



Florida Section
AIR & WASTE MANAGEMENT
A S S O C I A T I O N



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Oceans of Opportunities***

54th Annual Conference & Expo

***October 23 and 24, 2018
Jupiter Beach Resort, Florida***

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WELCOME FROM THE CONFERENCE CHAIRS

Welcome to the 54th Florida Section Air & Waste Management Association's Annual Conference and Exhibition!



Christina Akly, Ph.D., P.E.
Florida Power & Light
Conference Co-chair



Byron Burrows
TECO Energy
Conference Co-chair

On behalf of the Conference Committee, we are thankful for your participation in this year's conference. We are very proud of the program we have put together this year. We have scheduled something for everyone! We are kicking off the conference on Tuesday morning with our student activities including a Student-Mentor Breakfast, the Environmental Challenge competition and the student poster competition. The morning events also include an Air Permitting 101 session tailored to Young Professionals and those new to the air profession, and it will feature our FDEP air permitting experts. Please join us in supporting these events focused on the future of our environmental profession and organization: *students and YPs*.

Following in the afternoon and covering a full day on Wednesday, the Technical Program will feature timely technical presentations, a keynote speaker and interactive panel discussions. FDEP and local government agency representatives, academia, attorneys, engineers, scientists, consultants, and industry representatives have been invited to speak about the most recent air, water, and waste issues. Our Conference Committee members have done an amazing job building this year's technical program. We have a very impressive list of speakers presenting on all aspects of current environmental "hot" topics. And since we are all about knowledge and learning but also about building relationships and opportunities, we will end each day with a networking session to give you plenty of time to interact with other fellow professionals and visit with our exhibitors.

We are particularly excited to host this year's conference at the Jupiter Beach Resort. This is an amazing facility at a great location. You'll get a chance to visit a state of the art Waste-to-Energy facility in Palm Beach County and also enjoy Jupiter's relaxed atmosphere and scenery during our pre-conference YP Networking Social.

We are all extremely thankful to our generous sponsors this year who have afforded us the opportunity to have the conference at a great venue, keep registration rates low and allow the diversity of attendees that will make this conference a success.

Our hope is that you thoroughly enjoy the conference and make the best of your time here!

Sincerely,

Christina Akly & Byron Burrows

2018 CONFERENCE COMMITTEE

COMMITTEE	COMMITTEE CHAIR & MEMBERS
Conference Co-Chairs	Christina Akly, FPL Byron Burrows, TECO Energy
Technical Committee Co-Chairs	Joseph Brown, Hopping Green & Sams, P.A. Manitia Moultrie, Golder Associates
Technical Committee Members	Christina Akly, FPL Joe Applegate, Geosyntec Craig Ash, Waste Management Byron Burrows, TECO Energy Paula Cobb, Duke Energy Michael Cooke, Greenberg Traurig Julianna Duckworth, ERM Liz Foeller, Waste Management Kevin Holbrooks, JEA Susan Kennedy, Gulf Power Company Scott Osbourn, Trinity Consultants Kaitlyn Tingum, FPL Nandra Weeks, Geosyntec
Sponsorship Co- Chairs	Joe Applegate, Geosyntec Jill Johnson, Geosyntec
Conference Communication Coordinator & Registration	Susan Kennedy, Gulf Power Company
Student Environmental Challenge	Nandra Weeks, Geosyntec
Student Program	Upasna Rai, Koogler & Associates, Inc. Manitia Moultrie, Golder Associates
Continuing Education Credit Coordinator	Lynn Robinson, Montrose Air Quality Services
Conference Webmaster	Kurt Westerlund, CDM Smith
Pre-Conference and YP Events	Craig Ash, Waste Management Kaitlyn Tingum, FPL

CONFERENCE SCHEDULE AT-A-GLANCE

TIME	EVENT	LOCATION
MONDAY, OCTOBER 22		
12:00 PM – 3:00 PM	FL A&WMA Board Meeting	NEE Offices
2:00 PM – 4:00 PM	Pre-Conference Tour of Solid Waste Authority Waste-to-Energy Facility	West Palm Beach
4:30 PM – 6:30 PM	YP Networking Event	Square Grouper
TUESDAY, OCTOBER 23		
8:00 AM – 9:00 AM	Breakfast/Student-Mentor Breakfast	Terrace
9:00 AM – 10:30 AM	Student Environmental Challenge	Ballroom
10:30 AM – 11:00 AM	Student Poster Competition	Exhibitor's Gallery
11:00 AM – 12:00 PM	Air Permitting 101 with FDEP	Ballroom
12:00 PM – 1:00 PM	Joint FCG – A&WMA Lunch	Terrace
1:00 PM – 2:15 PM	Technical Sessions	Ballroom
2:15 PM – 2:30 PM	Session Break	Exhibitor's Gallery
2:30 PM – 5:15 PM	Technical Sessions	Ballroom
5:30 PM – 7:30 PM	Networking & Student Awards	Exhibitor's Gallery
WEDNESDAY, OCTOBER 24		
7:30 AM – 8:30 AM	Continental Breakfast	Terrace
8:30 AM – 10:00 PM	Technical Sessions	Ballroom
10:00 AM – 10:15 AM	Session Break	Exhibitor's Gallery
10:15 AM – 11:50 PM	Technical Sessions	Ballroom
11:50 PM – 1:00 PM	Keynote Lunch & Awards	Ballroom
1:00 PM – 3:30 PM	Technical Sessions	Ballroom
3:30 PM – 3:45 PM	Session Break	Exhibitor's Gallery
3:45 PM – 5:00 PM	Technical Sessions	Ballroom
5:30 PM – 6:30 PM	Networking Happy Hour & Raffles	Terrace

CONFERENCE AGENDA

MONDAY, October 22nd

- 12:00 PM – 3:00 PM **FL A&WMA Board Meeting**
NextEra Energy, Inc. Offices in Juno Beach
- 2:00 PM – 4:00 PM **Pre-Conference Tour** of Solid Waste Authority (SWA) Waste-to-Energy (WTE) Facility in Palm Beach County (Meet at the hotel lobby at 1:30 pm)
- 4:30 PM – 6:30 PM **YP Networking Event** at Square Grouper Sponsored by



TUESDAY, October 23rd

- 8:00 AM – 9:00 AM **Breakfast/Student-Mentor Breakfast** Sponsored by



- 9:00 AM – 10:30 AM **Student Environmental Challenge Competition**



TO RECYCLE, OR NOT RECYCLE – That is the Question...

Students this year have been challenged to dive in the world of recycling and evaluate Florida's recycling program to figure out what are some of the alternatives that can be used and implemented to achieve Florida's recycling goals.

- 10:30 AM – 11:00 AM **Student Poster Competition** Sponsored by



- 11:00 AM – 12:00 PM **Air Permitting 101**

This session features presentations by permit engineers from the Florida Department of Environmental Protection on a variety of air permitting 101 topics, including common pitfalls in completing permit applications, pre-application meetings, time clocks, requests for additional information (RAIs), and administrative petition rights

Speakers: **Jeff Koerner, P.E.**, Director of the Division of Air Resource Management, Fla. Department of Environmental Protection

David Read, P.E., Division of Air Resource Management, Permitting Section Administrator, Fla. Department of Environmental Protection

- 12:00 PM – 1:00 PM **Joint FCG - A&WMA Lunch**
Sponsored by



1:00 PM – 2:15 PM Sea Level Rise/Resiliency Forum

This session features representatives from academia, public and private sectors, discussing sea level rise in Florida and challenges faced by many coastal communities. The panel will explore how cities, municipalities and stakeholders can become more “resilient” to the inevitable sea level rise and changing climate conditions.

Moderator: **Craig Ash**, Environmental Protection Manager, Waste Management Inc. of Florida

Speakers: **Dr. Gary Mitchum, Ph.D.**, Associate Dean, College of Marine Sciences, University of South Florida

Samantha Danchuk, Ph.D., P.E., Director of the Enviro. Planning & Community Resilience Division, Broward County

Paul Tschirky, Ph.D., P.E., Senior Principal, Geosyntec Consultants

2:15 PM – 2:30 PM Break Sponsored by



2:30 PM – 3:50 PM FDEP Leadership Roundtable

This session features Florida Department of Environmental Protection leadership in a roundtable discussion covering the latest developments in the Departments Air, Waste, and Water divisions.

Moderator: **Paula Cobb**, Director of Environmental Affairs & Stakeholder Engagement, Duke Energy

Speakers: **Jeff Koerner**, Director of the Division of Air Resource Management, Fla. Department of Environmental Protection

Alex Reed, Director of the Division of Water Resource Management, Fla. Department of Environmental Protection

Kim Walker, Program Administrator of the Division of Waste Management, Fla. Department of Environmental Protection

3:50 PM – 4:00 PM Break

4:00 PM – 5:15 PM Water Management Challenges in South Florida

This panel will discuss water management challenges specific to South Florida industries engaged in power generation and sugarcane processing and includes a presentation on the plans for managing surface water levels during high water emergencies by the water management district.

Moderator: **Manitia Moultrie**, US Power Sector Leader/Principal, Golder Associates, Inc.

Speakers: **Akin Owosina**, Chief, Hydrology and Hydraulics Bureau, South Florida Water Management District

Danielle Hall, Environmental Services Manager, FPL

Lennart J. Lindahl, P.E., MacVicar Consulting Inc.

5:30 PM – 7:30 PM **Networking & Student Awards** Sponsored by

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7:30 AM – 8:30 AM **Continental Breakfast** Sponsored by



ESC



8:30 AM – 10:00 AM **Air Quality Hot Topics**

The session will include updates on the latest developments in the world of air quality regulation, including recent changes in EPA guidance, the latest on federal rulemaking and legal challenges, and growing interest in the use of predictive emissions monitoring systems as an alternative to continuous emission monitors.

Moderator: **Michael Cooke**, Greenberg Traurig

Speakers: **Scott Osbourn**, Trinity Consultants

Brian G Swanson, President, CMC Solutions, Inc.

Robert Manning, Hopping, Green & Sams, P.A.

Todd Russo, Chief, South Air Enforcement and Toxics Section,
Air, Pesticides and Toxics Management Division, EPA Region 4

10:00 AM – 10:15 AM **Break** Sponsored by



10:15 AM – 11:50 AM **Waste Recycling Roundtable**

The Florida Legislature established a statewide weight-based recycling goal of 75% by 2020. Over the past five years, the value of recycled material has plummeted, and the amount of effort and cost required to process recyclable materials has risen. Many of the challenges we currently face with recycling have occurred as a result of changes in collection methods, dramatic shifts in the global recycling markets, and new and lighter weight packaging. Current practices in Florida are not expected to significantly increase the recycling rate beyond the state's current rate of just over 50%. Without meaningful changes to our current approach, Florida's recycling rate will likely fall short of the 2020 goal. Come listen to this lively panel as they discuss current issues, debate potential solutions, and explore out of the box thinking related to recycling.

Moderator: **Nandra Weeks, P.E.**, Senior Principal Engineer, Geosyntec

Speakers: **Steve Laux, P.E.**, Professor of Practice, Herbert Wertheim
College of Engineering, University of Florida

Dawn McCormick, Director, Communications & Community
Relations, Waste Management

Ana Wood, Director, Waste & Recycling, Polk County

Kim Walker, Program Administrator of the Division of Waste
Management, Fla. Department of Environmental Protection

11:50 AM – 1:00 PM **Keynote Lunch & Awards**
Sponsored by



Keynote Speaker: **Julie Albert**
Program Coordinator
North Atlantic Right Whale Program
Marine Resources Council



1:00 PM – 2:15 PM **Coal Combustion Residuals/Hydrologic Connection/Effluent Limitation Guidelines**

Developing a compliance strategy for the Coal Combustion Residuals (CCR) Rule has been made increasingly difficult with additional uncertainties posed by ongoing rule challenges, potential state permitting programs, petitions for reconsideration and stay of deadlines, and litigation seeking to mandate closure of CCR units by removal. This session will provide legal and technical perspectives on the many challenges facing electric utilities in implementing the CCR rule, including an overview of lawsuits raising Clean Water Act issues through hydrologic connectivity arguments, and the interplay of EPA's Effluent Limitation Guidelines.

Moderator: **Carl Eldred**, Hopping Green & Sams, P.A.

Speakers: **Michael Lodato, P.G.**, Geosyntec Consultants

Kim Walker, Program Administrator of the Division of Waste Management, Fla. Department of Environmental Protection

2:15 PM – 3:30 PM **Local Environmental Agencies Panel**

Representatives from local government environmental agencies and the Florida Department of Environmental Protection's local district offices will discuss their compliance programs and the latest updates on the focuses of their offices programs and priorities.

Moderator: **Chris Spire**, Lead Auditor, DQS Management System Solutions

Speakers: **Jennifer Smith**, Director, Southeast District Office, Fla. Department of Environmental Protection

Laxmana Tallam, P.E., Administrator, Division of Environmental Public Health Air and Waste Program, Palm Beach County Department of Health

Jennifer Leeds, Section Administrator, Restoration Planning and Coordination, Everglades Policy and Coordination Division, South Florida Water Management District

3:30 PM – 3:45 PM **Break** Sponsored by



3:45 PM – 5:00 PM **Look-Back at 2018 Legislative Session; Look-Ahead to 2019**

This session features representatives from both the public and private sector to provide a review of the environmental issues addressed in the 2018 session and a preview of environmental issues likely to come before the Florida Legislature as the 2019 Legislative Session cranks up.

Moderator: **Adam Blalock**, Attorney, Hopping Green & Sams, P.A.

Speakers: **Joseph R. Salzverg**, Attorney, Gray Robinson

Chris Pettit, Policy and Legislation Manager, Palm Beach County Utilities Department

Ernie Barnett, Executive Director Florida Land Council

5:30 PM – 6:30 PM **Networking Happy Hour & Raffle**

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2018 CONFERENCE SPEAKERS & MODERATORS

TUESDAY, October 23rd

Air Permitting 101

Jeff Koerner, Deputy Director, Division of Air Resource Management, FDEP



Jeff Koerner is the Director of the Division of Air Resource Management for the Florida Department of Environmental Protection. He received his Bachelor of Science degree in mechanical engineering from the University of Florida. Jeff has three years of experience in design/consulting for private business, nine years of regulatory experience with the Palm Beach County local air program and 18 years of regulatory experience with the Florida Department of Environmental Protection. Jeff is a member of the Air and Waste Management Association and the Florida Engineering Society. The Division of Air Resource Management administers the federal Clean Air Act as well as state regulations for stationary sources of air pollution. It also provides oversight for permitting, compliance, enforcement, and ambient monitoring activities throughout Florida's six district offices and nine local air programs. As Director, Jeff helps set statewide policy to ensure consistent and fair regulation.

David Read, P.E., Permitting Section Administrator, Division of Air Resource Management, FDEP



Mr. David Lyle Read has Masters and Bachelors degrees in Civil Engineering from the University of Central Florida and is a licensed professional engineer in Florida. Mr. Read has over 35 years of experience in engineering, research, and computer science, including the last 10 years working for the Florida Department of Environmental Protection (FDEP). Mr. Read for the last 3 ½ years has been the Environmental Administrator managing the air permitting section of the Office of Permitting and Compliance in the Division of Air Resource Management (DARM) of the FDEP. Mr. Read is one of DARM's leading technical experts in PSD permitting and federal New Source Performance Standards and National Emission Standards for Hazardous Air Pollutants.

Sea Level Rise/Resiliency Forum



Moderator: Craig Ash, Environmental Protection Manager, WM

Craig serves as Environmental Protection Manager for Waste Management's interests in Southeast Florida including landfills, transfer stations, materials recycling and collection operations. He started his career with FDEP leading to working in private consulting and the solid waste industry.



Gary Mitchum, Ph.D., Associate Dean, College of Marine Science, USF

Professor Mitchum has been a faculty member in the College of Marine Science at the University of South Florida since 1996. Prior to coming to the USF, he was a faculty member in the Department of Oceanography at the University of Hawaii where he was also the Director of the University of Hawaii Sea Level Center. His interest in sea level rise began there in the mid-1980's, and he remains especially interested in the study of 20th century sea level rise. Professor Mitchum's research focuses on the use of satellite and in situ data to study sea level variations and climate change. In addition, he also works on a wide variety of problems in the general area of ocean physics, including ocean eddies, the El Niño phenomenon, internal tides and various types of ocean waves. He also has a long-standing interest in the application of ocean physics to improve our understanding of fisheries. Dr. Mitchum currently serves as the Associate Dean for Research for the college.



Samantha Danchuk, Ph.D., P.E., Assistant Director, Broward County

Dr. Danchuk is the Assistant Director of the Environmental Planning & Community Resilience Division of Broward County where she leads the implementation of the County's Climate Action Plan and the Energy and Sustainability program activities. This year, the Division has focused on continuing to develop science-based policy to support resilient redevelopment. Most recently, the flood risk management study with the US Army Corps of Engineers was completed to develop a regional seawall and coastal flood barrier standard for minimum elevation. With expertise in coastal engineering, she serves as a technical resource for the Southeast Florida Regional Climate Change Compact, the four-county climate and adaptation strategy collaborative and chairs NOAA's Climate and Marine Resources Task Force. She has led the workgroup to develop the unified sea level rise projection update and provided support for the Resilient Redesign and Regional Climate Action Plan workshops. Dr. Danchuk earned a doctorate from Louisiana State University, a Masters from UC Berkeley and a B.S. from Florida State University in the fields of environmental engineering and computational fluid dynamics (coastal modeling).



Paul Tschirky, Ph.D., P.E., D.CE, Senior Principal, Geosyntec

Dr. Tschirky is a Senior Principal at Geosyntec Consultants based in the Baton Rouge, Louisiana office. He leads Geosyntec's Coastal and Resilience and Adaptation practices, with over 20 years of experience in coastal/hydraulic engineering, resiliency, and restoration. Dr. Tschirky has provided planning, design, analysis, modeling, construction documents, and project management for a wide variety coastal and riverine projects for public and private sector clients. Dr. Tschirky has led multidisciplinary teams developing coastal master plans, preparing guidance for the design of coastal infrastructure, and assessing the impact of coastal structures. Projects have included shoreline protection, marsh creation, ecosystem restoration, wave prediction/transformation, hydrodynamic modeling, sediment transport, hurricane surges, feasibility assessments, dredging, environmental forces, flood hazard assessments, sea level rise impacts, basin planning projects, navigation and ship maneuvering, passing ship effects, and vessel motion/mooring studies. He is a board-certified Diplomate in Coastal Engineering by the Academy of Coastal, Ocean, Port and Navigation Engineers. He is a founding member and current chair of the American Society of Civil Engineers Louisiana Chapter of the Coasts, Oceans, Ports, and Rivers Institute.



Moderator: Paula Cobb, Energy Affairs & Stakeholder Engagement Director, Duke Energy

Paula Leverett Cobb works for Duke Energy as Florida's Energy Affairs & Stakeholder Engagement Director. In this role, she helps the company develop sustainable environmental policies and leads environmental stakeholder engagement efforts. Previously, Paula served the Florida Department of Environmental Protection as its Director of Air Resource Management and Deputy Secretary of Regulatory Programs. During her tenure, she advised the Governor's Office and Legislature on state environmental policy, advocated the state's environmental policy positions, and managed relationships with other environmental and regulatory agencies, including the U.S. EPA. Paula also worked

in private practice with Hopping Green & Sams and Littlejohn, Mann & Associates, where she represented clients before local, state, and federal agencies and other stakeholders. She has a Bachelor of Arts degree from the University of South Carolina, a Master of Studies in Environmental Law from Vermont Law School, and a Juris Doctor from the University of South Carolina. Paula was admitted to the Florida Bar in 2007. Originally from South Carolina, Paula resides in Tallahassee with her husband, David, and twin daughters, Arden and Maya.

Jeff Koerner, Deputy Director, Division of Air Resource Management, FDEP – See Page 11

Alex Reed, Director of the Division of Water Resource Management, FDEP

Alex Reed was appointed director of the Division of Water Resource Management in April of 2018, to continue the mission of safeguarding Florida's water resources through proactive partnering with local stakeholders, other regulatory agencies and communities, and providing a more consistent and effective regulatory process. The Division's ultimate goal is to enhance the quality and available quantity of water needed by the state for residents, tourists and industry, while also providing protection of the state's beaches, wetlands and surface waters for enjoyment today and for generations to come.

Kim Walker, Administrator, Permitting and Compliance Assistance Program, FDEP

Ms. Walker is the Program Administrator for the Permitting and Compliance Assistance Program, Division of Waste Management. In this capacity, she is responsible for the Solid Waste; RCRA permitting; Hazardous Waste and Storage Tank Compliance; and Waste Reduction and Registration Sections. After 20 years as an environmental consultant, she joined the Department in January of 2006 to manage the Florida Brownfields Program. In late 2011, her responsibilities were expanded to include management of the grant and Department staff that support the Defense and State Memorandum of Agreement (DSMOA); working directly with the Air Force, Navy, U.S. Army Corps of Engineers and the EPA to manage environmental restoration of contaminated sites at Florida's military installations. In September of 2016, Ms. Walker was named to her current position. Ms. Walker earned a Bachelor of Science degree in Biological Sciences from Florida State University in 1983.



Moderator: Manitia Moultrie, Power Sector Leader/Principal, Golder Inc.

Manitia Moultrie has over 30 years of technical, project management and leadership experience in a wide range of regulatory, legislative and permitting matters within the utility/energy industry. She is currently responsible for technical strategy and business development for the Golder Associates North America Power Sector business line. In this capacity, she monitors market conditions and regulatory and legislative issues and develops technical and business development and marketing strategies. She represents Golder on several national professional environmental/engineering associations and technical workgroups for utility and energy clients including the American Coal Ash Association (ACAA), the Utility Solid Waste Act Group (USWAG) and locally with FL Association of Water Quality Control (FAWQC) and the FL AWMA. Her technical experience includes compliance planning and auditing, siting/permitting of power plant development and transmission and substation projects and NPDES, industrial/domestic wastewater, wetland/mitigation, consumptive use and stormwater management. Manitia currently serves as the Vice-Chair of the Florida Section AWMA Board of Directors. In her spare time, she serves as the Program Director for the Youth Development Foundation of Pinellas County, Inc., a 501(c)3 organization that provides positive youth development, scholarship and education/career development opportunities to over 300 youth annually in the St. Petersburg community.



Akintunde Owosina, P.E. Chief of the Hydrology and Hydraulics Bureau, SFWMD

Akintunde Owosina, P.E. is the chief of the Hydrology and Hydraulics Bureau at the South Florida Water Management District (SFWMD). The South Florida Water Management District is a regional governmental agency that manages the water resources in the southern part of the state of Florida. It is the oldest and largest of the state's five water management district and covers a 16 county area stretching from Orlando to the Keys. The agency's mission is to protect South Florida's water resources by balancing and improving flood control, water supply, water quality and natural systems. Mr. Owosina is a civil and environmental engineer by training with over 30 years of international and local, private sector and government experience in water resources and numerical modeling; twenty of those years are with the SFWMD. He oversees a program with over 40 engineers and scientists responsible for numerical modeling, hydraulics and hydrology analyses in support of the District's mission. In his tenure at the district he has guided technical teams responsible for evaluating several key initiatives ranging from Everglades Restorations, regional water supply planning, development of operating plans and strategies for flood control infrastructure, and assessing the effects of sea level rise on agency assets and mission. He is an alumni of the University of Lagos, Nigeria and Utah State University and is a registered professional engineer in the state of Florida.



Danielle Hall, P.E., Environmental Services Manager, FPL

Danielle is a manager with Florida Power & Light's (FPL) Environmental Services Department. Danielle manages siting, licensing, and permitting for fossil and nuclear facilities in Florida. Danielle's experience with FPL also includes siting and permitting solar energy projects across the state. Prior to FPL, Danielle worked in consulting on multi-media permitting and compliance with a focus on air permitting. Danielle is a registered Florida Professional Engineer and holds a Bachelor of Science and Masters of Engineering in Environmental Engineering from the University of Florida.



Lennart Lindahl, P.E., MacVicar Consulting, Inc.

Mr. Lindahl is a Professional Engineer with MacVicar Consulting, Inc. He has more than 23 years of experience in water resource engineering and complex project management. He served as the Assistant Executive Director for the South Florida Water Management District (SFWMD) from 2013 through February 2017. His responsibilities at the SFWMD included the supervision of all the agency's core mission functions. Prior to joining the SFWMD in 2013, he served as the Managing Principal for AECOM's Florida Water Practice which included all wastewater, water, water resources and community infrastructure clients. Mr. Lindahl has a Bachelor of Science in Civil Engineering from Lafayette College and a Master of Science in Civil Engineering from Lehigh

University. A life-long Jupiter resident, he is a professional engineer registered in the state of Florida.

WEDNESDAY, October 24th

Air Quality Hot Topics



Moderator: Michael Cooke, Of Counsel, Greenberg Traurig

Mike Cooke is Of Counsel in Greenberg Traurig's environmental practice. He advises manufacturing companies, industrial facilities, natural-gas pipeline companies, shipping terminals, and electric utilities throughout the U.S. in connection with various environmental issues, including, in particular, air permitting, compliance and enforcement, and greenhouse gas matters. Mike is a former Director of the Florida Department of Environmental Protection's Air Division, where he oversaw air permitting, compliance, and rulemaking, including development of state regulations implementing the federal Clean Air Interstate Rule, Clean Air Mercury Rule, Clean Air Visibility Rule, and New Source

Review reform programs. He also served as General Counsel for the Florida Public Service Commission, where his responsibilities included conducting rate cases, rulemaking, enforcement proceedings, and decision-making involved with policy issues regarding nuclear facility site cost recovery and renewable energy. In addition to his J.D., which he received from Catholic University of America - Columbus School of Law, Mike also has a B.S. and an M.S. in Biology from George Mason College.



Scott Osbourn, P.E., Principal & Practice Leader, Trinity Consultants

Mr. Osbourn is a Principal and Practice Leader with Trinity Consultants, focusing his efforts in the power and manufacturing market sectors. He has 35 years of experience in multidisciplinary environmental projects, with an emphasis on air quality and energy issues. Prior to his past 17 years in consulting, Mr. Osbourn spent 10 years with the former Progress Energy, now Duke Energy. Mr. Osbourn is an Auburn University graduate with a BS in Civil Engineering and is a Florida PE.



Brian Swason, President, CMC Solutions, LLC

Mr. Swason graduated from Stanford University with a B.A.S. His work experience includes environmental engineering and consulting utilizing U.S. EPA Part 60, Appendix A and other reference methods for stack gas analysis. Mr. Swanson's source sampling experience included development of a test method for isocyanates and implementing the method for certification; stack gas analysis and reference method testing of municipal waste combustors, boilers, thermal oxidizers, gas turbines, hazardous waste combustors, and other sources; baseline emission inventories; data collection for process research, quality assurance training, and testing of CEMS; and combustion efficiency studies of multiple gas/coal/sludge-fired boilers and their CEMS. Mr. Swanson has supervised hundreds of environmental monitoring projects of various scope from CEMS and PEMS quality assurance support and training to turnkey installations of complete

continuous emissions monitoring and predictive emissions monitoring systems that have been certified under U.S. EPA 40 CFR Part 60 and 40 CFR Part 75 performance standards. Mr. Swanson has successfully managed over twenty U.S. 40 CFR Part 503 installations, startups, and certifications. Mr. Swanson is the manager of the team that created the statistical hybrid predictive emissions monitoring software and system and its core components including the virtual process and compliance analyzers. Recently, Mr. Swanson supervised the design, implementation, and certification of PEMS at several sites under U.S. EPA 40 CFR Part 75, Subpart E. These sites included certification of PEMS for compliance monitoring of gas-fired turbines and boilers and virtual process analyzers for secondary air trim.



Todd Russo, Chief of the South Air Enforcement and Toxics Section in the Air, Pesticides and Toxics Management Division, EPA Region 4

Todd Russo is the Chief of the South Air Enforcement and Toxics Section in the Air, Pesticides and Toxics Management Division. He worked as a Clean Air Act inspector and enforcement officer for the Environmental Protection Agency from 1998 to 2008 when he became the Chief of the South Air Enforcement and Toxics Section. Prior to becoming a part of EPA. Mr. Russo worked in the Air and EPCRA division for an environmental consulting firm in Baton Rouge from 1991 to 1998. He received his degree in Environmental Science from McNeese State University.



Robert Manning, Shareholder, Hopping Green & Sams, P.A.

A native Floridian, Robert Manning has been practicing environmental law with Hopping Green & Sams since 1994. Robert's practice focuses primarily on air quality-related issues, including policy development, legislation, rulemaking, permitting and enforcement. Robert represents a variety of public and private industrial clients in matters before local, state and federal agencies. Robert has served as counsel in the U.S. Court of Appeals for the D.C. Circuit regarding the federal Clean Air Interstate Rule and the Cross-State Air Pollution Rule, and advocates for clients in complex matters including the development of Climate Policy, New Source Review matters, the MATS rule, Regional Haze submittals, and approaches to address recently-revised National Ambient Air Quality Standards. Robert is a founding member of the Big Bend Chapter of the Air and Waste Management Association, and is a past Chair of the Florida Section of A&WMA and the Florida Bar's Environmental and Land Use Law Section

Waste Recycling Roundtable



Nandra D. Weeks, P.E., Senior Principal Engineer, Geosyntec Consultants

Nandra Weeks is a Senior Principal Engineer at Geosyntec Consultants based out of Jacksonville, FL. She has more than 30 years of experience managing and performing environmental projects in the areas of environmental due diligence, municipal solid waste and hazardous waste management, site assessment and remediation, environmental compliance, and risk management. Over her career, she has served as the program manager for numerous multi-million-dollar assessment, remediation, and environmental compliance contracts for federal, municipal, transportation, and industrial clients. Her skills in communication and public relations have been helpful in dealing with sites located in sensitive areas

where outreach activities have been necessary to promote public understanding. Ms. Weeks serves as the Chairman of the Board for the Hinkley Center for Solid and Hazardous Waste Management and is a member of the American Bar Association's (ABA's) Section of Environment, Energy, and Resources (SEER), where she serves as Vice Chair for the Science and Technology Committee. She is also a member of the Solid Waste Association of North America, Air and Waste Management Association, American Society for Civil Engineers, and Florida Brownfields Association. Ms. Weeks serves on the steering committee for Geosyntec's Power Industry and Legal Counsel Sector Initiatives. She earned her B.S. in Civil Engineering from the Georgia Institute of Technology in 1986 and her MBA from Nova University in 1990. She is a professional engineer registered in Florida.



Ana E. Wood, Director, Waste & Recycling, Polk County

Ana E. Wood (Ana) is the Waste & Recycling Director for Polk County (Polk) with overall responsibility for all landfill operations, recycling, contract management, and other environmental programs. Previously, Ana was the founder and president of Ana Wood & Company, LLC., a private consulting firm offering industry insight to public and private solid waste companies nationally and internationally. Ana has devoted her entire career in the waste industry and has more than 34 years of experience both in private and

public enterprises prior to being reappointed to Director. Ana is a member of MSW Magazine (a national trade journal) Editorial Board and serves in several non-profit organizations. Ana is a graduate of University of Miami and Lynn University.



Dawn McCormick, Director, Communications & Community Relations, Waste Management

As Director, Communications & Community Relations for Waste Management Inc. of Florida, Dawn McCormick is responsible for external and internal communications and community relations for Waste Management throughout Florida. She manages a variety of communication vehicles to the company's thousands of customers, its 3,500 employees, and media representatives, oversees the firm's charitable contributions program and is a member of the company's statewide Government Relations team in Tallahassee. Ms. McCormick joined Waste Management, a Fortune 200 firm and the nation's largest environmental solutions provider, in April of 2009 with more than 20 years of Corporate Communications, Public Relations and media experience. She is Vice Chair of the Florida Recycling Partnership, 2nd Vice Chair of Keep Florida Beautiful, a board member of Sustainable Florida and a member of the NWRA Florida Chapter Recycling Task Force. She was a member of Leadership Florida's Class XXXIV. Prior to her Public Relations career, she was a Weekend Sports Anchor/Reporter for WFRV-TV (NBC affiliate) in Green Bay, Wisconsin and KNTV (ABC affiliate) in San Jose, CA where she covered numerous national sporting events including three Super Bowls, two World Series and the Summer Olympics in Los Angeles. Ms. McCormick received her Bachelor of Science degree in Journalism from Northwestern University.



Steve Laux, P.E., Professor of Practice, Herbert Wertheim College of Engineering, University of Florida

Mr. Laux is a Senior Lecturer and Professor of Practice at the University of Florida. He spent most of his 32-year career as a consulting engineer serving public and private sector solid waste management organizations. His focus was development and support for solid waste management infrastructure such as landfills, transfer stations, and MRFs. He has spent the past two years at the University of Florida, teaching civil engineering practice and solid waste system design courses. He also supports Dr. Timothy Townsend and his students with sustainable materials management research, including several projects involving beneficial use of municipal solid waste (MSW) incinerator ash, and a recent Hinkley Center funded project that examines the economic and environmental aspects of Florida's current solid waste management practices (Florida Solid Waste Management: State-of-the-State, 2018). Mr. Laux received his Bachelor of Science and Master of Engineering degrees in Civil Engineering from the University of Florida.

Kim Walker, Program Administrator of the Division of Waste Management, FDEP – See page 13

Keynote Speaker



Julie Albert, Coordinator of the North Atlantic Right Whale Conservation Program, Marine Resources Council

Julie Albert is the Coordinator of the North Atlantic Right Whale Conservation Program at Marine Resources Council. She grew up in northwest Ohio, but a family vacation to Hawaii in 1988 fostered her passion for marine mammals after seeing humpback whales in the wild for the first time. After earning her B.S. in Marine Biology from Texas A&M University at Galveston in 1995, she volunteered for the Texas Marine Mammal Stranding Network, worked in cephalopod aquaculture and was raising king penguins before moving to Florida in 1999. Julie became MRC's Right Whale Program Coordinator in 1999 and loves educating the public about how we can be better stewards of our ocean environment and its inhabitants. She is a proud wife and mother of three wonderful children. Julie is

passionate about marine mammal conservation, animal welfare, recycling, and litter reduction and always leaves the beach in better condition than she found it!

Coal Combustion Residuals/Hydrologic Connection/Effluent Limitation Guidelines



Moderator: Carl Eldred, Shareholder, Hopping Green and Sams, P.A.

Carl is a shareholder with Hopping Green & Sams, where he represents and counsels clients on solid and hazardous waste management, waste recycling, alternative fuels, hazardous substance and pollutant releases, and property contamination issues. Carl is a past Chair of the Environmental & Land Use Law Section of the Florida Bar. Born and raised in Yorkshire, England, Carl obtained a law degree in England before moving to Virginia, where he obtained his Juris Doctorate.



Michael Lodato, P.G., Principal Scientist, Geosyntec Consultants

Mr. Lodato is a third generation Floridian who has lived in Tampa all his life. He graduated from the University of South Florida with a Bachelor's Degree in Geology in 1985, a Master's Degree in Hydrogeology in 1987 and received his Florida Professional Geologist license in 1993. Mr. Lodato has been a Principal Scientist with Geosyntec Consultants in Tampa, Florida for over 16 years and has over thirty-three years of experience in environmental consulting. His expertise lies in the field of hydrogeology, specifically Florida hydrogeology. Mr. Lodato has provided consulting services to Federal, State and local governments, power companies, the

phosphate mining and processing industry, wood treating and former manufactured gas plants, electronics manufacturers, chemical refineries, food processing and manufacturers and the petroleum industry at sites throughout the U.S. Mr. Lodato loves spending time with family and friends and, in his spare time, enjoys fishing, golfing and researching "Old Florida" history.

Kim Walker, Program Administrator of the Division of Waste Management, FDEP – See page 13

Local Environmental Agencies Panel



Moderator: Chris Spire, Lead Auditor, DQS Management System Solutions

Since 2000, Chris Spire has managed a management system consulting practice (MSIA Associates LLC) specializing in Management System Implementation and Auditing. He has helped organizations in both the public and private sectors develop and implement Quality and Environmental Management Systems, Information Management Systems and Sustainability Programs. Prior to 2000, he spent 25 years in the brewing industry in production and plant management and the last 8 years as the head of Environmental, Health, Safety and Energy for Anheuser-Busch Inc.

Chris is a member of the ANSI-ASQ National Accreditation Board (ANAB) Accreditation Council and was an ANAB Accreditation Auditor. He is the past President of NAEM, the National Association for EHS Management and past Chair of the Florida Section of the Air & Waste Management Association. He was an Adjunct Professor at Florida Atlantic University in the Executive Environmental MBA Program. He is a graduate of the US Military Academy and has an MBA from the University of Wisconsin.



Jennifer Smith, Director, Southeast District of the Florida Department of Environmental Protection

Jennifer Smith previously served as Assistant Director of the Southeast District, overseeing the Compliance Assurance Program covering all regulatory media including air, waste and water. Among other responsibilities, she was responsible for ensuring the district met all federal commitments annually. Before that, she was the Program Administrator of the Environmental Resource Program, responsible for all permitting and compliance and enforcement. Smith spent seven years in the program writing and reviewing environmental resource permits prior to becoming the Program Administrator. She started with the department in the Storage Tanks Program, conducting compliance inspections



Laxmana Tallam, P.E., Administrator, Division of Environmental Public Health Air and Waste Program, Palm Beach County Department of Health

Mr. Tallam graduated from the University of Oklahoma with a Master's Degree in Environmental Engineering. In 1994, he joined the Air Quality Program at the Department of Environmental Protection. Later, he moved to the Department of Health in Palm Beach County in 2006. Currently, he is working as an Environmental Administrator for the Air & Waste Section. The Section includes the Air and Solid Waste programs, delegated by the DEP. Other programs of the Section include Biomedical Waste, Tanning facilities, Tattoo facilities, and Hazardous Waste generators/transporters.



Jennifer Leeds, Section Administrator, Restoration Planning and Coordination, Everglades Policy and Coordination Division, SFWMD

Jennifer is the Section Administrator in the Everglades Policy and Coordination office overseeing the management and implementation of the Comprehensive Everglades Restoration Program (CERP). She has been with the South Florida Water Management District for over 20 years working on Everglades Restoration, first starting in the research field and publishing several papers then transitioning to the CERP program.

Look-Back at 2018 Legislative Session; Look-Ahead to 2019



Moderator: Adam F. Blalock, Of Counsel, Hopping Green & Sams, P.A.

Adam Blalock is an attorney with Hopping Green & Sams and practices primarily in the area of water and natural resources law assisting clients in navigating the regulatory and legislative arenas. He also represents clients in obtaining various types of environmental permits from federal, state, and local agencies. Prior to joining Hopping Green & Sams, Adam worked for the Florida House of Representatives for 10 years as an attorney and then Policy Chief for the Agriculture & Natural Resources Subcommittee.



Joseph R. Salzverg, Associate/Government Consultant, Gray Robinson

Joseph has several years of experience in Florida's political and public policy arenas. He has served as a Campaign Manager and Political Consultant to several members of the Miami-Dade Legislative Delegation during the past several election cycles. While in law school, Joseph was a member of the 2013-2014 Legislative Intern Program where he served as a Legislative Analyst on the Regulatory Affairs Committee in the Florida House of Representatives. During this time, Joseph was responsible for analyzing proposed legislation related to banking and insurance regulation, business and professions regulation, and energy and utilities regulation. Following his time with the Florida House, Joseph was a law clerk with the City of Miami, Office of the City Attorney. In that capacity, he handled zoning, land use, municipal legislation, and general government matters. Joseph then served as a Legislative Affairs Consultant and law clerk for a regulatory insurance and administrative law firm in Tallahassee. During this time, Joseph was able to leverage his valuable relationships with members and staff to pass several bills and mitigate or stop proposed legislation that caused concern for his clients. As a law clerk, Joseph also dealt with various state agencies on behalf of his clients. Joseph currently lobbies Florida's legislative and executive branches of government on issues relating to insurance, utilities, health care, growth management, local government, regulated industries and appropriations matters. Joseph also represents clients before local governments on procurement, land use and general government matters.



Chris Pettit, Policy and Legislation Manager, Palm Beach County Utilities Department

Christopher Pettit is the Policy and Legislation Manager for the Palm Beach County Utilities Department. He is responsible handling a myriad of water and environmental issues involving water quality, water quantity, restoration projects, clean air/emissions, climate change, land use, and flood control. His previous experience includes positions in the Offices of Counsel at the South Florida Water Management District and Southwest Florida Water Management District. Christopher has significant experience working with all levels of government, from local to international. Christopher's educational background includes a juris doctor from the University of Florida, a Master of Law from the University of Cape Town, and doctoral studies at the University of London. During his time overseas, Christopher was part of teams involved in the institutional and administrative implementation of environmental and water laws in several regions of Africa and Southeast Asia. Christopher is passionate about bringing different academic, regional and cultural approaches together to find the most optimal and cost efficient solutions to our pressing water and environmental challenges.



Ernie Barnett, Executive Director, Florida Land Council

Ernie Barnett has over 30 years of water resources management experience and public service, during which he contributed to several landmark environmental laws. He had a lead role in the successful passage by the Florida Legislature of the Lake Okeechobee Protection Act and the Everglades Restoration Investment Act, which has provided more than \$1 billion dollars for Everglades restoration. He also helped secure approval of the Water Resource Development Act of 2000, in which Congress authorized the Comprehensive Everglades Restoration Plan. Mr. Barnett has had a leadership role in developing and implementing numerous innovative environmental programs throughout Florida. Mr. Barnett has been actively involved as a policy and technical leader in Everglades restoration for over 20 years. He directed the implementation of Florida Department of Environmental Protection's Ecosystem Management program that was nationally recognized by the Kennedy School of Government in 1996. He was the recipient of the 2001 National Wetlands Award for Outstanding Wetlands Program Development from the Environmental Law Institute.

2018 FL A&WMA ENVIRONMENTAL CHALLENGE

Competition for University Students

PURPOSE

The Environmental Challenge gives student teams the opportunity to develop solutions to an environmental problem and present their solution to a panel of environmental professionals. We are very interested in hearing about how you interpreted the challenge, the issues you identified, your approach, how you arrived at the conclusions, and how well you can communicate and defend your thoughts and position. We want you to learn and have fun during the entire process! This exercise provides the professionals of tomorrow an opportunity to address one of Florida's most challenging issues while interacting with the professionals of today.

PROBLEM STATEMENT

The recycling industry is grappling with a dual threat: The value of recycled material has plummeted over the past five years, and the amount of effort and cost required to process the material has risen. The over 37 million tons of municipal solid waste generated by 20 million Floridians and about 113 million visitors every year provides many opportunities for recycling. Unfortunately, Floridians and our visitors continue to discard valuable commodities when there are better uses for those items. In addition, residents and visitors alike are putting non-recyclables in recycling containers – as much as 25% to 30% -- and decreasing the value of the end product making recycling less environmentally and economically sustainable for some communities.

The Florida Legislature, through the Energy, Climate Change and Economic Security Act of 2008, established a statewide weight-based recycling goal of 75% by 2020. The Act instituted the 75% recycling goal, directed the Florida Department of Environmental Protection (DEP) to establish a reporting protocol and directed counties to report annually. The Legislature also established interim recycling goals: 40% by 2012, 50% by 2014, 60% by 2016 and 70% by 2018. Many actions have been implemented by DEP since the passage of the 75% recycling goal; however, Florida's recycling rate has plateaued and even declined in 2017.

Florida did achieve the interim goals established for 2012 and 2014; however, Florida's 2016 recycling rate was 56%, falling short of the 2016 interim recycling goal of 60% and declined to 52% in 2017. The law directs that if the interim recycling goals are not met, DEP must submit a report to the Legislature identifying additional programs or statutory changes needed to achieve the goals set forth in Section 403.706, Florida Statutes (F.S.). The legislation also provided that large counties (counties over 100,000 in population) not achieving the recycling goals could be directed to develop a plan to expand recycling programs. Of the 11 counties reaching the 2016 interim goal, only four counties achieved a 60% or more recycling rate by means other than renewable energy.

Anticipating that the 2016 interim goal would not be reached, DEP has hosted or participated in 30 statewide meetings, webinars and conference calls over the last two years. The DEP received input from waste and recycling business stakeholders, local governments and non-governmental organizations. Implementing some or all of the suggested options will require action by the Legislature, DEP and other state agencies, as well as all of the stakeholders involved. It will also demand market solutions, smart economic choices and thoughtful regulations.

Recycling in Florida, the United States, and the world has changed significantly over the last 10 years. Many of the challenges we currently face with recycling have occurred as a result of changes in collection methods, dramatic shifts in the global recycling markets especially in China, and new and lighter weight packaging. Given these challenges and others, the current practices in Florida are not expected to significantly increase the recycling rate beyond the state's current rate of 52%; causing it to level off. Without significant changes to our current approach, Florida's recycling rate will likely fall short of the 2020 goal of 75%. Some states with mandatory recycling requirements and state subsidies are doing better than Florida with regard to recycling rates.

THE CHALLENGE

Your team has been retained by FDEP to evaluate Florida's recycling program. Select one (1) topic out of the five sections presented in the PROBLEM STATEMENT section and address all of the questions under that section presented in bold and italics in a clear and concise manner for that topic.

The topics include:

1. Should We Change Our Recycling Goal in Florida and How We Measure Success?
2. Changing Waste Stream
3. Recycling of Solar Panels
4. Contamination Increase and Single Stream Recycling
5. Food Waste

You will be presenting in a public forum to the Recycling Technical Assistance Group (TAG), created by the Florida Department of Environmental Protection to make recommendations to FDEP regarding the future of recycling in Florida. The TAG is made up of municipality representatives (both rural and urban), EPA, FEP, industry recyclers, waste management companies, a lawyer, and community activists. The project teams are to provide a proposal of its approach and strategies. The team must then present its proposal at the AWMA conference in a venue simulating a presentation to the Recycling TAG in a public forum. You can use PowerPoint, storyboards, or other means to present your arguments. As noted above, the environmental challenge will simulate the public forum environment and a number of parties (both pro and con) are likely to be present.

Student Teams will present at the 2018 Conference on Tuesday, October 23rd at 9:00 am.

Proposal Title/University/Team Name	Presenters
<i>Increase Recycling of Food Waste</i> Florida International University FIU Team	Brian Flowers, Engineering Edward Ibarra, Public Policy Luis Ochotorena, Financial Analyst Olga Mikhilchishina, Relation and Communication
<i>Evaluation of Food Waste Recycling in Florida</i> University of Florida The Organic Conservationists (OrgCon)	Sharez Sohail, Anaerobic Engineer Brandon Gojuangco, Aerobic Engineer Gary Qin, Financial Analyst Mary-Ruth Vogt, Commercial Analyst
<i>Evaluation of the Recycling Program in Florida</i> University of Florida Resourceful Consultants Inc.	William Gendusa, Economic Advisor Tomas Moffatt, Communications Advisor Alyssa Morea, Public Relations Director Meg Simms, Sustainable Materials Manager Joshua Udvardy, Project Manager
<i>Contamination Increase And Single Stream Recycling</i> University of Florida Streamlined Consulting	Gina Panik, Waste Management Specialist Nicola Steelnack, Public Relations Consultant Melissa Uriguen, Public Policy Expert Christina Finizio, Financial Analyst

2018 FL A&WMA STUDENT POSTER COMPETITION

University/college students were invited to submit abstracts on topics of environmental interest for presentation at the Student Poster Session during the Florida Air & Waste Management Association's 54th Annual Conference and Exhibition (ACE). The following posters will be presented during the ACE.

No.	Presenter	Title	University
1	Joshua Udvardy <i>Undergraduate</i>	Effect of Dust Loading on Cleaning of Solar Panels by Electrodynamics	UF
2	Xiaonan Yu <i>Graduate</i>	The Influence of Human Mobility on Air Pollution Exposure Estimation	UCF

The poster presentations and judging will take place on Tuesday, October 23rd at 10:30 am.



The Air & Waste Management Association (AWMA) is a nonprofit, nonpartisan professional organization that enhances knowledge and expertise by providing a neutral forum for information exchange, professional development, networking opportunities, public education, and outreach to more than 5,000 environmental professionals in 65 countries. AWMA promotes global environmental responsibility and increases the effectiveness of organizations to make critical decisions that benefit society.

The **Mission** of AWMA is to facilitate the exchange of technical and regulatory information among environmental professionals for the purpose of improving and/or sustaining a high quality environment in Florida, to provide education and training to our members and to the public with regard to our areas of expertise in environmental issues, and to encourage interaction of members, and further the objectives of the International AWMA.

AWMA has two monthly publications, *The Journal of the Air & Waste Management Association*, the oldest continuously published, peer-reviewed, technical environmental journal in the world, and *EM*, a magazine for environmental managers. These publications help members meet their professional goals by providing timely and reliable environmental information.

Our 2018 Goals are:

- Promote information sharing
- Grow Florida Section membership
- Increase revenue to support new programs & scholarships
- Energize Florida Chapters – Leadership Support
- Encourage member involvement
- Promote Student Chapters & YP development
- Sponsor leadership training
- Develop Chapter Websites

The Association offers a series of conferences, workshops, webinars, and courses to keep members up-to-date on new developments in the profession. AWMA's Annual Conference and Exhibition brings environmental professionals from around the world to hear technical papers on cutting-edge topics and to interact with exhibiting business and organizations demonstrating the latest environmental products and services. Through its programming AWMA strives to address top environmental issues, offer access to leading subject experts, and maintain a neutral forum for information exchange.

Visit www.AWMA.org for membership and details for getting involved.

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Florida Section A&WMA Business Meeting



54th Annual Conference

During this year's business meeting we will be voting in a new slate of officers for 2019/2020. Please take a moment to review the ballot below prior to the business meeting.

2019-2020 BALLOT

SLATE OFFICERS/BOARD MEMBERS FOR 2019-2020			
Director/Officer Name	Term	Director/Officer Name	Term
Manitia Moultrie, Chair	2019-2020	Christina Akly, Vice Chair	2019-2020
Byron Burrows, Secretary/Treasurer	2019-2020	Susan Butler-Kennedy, Immediate Past Chair	2019-2020
Joe Applegate, Director	2019-2020	Paula Cobb, Director	2019-2020
Julianna Duckworth, Director	2019-2020	Joe Brown, Director	2019-2020
Kevin Holbrooks, Director	2019-2020	Jill Johnson, Director	2019-2020
Upasna Rai, Education Director	2019-2020	Liz Foeller, Executive Secretary	Appointed
Kaitlyn Tingum, Membership Chair	Appointed		

Shaded positions are subject to election at the Section Business Meeting.

Nominations will also be accepted for these positions from the floor.

GET TO KNOW OUR 2018 SPONSORS

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FLORIDA POWER & LIGHT COMPANY is the third-largest electric utility in the United States, serving approximately 4.9 million customer accounts or an estimated 10 million people across nearly half of the state of Florida. FPL's typical 1,000-kWh residential customer bill is approximately 25 percent lower than the latest national average and, in 2016, was the lowest in Florida among reporting utilities for the seventh year in a row. FPL's service reliability is better than 99.98 percent, and its highly fuel-efficient power plant fleet is one of the cleanest among all utilities nationwide. The company received the top ranking in the southern U.S. among large electric providers, according to the J.D. Power 2016 Electric Utility Residential Customer Satisfaction Study(SM), and was recognized in 2016 as one of the most trusted U.S. electric utilities by Market Strategies International. A leading Florida employer with approximately 8,900 employees, FPL is a subsidiary of Juno Beach, Florida-based NextEra Energy, Inc. (NYSE: NEE), a clean energy company widely recognized for its efforts in sustainability, ethics and diversity, and has been ranked No. 1 in the electric and gas utilities industry in Fortune's 2017 list of "World's Most Admired Companies." NextEra Energy is also the parent company of NextEra Energy Resources, LLC, which, together with its affiliated entities, is the world's largest generator of renewable energy from the wind and sun. For more information about FPL, visit the company's Web site at www.fpl.com.



GREENBERG TRAURIG's environmental and land development practices comprise an integrated network of professionals in over 38 offices in the United States, Latin America, Europe, the Middle East and Asia, including seven offices in Florida. Our team is nationally recognized for experience in a number of areas, including permitting, auditing and compliance, brownfield development and risk transfer, natural resources, Native American law, and a broad range of environmental, toxic tort, and government enforcement litigation (administrative, civil, and criminal). GT regularly assists clients with a broad variety of land development issues, including navigating the complexities of Florida's growth management laws and policies. The firm's environmental professionals work closely with the firm's land development, real estate, corporate, energy, and other transactional lawyers and have significant experience in key industry sectors, including: mining, oil and gas, transportation, waste management, electricity generation, clean technology, pulp and paper, steel and other metals, chemicals, pharmaceuticals, and real estate. GT's results-oriented and practical approach to problem solving has led major national companies and other organizations to entrust the firm with their most challenging environmental and land development matters. For additional information, please visit www.gtlaw.com.



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GEOSYNTEC CONSULTANTS is a consulting and engineering firm that works with private and public sector clients to address new ventures and complex problems involving our environment, natural resources, and civil infrastructure. Our engineers, geologists, environmental scientists, and other technical and project staff specialize in the areas of environmental studies and cleanup; infrastructure assessment, engineering, and design; environmental, health, and safety management; natural resources assessment and restoration; and structural extreme load analyses, fluid dynamics, and risk mitigation services. Our firm's practitioners deliver advanced solutions throughout the United States and at select locations in Australia, Canada, Ireland, Malaysia, and the United Kingdom. Geosyntec was founded in Florida, where the firm maintains eight offices, including its corporate operations team. Most of Geosyntec's Florida practitioners have spent the majority of their career in the state. They have provided strategic counsel to officials with the Florida Department of Environmental Protection (FDEP); National Aeronautics and Space Administration (NASA), Region IV of the U.S. Environmental Protection Agency (USEPA); the Florida water management districts; and the Jacksonville District of the U.S. Army Corp of Engineers (USACE), among many others. www.geosyntec.com



GOLDER ASSOCIATES, INC., strives to be the most respected global company providing consulting, design, and construction services in our specialist areas of earth, environment, and related areas of energy. Golder professionals commit to carefully building an understanding of client needs and the specific environments in which they operate. Golder has three offices in Florida located in Jacksonville, Gainesville, and Tampa with a combined staff of over 90. Our Florida operations offer diverse consulting services including power facility siting and permitting; environmental resource evaluation and permitting; remediation of environmental impacts; geotechnical engineering; solid waste permitting and design; and regulatory compliance services. Golder has become one of the premier full-service environmental and engineering consulting firms operating in the state. www.golder.com



GULF POWER COMPANY is an investor-owned electric utility with all of its common stock owned by Atlanta-based Southern Company. Gulf Power serves more than 430,000 customers in eight counties throughout Northwest Florida. The company's mission is to safely provide exceptional customer value by delivering reliable, affordable and environmentally responsible electricity while strengthening our communities. www.gulfpower.com



HOPPING GREEN & SAMS, P.A. is a Tallahassee, Florida based firm representing clients statewide primarily in the area of governmental law. Its attorneys have assisted clients at federal, state, regional, and local levels in all areas of environmental and land use regulation and litigation including: solid and hazardous waste, comprehensive planning, DRIs, property rights litigation, toxic substances, wetland, water use, sovereign submerged lands, air emissions, underground injection control, oil and gas exploration, endangered species, industrial wastewater, domestic wastewater, stormwater and potable water. Hopping Green & Sams also represents clients in matters relating to state and local tax, business and insurance regulation, and community development districts. Hopping Green & Sams maintains an active lobbying practice representing clients before the Florida Legislature, state agencies, the governor and Cabinet. hgslaw.com

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CMC SOLUTIONS. As the leading supplier of predictive emissions monitoring systems, CMC Solutions provides SmartCEMS products to environmental monitoring companies around the world. Our predictive emissions monitoring systems are the most advanced on the market. At CMC Solutions, we design our products using state-of-the-art technologies to accurately predict process and emissions parameters. Each of our PEMS are designed to meet EPA compliance reporting requirements for optimal quality and dependability. We also provide exemplary PEMS software components, hardware components, and support to ensure that your operation continually meets strict regulatory compliance requirements. <http://cmcpems.com/>



DUKE ENERGY Florida owns and operates a diverse generation mix, including renewables, providing about 8,800 megawatts of owned electric capacity to approximately 1.8 million customers in a 13,000-square-mile service area. With its Florida regional headquarters located in St. Petersburg, Fla., Duke Energy is one of the largest electric power holding companies in the United States. Its Electric Utilities and Infrastructure business unit serves approximately 7.5 million customers located in six states in the Southeast and Midwest. The company's Gas Utilities and Infrastructure business unit distributes natural gas to approximately 1.6 million customers in the Carolinas, Ohio, Kentucky and Tennessee. Its Commercial Renewables business unit operates a growing renewable energy portfolio across the United States. Duke Energy is a Fortune 125 company traded on the New York Stock Exchange under the symbol DUK. More information about the company is available at duke-energy.com.



ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC. (ECT), serves private- and public-sector clients in five key practice areas, supported by a wide range of scientific, engineering and management disciplines. These practice areas include: air quality, natural resource management and permitting, performance assurance and compliance, site assessment and remediation, and water resources. Services within these areas span the power, mining, oil & gas, manufacturing and industry, land development, financial, and professional sectors, as well as the government sector. ECT serves clients and markets throughout the United States and on four continents. www.ectinc.com.



ENVIRONMENTAL SYSTEMS CORPORATION. Based in Austin, Texas, Environmental Systems Corporation (ESC) is the most popular supplier of CEMS Data Acquisition System (DAS) software in the U.S. Our DAS is the market leader in helping industrial and utility plants comply with federal, state, and local air quality regulations requiring continuous monitoring. For nearly 50 years, we have been helping our customers meet and report compliance with air emissions standards. <https://www.envirosys.com/About-ESC>



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The **MOSAIC COMPANY** is the world's leading producer and marketer of concentrated phosphate and potash crop nutrients. We are the largest integrated phosphate producer in the world and one of the largest producers and marketers of phosphate-based animal feed ingredients in North America. We are one of the four largest potash producers in the world. Through our broad product offering, we are a single source supplier of phosphate- and potash-based crop nutrients and animal feed ingredients. We serve customers in approximately 40 countries. We mine phosphate rock in Florida and process rock into finished phosphate products at facilities in Florida and Louisiana. We mine potash in Saskatchewan and New Mexico. We have other production, blending or distribution operations in Brazil, China, India and Paraguay, as well as strategic equity investments in a phosphate rock mine in the Bayovar region in Peru and a joint venture formed to develop a phosphate rock mine and chemical complexes in the Kingdom of Saudi Arabia. Our distribution operations serve the top four nutrient-consuming countries in the world: China, India, the United States and Brazil. We are publicly traded on the New York Stock Exchange under the ticker symbol "MOS" and are headquartered in Plymouth, Minnesota. www.mosaicco.com

SCS ENGINEERS

SCS ENGINEERS is an employee-owned environmental consulting and construction firm that designs and implements sustainable environmental solutions. SCS is a full service provider. We study challenges and design solutions; we remediate, build and operate environmental and energy projects and systems; and we monitor a wide range of environmental control systems. Our core capabilities are: solid and hazardous waste management, landfill gas, site remediation, renewable energy, and regulatory compliance for air, water, and soil. As technologies continue to evolve, SCS evolves. We remain at the forefront applying new processes and technologies to improve environmental compliance, reduce project risk, and provide our clients the ability to foresee and adapt business to environmental, social, economic and regulatory change. Continuous improvement, our in-the-field experience, and our deep involvement in the industries we serve help us deliver smart and simple solutions that work. <https://www.scsengineers.com/>



TESTAMERICA LABORATORIES, INC. is recognized as the leading environmental testing firm in the United States. Operations include a nationwide network of over 80 locations delivering innovative technical expertise and comprehensive analytical testing services. To view a map of our nationwide footprint, please download our Analytical Map. Through continued investment in people, technology, capital equipment and infrastructure, TestAmerica is well positioned to support clients in both the public and private sector. Whether it is the Department of Defense, Department of Energy, Industry or the consulting and engineering firms that support them, TestAmerica has unique and innovative solutions to address the most challenging opportunities. www.testamericainc.com



TRINITY CONSULTANTS For over 40 years, Trinity Consultants has assisted organizations with environmental regulatory permitting and compliance challenges, specializing in air quality issues (experts in air permitting and the go-to firm for dispersion modeling). Trinity places a great emphasis on hiring and developing the most talented environmental professionals to deliver accurate, thorough, and consistent compliance assistance. Our network of environmental experts spans North America and includes teams in China, the Middle East, and the United Kingdom. With such a broad footprint, Trinity is able to serve a variety of clients with robust solutions based on the international forefront of environmental permitting and compliance strategy. By maintaining local offices in Florida with staff intimately engaged with DEP in Tallahassee, each district, and all local agencies, Trinity can combine national experience with local insight and relationships. Trinity provides innovative, cost effective solutions in the areas of air permitting and regulatory compliance, sustainability and environmental management, greenhouse gas reporting and strategy, air dispersion modeling, EH&S auditing, toxicology & industrial hygiene, and EH&S information management. Trinity's also provides extensive professional training on environmental topics, environmental modeling software, and environmental staffing services. www.trinityconsultants.com

SILVER SPONSORS



VIM TECHNOLOGIES is the established leader in intelligent environmental software and compliance solutions serving all industries impacted by air compliance regulations. Our innovative data acquisition product provides a superior end user experience and simplifies the reporting process. CEMLink is your link to compliance. www.vimtechnologies.com

CONFERENCE SUPPORTERS



TECO ENERGY is built on a foundation of more than 100 years of history. We incorporate the strengths of three businesses and support services to work together as one united company. In the spirit of coming together, we have chosen to reinforce the values that unify our companies. We believe that by agreeing on, practicing and reinforcing these values at all levels, we will become a stronger and more unified organization. TECO is proud to be a subsidiary of Emera Inc., a geographically diverse energy and services company headquartered in Halifax, Nova Scotia, Canada. The company invests in electricity generation, transmission and distribution, as well as gas transmission and utility energy services with a strategic focus on transformation from high carbon to low carbon energy sources. Emera has investments throughout North America and in four Caribbean countries. At Tampa Electric's internationally renowned Manatee Viewing Center, more than 4 million people have come to experience a unique slice of natural Florida, enjoy environmental education and see manatees up close in the clean, warm water discharge canal of our Big Bend Power Station – the site of numerous emissions reduction upgrades. www.tampaelectric.com

PRE-CONFERENCE TOUR



Florida Section
AIR & WASTE MANAGEMENT
A S S O C I A T I O N

54th Annual Conference

Waves of Change: Oceans Of Opportunity

FL A&WMA invites you to the free pre-conference tour of the:



SWA Waste-to-Energy Facility

Monday, October 22, 2018 2:00 pm to 3:30 PM



Built in 2015, SWA's Waste-to-Energy facility is the most advanced and cleanest waste-to-energy power plant in North America. It is estimated to reduce the amount of waste going to SWA's landfill by up to 90%. It generates 100 MW of electricity for the people in Palm Beach County, enough electricity to provide power for an estimated 44,000 homes and businesses, or about all the homes in Boca Raton. More information can be found on their [website](#).

***Sign up for this free tour with your conference registration.
Spots are limited!***

Contact Craig Ash with any questions: Cash1@wm.com



YP Networking Happy Hour

Join us for the Annual Young Professional Networking Happy Hour on Monday, October 22nd from 4:30pm- 6:30pm at Square Grouper in Jupiter!

Sign up for this event when you register for the FLAWMA conference!



All YP and YP-at-heart are welcome to attend!

YPs get free drink tickets

Appetizers will be provided

For questions contact:

Kaitlyn.Tingum@FPL.com

(561) 267-6890

Square Grouper
1111 Love Street
Jupiter, FL 33477

Join us for our annual

Student-Mentor Breakfast

What is it?

On Tuesday, October 23, a student will get paired with an experienced professional to spend 45 minutes enjoying breakfast, sharing experiences and networking.

➤ *If you are a student or young professional...*

You'll have the opportunity to network and be mentored by an experienced professional.

➤ *If you are an experienced professional...*

This is a great opportunity to connect with the industry's next generation of rising stars.

Sign up to be either a mentor or a mentee by emailing
Christina.Akly@fpl.com



Help us make our networking breakfast a success!!
(There is no cost to participate. Breakfast will be provided 8-9 am)

CONFERENCE VENUE AND HOTEL ACCOMODATIONS



5 NORTH A1A, JUPITER, FL 33477-5190 USA

Phone: 561 – 746 – 2511

PARKING: Complementary self-parking is available at the hotel guest parking. Valet parking is available at an additional cost.

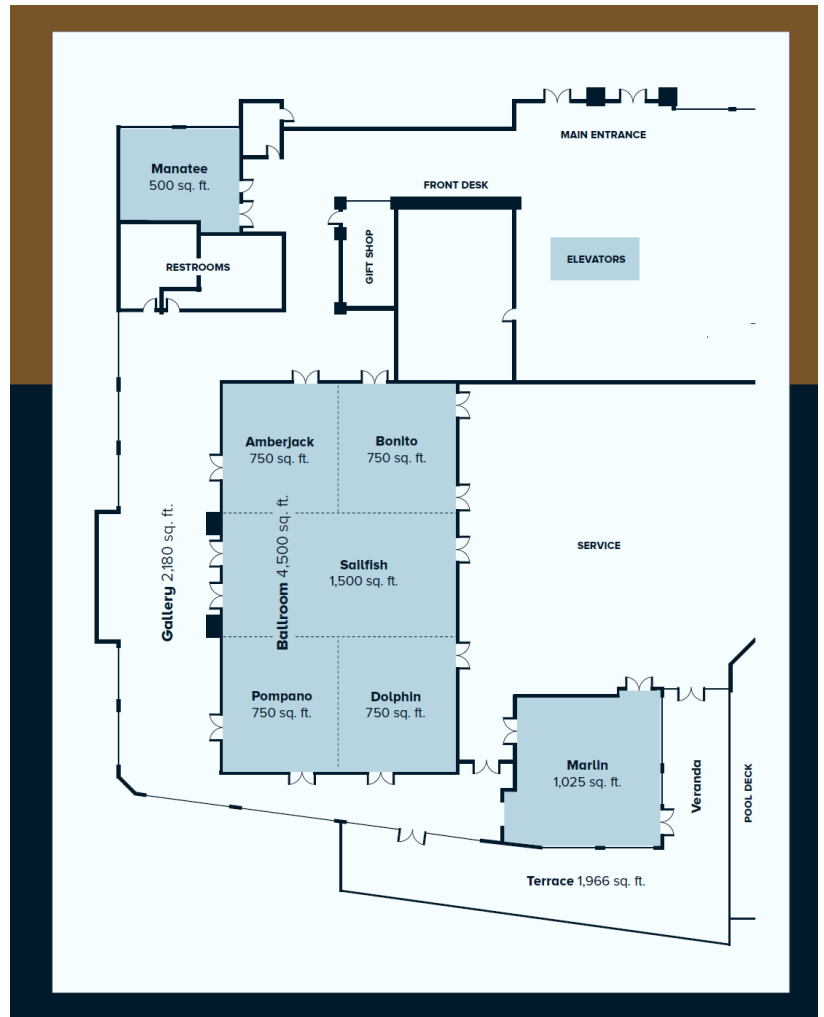
INTERNET ACCESS: The meeting area has free access to wifi. Connection instructions will be provided on the tables throughout the conference.

LOCATION OF EVENTS:

All technical sessions will be held in the **Ballroom** (Amberjack, Bonito & Sailfish rooms).

Exhibitors will be located in the **Gallery**. Tuesday Networking event will be held in the **Gallery**.

Breakfasts, Tuesday lunch, and Wednesday networking session will be located in the **Terrace**.



Accommodations at Jupiter Beach Resort:

If you made your room reservation using our group code (FLAWMA1021), the \$29.00 daily Resort Fee is waived. There is also complimentary Wi-Fi in the guest rooms and meeting areas.

Check-in at the Resort is 4:00 p.m. Early check-in is subject to availability. Check-out time is 11:00 a.m. Attendees desiring a late check-out must inform the Resort's Front Desk and will be handled on an individual basis, based on room availability. A late departure charge may apply.

Please contact the hotel directly if you have any questions or issues with your reservations or your room.



**THANK YOU
FOR YOUR PARTICIPATION**

**WE LOOK FORWARD TO SEEING YOU IN
TALLAHASSEE IN 2019**

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