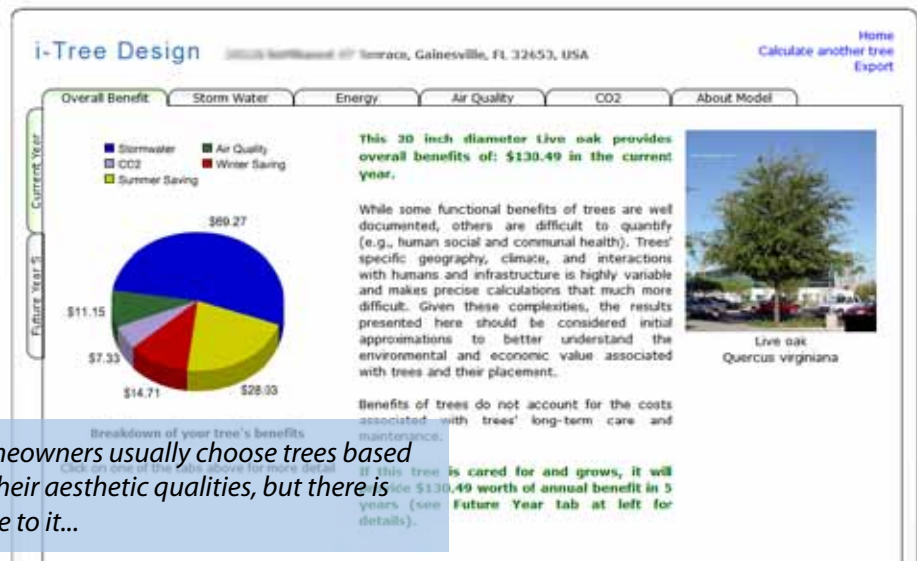


Winter 2013
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Different Trees and Their Capability to Reduce Household Carbon Footprints

Francisco Escobedo, School of Forest Resources and Conservation, University of Florida, Gainesville and Henry Mayer, Miami Dade IFAS Extension Agent.



English Version

Based on the articles from: Richard Vaughn, graduate student, School of Natural Resources and the Environment, University of Florida/IFAS; Mark Hostetler, professor and Extension specialist, Department of Wildlife and Conservation and Francisco Escobedo, assistant professor and Extension specialist, School of Forest Resources and Conservation

Trees perform an important function in the natural carbon cycle. Through the process of photosynthesis, trees *sequester*, or capture, carbon dioxide (CO₂) from the atmosphere to create energy for growth. This carbon is then *stored* in the tree's biomass over its lifetime. Trees store carbon in their leaves, branches, trunks,

Different Trees continued on page 14

Versión española

El software de i-Tree ha estado disponible desde hace varios años. Hasta la fecha, es una de las pocas herramientas disponibles para las comunidades sin costo, y que proporciona información relativamente fácil de entender basada en métodos científicos. Se utiliza para evaluar la cantidad, el tipo, las características, así como los beneficios y necesidades de manejo de los bosques urbanos. Basado en el artículo de: Richard Vaughn, graduate student, School of Natural Resources and the Environment, University of Florida/IFAS; Mark Hostetler, professor and Extension specialist, Department of Wildlife and Conservation and Francisco Escobedo, assistant professor and Extension specialist, School of Forest Resources and Conservation.

Different Trees continued on page 16

A Message From the President



Greetings members and friends,

Now that November has arrived, we all can begin to enjoy the cooler temperatures and the seasonal changes during this time of year living in Florida. This is my last presidential message, it has been an honor and a pleasure to have served as your Florida Chapter president for this past year. Our incoming president, Dr. A.D. Ali will continue to move the chapter forward and provide the leadership to keep the Florida Chapter strong.

I wanted to point out the great work of our education committee and how active they have been with this year's seminars and Trees Florida. The education committee has provided you the opportunities to attend continuing education programs across the state. I value the commitment that the Florida Chapter ISA gives to its members in the way of training.

I have to point out again in my final message the importance of the TreesAreCool specialty license plate. As arborists and members of Florida Chapter ISA, we are committed to education and tree research that this TreesAreCool license plate helps to provide for Florida. If you have one for your vehicle already - great! if you wish to purchase the license plate, please see the [TreesAreCool](#) website.

I want to encourage our membership to attend meetings of the Board of Directors whenever possible.

I highly recommend to anyone to get involved with Florida Chapter ISA. You will receive great personal and professional fulfillment. You can start by volunteering for an existing committee; check out the list of standing committees at [Floridaisa.org](#). As always, if you have any complaints or suggestions, please let me know. All my contact info is on the [website](#)

In closing, I want to express my thanks to all who have

served on the board and committees for the past year. Being volunteers, you continue to advance our profession with your passion and the care of trees in Florida. A special thanks to Norm, Jan and Patty for their continued efforts in keeping our Chapter's business running successfully and efficiently.

Sincerely,

Patrick Miller

President, Florida Chapter ISA

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Consultant's Corner

by Joe Samnik, Consulting Arborist



Go Forth and Testify

At first blush you may think that this article is about a small, albeit ugly armored animal and you would be justified in doing so. After all, the name Armadillo Partners conjures up a mental image of a corporate holding of armadillos, presumably for sale. Such would not be the case however. In fact, this article is about an arbor area and trees located at a shopping center called Armadillo Square in Broward County, Florida.

The Department of Transportation initiated eminent domain proceedings to acquire certain property along Griffin Road for purposes of a road widening project. Parking spaces were lost. In an effort to replace the lost parking, an arbor area was taken and replaced with parking spaces. That is all fine and good, it happens all the time. However, in this instance, the appraiser for the Department of Transportation did not include the value of the arbor area in his assessment. Horrors to be sure!

Goodbye Frye: The Frye test holds that expert testimony is admissible only if the scientific principle or method is generally accepted in its particular field. It ensures that only methods that are competent are heard by the trier of fact. Expert testimony is not competent and therefore inadmissible if it is essentially speculative and conjectural. But in Armadillo the court held that the failure of an expert to consider one of many factors in determining compensation goes to the weight of this testimony, and not to his competency to testify. Yikes!

The Florida Supreme Court created a new standard for expert testimony in eminent domain by parting from Frye. Expert testimony is admissible unless the method used by the expert is totally inadequate or improper and would depart from all common sense and reason or would require adoption of a new and totally unauthenticated formula. The judge is no longer gatekeeper of evidence regarding the competency of the expert's methodology.

Of course, Armadillo regards Eminent Domain actions. Civil and Criminal actions return to the standards held by Frye or Daubert.

My best to you; now go forth and testify... ❖



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News From International

Membership Renewal in International ISA - Save \$5!

Everyone loves a sale! Here is an incentive for renewing early before your International ISA membership expires on December 31, 2013. If you renew online before this expiration date, you are eligible to receive a \$5 discount by entering the coupon code: **EarlyRenew2014**. [Renew online today!](#)

There are some changes for the 2014 membership year:

1. ISA is restructuring its [Information-Sharing Preferences](#) which drive the types of promotional communications you receive from us. During the transition, some of your preferences may have been inadvertently altered. Please [log in](#) to your ISA account to verify and/or update your current information-sharing preferences.
2. If you want to receive a printed copy of the ISA Membership Directory, you must select this option during your renewal process. As a member of ISA, you always have full access to the online [Membership Directory](#).

As a member of International ISA, you receive many benefits, some of which include:

- Six bi-monthly issues of [Arborist News](#) or [Arboriculture & Urban Forestry](#). Members have the option to receive these publications online or in print.
- Free online access to [Arborist News CEU quizzes](#).
- Discounts to [Online Learning Center](#) courses and CEU quizzes.
- Twelve electronic issues of the [ISA Today](#) newsletter, which provides a quick update on what is happening both at ISA Headquarters and within the industry on a global basis.

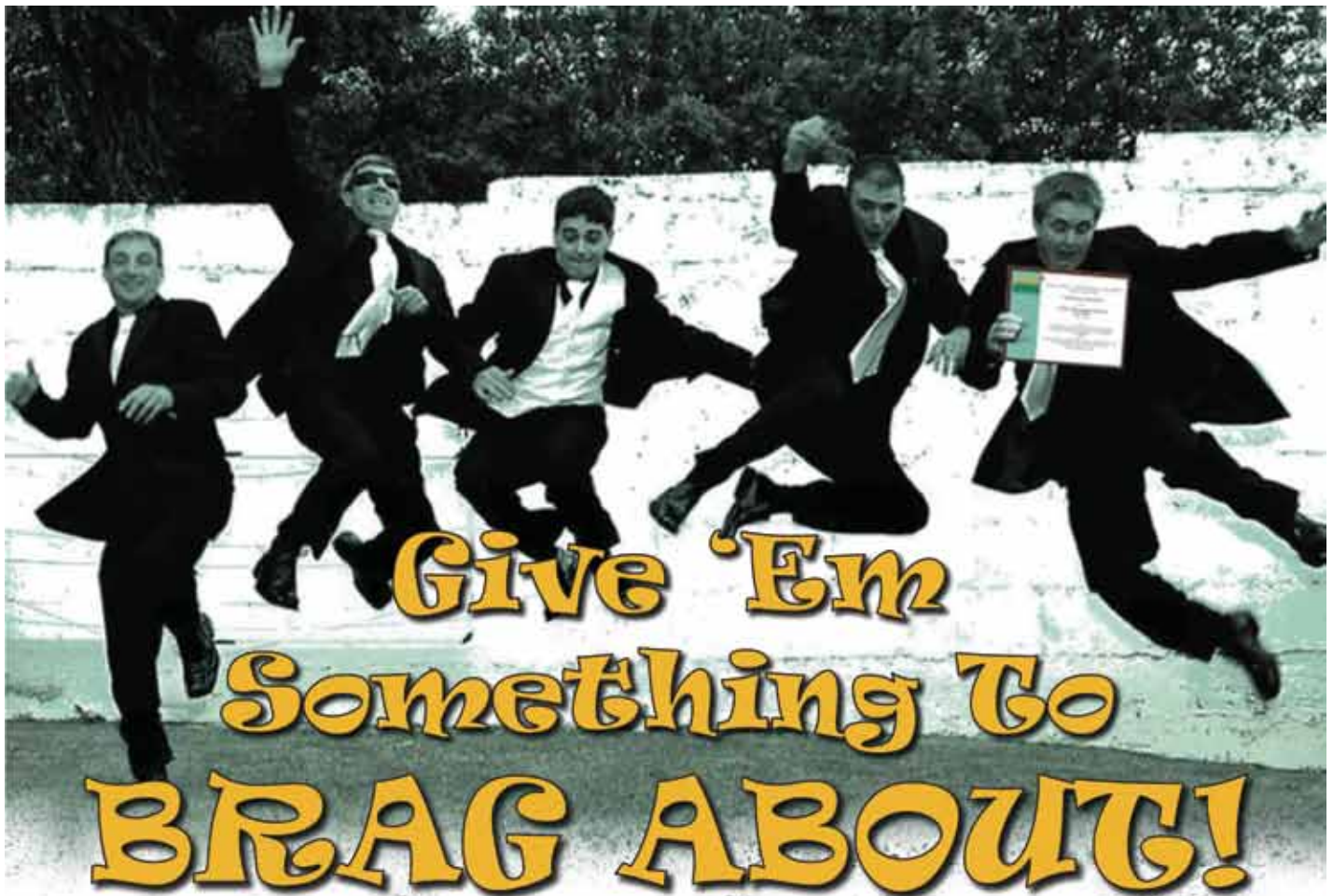
Thank you for your ongoing support of International

ISA. Through the patronage of loyal members like you, we have been able to accomplish many significant projects and goals in 2013, such as:

- Collaborating with arborists around the world to develop and test new programs, such as the Tree Risk Assessment Qualification, which will change the way our industry assesses trees.
- Donating more than \$50,000 to the TREE Fund to support the advancement of scholarships, scientific research, and education programs related to arboriculture and urban forestry.

Your membership dues make it possible for ISA to promote arboriculture and advance its mission on an international level, making the world a better place, one tree at a time. ❖





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TREE Fund Update



YOUR DONATIONS TO THE TREE FUND... IN ACTION!

2013-2014 SCHOLARSHIP WINNERS

Matthew McKernan

Robert Felix Memorial Scholarship (\$3,000) (supported by Robert Felix Memorial Fund)
 Studying Horticulture at Kansas State University
 Anticipated graduation date: May 2015

Luke Becker

John Wright Memorial Scholarship (\$2,000) (supported by Wright Tree Service)
 Studying Horticulture at Kansas State University
 Anticipated graduation date: May 2015

Maggie Harthoorn

TREE Fund Scholarship (\$2,000) (supported by TREE Fund General Fund)
 Studying Forestry at Iowa State University
 Anticipated graduation date: May 2015

RESEARCH AWARD UPDATES

Hyland R. Johns Research Grants were recently awarded to:

- *Dr. Susan Day*, Virginia Polytechnic Institute and State University (\$25,000)
 Project title: "Improving stormwater capture of urban forests through soil rehabilitation"
- *Dr. Zongliang Jiang*, North Carolina A&T State University (\$25,000)
 Project title: "Occupational safety in arboriculture"

Arboriculture Education Program Grant was recently awarded to:

- The Greening of Detroit to support "Our LAND" (Learn, Admire, Nurture, Dream), an environmental education program for 5th and 6th grade students in Detroit's urban schools. (\$5,000)

A CLOSER LOOK

A complete list of TREE Fund research, education and scholarship award winners can be found online in our Grant and Scholarship Archives.

Read the results of a 5-year study by Drs. Bryant Scharenbroch and Gary Watson of The Morton Arboretum on the effectiveness of mulching, compost teas, and fertilization to improve soil organic matter and soil biology. The project, partially funded by a Hyland R. Johns grant from the TREE Fund, was featured in the October issue of TCI Magazine, Oct. 2013.

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

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



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



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PLANT SCENE INVESTIGATION



The ISA Florida Chapter is beginning this new article series as an engaging way to share information about the diseases, damage, pests, nutrient deficiencies and other maladies that can affect our Florida Trees, and how to diagnose them. This article will feature a real-world scenario encountered by one of our members. You as a reader will be given information including the location, species, recent activities and photos of the tree, and your challenge is to correctly diagnose the problem, and recommend a treatment! Some of the articles will allow you to submit your diagnosis to the email address at the end of the article – the first person that submits the correct diagnosis will be recognized in the next issue of the Florida Arborist, along with the “official” answer for the rest of us, including a description of the clues that could be used to make the correct determination. And now, on to this issue’s first case:

PSI Case No. 1



Approximately 42 sycamore, *Platanus occidentalis*, had been planted in a residential community within the past year; most are now dead and the remainder are in varying stages of decline. The trees are approximately two inches in caliper and ten to twelve feet in height. The trees had been

planted as containerized trees directly into the landscape. All were mulched and some were staked. The condition of the trees range from severe crown dieback to moderate to dead. The arborist was contacted by the developer to determine the cause of the decline and to make recommendations.

What factors did the arborist examine and what was the final diagnosis?

Issue: Death/decline of landscape trees	Date: Approximately 12 months prior to site visit
Location: Residential community, Orange County, FL	Trees affected: Sycamore: <i>Platanus occidentalis</i>

Fig. 2
Excavating around the base of the trees



Fig. 3



PSI Case No. 1 Answer on page 13

PSI Case No.1 continued from page 12

PSI Case No. 1

Answer: Upon excavating around the base of four or five of the trees, the arborist determined that the trees had been planted approximately six to twelve inches too deep (see Fig. 2). (Note the pen next to the trunk for perspective). In addition, the soil contained a high amount of clay and poor drainage was observed.

Additionally, excessive mulch depth was noted. In addition, the mulch was placed against the trunk of the trees. Approximately six to nine inches or more of mulch was noted. In fact, during the field inspection, a landscape crew was observed adding yet more mulch to the trees. (see Fig. 3)

Case #1 Conclusion:

It is likely that the deep planting directly adversely affected the survival. However, the poor drainage and excessive mulch exacerbated the detrimental effects from deep planting resulting in fairly rapid decline and death of many of the trees. ❖

Test your expertise again! Evaluate **PSI Case No. 2** on [page 24](#)



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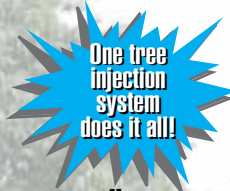
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Different Trees continued from page 1

stems, and roots, and their fallen leaves contribute biomass to the soil. In addition to directly limiting carbon emissions by storing carbon, trees can indirectly limit emissions when they are positioned effectively so that they shade the house. Providing for shade and evapotranspiration near homes reduces building energy needs for cooling, allowing the homeowner to avoid unnecessary carbon emissions. Trees provide shading to homes and this reduces building temperatures and the amount of sunlight entering the home. The air conditioning unit will run less frequently and use less carbon-emitting energy to cool the home.

Not all trees avoid, sequester, or store carbon at the same rate, however. Carbon sequestration rates and avoidance of carbon emissions are based on a tree’s species, age, size, height, crown characteristics, overall health, and its location in the yard. Figure 1 illustrates the different rates of carbon sequestration by three different species: live oak (*Quercus virginiana*), magnolia (*Magnolia grandiflora*), and loblolly pine (*Pinus taeda*). Trees of different species have different biomasses. A live oak, for instance, will typically have more biomass than a pine or a magnolia for a number of reasons. First, wood density has a positive relationship with the amount of carbon stored. In general, hardwood tree species, such as oaks, tend to have a

denser wood and a more open-grown structure than softwood species. Greater wood density equates to greater biomass and generally a more open grown structure means more volume and growth and, therefore, higher carbon sequestration.

To compare tree species and determine their carbon sequestration, foresters measure trees’ “diameter at breast height” (DBH—the diameter of the tree trunk at 4.5 feet above the soil). In a recent study, the average 8-inch DBH live oak tree had a higher annual growth rate and sequestered more carbon than loblolly pines and magnolias with the same DBH. All three of these trees are effective indirect limiters of carbon emissions if they are placed in an ideal location to shade the house. A shade tree will help avoid approximately 50 to 200 lbs of carbon dioxide per year in emissions from air conditioning depending on its size and species and its placement in the landscape (Figure 2). Avoidance is achieved because the trees shade the home, and the homeowner uses less energy to cool the home.

Homeowners usually choose trees based on their aesthetic qualities, but in fact a tree’s growth and mortality characteristics are also important factors to consider when selecting a residential tree. Growth and mortality rates are highly variable,

Different Trees continued on page 15



**Trees4Florida Public Service Announcements
Available at www.treesarecool.com**

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

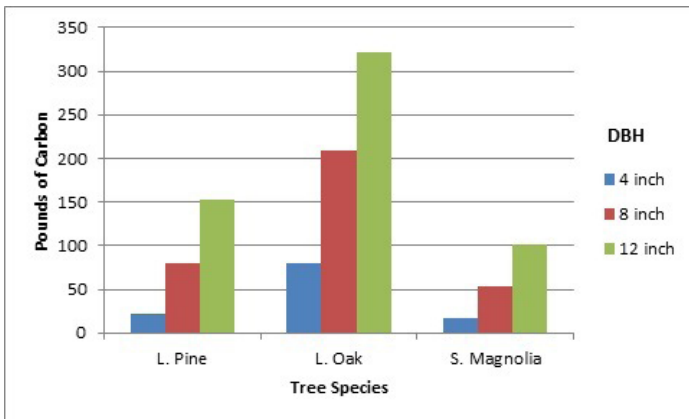
The Trees 4 Florida program has produced a variety of Public Service Announcements (PSAs) available for anyone to free of charge. Included in the campaign are English and Spanish print-quality and broadcast-quality PSA ads and spots. Include them on your website, flyers or any promotional material.

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

Different Trees continued from page 14

and, in fact, two trees with the same DBH may not be the same age, even when both are from the same species. A tree's growth and mortality are influenced by any number of factors including the composition and compaction of the soil in which the tree grows its species, its location, and its access to water and light. Typically, trees that are light-demanding have higher growth rates and a shorter life cycle than shade-tolerant species. The choice of a short-lived but fast-growing tree or a slow-growing but longer-lived tree will depend on the homeowner's time frame and the amount of carbon to be offset.

Figure 1.



The amount of carbon sequestered by one tree, expressed in pounds per year based on tree species and diameter at breast height (DBH) for a single residence area in Gainesville, Florida. Calculations provided by i-Tree Design Beta Calculator <http://www.itreetools.org/design.php>

Different Trees continued on page 18



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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.rootsplusgrowers.org

Different Trees continued from page 1

Los árboles desempeñan una importante función en el ciclo natural del carbono. A través del proceso de la fotosíntesis, los árboles secuestran o captura, el dióxido de carbono (CO2) de la atmósfera para crear energía para el crecimiento. Este carbono se almacena en la biomasa del árbol durante su vida útil. Los árboles almacenan carbono en sus hojas, ramas, troncos, tallos y raíces, y cuando se caen las hojas contribuyen a la biomasa del suelo. Además de limitar directamente las emisiones de dióxido de carbono mediante el almacenamiento de carbono, los árboles pueden indirectamente limitar las emisiones cuando están colocados de forma eficaz para que se les dan sombra a la casa. La sombra y la evapotranspiración cerca de viviendas reduce las necesidades de energía para el aire acondicionado, lo que permite al propietario evitar innecesarias emisiones de carbon. Los árboles proporcionan sombra a las casas, esto reduce la temperatura y la cantidad de luz solar que entre en la casa. La unidad de aire acondicionado se prende con menos frecuencia emanando menos emisoras de carbon.

No todos los árboles evitan, secuestran o almacenar carbono a la misma tasa. Las tasas de captura de carbono y la prevención de las emisiones de dióxido de carbono se basan en las especies, la edad, el tamaño, la altura, características de la copa, su estado general de salud y su ubicación en el

jardin. La Figura 1 ilustra las diferentes tasas de secuestro de carbono de tres especies diferentes: live oak (Quercus virginiana), magnolia (Magnolia grandiflora), y loblolly pine (Pinus taeda). Diferentes especies de árboles tienen diferentes biomasa. Un live oak, por ejemplo, suelen tener más biomasa que un pino o una magnolia por una serie de razones. En primer lugar, la densidad de la madera tiene una relación positiva con la cantidad de carbono almacenado. En general, especies de árboles maderables, como robles, tienden a tener una madera más densa y son de crecimiento de copa mas abierta y amplia que especies de coníferas. Una mayor densidad de la madera equivale a mayor biomasa y, en general, a una estructura más abierta, más volumen y crecimiento y, por lo tanto, mayor el secuestro de carbono.

Para comparar diferentes especies de árboles y determinar su secuestro de carbono, los silvicultores miden los árboles, de acuerdo al “diámetro del tallo a la altura del pecho” (DBH- el diámetro del tronco a 4,5 metros por encima del suelo). En un estudio reciente, oaks con un average de 8 pulgadas de DBH tuvieron una mayor tasa de crecimiento anual y secuestraron más carbono que pinos loblolly y magnolias con el mismo DBH. Todas estas especies son eficaces limitando indirectamente las emisiones de dióxido de carbono si se colocan en una ubicación ideal al lado de la casa. Arboles de

Different Trees continued on page 17

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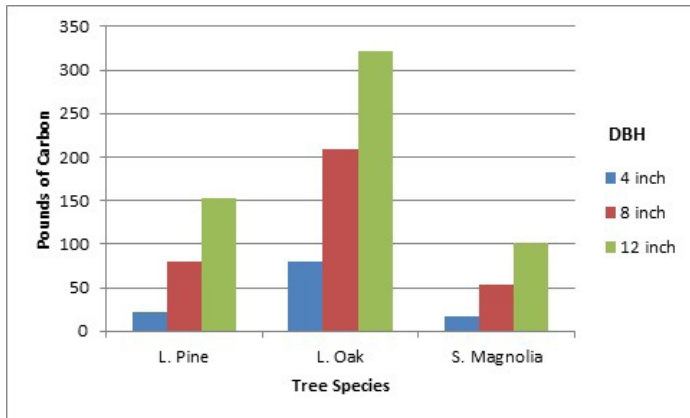
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Different Trees continued from page 16

sombra evitan aproximadamente de 50 a 200 libras de dióxido de carbono al año en las emisiones de aire acondicionado en función de su tamaño y de la especie y su colocación en el paisaje (Figura 2). Prevención se logra porque los árboles dan sombra a la casa, y el propietario utiliza menos energía para enfriar la casa.

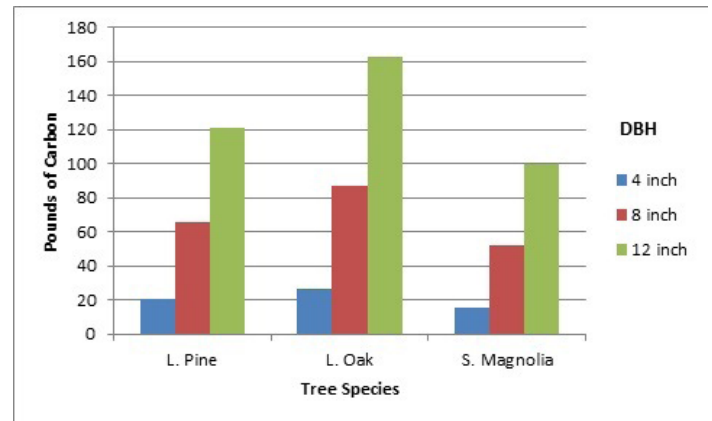
Los propietarios suelen elegir los árboles basados en sus cualidades estéticas, pero, en realidad, las características de crecimiento del árbol y su tasa de mortalidad también son factores importantes a considerar cuando se selecciona un árbol residencial. Crecimiento y las tasas de mortalidad son muy variables, y, de hecho, dos árboles con el mismo DBH puede no tener la misma edad, incluso si ambos son de la misma especie. El crecimiento del árbol y su mortalidad son influenciados por diferentes número de factores tales como la composición y la compactación del suelo en el que el árbol crece, su especie, su ubicación, su acceso al agua y la luz, etc. Normalmente, los árboles que necesita mucha luz y tienen mayores tasas de crecimiento tienen un ciclo de vida más corto comparado a las especies tolerantes a la sombra. La elección de un arbol de corta duración, pero de rápido crecimiento o de crecimiento lento pero más longevidad dependerá de la del dueño de la casa así como la cantidad de carbono a contrarrestar.

Figura 1



La cantidad de carbono secuestrado por un árbol, expresado en libras por año sobre la base de las diferentes especies de árboles según el diámetro a la altura del pecho (DBH). Medidos en una sola zona residencial en Gainesville, Florida. Los cálculos son efectuados utilizando i-Tree Design Beta <http://www.itreetools.org/design.php>

Figura 2.



La cantidad de emisiones de carbono evitadas por un árbol, expresado en libras por año sobre la base de las diferentes especies de árboles según el diámetro a la altura del pecho (DBH). Medidos en una sola zona residencial en Gainesville, Florida. Los cálculos son efectuados utilizando i-Tree Design Beta <http://www.itreetools.org/design.php>

En general, la preservación de los árboles es probablemente la estrategia más eficaz para reducir el nivel de carbono en residencias los barrios. La mayoría de los planificadores hacen esfuerzo para preservar los “abuelos oaks” a causa de su belleza, pero la preservación de otros árboles de gran tamaño también es esencial para la conservación, ya que tarda muchos años en crecer un árbol de gran tamaño y porque los árboles grandes secuestran mucho más carbono. Incluso la preservación de árboles jóvenes es beneficiosa. Por ejemplo, un relativamente joven *Different Trees continued on page 18*



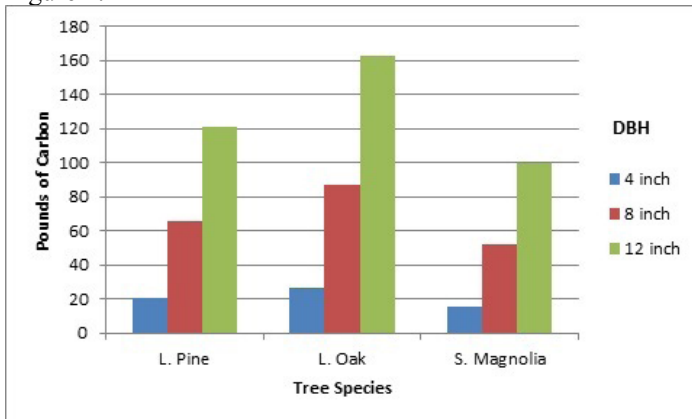
The Florida e-Tree News is a free monthly e-letter sent out by the Florida Chapter ISA. It is intended to inform arborists, tree care workers, landscape architects and other green industry professionals of up-to-date arboriculture information in the state of Florida.

www.floridaisa.org



Different Trees continued from page 15

Figure 2.



The amount of carbon emissions avoided by one tree, expressed in pounds per year based on tree species and diameter at breast height (DBH) for a single residence area in Gainesville, Florida. Calculations provided by i-Tree Design Beta Calculator <http://www.itreetools.org/design.php>

Overall, tree preservation is probably the most effective strategy to reduce carbon footprints for residential homes and neighborhoods. Most planners make some effort to preserve “granddaddy oaks” because of their beauty, but preservation of other large trees is also essential for conservation because it takes many years to grow a large tree and because larger trees sequester considerably more carbon. Even preservation of young trees is beneficial. For example, a relatively young, 8-inch DBH loblolly pine, live oak, and magnolia will together sequester approximately 350 pounds of carbon per year (Figure 2). This is roughly the same amount of carbon a personal computer emits if used 6 hours/day for a year, based on emission rate of 20 mg C/sec. This is significant because computer use accounts for 2% of all GHG emissions within a home.

Planting new trees on a property requires careful consideration because the wrong tree in the wrong spot can actually become a carbon emission source instead of a sink. A tree’s location, its size at maturity, and its maintenance requirements affect carbon sequestration and storage rates. A tree without enough room to grow or with insufficient sunlight or poor soil will sicken and eventually die. Healthy, long-lived trees remove and store more carbon than poor-condition and dying trees that can prematurely release carbon back into the atmosphere. Trees that are planted in areas that interfere with urban infrastructure or municipal utilities may also require excessive pruning or removal in the future, creating additional sources of CO2 emissions. Appropriate space allows for maximum growth potential and longevity, maximizing carbon intake while minimizing emissions due to maintenance.

Many programs designed to assist homeowners in choosing a tree are available online. The Arbor Day Foundation’s tree wizard <http://www.arborday.org/shopping/trees/treewizard/intro.cfm> and i-Tree’s Design Beta calculator <http://www.itreetools.org/design.php>

[php](#) are user-friendly software programs that supply information on tree selection and environmental goods and services provided by trees. Local utility companies can also be a source of information. Many of these companies promote deciduous shade trees <https://usage.smud.org/ShadeTree/> that cool your home in the summer and then drop their leaves in the winter, allowing sunshine in to help heat your home. Check your local utility’s website and your Water Management District website (<http://www.dep.state.fl.us/secretary/watman/>) for more information concerning tree selection. ❖



Different Trees continued from page 17

grupo de pino loblolly, live oak, y magnolia de 8 pulgadas de DBH, pueden secuestran aproximadamente 350 libras de carbono por año (Figura 2). Esta es aproximadamente la misma cantidad de carbono que emite una computadora personal si se utiliza 6 horas/día durante un año, sobre la base de tasa de emisión de 20 mg C/seg. Esto es significativo, ya que el uso de las computadoras representa un 2% de todas las emisiones de GHG dentro de la casa.

La siembra de nuevos árboles en la propiedad requiere una cuidadosa consideración porque el árbol equivocado en el lugar erróneo puede ser una fuente de emisión de carbono en lugar de un receptor. La ubicación del árbol y su tamaño cuando adulto afectan sus necesidades de mantenimiento y almacenamiento de carbon. Un árbol sin suficiente espacio para crecer o con insuficiente luz o en suelos pobres se enferma y muere! Arboles saludable, y de larga vida extraen y almacenan más carbono que los enfermo y que pueden morir prematuramente. Estos árboles liberan carbono a la atmósfera. Los árboles que se siembran en las zonas urbanas e interfieren con infraestructura o servicios públicos municipales podrá necesitar también de podas lo que crea nuevas fuentes de emisiones de CO2. Espacio adecuado permite obtener el máximo potencial de crecimiento y longevidad, maximizando la admisión de carbono y reduciendo al mínimo las emisiones debido a poco mantenimiento.

Muchos programas diseñados para ayudar a los propietarios a elegir un árbol están disponibles online. Arbor Day Foundation’s tree wizard <http://www.arborday.org/shopping/trees/treewizard/intro.cfm> and i-Tree’s Design Beta calculator <http://www.itreetools.org/design.php> son fáciles de usar y proporcionan información util sobre la selección de los árboles y los bienes y servicios ambientales proporcionados por ellos. Las empresas de servicios públicos locales también pueden ser una fuente de información. Muchas de estas empresas promueven árboles de sombra caducifolios, <https://usage.smud.org/ShadeTree/> que enfrían la casa en el verano y pierden sus hojas en el invierno, lo que permite que el sol caliente la casa. Para btener más información sobre selección de los árboles chequee el sitio, web, <http://www.dep.state.fl.us/secretary/watman/>. ❖



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PSI:

PLANT SCENE INVESTIGATION

ANSWER

To last month's mystery question



The correct answer to PSI Case 3 of the Fall Florida Arborist was submitted (within 24 hours!) by Bob Brennan! Thanks to all who submitted answers and comments about this new feature article.

RECAP:



D.O.T. in the Florida Keys notice a continuous brown “line” approximately 10 inches tall by 30 feet long comprised of dead leaves and twigs in the canopies of native upland forest trees bordering US 1.

Answer to PSI Case 3:



A new bicycle/pedestrian pathway is being built at this location. During construction, the exhaust pipe from a construction (milling) machine caused the damage to the leaves and branches when it burned them as it passed.

Treatment:

Dead portions of branches will be pruned for cosmetic reasons and to help prevent branches from dropping on users of the pathway, the trees as a whole are anticipated to make a full recovery.



Clues to making this determination:

- 1) The traffic barrels and silt fence indicate an active construction site. While the extent of the construction is not entirely clear from the before and after photos, it is obvious that changes to the pavement are occurring on the road shoulder, adjacent to the trees.
- 2) The condition has affected more than one species, evenly and contiguously. This pattern is more consistent with mechanical damage that with damage by insects, disease or nutritional problems, which often have different patterns of effect across species and even within a given tree.
- 3) While power lines are present, they are much too high to have caused the damage, and the damage occurred part-way down the canopy, not at the top.

Florida Chapter ISA
Loren Westenberger

WORK DAY

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Central Florida only:
Saturday Feb 8, 2014
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2014 TREE CLIMBING COMPETITION

FLORIDA CHAPTER



FC-TCC Chair Adam Jackson has plans in place to hold the 2014 Florida Chapter Tree Climbing Championship on February 22 at Circle Bar B Reserve outside of Lakeland, Florida. Adam currently is planning for spots for 35 climbers.

Climbers, Get Ready to Showcase Your Skills!

FCTCC Chairman: Adam Jackson, E-mail ajjackson@valleycrest.com

FCTCC Setup Chair: Danae Jackson, E-mail danaeljackson@gmail.com

FCTCC Organization Chair: Kim Paulson, E-mail treeladyoffice@aol.com

Please contact the above listed Committee members or the Florida Chapter directly if you have any questions about competing or if you can contribute to this exciting annual event.

We all look forward to seeing Florida's best compete for the right to represent our Chapter at the International Tree Climbing Championship in Milwaukee Wisconsin, August 2-3, 2014.

FEE: \$75.00 Florida Chapter Member *
\$95.00 Non-Member

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

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

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

*Winner of the Florida TCC Event must be a member of the International ISA prior to the International event in August.

Volunteers

Volunteers are needed for site preparation, event assistance and judging. [Click Here For Volunteer Forms.](#)

Donations

Donations are welcome! Various sponsorship levels are available. Contact Adam Jackson for full details and benefits. [Click Here For Sponsor Forms.](#)

2014 Tree Climbing Championship Prize Package

The 2014 Tree Climbing Championship Prize Package for the Florida Chapter event will be announced in the Spring issue. This prize package is typically offered to each chapter champion (male and female). The package is intended to help equip the chapter winner(s) for the International Tree Climbing Championship in Milwaukee, Wisconsin on August 2-3, 2014.

Time well spent...
 Todd Kucharski, Municipal Arborist Representative
 2011-2013

Why would anyone volunteer to serve on the Board of Directors for the Florida Chapter of ISA? What does it really matter anyway? How can one person really impact the board or the local Florida Chapter membership? Some of you may have thought these questions. And once upon a time, I did. Then one day about 4 years ago came a call from our Florida Chapter Chief Executive Officer, Norm Easey. He told me that the President Elect, David Reilly, was looking to appoint me to the position of an At-Large member. I was completely surprised, humbled and honored at the same time. I recall asking Norm, “What’s the catch and what do I have to do?” He stated the reason why David considered me was because of my career background in Landscape Architecture and described the role of an At-Larger member, which was only a one year term. I accepted the position and was thankful to David for the opportunity.

At my first meeting, I was amazed with the quality and diversity of people represented on the Board. It was interesting to watch the camaraderie during the meeting and the overall passion for our Florida chapter and the Arboriculture field. That meeting, as well as all the other meetings that year, allowed for full participation for each board member and it was encouraged by everyone.

Prior to my last meeting of this term, I received another call from Norm stating that the Nomination Committee had recommended me to run for the position of Municipal Arborist Representative. Again, I was surprised, humbled and honored. As luck would have it, I was elected to that position to serve for 3 years. During that term I was recommended twice by the Nomination Committee for the President Elect position. Unfortunately, I was not elected but honestly the two that were elected (A.D. Ali and Celeste White) were more worthy of the election and I am grateful they won. They will continue to serve with the high standard and professionalism we currently operate in yet bring their own personality and style to continue leading our Board and Chapter “Forward” for the next few years.

Now that my 3 year term will end this year, I can look back and easily answer the questions listed earlier.

- *Why?...* To participate with my professional peers on topics that help shape our Chapter and influence positively towards our profession. Not to mention, hanging out with truly awesome and profession people.
- *What?...* To be a part of a group of professionals that help promote proper Arboriculture practices and generate outstanding conferences and seminars that include cutting edge technology and information as well as timely topics to learn. So yes it REALLY matters!
- *Lastly, How?...* By participating in projects and committee

work such as the Membership Committee that reached out to call our members to renew their membership and share the benefits of our chapter, the Insurance Committee that is working with State Insurance Organizations to help promote and understand proper Arboriculture practices, working with board members to improve the Chapter’s Strategic Plan, being part of updating of our Chapter Bylaws and participating with the development of our Online Learning Center, just to name a few.



In closing, I am grateful and humbled for the opportunity to service you, the members of the Florida Chapter of ISA, and my fellow Board of Directors. Thank you for allowing me this opportunity. So now is the time for one of you, our Florida Chapter members, to step in and give it a shot. You won’t be disappointed... plus they serve a great lunch at board meetings! It will be interesting to see how our organization will grow and flourish in the near future with more new people, potentially like yourself. And who knows, maybe I’ll be back one day, maybe even as President Elect. However the future unfolds, I have to say that my term on the board definitely was “time well spent”... Take care and God Bless. ❖

ADVANCED ARBORICULTURE

Join our international experts for this exciting new topic!

WEST PALM BEACH
 Tuesday January 21, 2014

TAMPA
 Thursday January 23, 2014

PSI:

PLANT SCENE INVESTIGATION



PSI Case No. 2

The arborist was asked by a homeowner to diagnose the reason for the death of four laurel oaks, *Quercus laurifolia*, at a residence. The oaks were of large diameter, devoid of foliage, and the trunks exhibited a multi-gray colored appearance. Small fungal conks were present on one of the trees (Fig. 2).

What factors did the arborist examine and what was the final diagnosis?

Issue: Dead trees. Species: *Quercus laurifolia*

Trees affected: Species: *Quercus laurifolia*

Location: Residence in Pasco County, FL



Fig. 1 Trunk of Dead Laurel Oak

Fig. 2 Fungal Conks on trunk



Fig. 3 Dead Trees Framed By Living Trees to Right and Left



The arborist used her knowledge of the gray colored dead bark (Fig. 1) and the fungal conks (Fig 2) to determine that the trees died of hypoxylon canker, otherwise known as “gray bark” disease. Only the laurel oaks on the property were affected. It was also noted that two laurel oaks in the front yard and two in the rear yard had died; however, several others located in between the four dead trees were still alive and were not apparently unaffected (Fig. 3).

**Can anyone explain the discontinuous pattern of the canker attack?
This arborist does not have an explanation and is seeking the advice of others.**

Challenge yourself on another case -
Evaluate **PSI Case No. 3** on [page 26](#)

Please send replies to Eric Hoyer at erich@nrpsforesters.com

Membership Corner

Celeste White, Vice President Florida Chapter

The Membership committee's latest effort is promoting the Florida Chapter only membership by initiating a pilot project where we will be sending out a flyer to tree care companies in select areas. The flyer will also promote the Treesarecool.com license plate so it will serve two purposes! You can help us to promote Florida Chapter only membership to these audiences.

- Arborists
- Tree Climbers
- Tree Workers
- Tree Care Companies
- Tree Advocates
- Tree Industry Affiliates
- 9 Board Certified Master Arborists
- 25 Municipal Specialists
- 16 Tree Workers
- 40 Utility Specialists

The Florida Chapter ISA now offers Florida Chapter dues for just \$50! What does this mean for you?

You can now join JUST the Florida Chapter for an annual fee of only \$50! (And you do not have to join ISA International)

Why join the Florida Chapter?

The INTERNATIONAL SOCIETY OF ARBORICULTURE is a professional organization dedicated to continuing education for arborists, to tree care research, and to serving tree care consumers around the world. The FLORIDA CHAPTER of the ISA shares this same dedication, with a further commitment to serving the needs particular to Florida's professional arborists and tree care consumers

Increase your professionalism, knowledge, networking, and camaradery by joining the Florida Chapter of the International Society of Arboriculture and receive exclusive member benefits and discounts...

- Quarterly Florida Arborist newsletter
- Discounts on Florida Chapter seminars and online learning
- Discount on annual Trees Florida Conference and Trade Show
- Discounts on Florida Chapter merchandise
- Florida Chapter awards program
- Monthly e-newsletter, Florida eTree News
- Access to the Florida Chapter lending library

Join both ISA and Florida Chapter!

- Receive all benefits listed above as well as receive deep discounts on certification and recertification fees.

Be a part of something great! Join the Florida Chapter ISA today! Visit www.FloridaISA.org

Here's how to join

Visit www.isa-arbor.com

Select Become a Member in Membership drop-down box.

Choose secure online application.

Click on Membership Application and select Chapter Membership

Just click "Add to Cart" under Florida Chapter ISA! ❖

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- Discounts on ISA merchandise
- Access to members-only online resources
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- ISA job bank
- ISA member directory listing
- *True Professionals* program
- Online *Find a Tree Care Service* tool

International Society of Arboriculture
MEMBERSHIP

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ISA
FLORIDA CHAPTER **JOIN TODAY!**
 visit www.FloridaISA.org

PSI:

PLANT SCENE INVESTIGATION



PSI Case No. 3

The arborist was contacted by a homeowner in Lakeland, Florida to determine the cause of crown dieback to his laurel and live oaks in his rear yard. The oaks were affected on one side of the canopy only; dieback was slight to moderate on approximately five large trees. All of the trees were adjacent to a septic tank drain field.

What factors did the arborist examine and what was the final diagnosis?

Issue: Crown dieback in trees in rear yard

Date: Date of observation: February, 2012

Location: Residential property in Lakeland, Florida

Trees affected: Species affected: Live oak, *Quercus virginiana* and Laurel oak, *Q. laurifolia*



Fig 1.

Dieback noted on right side of tree on left and left side of tree on right (behind garage).

Send your diagnosis to Eric Hoyer at erich@nrpsforesters.com to see if you are the first one to answer correctly. Watch for the correct answer in the Spring 2014 issue of the Florida Arborist!

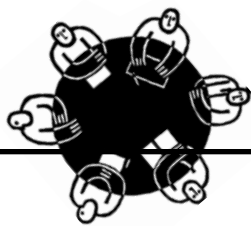
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Florida Chapter Board Updates

BOARD SHORTS:

IN FOCUS: Your COR Rep Don Winsett



The fine-tuned relationships between the International ISA with all the ISA Chapters rely on the commitment and focus of the COR. In case you are not familiar with what COR is, it is the Council of Representatives, a group of chapter representatives who serve as the communication link between the International organization and the chapters throughout the world. The COR rep for Florida ISA is Don Winsett. Don was able to discuss some of the concerns of the board and Florida membership when he attended the International annual conference in Toronto this August. He brought up the difficulties being experienced with homeowner insurance agencies making demands on pruning and/or removal of trees around insured homes and heard feedback from other chapters who are experiencing similar difficulties. The Florida Chapter is spearheading efforts to educate insurance underwriters about the drawback of improper pruning and the benefits that trees provide to homes during storms. As Local Host Chair for the 2015 International Conference as well as COR rep, Don has been participating in some of the planning for the big event that will be held in Orlando. A big thanks to Don Winsett for being an important voice of the Florida Chapter. ❖

Computer-Based Testing Increases in Popularity



Certification Liaison Norm Easey reported that ISA's computer-based testing for all varieties of certification continues to grow in popularity. The advantages to taking your certification exam at a local Pearson Vue test center include being able to schedule your exam on a date convenient to your personal schedule, plus saving on travel expenses and perhaps lodging expenses which you might incur if you travel to take the paper test farther from home. Paper exams will continue to be offered throughout the state, but if you are planning on becoming ISA certified, make sure to look into a local testing center. For an additional Pearson Vue testing fee of \$100 you might save on gas and lodging and be able to take the exam on your own time schedule. Note: the new TRAQ qualification cannot be taken at a Pearson Vue, as the TRAQ program consists of

the combination of a two-day class plus a half-day practical assessment. ❖

Election Results In!

The Florida ISA board welcomes newly elected and appointed board members. Your votes elected the following individuals for 2014. Thank you to everyone for serving the Florida Chapter membership in these various roles!

Newly elected members from the recent election:

- Vice President (will become President in 2016) - Bonnie Marshall
- Treasurer - Lori Ballard
- Municipal Arborist Representative - Dru Dennison
- Utility Arborist Representative - Don Winsett

The board also approved the at-large appointments recommended by President A.D. Ali for 2014:

- Andrew Koeser
- Doug Orr ❖

**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 direct-
ly 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 floridaisa@comcast.net

2013 Certification Exam Schedule

The FLORIDA CHAPTER of ISA is pleased to announce our
2013 schedule of Certification exams. See the chart below for the site nearest you.

Date	Exam/ Class	Location	Time	Proctor or Instructors	Last Date to Register	Cost Member/ Nonmem
December 14, 2013	Certified Arborist Exam	Miami-Dade IFAS 18710 SW 288 Street Homestead, FL	7:30 AM to 12:00 PM	Dr. George Fitzpatrick	Minimum 12 business days prior	\$150/ \$250
December 14, 2013	Certified Arborist Exam	pTEC 901 34th Street St. Petersburg FL	9:00 AM to 1:00 PM	Norm Easey Glenn Duncan	Minimum 12 business days prior	\$150/ \$250
February 15, 2014	Certified Arborist Exam	Broward Co. IFAS 3245 College Avenue Davie, FL	7:30 a.m. to 12:00	Dr. Mike Orfanedes	Minimum 12 business days prior	\$150/ \$250

This schedule is subject to change as additional tests and review sessions may be added. Visit www.floridaisa.org for updates.

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

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

The ISA Illinois must receive your application & exam fees A MINIMUM OF TWELVE BUSINESS DAYS prior to the exam date. NO EXCEPTIONS! (ISA Illinois is closed New Year’s Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and the day after, and Christmas Day). First-time applicants can apply online at www.isa-arbor.com.

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



Florida Chapter ISA - 2014 Education Schedule

*The schedule below is tentative and subject to changes.

Date	Seminar/Class	Location (s)	Open for Registration
January 21, 2014	Advanced Arboriculture	West Palm Beach	
January 23, 2014	Advanced Arboriculture	Tampa	
February 2014	Arborist Safety and Climbing	West Palm Beach	
February 2014	Arborist Safety and Climbing	Ft. Myers	
February 21, 2014	Outdoor Tree School	Polk County	

Welcome!

New Florida Chapter Members

Here are the individuals that joined the Florida Chapter during the first quarter of 2013. If you see a name from your area of the state, look up their phone number online* and give them a call. Introduce yourself and find out what aspect of arboriculture the new member is involved in. Let's make the Florida Chapter friendlier. We're all working in different ways for the same goals. Get to know other chapter members. You might make some helpful connections for the future.

First Name	Last Name	City	State	First Name	Last Name	City	State
Jose	Rausseo	LAKELAND	FL	Sebastian	Korber	RUSSELSHEIM	Germany
Brittany	Adamo	BONITA SPRINGS	FL	Rosa	Lopez	GUAYNABO	PR
Gustavo	Arteaga	PALM BAY	FL	Jennifer	Mabus	JACKSONVILLE	FL
Michael	Barry	KNOXVILLE	TN	Roderick	Mayard	MIAMI	FL
Trent	Bednar	WEST PALM BEACH	FL	Nicholas	Myers	TAMPA	FL
William	Broome	ORLANDO	FL	Joel	Phelps	FORT WHITE	FL
Leah	Connolly	CORAL SPRINGS	FL	Steve	Rogers	COCONUT CREEK	FL
Nicole	Cribbs	TAMPA	FL	Eulogio	Trujillo	MIAMI	FL
David	Cunningham	GRASSY KEY	FL	Jason	Vickers	NEW PT RICHEY	FL
Logan	Cunnyngnam	NEW PT RICHEY	FL	Aaron	Weber	TAMPA	FL
Roger	Ditmer	ST SIMONS ISLAND	GA	Bryan	West	LAKELAND	FL
Kevin	Doyle	DELRAY BEACH	FL				
Betty	Fisher	LECANTO	FL				
Jennifer	Geiger	JACKSONVILLE	FL				
Curtis	Gervin	SW RANCHES	FL				
Gitta	Hasing	WIMAUMA	FL				
Gary	Hill	LAKE MARY	FL				
Anibal	Ibanez	MIAMI	FL				
Danny	Jones	BRADENTON BEACH	FL				
Robert	Kendrick	PORT ST LUCIE	FL				
Andrew	Koeser	WIMAUMA	FL				

*Go to <http://www.isa-arbor.com>, then go to "Members Only" and log in. Then go to ISA membership directory. If you do not know your log in for members only, contact ISA headquarters at (888) 472-8733. Once you log in, you can update your address, check your CEU's, edit or verify Certified Arborist information and search the membership list.

Letters to the Editor

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

Email your letters to:
floridaisa@comcast.net

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

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



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



Arborist Certification Committee Report

By Norm Easey, Florida Certification Liaison

There are ISA exams scheduled at four different locations in Florida within the next 6 months. [Click here for the specific dates](#). The ISA Certified Arborist exam is also now available at Pearson Testing Centers throughout Florida. See the ISA International web site www.isa-arbor.com for more information about the various ISA arborist credentials and how to earn them.

Florida Chapter currently has 1786 Certified Arborists.

The Florida Chapter would like to congratulate the following 17 individuals for earning their Arborist Certification or Utility Arborist Certification during the third quarter of 2013:

Certified Arborist

Lyle Adams, Clearwater, FL
Brittany Adamo, Bonita Springs, FL
Daniel Adler, Southwest Ranches, FL
Gregory Gaskin, Tallahassee, FL
Gitta Hasing, Wimauma, FL
Gary Hill, Lake Mary, FL
Jacob James, Boca Raton, FL
Matthew Layne, Lakeland, FL
Mark Mitchell, Jacksonville, FL
Matthew Munilla, Miami, FL
Nicolas O'Dell, Naples, FL
Patrick Roberson, Newport Richey, FL
Erick Smith, Gainesville, FL
Andrew Taylor, Fernandina Beach, FL
Daniel Turbet, Jupiter, FL
Stephen Walton, Wellington, FL
Bradford Young, Tampa, FL

Utility Arborist

Robert Ramos, Melrose, FL



Are you thinking about becoming certified?

[Visit the International ISA website](#)

to access the certification application handbook with further information.

2014 Florida Chapter Tree Climbing Championship

Saturday February 22, 2014
Mandatory gear check will be required - details to be announced

Circle B Bar Reserve
4399 Winter Lake Road
Lakeland, Fl 33803



COMPETITION ENTRY FORM

Register early to reserve your spot! **SPACE IS LIMITED TO 35 CLIMBERS!** Due by February 8, 2014

Name _____

Company _____

Address _____

City _____ State _____ Zip _____

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

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

OPTIONAL EDUCATIONAL EVENT

The 2014 Outdoor Tree School is being offered on Friday February 21, 2014 FREE OF CHARGE to all registered competitors and volunteers. Space may be limited - we cannot always guarantee available space.

Circle B Bar Reserve - 4399 Winter Lake Road - Lakeland, Fl 33803.

Fee for non-competitors or non-volunteers to attend is \$50 (link at www.floridaisa.org).

- YES! You plan to attend the Outdoor Tree School on Friday February 21, 2014 for free as a competitor.
- Check here if you want your lunch to be meat-free/vegetarian.
- NO, you do NOT plan to attend the Outdoor Tree School.

REGISTRATION: \$75 - ISA MEMBER OR \$95 - NONMEMBER

- \$75 - ISA Member (Must provide member #: _____)
- \$95 - NonMember
- Check enclosed (Make out to Florida Chapter ISA)
- Cash Enclosed
- Credit Card VISA MasterCard Discover

**If you are not comfortable emailing your credit card information as an attachment, please fax, mail or phone it in or online (link at www.floridaisa.org).

Card Number _____

Exp. Date _____ 3 digit Card Code _____

Exact name on card _____

Card billing address _____

Card billing City/State/Zip _____

Submit this entry form, the Competition waiver form and payment of \$75 or \$95 to:

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



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



Please PRINT Clearly

Contestant's Name: _____ Age: _____

Address: _____ Zip: _____

Employed by: _____

Phone: (____) _____ Email: _____

Number of years you have climbed: _____

Waiver and Hold-Harmless by Contestant

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

Dated _____ Signature of Contestant _____

Certification and Waiver by Employer of Contestant

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

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

Dated _____

Signature of Employer or Authorized Representative _____

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

2014 Florida Chapter Tree Climbing Championship

Saturday February 22, 2014

Circle B Bar Reserve
4399 Winter Lake Road
Lakeland, FL 33803



JUDGE AND VOLUNTEER FORM

Print or Type - Due by February 8, 2014

Name _____

Company _____

Address _____

City _____ State _____ Zip _____

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

Email Address (for contacting and to send a receipt) _____

OPTIONAL EDUCATIONAL EVENT

The 2014 Outdoor Tree School is being offered on Friday February 21, 2014 FREE OF CHARGE to all registered competitors and volunteers. Space may be limited - we cannot always guarantee available space.

Circle B Bar Reserve - 4399 Winter Lake Road - Lakeland, FL 33803.

Fee for non-competitors or non-volunteers to attend is \$50 (link at www.floridaisa.org).

- YES! You plan to attend the Outdoor Tree School on Friday February 21, 2014 for free as a volunteer.
- Check here if you want your lunch to be meat-free/vegetarian.
- NO, you do NOT plan to attend the Outdoor Tree School.

THANK YOU FOR YOUR OFFER TO VOLUNTEER!

I am able to help:

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

Submit this volunteer form and the Volunteer waiver form to:

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



[Click Here for Interactive Form](#)

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



Please PRINT Clearly

Volunteer's Name: _____

Address: _____ Zip: _____

Employed by: _____

Phone: (____) _____ Email: _____

Waiver and Hold-Harmless by Volunteer

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

Dated _____ Signature of Volunteer _____

Certification and Waiver by Employer of Volunteer

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

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

Dated _____

Signature of Employer or Authorized Representative _____

Mail, fax or email (you may submit as an email attachment) this completed competition waiver form
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Florida Chapter ISA ♦ 7853 S Leewynn Court ♦ Sarasota, FL 34240

2014 Florida Chapter Tree Climbing Championship

Saturday February 22, 2014

Circle B Bar Reserve
4399 Winter Lake Road
Lakeland, FL 33803

SPONSORSHIP FORM



Print or Type - Due by February 8, 2014

Name _____

Company _____

Address _____

City _____ State _____ Zip _____

Phone # (_____) _____

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

MONETARY DONATION

Amount \$ _____

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

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

Card Number _____

Exp. Date _____ 3 or 4 digit Card Code _____

Exact name on card _____

Card billing address _____

Card billing City/State/Zip _____

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

PLEASE SEND THIS DONATION FORM WITH YOUR **MONETARY DONATION** TO:

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

DONATION OF EQUIPMENT, GEAR OR PRIZES

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



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

BY MAIL, FED EX or UPS: Adam Jackson - 424 E Sandpiper Street - Apopka, FL 32712

International Society of Arboriculture Florida Chapter

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



Arborist Code of Ethics

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

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

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

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

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

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

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



Florida Arborist
Florida Chapter ISA
7853 South Leewynn Court
Sarasota, FL 34240