‘Gloom’ and Doom When These Insects are on Hot, Dry Red Maple Trees

By: Brad Buck

GAINESVILLE, Fla. — They are known as gloomy scales, and these insects can make a red maple tree’s life downright dreary. This is because the arthropods feed and thrive on them, especially in warm and dry urban landscapes, a University of Florida Institute of Food and Agricultural Sciences researcher says.

Melanaspis tenebricosa, or gloomy scale insects, reproduce more, especially when the trees they live on are under the stress of heat and drought, according to new study led by UF/IFAS entomology assistant professor Adam Dale.

Dale’s new research is important as residents and urban landscapers decide when and where to plant red maple trees, which are native and widely distributed in North America from Florida to Canada and whose canopy helps cool urban areas.

Dale conducted the study in Raleigh, North Carolina when he was a doctoral student at North Carolina State University. He wanted to know how the gloomy scale, an...
Dear Florida Chapter ISA Members,

Trees Florida is the place to be “Han-gin Out in Natural Florida”. Our annual conference will be held at the beautiful Hammock Beach Resort in Palm Coast Florida June 5 – 7. As chair of the Education Committee, I know firsthand that this year’s speaker lineup is one not to miss. Bill Armstrong, chair of this year’s conference, along with his committee has planned an expanded trade show and scheduled great social and networking events. If you are planning on attending and I have had the pleasure of meeting you in the past please stop and say hello. If not, please be sure to introduce yourself.

Our February and April board meetings proved to be as productive as the first. At the February board meeting it was announced that ISA International is interested in becoming involved in the process of the new Pruning Credential with intent to expand it to an international market. The purpose of this credential is to instruct those who touch trees how to prune trees according to research and industry standards. The hope is to offer this credential not only to improve tree work but to also provide a more universal program that all municipalities could use as requirements in their municipal boundaries. We had the pleasure of having Jonathan Frank occupy the “Empty Chair” at the February meeting. Jonathan shared his experience at the February Outdoor Tree School (OTS) and Florida Tree Climbing Championship (FLTCC) and described it as a great success. I too was fortunate enough to attend and couldn’t have been more pleased in how the event represented the overall skills, athleticism and sportsmanship of the climbers in our industry. I also had the opportunity to conduct a focus group meeting with several attendees and received feedback on what the Chapter can do for this division of our industry. Please consider joining us for the next OTS and FLTCC which will be held in October.

At the April board meeting, appropriately held on National Arbor Day, a Climber Committee was appointed with Carson Smith as the chair. The purpose of this committee is to address the needs of this division of our industry starting with feedback received at the focus group meeting conducted at the OTS. It was reported by chair, Dr. Ed Gilman, the Grant Committee would soon be starting the review and approval process of the second round of grant applications. The last round of grants was awarded for research including ganoderma and tree stability. Our April “Empty Chair” participant was John Burns who participated in many discussions offering positive and productive feedback. Our At Large board members are not wasting any time getting involved nor should you. Matt Anderson volunteered to be the chair of the Specialty License Plate Marketing and Revenue Committee. Initially, Matt will be focusing his efforts on the Trees Are Cool license plate campaign. The funds from the plate represent approximately $100,000 a year which is allocated to research and education for our members. If you don’t already have a Trees Are Cool plate, what are you waiting for? Jeremey Chancey volunteered to be the chair of the Loren Westenberger Workday. He will be organizing his committee and getting prepared for the next workday to help non-profits in need of tree care.

I, and the Florida Chapter Board of Directors, invite you to get involved and see what the Chapter has to offer. Come to a board meeting, attend Trees Florida 2017 or come out and watch our climbers at the Fall 2017 Florida Chapter TCC event. You will find board members at all events that are open to discuss your questions and ideas.

Lori Ballard
President, Florida Chapter ISA

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**Trees Florida 2017 Conference and Trade Show**
June 5-6-7 (Mon-Tue-Wed)
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**International TCC**
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Washington DC, National Arboretum
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Friday, October 27, 2017

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insect widely distributed around the eastern and southeastern U.S., would respond to hot, dry weather – conditions typical for urban trees. Researchers studied urban red maple trees at various temperatures around the city. Then they irrigated half the trees twice a week during the summers of 2014 and 2015. At the end of 2015, they collected gloomy scales from each tree, measured their body size, dissected them and counted the number of eggs the insects produced, Dale said. They then looked at the relationship between the temperature in the tree’s canopy and whether the tree was irrigated. Scientists wanted to see if either factor had an effect on the insects’ body size or egg production.

The hotter and drier the trees were, the more eggs the gloomy scales produced.

“This insect is drastically more abundant on urban than rural trees throughout the southeastern U.S.,” Dale said. “It reduces the health of these trees along with the services they provide to people and the environment.”

In many ways, this native pest acts like an invasive insect when it is in urban landscapes, he said.

“This pest can severely damage and kill trees that it feeds on,” Dale said. “Plus, its favorite host tree is the most common urban landscape tree in the eastern U.S. Since the gloomy scale benefits from warming and drought — two features common to urban landscapes — and urban landscapes are rapidly expanding, there is a potential for this pest to proliferate and cause even more problems in the future.”

Urban foresters and landscape architects can use the study’s findings by selecting more appropriate trees to be planted where heat and drought stress may be likely, Dale said. The research holds practical implications for urban residents, too.

“Sites that are surrounded by more impervious surfaces — roads, parking lots, buildings and more — and thus warmer and drier, are not the most suitable sites for these trees,” Dale said. “If they are in such sites, irrigating during the warmest months to reduce drought stress can help manage these pests.”

Dale’s study is published in the online journal PLOS ONE.

Dale will continue to work on this research in Gainesville, Florida, with scientists from N.C. State and the U.S. Forest Service in Gainesville during the next few years, with funding from the U.S. Department of Agriculture.
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 Florida Arborist Summer 2017

Florida Chapter Board Updates

BOARD SHORTS:

NEW CLIMBER COMMITTEE CREATED

President Lori Ballard has created a new Climber Committee to enhance the communication between the board and the climbers in the Florida Chapter; the Committee Chair is Carson Smith. If you have questions or concerns regarding subjects or events within the climber community contact Carson at carson@oneilstreeservice.com

CHANGE OF BOARD MEETING SCHEDULE

The November board meeting for the Florida Chapter has been rescheduled to Monday November 13, 2017 at the UF-IFAS Orange County Extension office in Orlando.

PATRON SPONSORSHIP

The Trees Florida 2017 Committee created a new sponsorship level for families and individuals who wish to support the Trees Florida event. Click here for the form; mail, fax, or scan/email it to Florida Chapter ISA office. Patron Sponsors will be included in the conference program, PowerPoint and on thank-you signage. Remember, individuals or families only; for businesses, please consider becoming a corporate sponsor by clicking here for the corporate sponsorship form.

ISA ANNUAL INTERNATIONAL CONFERENCE AND TRADE SHOW

Washington, DC
28 July - 2 August 2017
www.isa-arbor.com/conference
GAINESVILLE, Fla. — Laurel wilt disease has killed as many as half-a-billion trees. And, a new study by a researcher with the University of Florida Institute of Food and Agricultural Sciences suggests it may have been spread by a single insect cloning itself.

“In biology, there is no evidence of a single strain pathogen killing so many hosts in such a short period of time,” said Jason Smith, an associate professor in the UF/IFAS School of Forest Resources and Conservation.

According to Smith, the purpose of the study was to determine the genetic diversity of the pathogen and its beetle vector, and to provide an estimate of how many trees laurel wilt has claimed.

Laurel wilt is caused by a fungal organism that latches onto the redbay ambrosia beetle. Native to Southeast Asia, the beetle transmits the disease to trees in the Lauraceae family and uses wilted trees as sites for reproduction. Members include sassafras and avocado, but the chief victim has been the redbay.

Research indicates that laurel wilt has killed about 320 million redbay trees since its introduction in 2002 in Eastern Georgia— or 30 percent of the species’ population. The disease has spread throughout Florida, up to North Carolina and west into Texas.

“We think it could potentially get to Mexico and Central America where the Lauraceae is a dominant plant species,” Smith said.

Florida has an annual $100 million avocado industry, and Central America is a world leader in avocado production, he said.

The disease is transmitted when the beetle bores into the tree and deposits spores into the tree’s vascular system. As the spores are carried along, the tree’s defense system reacts, and shuts down the vascular system.

“Trees are dying as a result of overreaction to the fungus, rather than the fungus actually doing anything to kill the trees,” Smith said.

The disease has a 95 percent mortality rate. In hot weather, trees can die within weeks. The death of so many trees has wreaked havoc on local ecosystems.

“Redbay is a very important plant for many organisms, including bears, lots of birds, butterflies,” Smith said. “[Certain] butterflies depend of members of the Lauraceae for food during their larval development.”

Also, the disease has devastated swamp bay populations in the Everglades.

“That’s what’s really so amazing about it this,” Smith said. “A beetle no larger than Lincoln’s nose on penny could have led to the death of half-a-billion trees and counting and all of the radiating effects at the multiple trophic levels.”

Researchers suggest the insect’s unusual capabilities may be the key to redbay restoration.

The odds of not only the insect being clonal, but also the pathogen it carries, are astronomical, Smith said. “However, this means that the red bay beetle will be hard-pressed to make the adaptations necessary to continue infecting disease-resistant redbays as they are reintroduced,” he said.

The study is published in the journal Biological Invasions. Click here to read the study.
It should come as no surprise by now that walking among trees has health benefits. Shinrin-yoku or “forest bathing” is a practice in Japan, where people are encouraged to visit and spend time in a forest to improve their health.

“Studies have confirmed that spending time within a forest setting can reduce psychological stress, depressive symptoms, and hostility, while at the same time improving sleep and increasing both vigor and a feeling of liveliness,” reports Mother Earth News. “These subjective changes match up nicely with objective results reported in nearly a dozen studies involving 24 forests—lower levels of cortisol and lower blood pressure and pulse rate.”

Just the smell of trees has health benefits. “Chemicals secreted by trees, known as phytoncides, have been linked with improved immune defense as well as a reduction in anxiety and increase in pain threshold,” reports Slate in an article on the health benefits of nature. Studies have also shown that children with ADHD who play in a green outdoor environment, rather than an indoor or constructed environment, show a decrease in their symptoms. Even just living around more trees means a healthier overall mental state. A recent study showed that Londoners who live near trees take fewer antidepressants.

Of course, being in a forest also means there’s a certain amount of exercise going on. Exercise is a proven solution for many ailments including fatigue, depression, anxiety and of course obesity. Combining the benefits of movement with the benefits of a forest setting is an extra-strong prescription for many health issues.

If there is one good thing you’re going to do for yourself today, perhaps it should be heading out the door to go take a walk in a forest or a tree-lined park.
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Many people love their avocados – not to mention guacamole dip. So it was bad enough when scientists said a beetle was ravaging avocado trees in South Florida. Then scientists found out that the redbay ambrosia beetle -- originally determined to transmit laurel wilt -- is rare in avocado groves but that six other beetle species could carry the laurel wilt pathogen.

That’s more species for scientists to track down and study. University of Florida Institute of Food and Agricultural Sciences economists have estimated avocados bring a $100 million-a-year economic impact to South Florida.

In a new study, UF/IFAS plant pathology professor Randy Ploetz said scientists found three more types of beetles that can carry the pathogen that can kill avocado trees. Ploetz and his colleagues collected hundreds of beetles. Then they put them through a lab procedure to grow the laurel wilt pathogen. The test showed scientists how many spores of the fungus were in each beetle. That data guided them to the number and types of beetle species carrying the fungus.

“Several beetles other than redbay ambrosia beetle carry the pathogen,” Ploetz said. “However, it will be...
important to determine their roles in the spread of this disease. Again, that is not easy. But the results suggest that focusing on the redbay ambrosia beetle regarding the avocado situation may not be a good idea.”

Daniel Carrillo, an entomology assistant professor and colleague of Ploetz’s at the Tropical REC, found over 14 different ambrosia beetles may infest avocado trees, and he is studying these beetles to identify key players in the spread of this disease and working on ways to control them. But, it’s too early to issue a best management practices manual for these beetles, scientists said.

“Avocado producers have known for some time that other ambrosia beetle species besides the redbay ambrosia beetle are transmitting the pathogen to avocado in their groves,” said Jonathan Crane, a tropical fruit Extension specialist at the Tropical REC.

Once this was clear, the research focus changed from the original beetle species to these other species. That way, scientists could determine such traits as their life cycles, habits and transmission capabilities, Crane said. Now, scientists and growers can try to find better strategies for the laurel wilt-transmitting beetles.

“So knowing laurel wilt’s other vectors changes things, and knowing it has potentially multiple vectors adds additional concern for producers,” Crane said. ❖
JOHN P. WHITE MEMORIAL SCHOLARSHIP FUND APPLICATION

Sponsored by:
Florida Chapter International Society of Arboriculture and Florida Urban Forestry Council

John P. White is remembered for his generous giving spirit as both the Florida Chapter ISA’s Tree Fund Liaison and a dedicated member of the Florida Urban Forestry Council’s Executive Committee as well as for his contributions to the annual Trees Florida Conference. He had a zeal for life and steadfast passion for arboriculture and urban forestry. It is our organizations’ desire that the recipient of this scholarship will reflect John’s passion and continue to carry the torch on behalf of these fields.

The John P. White Memorial Scholarship was established to support education in the arboriculture/urban forestry industry through scholarships in the sum of $1250.00 per semester for qualifying students. It is hoped that the John P. White Memorial Scholarship will provide deserving students the opportunity to develop into a new generation of dedicated individuals for the arboriculture and urban forestry industries of tomorrow.

Purpose Statement
The John P. White Memorial Scholarship was created to encourage students to pursue careers in Florida’s arboriculture/urban forestry industry or a related field by providing financial assistance for undergraduate, postgraduate or other advanced education programs. The intent is to provide financial assistance for qualified students to gain expertise and experience, earn post high school degrees and become active members and leaders in the industry.

Eligibility
Applicants may be an incoming freshman, sophomore, junior, senior, or graduate student planning to or currently attending a community college, college or university. The student 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. Awards recipients are eligible to reapply for the scholarship each semester.

Requirements
Students must return all of the following to the John P. White Memorial Scholarship Committee by the deadline of June 15th for the fall term and November 15th for the spring term. Recipients will be notified of selection by July 31st for the fall term and January 1st for the spring term.

1. Completed scholarship application.

2. Two letters of recommendation from someone on the faculty of your school who will evaluate your abilities as a student, from a professional member of the arboriculture/urban forestry industry or related field or from someone you have worked for.

3. Biographical essay (maximum 500 words) that includes the following: work or classroom experience with arboriculture/urban forestry or related field, what area of arboriculture/urban forestry or related field that you are interested in pursuing, what you plan to do after graduation, and why you are qualified to receive the John P. White Memorial Scholarship.
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Our regional outreach coordinators serve as local resources for our members.

8

TCIA
The Tree Care Industry Association has been working since 1938 to advance tree care businesses

78 years

EHAP
Electrical Hazard Awareness Program enrollees and certifications in the last 10 years.

8,146

ASTI
The Arborist Safety Training Institute has approved grants for this many workshops since it’s inception.

93

TREE CARE ACADEMY
Individuals enrolled and credentialed in the last 10 years.

7,477

CTSP
Certified Tree Care Safety Professionals have graduated in the last 10 years.

2,236

RESOURCES
Access our ever-growing business, safety and arboriculture resources.

∞

ACCREDITATION
There are currently 430 accredited branches, representing 195 companies.

430

195

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online: TCIA.ORG or call: 800.733.2622
Congratulations to Alisha Amundson of Tree Girl Designs in Oviedo and Jason Gerrish of Tree Huggers in Miami for their wins at the spring Florida TCC Championship in Apopka, FL. Both Alisha and Jason will represent the Florida Chapter at the International TCC that will be held at the US National Arboretum in Washington DC July 28-30, 2017. Good luck to you both at the International event!

The Florida TCC event in Apopka was held at Kit Land Nelson Park. The five preliminary events were held on Saturday February 18, 2017; the Master’s Challenge was held on Sunday the 19th. There were 35 competitors who travelled from near and far to participate. The Florida TCC Chair, Adam Jackson (Davey Tree) and his energetic crew of prep volunteers, judges and timekeepers devoted much time and effort to organize and run the event.

In addition to the winners of the preliminary events (see list on page 15), the winner of the Florida Chapter Sportsmanship Award (honoring climbers who are no longer with us) was Chris Coates. The Bruce Smith Pay-It-Forward Award was presented to John Freeman. A special thanks to the parents of climber Ron Price for attending the competition and accepting an honorary Remembrance Award on behalf of Ron.

Once again, congratulations to Alisha Amundson and Jason Gerrish for winning the 2017 Florida TCC, and thank you to all the climbers who travelled and participated in the Florida TCC.
Florida Chapter TCC Congratulations!

The Florida Chapter would like to congratulate the following Master’s Challenge climbers for participating and giving it your “all” for the chance to represent the Florida Chapter at the International TCC in Washington DC – in alphabetical order:

**MASTER’S CHALLENGE**

1. Alisha Amundson (female winner)
2. Chris Coates
3. Jason Gerrish (male winner)
4. Trevor Hill
5. Paul Lloyd-Jones
6. Tim Walters

**PRELIMINARY WINNERS**

Congratulations to the following top 3 winners in each event:

**Aerial Rescue:**
1. Tim Walters
2. Carson Smith
3. Doug LaFortune

**Belayed Speed Climb:**
1. Jason Gerrish
2. Paul Lloyd-Jones
3. Anthony Duffey

**Secured Footlock:**
1. Chris Coates
2. Jason Gerrish
3. Trevor Hill

**Throwline:**
1. Paul Lloyd-Jones
2. Tim Walters
3. Christopher DeNoma

**Work Climb:**
1. Chris Coates
2. Doug Roy
3. Forrest McCullough

See you in October! Watch for announcements for the Fall 2017 Florida Chapter TCC. The event will be held in Orlando on October 28-29, 2017.
Ownership of a tree is not relegated to the realm of rocket science. What the tree does to your neighbor or what your neighbor’s tree does to you is rocket science. And the laws that govern these incidents vary from state to state.

Using England common law, where much of our law originates, the ownership of a tree started with the origin of the trees roots. We have learned over time however that roots tend to grow and spread. The tree roots which started in one yard quickly spread to other yards or encroach into areas not belonging to the owner of the tree. In an effort to rid the court system of nuisance claims and those claims which took up much of the court’s time, the concept of self-help originated.

In Florida, and other states, the ownership of a tree is determined by the location of the trunk. If a tree trunk is located entirely on the property owned, that party is the owner of the tree. Of course tree trunks can be large and wide and that’s where the trouble begins. Often a tree finds itself in the property line between or among other people’s land and those boundary trees then become under the ownership of all people’s properties who share ownership of that boundary tree as tenants in common. Ownership of the tree defines owner’s rights, maintenance responsibilities, and of course, liability.

We are all faced with the commonality of a neighbor’s tree canopy overhanging a property line or growing above the neighbor’s home or personal property. This situation becomes exacerbated when the tree in its entirety or part is in danger of falling or failing. As we are all aware, the roots of trees can also do extensive damage to neighboring improvements and property. This encroachment dilemma includes killing vegetation as well as the obvious destruction of sidewalks, driveways, pool decks and house foundations.

This is where self-help comes in (see Galo v. Heller). In this Florida landmark case, the courts basically said that if a neighbor’s roots or parts of a tree are encroaching or causing problems, then the person to whom the damage may or is occurring has the right to self-help or remedying the problem without permission of the owner of the tree. That is where the real mischief begins. The question of the irreparable damage caused to a tree by self-help is usually decided in a court of law. Of course when implementing self-help one cannot trespass onto another’s property. Most states have adopted one of the following approaches to resolution: the Massachusetts Rule, the Restatement Rule; the Virginia Rule, and the Hawaii Rule.

Under the Massachusetts Rule, a landowner’s sole remedy is self-help. In this instance, it is the neighbor who has the responsibility of ensuring that nothing happens to his property from an adjoining neighbor’s tree. Kentucky, Maryland, the District of Columbia and Florida have adopted the Massachusetts Rule. Left to the courts are deserving property owners whose neighbor’s trees have caused damage or injury by encroachment of trees in part or in whole. The Restatement Rule has only been adopted in a few places and imposes an obligation on a landowner to control its artificial landscape trees but not natural vegetation or trees. In these instances if a tree grew naturally and caused damage to a neighbor there would be no liability on the person owning the tree. However, if the tree had been installed and maintained there would be liability if that tree caused damage to a neighbor’s property.
The Virginia Rule states that encroachments of a tree or other plant material that are not noxious in nature cannot be legally held responsible for encroachment which leaves the landowner held to the option of self-help. As you might imagine the rubber meets the road over the definition of what vegetation is noxious and which is not. Is noxious defined by genetic poisonous parts or because it causes or could cause an injury? Thus, the conclusion is that most states do not function under the Virginia Rule.

The Hawaii Rule states that living trees and plants are ordinarily not nuisances but they can become so when they cause actual damage or injury or pose an imminent threat of actual harm to the neighbor. It seems that the Hawaii Rule makes more sense to several states including of course Hawaii, Indiana, Illinois, Minnesota, New Mexico, Ohio, Oklahoma, New York and others.

The approach to resolution of a neighbor’s tree seems in part to be found in self-help. However, the cost of self-help is the responsibility of the neighbor who does not own the tree. It makes logical sense that if my neighbor is not taking care of the tree which they own why must I be burdened with the cost of doing so? The answer is that if you want to impose self-help you are stuck with the cost of doing so. The alternative is to approach your neighbor and explain the situation hoping that goodwill will prevail. If it does not, then court seems to be the likely remedy over self-help.

As arborists we must exercise extreme caution to ensure that any work we do on a tree belongs to the person who has retained us to do the work. Many arborists are so sensitive to this matter that they want to see a survey which shows the subject tree marked and belonging to the person who is retaining the arborist to do the work. A neighbor giving verbal permission to work on his tree is not enough security that you, the arborist, will not find yourself joined in a lawsuit in the after situation of your work. Get the neighbor’s permission to prune in writing. Make certain that the neighbor has a written copy of the specificity you are going to use in pruning the tree. It is on that specificity that the neighbor is signing off. Never take the word of your client that a tree obviously...
TREE Fund Awards Over Half a Million Dollars in New Grants in 2016

Historic level of funding empowers tree research and education programs across the globe.

TREE Fund is pleased to announce its final round of 2016 grant awards for urban tree research and education. With these grants, the 501(c)3 charity reached a record-breaking ~$550,000 in new awards in 2016, bringing its total disbursement of funding to nearly $3.2 million since its inception in 2002.

“We achieved this higher level of grant-making in 2016 by increasing both the number and the value of several of our grant lines,” explains TREE Fund President and CEO J. Eric Smith. “We are proud and excited to be able to empower a larger body of new work, all through the tremendous international support we receive from our individual and organizational partners.”

2016 Research Fellowship Grant recipient:
Mitchell Pavao-Zuckerman, PhD (University of Maryland) and Co-Investigator Dr. Raymond Weil (University of Maryland)

2016 Utility Arborist Research Fund Grant recipient:
Christopher M. Halle, PhD (Sonoma State University) and Co-Investigator Claudia Luke, PhD (Sonoma State University)

2016 John Z. Duling Grant recipients:
• Adam Berland, PhD (Ball State University) and Co-Investigator Jess Vogt, PhD (DePaul University)
• Justin Morgenroth, PhD (University of Canterbury, New Zealand) and Co-Investigator Andrew Koeser, PhD (University of Florida)
• Brian Kane, PhD (University of Massachusetts Amherst) and Co-Investigator Mark Reiland (University of Massachusetts Amherst)

2016 Jack Kimmel International Grant recipients:
• Francesco Ferrini, PhD (University of Florence, Italy) and Co-Investigator Simone Orlandini, PhD (University of Florence, Italy)
• Camilo Ordóñez, PhD (Ryerson University, Canada) and Co-Investigator Andrew Millward, PhD (Ryerson University, Canada)

2016 Ohio Chapter ISA Education Grant recipient:
The Holden Arboretum (Kirtland, Ohio)

2016 Scholarship recipients:
Thomas McNulty, Penn State University
Allison Wilson, Penn State Mont Alto
Conor Smith, University of New Hampshire
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?

Awarding more and bigger grants

Adding more programs

Opening the circle to new donors

Injecting new revenue streams

Donate to the TREE Fund today!

Online: www.treefund.org
By phone: 630-369-8300

By mail: TREE Fund
552 S. Washington St. Ste. 109
Naperville, IL 60540

We’re setting the stage for transformative growth in 2017. With your support, growth can ring in the New Year from day one.
not on his property was given the owner’s permission to remove or prune.

In August the Florida Chapter, ISA, will conduct a seminar on Trees and the Law designed for the owners of tree companies and supervisor level staff. Featured as speakers will be attorneys whose expertise in writing contracts and staying out of legal problems will be presented. These two topics alone are worth the price of admission. I do hope to see you there.

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

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

JOIN TODAY!

visit www.FloridaISA.org

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
THE NEXT GENERATION OF TREE I.V. HAS ARRIVED

FAST
First ever 120 PSI injection system

EFFICIENT
Lightweight and easy turn valves allow for total control

RELIABLE
Hex PDS Technology distributes product evenly to parallel injection lines

FLEXIBLE
1.5L or 650mL - Choose the right bottle for your tree

EASY FILL
Quickly add product without removing cap

PRODUCTIVE
Maximize output with 6 lines, or use 12 with the built-in expansion system

arborjet.com
News From International

ONE WORLD UNDER ONE CANOPY
WASHINGTON DC: Together Again!

Join fellow arborists for this year’s ISA ANNUAL INTERNATIONAL CONFERENCE AND TRADE SHOW, together again with the INTERNATIONAL TREE CLIMBING CHAMPIONSHIP.

- July 31-August 2, 2017: International Conference and Trade Show at the Gaylord National Resort & Convention Center, National Harbor, MD

Register BY June 2, 2017 for pre-conference pricing. Click here for conference information.

BRING A FRIEND TO ISA: Member Get a Member Referral Rewards Program

From February 1st through May 31st, ISA Professional, Senior, Life, and Honorary Life members are encouraged to recruit their colleagues to get involved with the global network of tree care professionals by becoming ISA Professional Members. Members may recruit individuals who have either never held an ISA membership or have not held an ISA membership during the prior 12 months. To learn more about how the Member Get a Member Program works and how you can earn rewards, please visit the ISA website.

ISA Welcomes Its 20th Associate Organization

The Latvian Arboriculture Society has signed its Operating Agreement and Memorandum of Understanding as ISA’s 20th associate organization. This brings the ISA family of industry associations to a total of 60—36 chapters, 20 associate organizations, and four professional affiliates. The organization’s official name is Latvijas Kokkopju Arboristu Biedrība (LKAB), founded by a group of educators associated with the Ērgļi Vocational School, the only secondary school in Latvia that trains students to become arborists. Welcome, LKAB!

ARE YOU ALSO AN INTERNATIONAL ISA MEMBER? VOTE BY MAY 30th!

General Membership Election

Board of Director Seats
ISA is seeking to fill two seats on the ISA Board of Directors, and general membership voting will be open until May 30, 2017. The Nominating and Election Committee has received and evaluated a qualified roster of nominees who represent the diverse mix of ISA’s membership as potential leaders of our society.

ISA recognizes the importance of reflecting the diversity of its members and markets through its staff, volunteer force, and governance. The varied capabilities within our society help ISA to anticipate and fulfill the needs of its members and customers, both domestically and internationally, and to provide high quality products and services. We believe that the wide array of perspectives resulting from our diversity promotes innovation and business success.

Nominating and Election Committee Seats
ISA is also seeking to fill two seats on the Nominating and Elections Committee (NEC). This committee’s responsibility is to provide oversight to all ISA elections. Under authority of the Board, the NEC is directed to recommend qualified nominees to the Board of Directors for open NEC seats. The NEC may identify and recommend more qualified candidates than open seats available. The Board will review the nominees recommended by the NEC and will accept, reject, and/or modify the list of nominees for NEC positions.

ISA member voting is available by electronic means only. Polls will be open through May 30, 2017. In early April, ISA staff emailed a link to the voting ballot to ISA members who purchased their memberships by March 31, 2017. If you haven’t voted yet, look back in your emails for the link to vote, and have a voice in this important decision.
Hangin’ Out in Natural Florida

at TREES FLORIDA 2017

JUNE 5 - 7, 2017
Hammock Beach Resort
PALM COAST, FL

2017 format:
MON - TUE - WED

For more information go to
www.TreesFlorida.com
OUR TEAM

ERIN GIVENS, CA
(352)457-6356

WALTER GIVENS
(352)457-1336

JOHN HOLZAEPFEL, CA, ACF, CF
(352)238-0917

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

CHARLIE MARCUS, CA
(850)570-5963

ALSO PICTURED: JACK VOGEL, PRESIDENT

LEGACY ARBORIST SERVICES
A DIVISION OF NRPS FOCUSED ON MANAGING THE URBAN FOREST

Tree Risk Assessments
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Expert Witness Testimony
On-site Tree Preservation
Arborjet Tree Injections
Natural Areas Management Planning

Street / Park Tree Inventory
Canopy Analysis
Urban Forest Management Planning
i-Tree Analysis
Grant & Ordinance Preparation
Educational Workshops
Urban Forestry Outreach & Promotion

CREATING A LEGACY, GROWING YOUR FUTURE SINCE 1974

www.NRPSforesters.com
### Florida Chapter ISA - 2017 Education Schedule

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Seminar/Class</th>
<th>Location (s)</th>
<th>Open for Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 5-6-7, 2017</td>
<td>Trees Florida 2017</td>
<td>Hammock Beach Resort, Palm Coast, FL</td>
<td>Register online by May 28, 2017</td>
</tr>
<tr>
<td>August 23, 2017</td>
<td>A Blueprint for Success: Tree Law</td>
<td>Pomano Beach</td>
<td>Watch for details</td>
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<tr>
<td>August 2017</td>
<td>A Blueprint for Success: Tree Law</td>
<td>Sarasota</td>
<td>Watch for details</td>
</tr>
<tr>
<td>September 27, 2017</td>
<td>Tree ID</td>
<td>Naples</td>
<td>Watch for details</td>
</tr>
<tr>
<td>September 29, 2017</td>
<td>Tree ID</td>
<td>Largo</td>
<td>Watch for details</td>
</tr>
<tr>
<td>Fall 2017</td>
<td>TRAQ</td>
<td>TBD</td>
<td>Watch for details</td>
</tr>
<tr>
<td>October 25, 2017</td>
<td>Indoor-Outdoor Arboriculture</td>
<td>Tallahassee, FL</td>
<td>Watch for details</td>
</tr>
<tr>
<td>October 27, 2017</td>
<td>Outdoor Tree School</td>
<td>Moss Park, Orlando, FL</td>
<td>Watch for details</td>
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<tr>
<td>November 2017</td>
<td>Mature Tree Care</td>
<td>Orlando</td>
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<tr>
<td>November 2017</td>
<td>Mature Tree Care</td>
<td>Ft. Lauderdale</td>
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<tr>
<td>December 2017</td>
<td>Tree Biology A-Z</td>
<td>Orlando</td>
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<tr>
<td>December 2017</td>
<td>Tree Care 101</td>
<td>Pensacola</td>
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<tr>
<td>January 2018</td>
<td>Advanced Arboriculture - Wood Decay</td>
<td>Ft Lauderdale</td>
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<tr>
<td>January 2018</td>
<td>Advanced Arboriculture - Wood Decay</td>
<td>Orlando</td>
<td></td>
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<tr>
<td>February 2018</td>
<td>Storms over the Urban Forest</td>
<td>Orlando</td>
<td></td>
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<tr>
<td>March 2018</td>
<td>Sustainable Landscapes</td>
<td>Tampa</td>
<td></td>
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</tbody>
</table>
New Florida Chapter Members

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

Christopher P. Andrews, Leesburg, FL
Lewis E Aqui, Miami, FL
Roberto Arenas, Leesburg, FL
Ivan Arocha, Orlando, FL
Rollin S. Austin, Tallahassee, FL
Neal Franklin Avery, Jr., Wesley Chapel, FL
Trevor Scott Bacon, Dunedin, FL
Glenn Bechtle, Dunedin, FL
Jennifer Bellars Forrester, Daytona Beach, FL
Shannon Heather Brewer, Holiday, FL
Billy Butterfield, Orlando, FL
Michael John Casey, Jr., Loxahatchee, FL
Dewey Clyfton Champion, Dade City, FL
Jonathan Colburn, Gainesville, FL
Abdias Dalisma, North Lauderdale, FL
Christopher Delostrinos, Apopka, FL
Dustin Demmery, Lake Worth, FL
Alfredo Diaz, Miami, FL
Thomas J Edwards, Clearwater, FL
Randal Wayne Eldridge, Sarasota, FL
John Freeman, Winter Garden, FL
Julio Garcia, Naples, FL
Gary Lee Gray, Wesley Chapel, FL
John Guezieja, St Petersburg, FL
Gorman Gene Hamilton, Oak Park, FL
Craig Henderson, Tallahassee, FL
Christina Hensel, Kissimmee, FL
Deborah Hilbert, Sarasota, FL
Lacy Crider Holtzworth, Gainesville, FL
Allen L Howell, Palm Harbor, FL
Peter Allen James, Pompano Beach, FL
Thomas Lane, Spring Hill, FL
John Paul Lebel, Thonotosassa, FL
Franck Leblanc, Juno Beach, FL
Michael C Leger, Coconut Creek, FL
Daniel Lippi, Saint Augustine, FL
Chad A Mako, Okahumpka, FL
Christopher P. Andrews, Leesburg, FL
Lewis E Aqui, Miami, FL
Roberto Arenas, Leesburg, FL
Ivan Arocha, Orlando, FL
Rollin S. Austin, Tallahassee, FL
Neal Franklin Avery, Jr., Wesley Chapel, FL
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Franck Leblanc, Juno Beach, FL
Michael C Leger, Coconut Creek, FL
Daniel Lippi, Saint Augustine, FL
Chad A Mako, Okahumpka, FL

*Go to http://www.isa-arbor.com, then go to “Members Only” and log in. Then go to ISA membership directory.

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. Lee wynn 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

June 4, 2017 - Palm Coast
September 8, 2017 - Orlando

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Are you thinking about becoming certified?

Visit the International ISA website
To access the certification application handbook with further information.
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.