

## Advanced Tree Risk Assessment: an indoor/outdoor seminar



Please mark one:

\_\_\_ Fort Lauderdale/Pompano Beach - TUE, November 30, 2021

\_\_\_ Tampa/Wimauma - THUR, December 2, 2021

CEUs: ISA: 6.25 BCMA: 6.25 (S)  
FNGLA: 6 LIAF: 4

**GROUP DISCOUNT!** Pay for 5 registrations and the 6th registration is free!

Yourself \_\_\_\_\_ Guest \_\_\_\_\_

Guest \_\_\_\_\_ Guest \_\_\_\_\_

Guest \_\_\_\_\_ FREE Guest \_\_\_\_\_

ISA Member Number (to get member pricing) \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone \_\_\_\_\_

Email (needed for sending a receipt and a class reminder) \_\_\_\_\_

\_\_\_ # of vegetarians in your group

Register ONLINE, via MAIL or via FAX: SAME PRICE

Select below, based on your Florida Chapter membership status:

**Members+ Guests** . . . . . \$145 each x \_\_\_\_\_ = \$ \_\_\_\_\_

Florida Members: register your guests at member rate!

**Non-members + Guests** . . . . . \$165 each x \_\_\_\_\_ = \$ \_\_\_\_\_

**Any 6th registration is free** . . . \$FREE each x \_\_\_\_\_ = \$ \_\_\_\_\_ \$ FREE

**LATE REGISTRATION FEES** begin 4 days before any seminar -

ADD \$20/person . . . still register online.

**ALL AT-THE-DOOR REGISTRATION FEES** are \$200/person.

Cancellation refunds honored if requested 7 days before each seminar.

Attendee substitutions will be honored.

**Register online:** Link at: [www.floridaisa.org](http://www.floridaisa.org)

**Register by mail:** Checks Payable to: **Florida Chapter ISA**

Mail to: 7853 S Leewynn Court

Sarasota, FL 34240

FEIN #65-0667299

**Register by fax:** 941-342-0463

**Questions? Call:** 941-342-0153

**Credit Card Information: Print clearly, all information is required**

Visa, MasterCard, Discover

Card Number \_\_\_\_\_

Expiration Date \_\_\_\_\_

Security Code (3 digits) \_\_\_\_\_

Exact name on card \_\_\_\_\_

Card billing address \_\_\_\_\_

Card billing City/State/Zip \_\_\_\_\_

Florida Chapter ISA  
7853 S Leewynn Court  
Sarasota, FL 34240



- Fort Lauderdale/Pompano Beach - Tuesday, November 30, 2021

- Tampa/Wimauma - Thursday, December 2, 2021

## Advanced Tree Risk Assessment: an indoor/outdoor seminar

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Florida ISA presents:

## Advanced Tree Risk Assessment:

an indoor/outdoor  
seminar



**Tuesday, November 30, 2021**  
Fort Lauderdale/Pompano Beach

**Thursday, December 2, 2021**  
Tampa/Wimauma

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## Advanced Tree Risk Assessment:

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### THE HIGHLIGHTS

Tools demonstrated throughout the day include:

- Static load pulling systems,
- Sonic tomograph,
- Resistance recording drills,
- Aerial drones
- Sounding mallets,
- Hand drills,
- Increment borers,
- Air spades



### INSTRUCTORS

#### Dr. A.D. Ali - The Davey Tree Expert Co.

Dr. Ali has over 30 years of experience in the Green Industry. He is currently a Manager of Technical Services with the Davey Tree Expert Company, providing technical support to Davey field offices throughout the US and Canada. He is a Board-Certified Master Arborist and served on the Board of Directors, Florida Chapter ISA as well as being a Past President of the Chapter. Dr. Ali has written a book on Pest Management in the Landscape. In addition, he has presented 130 scientific and training seminars and authored more than 300 scientific and trade-oriented articles.

#### Dr. Deborah Hilbert - Many Trees Consulting, LLC

Deborah Hilbert recently earned her Ph.D. in environmental horticulture from the University of Florida, focusing on urban forest diversity. She conducts research on topics like urban tree diversity, establishment and survival, and planting space recommendations. She is the president of the Arboricultural Research and Education Academy. She is passionate about science education and outreach and spent several years as an environmental educator in the non-profit sector before focusing on arboriculture and urban forestry. Her consulting practice is in St. Petersburg, FL.

#### Dr. Ryan Klein - UF Environmental Horticulture

Ryan Klein is an Assistant Professor in the Department of Environmental Horticulture at the University of Florida. His research focuses on the risk associated with urban trees and their survival following hurricanes and other intense storms. Ryan's interests center around exploring the impacts that urban forests have on the health and safety of urban populations. He views the relationship between people and their natural surroundings as being especially significant since most of the world's population live in urban areas and urban sprawl continues to consume our remaining natural spaces.

#### Dr. Andrew Koeser - UF-GREC

Andrew Koeser is an Assistant Professor of Landscape Management at the University of Florida Gulf Coast Research and Education Center in Hillsborough County. Prior to this position and his last stint in graduate school, Andrew worked at ISA Headquarters in Champaign, IL, working his way up to Science and Research Manager in his five years with the organization. Andrew is a Board Certified Master Arborist (IL-4920B). He serves on the Board of Directors for the Florida Chapter as the Education Representative and is active in the Education Committee.

Please dress for your comfort level indoors and outdoors; we cannot always control the room temperature to suit everyone.

## 2 LOCATIONS

**TUESDAY, November 30, 2021**  
**Fort Lauderdale/Pompano Beach**  
**Emma Lou Olson Civic Center**  
**1801 NE 6th Street - Pompano Beach, FL 33060**  
**venue phone: 954-786-4111 (for directions)**

**COVID info at time of marketing (subject to change):**  
**The City of Pompano Beach currently requires that all attendees wear a mask indoors. DO NOT attend if you feel ill or have any symptoms.**

**DIRECTIONS:** From I-95: Take Exit 36 and travel east on Atlantic Boulevard (FL-814) for 2 miles. Turn left (north) onto Federal Highway (US-1), travel .3 miles. Turn left (west) onto NE 6th Street. The Olson Civic Center will be on your right.

**THURSDAY, December 2, 2021**  
**Tampa/Wimauma**  
**Gulf Coast Research & Education Center**  
**14625 County Road 672 - Wimauma, FL 33598**  
**venue phone: 813-634-0000 (for directions)**

**COVID info at time of marketing (subject to change):**  
**UF campuses currently require that all attendees wear a mask indoors. DO NOT attend if you feel ill or have any symptoms.**

**DIRECTIONS:** From I-75 (north or south). Take Exit 246, merge onto Big Bend Road/CR-672 East towards US-301. Turn right onto US-301/CR-672 and travel approximately 1.4 miles. Turn left onto Balm Road/CR-672 and travel 7.5 miles. The center is located on the south side of Balm Road.



### THE AGENDA



**8:00 am to 8:30 am - Registration and Breakfast**

**8:30 am to 9:15 am - Tree Biomechanics 101 - How Trees Stay Up**  
*Dr. Deborah Hilbert, Many Trees Consulting, LLC*

Trees have evolved to grow skyward towards the sun and photosynthetic advantage. This strategy has allowed trees and forests to dominate most regions where temperatures and moisture are conducive for their long-term survival. Despite its benefits, aerial growth provides its own set of challenges. In attending this session, arborists will gain a greater appreciation for the tension that exists as resources are allocated towards either support (long-term resiliency) and growth (competitiveness).

**9:15 am to 10:00 am - Tree Biomechanics 102 - Why Trees Fall Down (or Fall Apart)**  
*Dr. Andrew Koeser, UF-GREC*

Trees are massive living structures that are capable of resisting the constant tug of gravity and much of the weather that they encounter throughout their long lives. This noted, every tree has a breaking point which can differ given species, defects, and the intensity of the disturbances affecting them. In continuing where the first session left off, we will look at why trees fail (both above- and below-ground) through the lens of biomechanics.

**10:00 am to 10:15 am - Break with Refreshments**

**10:15 am to 11:00 am - Static Pull Testing Demonstration (Outside)**  
*Dr. Andrew Koeser, UF-GREC*

Drawing on new-found biomechanics knowledge, attendees will move outdoors to see a demonstration of static pull testing, learn about the data collected, and discuss its potential application for research and practice.

**11:00 am to Noon - Tree Decay and Tree Detection**  
*Dr. A.D. Ali, The Davey Tree Expert Co.*

Of all the tree defects that can potentially impact tree structural integrity, tree decay is the easiest to measure and quantify. That said, tree decay is not always visible externally. Luckily there are a number of minimally-invasive strategies for detecting internal decay. In this session attendees will see an overview of the methods and gain a greater appreciation for our current understanding of how decay impacts likelihood of failure.

**Noon to 1:00 pm - Lunch, provided**

**1:00 pm to 1:45 pm**  
**Hands-on Tree Decay Detection Activity (indoors - all presenters)**  
Attendees will rotate through three different stations to practice assessing internal decay using sonic tomography, a resistance recording drill, mallet/visual, and lower-cost hand tools (e.g., increment borer, cordless drill). Results will be compared and contrasted at each station - with the pros and cons of each approach discussed.

**1:45 pm to 3:15 pm**  
**Hands-on Activity – (outdoors - all presenters)**  
Aerial Inspection (Davey Drone), Below-ground Inspection, Health Assessment and Occupancy Assessment  
Attendees will once again rotate through stations, viewing a demonstration of a drone aerial inspection (with discussion of costs, benefits, regulations, and challenges), participating in a site occupancy estimation exercise, visual/measured health assessment, and conducting a belowground inspection with the aid of an air-excavator.

**3:15 pm to 3:30 pm - Break with refreshments**

**3:30 pm to 4:15 pm - Putting all together - Advancing Your Risk assessments**  
*Dr. Ryan Klein, UF Environmental Horticulture*

In this recap presentation, attendees will reflect on the topics of the day to see how they can be practically implemented into existing risk assessment and reporting activities. Not every tree warrants the extra data, effort, or investment associated with a Level 3 assessment. We will highlight cases where more basic assessments are appropriate as well as instances where an advanced assessment might be worth considering.

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