<b>Last Date to Register</b>	<b>Cost Member/Nonmem</b>
April 15, 2018 - Enrollment Deadline: March 28, 2018	ISA Certified Arborist, Utility Specialist, and Municipal Specialist Exam	Broward UF-IFAS Extension, Davie, FL	8:00 AM to noon	M Orfanedes and TBD	Minimum 12 business days prior	\$170/ \$280
April 28, 2018 - Enrollment Deadline: April 12, 2018	ISA Certified Arborist, Utility Specialist, and Municipal Specialist Exam	Miami-Dade UF-IFAS Extension, Homestead, FL	9:00 AM to 1:00 PM	H Mayer and TBD	Minimum 12 business days prior	\$170/ \$280

Watch for exams to be scheduled in 2018. Click [here](#) to view all currently available exams. The ISA Certified Arborist exam is now available at Pearson Testing Centers throughout Florida with an additional test center fee. See the ISA International web site [www.isa-arbor.com](http://www.isa-arbor.com) for more information.

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 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](http://www.isa-arbor.com).

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

### **Florida Chapter ISA - 2018 Education Schedule**

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

<b>Date</b>	<b>Seminar/Class</b>	<b>Location (s)</b>	<b>Open for Registration</b>
March 9, 2018	Outdoor Tree School	Orlando	<a href="#">Register Online</a>
March 21, 2018	Sustainable Landscapes	West Palm Beach	<a href="#">Register Online</a>
March 23, 2018	Sustainable Landscapes	Tampa	<a href="#">Register Online</a>
April 3-4, 2018	2-day Arboriculture Short Course with Ed Gilman	Orlando	<a href="#">Register Online</a>
May 2, 2018	Plant Health Care	Largo	
May 4, 2018	Plant Health Care	Pompano Beach	
June 11-13, 2018	Trees Florida 2018	Sanibel Harbour, Fort Myers	



# Welcome!

## New Florida Chapter Members

Here are the individuals that joined the Florida Chapter during the fourth 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.

Daniel Ackendorf, Safety Harbor, FL  
 Stephanie Adams, Gainesville, FL  
 William Akins, Eustis, FL  
 Juan Alvarado, Tallahassee, FL  
 María Alvarez, Gainesville, FL  
 Chad Bates, Vero Beach, FL  
 Charles Bergeron, Boynton Beach, FL  
 Thomas Blair, Groveland, MA  
 Bria Blitch, Gainesville, FL  
 David Brayboy, Cocoa, FL  
 Jesse Breden, North Port, FL  
 Cheryl Callender, Boca Raton, FL  
 Alicia Calley, Mary Esther, FL  
 Daniel Camacho, Naples, FL  
 Amber Carson, Daytona Beach, FL  
 Nicholas Carver, Titusville, FL  
 Tom Casey, Ocala, FL  
 Daniel Cerdeiras, Miami, FL  
 Damian de la Vega, Miami, FL  
 Siul Delgado, Homestead, FL  
 Angel Delgado, Homestead, FL  
 Al Falewitch, Navarre, FL  
 Bernard Feinberg, Davie, FL  
 Anthony Ferrer, Davie, FL  
 William Few, Tampa, FL  
 Jesse Frazier, Gainesville, FL  
 Michael Freudenreich, Freeport, FL  
 Stu Gabriel, Lake Worth, FL  
 Edward Gannon, Ocala, FL

Aaron Goldasich, Wellington, FL  
 Billy Goode, Laurel Hill, FL  
 Nanette Gregory, Orlando, FL  
 David Grieve, Westminster, CO  
 Chris Hastings, Alpharetta, GA  
 Chris Herbert, Miami Shores, FL  
 Charles Houder, Gainesville, FL  
 Marvin Hudson, Tallahassee, FL  
 Maxine Hunter, Hawthorne, FL  
 Erin Hurd, Gulf Breeze, FL  
 Jermaine Jackson, Plantation, FL  
 Brandon Johnson, Quail Heights, FL  
 Shawn Landry, Tampa, FL  
 Matthew Leatherbury, Sarasota, FL  
 Todd Loukides, Naples, FL  
 Abraham Luna, Fort Myers, FL  
 Trevis McIntyre, Tampa, FL  
 Scott Meyer, Belleair, FL  
 Luis Moreno, Hialeah, FL  
 Eric Muecke, Tampa, FL  
 Maha Nusrat, Miami, FL  
 Christopher Pardee, Gulf Breeze, FL  
 Kenneth Pollock, Daytona Beach, FL  
 Kyle Portwood, Pompano Beach, FL  
 Abdul Prawiradilaga, Naples, FL  
 Joseph Prio, Boca Raton, FL  
 Steve Punausuaia, Tallahassee, FL  
 Tim Redding, Tallahassee, FL  
 Jerry Reiss, Sarasota, FL

Jordan Robitaille, Gainesville, FL  
 Jennifer Rogers-Pomaville, South Miami, FL  
 Timothy Rounds, ENGLEWOOD, FL  
 Matthew Sexton, Marathon, FL  
 Richard Shockley, Panama City Beach, FL  
 Dalton Smith, Jacksonville, FL  
 Antonio Soto, Bonita Springs, FL  
 Harold Strange, Jacksonville, FL  
 Jonathan Sweat, Seffner, FL  
 Michael Torchetti, Lake Worth, FL  
 Mike Totherow, Fort Meade, FL  
 Paul Weinberg, Plantation, FL  
 David Wilby, Burlington, ON

\*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 2018 Board Meeting - Dates & Locations

April 20, 2018 - Orlando  
 June 10, 2018 - Fort Myers - Sanibel Harbor

# Arborist Certification Committee Report

*By Norm Easey, Florida Certification Liaison*

There is currently two ISA certification exams scheduled in Florida during the first half of 2018. [Click here to watch for future dates.](#) The ISA Certified Arborist exam is now available at Pearson Testing Centers throughout Florida. See the ISA International website [www.isa-arbor.com](http://www.isa-arbor.com) for more information about the various ISA arborist credentials and how to earn them.

Florida Chapter currently has 1966 Certified Arborists.

The Florida Chapter would like to congratulate the following 20 Florida or Florida Chapter individuals for earning their certifications as: Certified Arborist, and Utility Specialist :

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## **Certified Arborist**

Kevin Bradberry, Tallahassee, FL  
Robert Bragan, Jacksonville, FL  
Amber Carson, Daytona Beach, FL  
Philip Christman, Largo, FL  
Debra DeMarco, South Miami, FL  
Aaron Dobies, Coral springs, FL  
William Few, Tampa, FL  
Caleb Fletcher, Saint Augustine, FL  
Nicholas Hart, Miami, FL  
Matthew Kennard, Palm Coast, FL  
Christopher Pardee, Gulf Breeze, FL  
Vanessa Quinonez, Miami, FL  
Richard Shockley, Panama City beach, FL  
Dalton Smith, Jacksonville, FL  
Shane Souza, Gainesville, FL  
Laura Tooley, Fort Lauderdale, FL  
Alison Walker, Miami, FL  
Jessica Zarate, Miami, FL



## **Utility Specialist**

Seth Blair, Saint Petersburg, FL  
Michele Russo, Sarasota, FL

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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.



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