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FUTURE FLORIDA FORESTS

Submitted by Dr. David A. Fox, PhD, Lecturer - University of Florida School of Forest, Fisheries, and Geomatics Sciences

"Urban foresters

create livable cities by

managing the green

infrastructure that

is part of our human

habitat."

The University of Florida School of Forest, Fisheries, and Geomatics Sciences (FFGS) is preparing the next generation of natural resource professionals to help manage Florida's future forests - which includes our urban forests. Much of peninsular Florida could be considered part of an urban forest or within the Wildland-Urban Interface.

Four degree tracks are offered at FFGS, including: Forest Resources and Conservation (FRC) and Natural Resource Conservation (NRC). FRC majors complete traditional forestry courses to include

dendrology, soils, GIS and mapping, forest ecology, silviculture, tree physiology, and mensuration. NRC majors build their own interdisciplinary curriculum with guidance from a faculty mentor. FRC majors can also choose to complete a specialization in urban forestry, business management, environmental pre-law, protected area management, watershed management, or recreational resource management and each will carry required courses and suggested electives. Visit https://ffgs.ifas.ufl.edu/ for more information.

Urban forestry as a career emerged from the traditional forestry realm. Foresters applied their training and experience with ecology, soils, plant physiology, tree biology, and silviculture to the management of urban forests. I approach my urban forestry course with this in mind: starting with topics students are familiar with and transferring that technology to the urban setting. Silviculture is to traditional forest management as arboriculture is to urban forest management. Urban foresters

create livable cities by managing the green infrastructure that is part of our human habitat.

An urban forestry curriculum may include courses on arboriculture, horticulture, land use planning, environmental law, building and

construction, landscape architecture, recreation management, communication, and sociology. Exposure to these topics is not limited to the classroom. Knowledge and experience is enhanced through field training, self-study and internship opportunities. Summer internships build student interest and exposure to different professional environments and job options.

Forestry students are always looking for valuable summer experiences targeted to their career interests. FFGS students are searching for urban forestry internship opportunities. Our urban forestry students come from all parts of Florida so the goal is to build a list of internships all over the Florida map. If you have an internship

or job description ready to advertise, you may do so at this link: https://ffgs.ifas.ufl.edu/jobs. If you have questions about what an internship might look like in your organization, please get in touch with me and we can discuss the benefits and the possibilities.

Students have asked me about my professional path and what influenced its direction. My most common answer, half-jokingly, is that my career has been the result of a series of providential events. While my formal education was the foundation, I often took advantage of later training opportunities through workshops and on-the-job-training with coworkers. Being a lifelong learner is the key to success in most any career and an internship can help boost a student into the profession by providing needed experience to move forward.

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PRESIDENT'S MESSAGE



In keeping with the Florida Urban Forestry Council (FUFC) bylaws, I will soon join a long list of inaugurated Past Presidents (A list of Past Presidents

appears in each newsletter). My active participation doesn't end here. There's much to do as an Immediate Past President. I will continue to serve on the Executive Board in some capacity. Here's why. This service organization has opened my eyes and ears to a bigger story, larger narrative, and broader understanding of Florida's book of trees, forests, and cities.

If we want green and living thoughts, we must stand in a green and living wood. Professionally and personally, the FUFC not only placed me in a green and living wood of talent and people, it has me walking among GIANTS. I'm talking about the movers and shakers in the industry. The Executive Committee Members are GIANTS, bringing BIG ideas to a high and mighty purpose. We walk among trees and provide our communities with something to look up to. The back cover of The Council Quarterly reveals who we are. Past issues tells who we were, and future issues will reveal who we will one day be.

I have brought the conversations, ideas, and the solutions discussed with my involvement with FUFC into the board rooms and staff meetings at my place of work. As a member of the FUFC, I've been able to better serve my clients and customers back in my little corner of the world. Urban forestry is an action word – it's a verb. Urban Forestry is about challenges, solutions, and people. Participation with the FUFC has enabled me to interact with others, exchange information, and to develop professional companions and social networks. In my time with the organization the contacts on my cell

phone have doubled twice over. The FUFC has raised my understanding about other careers that, though outside the limits of my profession, are moving in the same direction. Each has something to offer. Urban Forestry is also a sales pitch. This organization has added integrity to the messages, concepts, and solutions I am offering to my colleagues and customers. I have been swimming in a bigger pool of knowledge. I now have a stronger conviction as to why I do what I do; how to say it; and how to do it.

Professional development is essential in any industry, career, or enterprise. Getting involved with industry-related partners and organizations is a wonderful opportunity, and challenge, to be better than when standing alone. Professional development is a personal responsibility -it's a moral duty. We owe it to ourselves and the people and places we serve.

It has been my pleasure to serve as President of the FUFC during our 30th anniversary year; at Urban Forestry Institute (UFI) conferences; at the celebration of awards and scholarships; inside the *Council Quarterly* newsletter; within the *In A Nutshell* e-bulletin; upon our social media platforms of Facebook, Twitter, and Instagram; and in our shared commitment to the professions, careers, and services that advance urban forestry. As we move forward, please join us as we welcome Erin Givens –

my colleague and my friend - into the President's role for 2022.

Look over past issues of the Council Quarterly newsletter and you'll see an awesome group of people and organizations that have been active in moving our mission forward. Our story is not the same as it once was, and it will not stay the same as it is today. The faces will change, positions will change, life will change. Sometimes it is hard to turn the page in a story knowing that not everybody will be with us in the next chapter. Still, it is encouraging and exciting that there are more chapters yet to be written. I commend you for being a part of the FUFC, and/ or any of our affiliated partners or allied organizations. I applaud you for your active participation in a larger narrative and a broader understanding of Florida's urban forestry issues and solutions. We, as the FUFC, very much appreciate your attention, commitment, contributions, and support for our mission and purpose. It is important that we, as individual components of Florida's urban forestry community, band together to promote the value, enhancement, and sound management of urban forests through leadership, collaboration, guidance, and education. There is a tree-mendous future for Florida.

Sincerely,

Joe Anderson
FUFC President





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JOHN P. WHITE MEMORIAL SCHOLARSHIP FUND



Students should be on the lookout as the fall term deadline for John P. White Memorial Scholarship is not far off. The J.P. White Scholarship is sponsored by the Florida Urban Forestry Council and the Florida Chapter of the International Society of Arboriculture. The scholarship was first created in 2008 to assist students pursuing careers in Florida's arboriculture/urban forestry industry, or related field, by providing financial assistance for undergraduate, postgraduate or other advanced education programs. The intent is to encourage active members and future leaders to pursue urban forestry careers. For updates, keep a watchful eye on our monthly In A Nutshell e-bulletin, and our social media posts. Learn more about John P. White, scholarship eligibility, and requirements on the FUFC website at https://fufc.org/scholarships.php.







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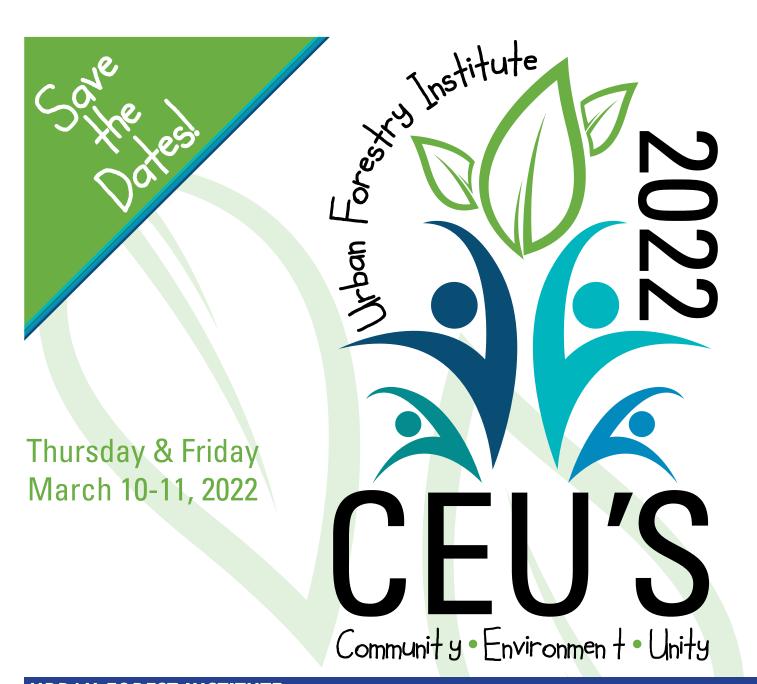
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URBAN FOREST INSTITUTE

Submitted by the UFI Committee

The Florida Urban Forestry Council held its first annual Urban Forest Institute (UFI) conference in March 2012 at the University of Central Florida campus, Orlando, Florida. At this first event, S.O.A.P. was introduced as an acronym for Staffing, Ordinance, Advocates, and Plan. - four key components to successful urban forestry management. Previously, regional workshops and annual membership meetings filled the void and set the stage for the UFI concept. By 2012 the FUFC was committed to providing the benefits offered by an annual conference. In keeping with

this essential, time-honored tradition the FUFC is proud to present the Urban Forest Institute (UFI), 2022 C.E.U. – Community, Environment, and Unity; March 10-11, 2022. The conference will continue with the virtual format successfully launched in 2021. A special "thank you" for the dedication, commitment, and magic of the UFI committee when serving our members and making the UFI conference a success. For up-to-date details, visit, https://fufc.org/urban-forestry-institute.php.



STUMP THE FORESTER



QUESTION: What are the fuzzy caterpillars all over the oak trees? Will the oaks survive?

ANSWER: Your fuzzy caterpillars are the Fir Tussock Moth/Caterpillars. The term tussocks often refers to a small clump of grass that is thicker or longer than the grass growing around it. The tussock moth is named for the tussock-like bristles protruding from the back of the larvae caterpillars. Three species of tussock moths are found in Florida. The fir tussock moth is very common, and can be abundant in north and central Florida. In the sunshine state you can find two distinct color varieties - a dark gray and a light yellow caterpillar. These gluttonous caterpillars are attractive and colorful. Note the orange spots along the back and sides; tussock looking tuffs of hair on the back; three dark hair extensions (pencils) - two in the front and one dorsal extension; and bristly hairs. Cocoons are oval and wooly.

Activity is usually seen in late winter/early spring and in sync with the first flush of new leaves. Caterpillar activity can last for several weeks from March through April. Usually the damage is temporary and not catastrophic. If the numbers are large enough the voracious caterpillars can defoliate entire trees. Defoliating outbreaks can last 1-2 years. Caterpillars rarely cause repeated defoliations that will severely harm healthy trees. The larvae do not harm the vascular system of the tree. Therefore, a healthy tree is often resilient enough to recover with new growth after the caterpillars enter the pupa stage and are no longer feeding. Common host trees will include oak, maple, hackberry, and birch.

Look, but don't touch. The barred hairs can cause irritation to the skin, much like the

irritation caused from handling fiberglass. The hairs lodged in the cocoons can still cause irrigation long after the moth has flown the coop.

To minimize damage, or to control large infestations, best treatment should be before the caterpillars hatch. One can brush or scrape the egg masses off the lower portion of the tree, or apply an appropriate insecticide. For control measures contact your county Cooperative Extension Service.

Answer provided by Joe Anderson – JEA Utility Forester, ISA Certified Arborist





SLASH PINE, YELLOW PINE

Submitted by Alexander Clark, Graduate student Intern for Southern Forestry Consultants and Wiregrass Ecological Associates School of Forest Resources and Conservation University of Florida

Introduction

While walking through a flatwoods ecosystem you will encounter many different pine species that the southeast has to offer. One of the main species you are most likely to come in contact with is slash pine (Pinus elliottii) or Yellow Pine. On top of being a pretty tree this is also one of the main species used in timber industry in the state of Florida due to its fast growth, straight bole, and resistance to fusiform rust.

Size and Form:

The slash pine is a tall tree with heights reaching up to 100 feet and a diameter up to 3 feet or more. This is a fast growing tree known for having a straight and tall bole, deep roots, and a well-rounded crown with a spread of 30-50 feet at maturity.

Habitat:

Slash pine is normally found in wet flatwoods, swampy areas, and shallow pond edges along the coastal plain. It is

usually associated with acidic, wet, welldrained soils. Important to note that this is one of the most flood tolerant pine species in Florida.

Range:

Naturally, slash pine has been found in South Carolina, south to central Florida, and west over to Louisiana. It has also been planted some in Kentucky, Virginia, and Texas. There is a variety of this species called the southern slash pine that is found in southern Florida south of Lake Okeechobee and in other areas like West Indies, Guatemala, and Honduras. The southern slash pine is smaller and stature and more suited for the environment and weather it is likely to face in these different areas.

In the Pinaceae (pine family), the leaves

are needles that are arranged in bundles which are held together by fascicles. The needles of slash pine are typically 6-10 inches long and arranged in fascicles of 2 or 3 needles per fascicle, most of which have two needles. This is a distinguishing characteristic that separates slash pine from both loblolly and longleaf pine.

Twigs and Branches: The twigs are brown in color and become slender towards to tip of the branch. Smaller branches are brittle and break easily in storms. Also, as the tree

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matures the lower limbs can die and fall. This can cause potential hazard in urban setting and should therefore be planted in areas not susceptible to damage.

Bark:

On young trees the bark is thin, furrowed, and orange to brown in color. As the tree matures the bark starts to thicken and becomes large flat plates with thin paper scales. These scales are especially present when the surrounding ecosystem is exposed to fire.

Roots:

Slash pine has a moderate tap root with an extensive lateral root system.

Fruit and Seed:

Since this is a gymnosperm it has no flowers or fruits but reproduce by seeds that are protected by cones. Since the slash pine is monoecious the male cones are pollen producing and are usually 1-2 inches long. The female seed cones range from 3-5 inches long and are a reddish-brown color.

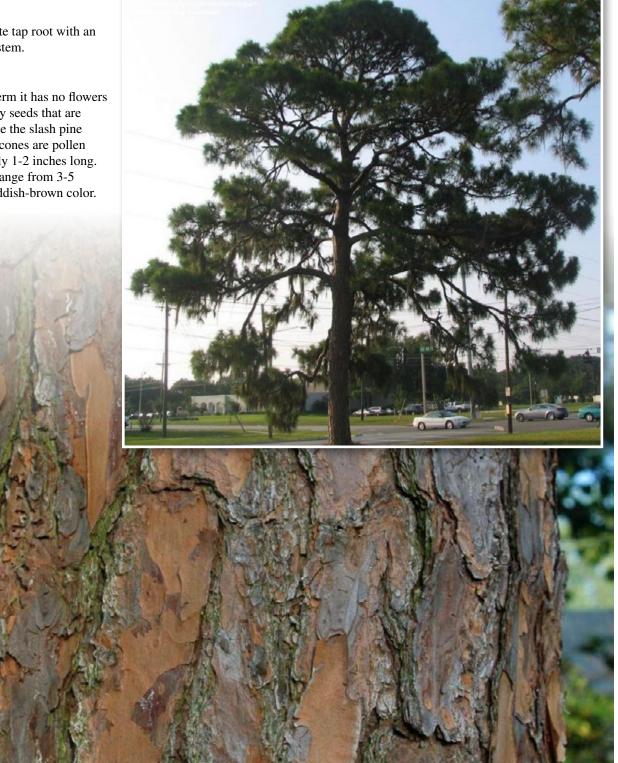
The cones readily shed and release the seeds that are usually 6-7 millimeters in size with a wing that causes them to be wind dispersed.

Uses:

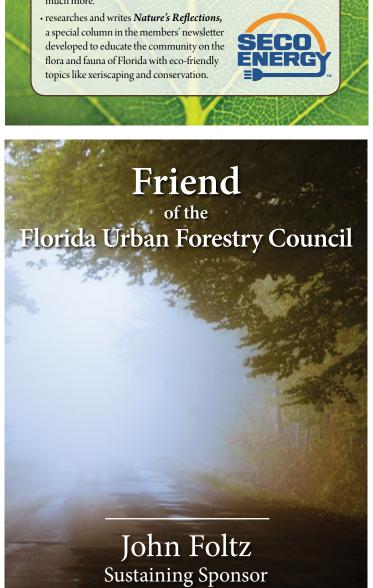
Historically, the slash pine was used mainly for harvesting of turpentine which aided in the naming of the tree. You can still see evidence of the "slashing" done on the trees by the cat face scars that are left behind from this harvesting practice. In the Southeast today slash pine is used largely as a timber species due to fast growth and straight form for railroad ties, pulpwood, lumber, and pole quality timber.

Wildlife:

Slash pine woodlands provide great habitat for many species including turkey and while-tailed deer. They also provide nesting sites for animals, and seeds which are eaten by birds and many small mammals (ex: squirrels).









COUNCIL'S DISPLAY BOOTH

Whether it is an outdoor environmental event or conference trade show, The Florida Urban Forestry Council's display booth will help provide information about the Council and Urban Forestry educational resources for citizens and communities. To request the booth at your event email info@fufc.org.



U.F.A. — URBAN FOREST ACRONYMS

Submitted by Joe Anderson - JEA Utility Forester, ISA Certified Arborist and the FUFC Communication Committee

Supercalifragilisticexpialidocious. The sound of it is something quite atrocious. If you say it loud enough you'll always sound precocious. Supercalifragilisticexpialidocious is the proper acronym for urban forestry. Urban Forestry is such a complex, convoluted, comprehensive, and broad-minded subject that Supercalifragilisticexpialidocious is the only abbreviated acronym that captures and combines the interactive parts, pieces, vocabulary, and disciplines of trees, forests, cities, services, professions, and organization that ebb and flow within urban forests. If you are involved with Florida's urban forest industry, the common acronyms you'll come to know, include, but are not limited to:

ANSI - American National Standard Institute

ANSI A300 - ANSI Standards for Tree Care Operations

ANSI Z133 - ANSI Safety Standards for arboriculture industry and operations

APR - Appropriate Response Process

ASAP - As Soon As Possible

B&B - Balled & Burlap

BMP - Best Management Practices

CATV - Cable And Television lines

CEU - Continuing Education Units

CODIT - Compartmentalization Of Decay In Trees

CROW - City Right Of Way

CTLA - Council of Tree and Landscape Appraisers

DBH - Diameter at breast height

FAQ - Frequently Asked Questions

FASLA - Florida Chapter of the American Society of Landscape Architects

FDACS - Florida Department of Agricultural and Consumer Services

FDOT - Florida Department of Transportation

FERC - Federal Energy Regulatory Commission

FFS - Florida Forest Service

FISA - Florida Chapter of the International Society of Arboriculture

FLOC - Florida League of Cities

FNGLA - Florida Nursery Growers & Landscape Association

FPLT - Florida Chapter of Project Learning
Tree

FRPA - Florida Recreation and Parks Association

FUFC - Florida Urban Forestry Council

GIS - Geographic Information System

GPS - Global Positioning System

ICS - Incident Command System

IPM - Invasive Plant Management

ISA - International Society of Arboriculture

IVM - Integrated Vegetation Management

KPI - Key Performance Indicators

LOL - Laugh Out Loud

LIAF - Landscape Inspectors Association of Florida

LiDAR - Light Detection And Ranging

LEED - Leadership in Energy and Environmental Design

MEWPS - Mobile Elevated Work Platform Systems

MVCD - Minimum Vegetation Clearance Distance

NERC - North American Electric Reliability Corporation

NESC - National Electric Safety Code®

NHC - National Hurricane Center

OSHA - Occupational Safety and Health Act

pH - potential of Hydrogen **PHC** - Plant Health Care

PLT - Project Learning Tree

PPE - Personal Protection Equipment

QA - Quality Assurance

QC - Quality Control

RFP - Request For Proposals

ROW - Right of Way

SAF - Society of American Foresters

SITES - Sustainable Sites Initiative

SOAP - Staffing, Ordinance, Advocacy, Planning

TCIA - Tree Care Industry Association

TGR - Tree Growth Regulators

TPO - Tree Protection Order

TPZ - Tree Protection Zone

TRAQ - Tree Risk Assessment Qualification

TVMP - Transmission Vegetative Management Plan

UF/IFAS - University of Florida Institute of Food and Agricultural Sciences

UF/FFGS - University of Florida School of Forest, Fisheries & Geomatics Sciences

U&CF - Urban & Community Forestry grant program

UFI - Urban Forestry Institute

UPF - Urban and Peri-urban Forests

USFS - United States Forest Service

UTC - Urban Tree Canopy

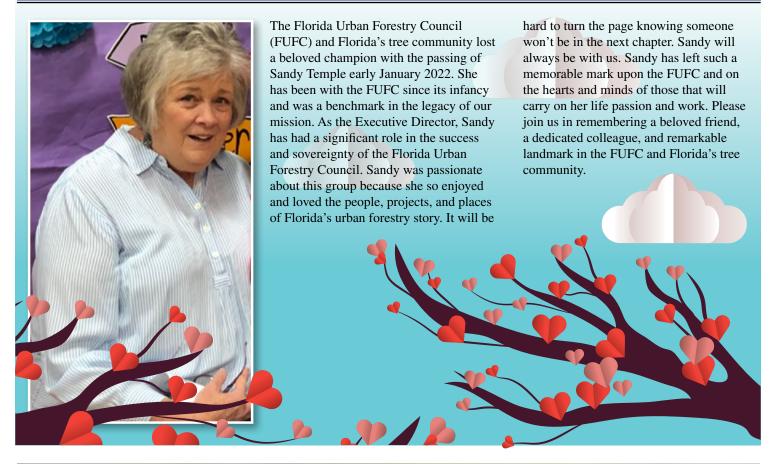
VMP - Vegetative Management Plan

VTA - Visual Tree Assessment

WIN - Water-Insoluble Nitrogen



RIBUTE TO SANDY TEMPLE





REQUEST FOR ARTICLES

Please let us know what urban forestry projects you have going on in your neck of the woods. The Florida Urban Forestry Council would greatly appreciate the opportunity to share your information in our newsletter. These articles can include:

- New trends in the industry
- News about tree advocacy groups
- Volunteer projects
- City tree programs
- Letters to the Editor
- Questions for "Stump the Forester"

We look forward to hearing from you on this or any other interesting topic related to the urban forestry industry and profession. Please send any articles or ideas to Joe

Anderson, FUFC newsletter editor, at andejs@jea.com.

Thanks for contributing!



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MEMBERSHIP APPLICATION

| (Dues are effective for the calendar year of $\overline{\text{January } 1 - \text{Dec}}$ cember 31)| Make check or money order payable to FUFC and mail to: Post Office Box 547993, Orlando, FL 32854-7993 Categories (please check one): ☐ Professional @ \$25.00 (Professional membership is open to anyone who is actively working in the profession of Urban Forestry or any related profession.) ☐ Tree Advocate @ \$20.00 (Tree Advocate membership is granted to those volunteers who are members of a tree board, beautification committee or other *Urban Forestry volunteer group, and/or an interested citizen.)* ☐ Supporting @ \$200.00 (Supporting membership is granted to those individuals, groups or other entities expressing a desire for a strong supportive role in the Council. Membership will be granted for up to five individuals of an organization or business.) ☐ Government/Non-Profit Agency @ \$100.00 (Government/Non-Profit Agency membership is granted to those individuals, groups or other entities actively working in the profession of Urban Forestry or any related profession. Membership will be granted for up to five individuals within the agency.) ☐ Student @ \$10.00 (Student membership is granted to anyone who is actively enrolled as a full-time student and who is considering pursuing a career in Urban Forestry.) Name: Title: Firm: Address: City: Zip: State: Telephone: (FAX: (_ E-mail: _ _____ Date: / Amount Enclosed: Would you be interested in further information regarding serving on a Council subcommittee? Yes No Area of interest:



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Commission



Carolyn Cheatham Rhodes Vice President Elected Position Member-at-Large Pinellas County



Gayle Lafferty
Secretary
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Member-at-Large
City of Vero Beach



Steve Edgar
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Appointed Position
SAF
City of Port Orange



John Harris
Immediate Past President
Appointed Position
FNGLA
Earth Advisors, Inc.

COMMITTEE MEMBERS:

Kathleen Brennan, Appointed Position Florida League of Cities Tallahassee

Jody Buyas, *Appointed Position*Advisory Member
City of Orlando

Elise Cassie, Appointed Position Advisory Member FL Project Learning Tree

Brian Dick, Appointed Position ASLA/FL Chapter City of Lakeland

David Fox, Appointed Position Advisory Member UF/FFGS

Justin Freedman, Appointed Position FL Chapter ISA E Sciences, Incorporated

Elizabeth Harkey, Elected Position City Arborist City of Sanford

Kristen Kosik, Appointed Position Advisory Member Audubon Florida

William "Bill" Lester, Appointed Position Cooperative Extension Service Hernando County Extension Office

Carol Mini, Appointed Position Advisory Member City of Palm Coast

Ricky Peterika, Elected Position Member-at-Large Dark Moss LLC **Darryl Richard**, Appointed Position FL Department of Transportation FDOT - District One

John Rohan, Elected Position Member-at-Large Davey Resource Group

David Watford, Elected Position Utility Forester SECO Energy

Mark Williams, Elected Position Member-at-Large City of Fort Lauderdale

Ian Wogan, Elected Position Private Arborist True Tree Service

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Greg Wright, Appointed Position FRPA City of Largo

Vacancy - Tree Advocacy

William Liner
Florida Forest Service Liaison

Sandy Temple FUFC Executive Director