



ADVANCED ARBORICULTURE: WOOD DECAY BIOLOGY AND ID

CEUs: *ISA-6.75 BCMA-6.75 (S)*
FNGLA-4 LIAF-4

I will be attending: (please mark one)

ORLANDO - Wednesday, January 10, 2018
 FT. LAUDERDALE - Friday, January 12, 2018

GROUP DISCOUNT! Register 5 people, the 6th person attends FREE!

Name(s) 1 _____ 2 _____
3 _____ 4 _____
5 _____ 6 FREE _____
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

ISA Members & Guests . . . \$145 each x _____ = \$ _____
(ISA Members may register up to 5 guests at the member rate)
Non-members \$165 each x _____ = \$ _____

LATE REGISTRATION FEES begin 4 days before any seminar -
ADD \$20/person . . . and **CALL 941-342-0153** to register.
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
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 or Discover

Card Number _____
Expiration Date _____
Security Code (3 or 4 digits) _____
Exact name on card _____
Card billing address _____
Card billing City/State/Zip _____

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Florida Chapter ISA
7853 S Leewynn Court
Sarasota, FL 34240

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limited to 80
registrations
at each location

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ADVANCED ARBORICULTURE: PRACTICAL WOOD DECAY BIOLOGY AND ID

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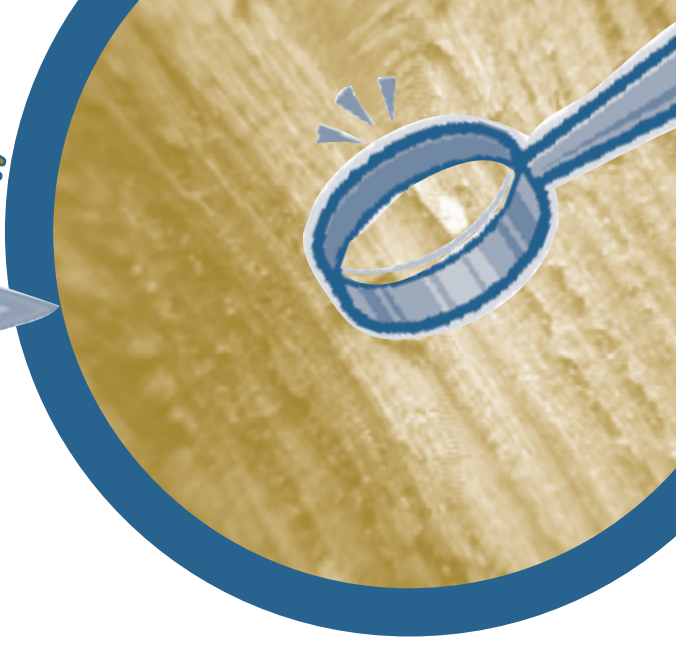
Florida Chapter ISA presents:

ADVANCED ARBORICULTURE: PRACTICAL WOOD DECAY BIOLOGY AND ID



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JOIN US TO LEARN

Practical Wood Decay Biology and Identification is perfect for anyone interested in identifying the common wood decay fungi that inhabit and weaken Florida's trees and palms. Join us for this newly developed, one-day seminar that brings a mix of visual and hands-on learning.

Recommended for:

**Commercial Arborists, Consulting Arborists,
Urban Foresters, Municipal Arborists, Utility Arborists,
Tree Risk Assessment Qualified Arborists**

OUR INSTRUCTORS

Dr. Andrew Koeser

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 is chair of the ISA Annual Conference Program Committee and a member at large on the ISA Science and Research Committee.

Andrew Loyd

Andrew Loyd is a Ph.D student at the University of Florida Forest Pathology. He is also currently a plant disease and insect laboratory diagnostician with Bartlett Tree Research Laboratories. Andrew got his BS degree from Louisiana State University and his Master of Science degree from N. Caroline State University.

Dr. Jason Smith

Dr. Jason Smith is assistant professor of forest pathology in the School of Forest Resources and Conservation at the University of Florida. Jason conducts research and extension programs on diseases of trees and forest health. His research includes disease diagnosis, biology/epidemiology and developing disease-resistant trees. Before coming to Florida in 2006, Jason was a postdoctoral research associate in the Department of Plant Pathology at the University of Minnesota.

Dr. Les Werner

A native of Wisconsin, Dr. Les Werner teaches Soils and Forestry at the University of Wisconsin at Stevens Point. Les obtained his Bachelor's and Master's degrees from UW - Stevens Point and his Ph.D from UW - Madison in 2008. His research examines soil microbiology and how it is influenced by both natural and human induced changes in landscape environments. Les has received numerous accommodations for his teaching and research while at UWSP from both students and the green industries. Les' goal is to make the soil live for all of his students regardless of age, so that they can manage their environments using what nature intended.

AGENDA

8:00 – 8:30 Registration with continental breakfast

8:30 – 9:45

Basic Wood Biology

Dr. Les Werner, Professor, University of Wisconsin-Stevens Point
Get back to basics. Learn what gives wood its strength and revisit the various functional differences between living sapwood and heartwood.

9:45 – 10:30

How Decay Fungi Attack and Degrade Wood

Dr. Les Werner, Professor, University of Wisconsin-Stevens Point
White, brown, soft, sapwood, heartwood, root, basal, and all the rots in-between. Learn the different ways wood decay fungi preferentially attack wood components and structures.

10:30 – 10:40 Break (divide into two groups for hands-on lab sessions)

10:40 – 12:00

Hands-On Wood Dissection, Morning Lab

Dr. Les Werner, Professor, University of Wisconsin-Stevens Point
Dr. Andrew Koeser, Assistant Professor, University of Florida

- LAB A – Dr. Les Werner will lead students through a wood dissection lab with dissection lenses and dyes. (40 minutes)
- LAB B - Dr. Andrew Koeser will show detailed branch attachment and branch protection zone anatomy as well as other practical tree anatomy. (40 minutes)

12:00 – 12:45 Lunch

12:45 – 1:30

Basic Wood Decay Fungi Biology & Fundamentals of Decay Identification

Dr. Jason Smith, Associate Professor, University of Florida
Learn about wood decay growth and development in trees and the reproductive structures used to identify fungal species.

1:30 – 2:30

Common Wood Decay Fungi of Florida Trees and Palms

Andrew Loyd, University of Florida and Bartlett Tree Research
Learn how to identify the common decay fungi that inhabit Florida's woody vegetation and how each species attacks its preferred hosts.

2:30 – 2:45 Break (divide into two groups for hands-on lab sessions)

2:45 – 4:30

Wood Decay Hands-On Wood Lab, Afternoon Lab

Dr. Jason Smith, Associate Professor, University of Florida
Dr. Andrew Koeser, Assistant Professor, University of Florida

- LAB C - Dr. Jason Smith will lead attendees as they examine various fungal structures under magnification. (50 minutes)
- LAB D – Dr. Andrew Koeser will show attendees how to do a spore print and culture inoculum. (50 minutes)

4:30 Adjourn and sign for CEUs.

LOCATIONS & DIRECTIONS



ORLANDO

Wednesday

January 10, 2018

UF-IFAS Orange County Extension

6021 S Conway Road

Orlando, FL 32812

venue phone: 407-254-9210

DIRECTIONS (with tolls):

From I-4 take exit 72 for FL-528 E (toll road) toward International Airport/Cape Canaveral; travel almost 9 miles. Take exit 9 for Tradeport Drive, turning left (north) onto Conway Road. Continue 1 1/2 miles to the Extension office, on the right (east).



FORT LAUDERDALE

Friday

January 12, 2018

Pat Larkins Community Center

520 Martin Luther King, Jr. Boulevard (NW 3rd Street)

Pompano Beach, FL 33060

venue phone: 954-786-4585

DIRECTIONS:

FROM I-95 take exit 36 onto Atlantic Boulevard. Travel east on Atlantic Boulevard about 1/3 mile. Turn left (north) onto NW 6th Avenue; travel about 1/4 mile. Turn right (east) onto Dr. Martin Luther King Boulevard and travel about 200 feet to the Larkins Community Center.

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

