



2021 FAEP Annual Conference Program

Wednesday, September 22nd



Keynote Speakers – Dr. Sylvia Earle and Liz Taylor **12:15 – 1:00 PM**

Dr. Sylvia Earle is an American marine biologist, oceanographer, explorer, author, and lecturer. Along with her daughter, Liz Taylor, Dr. Earle will present on her long career as an explorer and will discuss the work they do as part of their non-profit, Mission Blue.

Track 1 - Emerging Technologies

Emerging Location Intelligence for a Sustainable Future. **1:00 - 1:25 PM**

Anthony Puzzo, Team Lead, State Government, ESRI

Dr. Lakeisha Coleman, Solution Engineer, ESRI

Quantifying Storm Impacts on a Coastal Dune using UAVs: A case study of Hurricane Dorian in The Bahamas. **1:25 - 1:50 PM**

Leonard Barrera Allen, P.E., Project Engineer, Cummins Cederberg, Inc.

Environmental Use Cases utilizing 3D Mesh and Aerial Imagery. **1:50 - 2:15 PM**

Courtney Dobbertin, Regional Technical Manager, Eagleview

Mapping with Unmanned Aerial Vehicles (UAV's). **2:15 - 2:40 PM**

David O'Brien Jr., Professional Surveyor and Mapper, SurvTech Solutions, Inc.

Track 2 - Natural Resources

Aquifer Storage and Recovery for the Lake Okeechobee Watershed Restoration Project. **1:00 - 1:25 PM**

Bob Verrastro, Principal Hydrogeologist, South Florida Water Management District

An Analysis of Sea Turtle Nesting Before and After A Sand Placement Project in Broward County, FL. **1:25 - 1:50 PM**

Stephanie Kedzuf, Natural Resource Specialist, Broward County Environmental Planning and Community Resilience Division

State Assumption of the Federal 404 Permitting Program. **1:50 - 2:15 PM**

Susan Martin, Attorney/Partner, Nason Yeager Gerson Harris and Fumero

Nicole Gough, Environmental Manager, Dewberry Engineers, Inc.

Student Speed Talks

2:40 – 3:20 PM

Application of Microbial Communities for Bioremediation of Uranium Contaminated Soil Solutions.

Jada Hoyle-Gardner, Florida A&M University

Different Factors That Determine the Amount and Diversity of Honeybee Pollen.

Alexander Gregory, University of Central Florida

Reducing Plastic in Miami Beach through the Expansion of the #PlasticFreeMB Program.

Molly Rickles, University of Miami RSMAS

Plant Materials and Technology for Coastal Dune Restoration.

Hannah Turbiville, Florida Environmental & Land Services, Inc.

Indian River Lagoon Microbial Community.

Rene Miller-Xavier, Florida Atlantic University

Track 3 - Remediation

The New E1527-21 ASTM Phase 1 Site Assessment.

3:35 - 4:00 PM

Nicholas Albergo, P.E., Senior Advisor, GHD

Benzo(a)pyrene in the Urban Environment, Assessment, and Mitigation.

Steven Snyder, Senior Project Manager,
Partner Engineering and Science, Inc.

4:00 - 4:25 PM

How an Innovative Wastewater Nutrient Removal Technology is Protecting Tampa Bay.

Shawn Luton, BSCE, EIT, Vice President, NCLEAR, Inc.

4:25 - 4:50 PM

Track 4 - Resiliency

The Choice to Become More Resilient.

3:35 - 4:00 PM

Gary Lawrence, Director, Sustainable and Resilient Strategies, WGI
Michael Davis, Senior VP, Chief Strategy Officer, WGI

Statewide Living Shoreline Permit Database.

4:00 – 4: 25 PM

Danielle Irwin, Director, Cummins Cederberg, Inc.

Sea level Changes Mechanisms in the MPI-ESM under FAFMIP Forcing Conditions.
Xiaolin Zhang, Research Scientist, University of Hamburg **425 – 4:50 PM**



2021 FAEP Annual Conference Program
Thursday, September 23rd



The Value of Professional Society Leadership – FAEP Panel Discussion. 12:00 – 12:40 PM

National Association of Environmental Professionals (NAEP) Representative - Courtney Arena, Principal Environmental Scientist, Gannett Fleming, Inc.

Florida Association of Environmental Professionals (FAEP) Representative - Bruce Hasbrouck, Vice President, Environmental Services Director, Faller, Davis & Associates, Inc.

Treasure Coast Chapter Representative – Niki Desjardin, Director of Operations, Ecological Associates, Inc.

Track 1 - Emerging Technologies

Using Drones to Assess Biomechanics and Kinematics of Manta Ray Behavior.

Vicky Fong, Research Assistant, Marine Megafauna Foundation **2:40 – 3:05 PM**

Jessica Pate, Scientist, Marine Megafauna Foundation

Sarah L Hoffmann, Scientist, Merck Animal Health

Using GIS for Environmental Screening and Public Comment. 3:05 – 3:30 PM

Jeff Pearson, Geographic Discipline Leader, Colliers Engineering

Harmful Algae Bloom Mitigation and Nutrient Removal Technology. 3:30 – 3:55 PM

Trevor Campbell, Environmental Scientist, AECOM

Track 2 - Natural Resources

Imperiled Beach Nesting Bird Monitoring. 1:05 – 1:30 PM

Blair Hayman, Wildlife Diversity Conservation Biologist, FL Fish and Wildlife Conservation

The Environmental & Economic Aspects of Wetland Mitigation & Species. 1:30 – 1:50 PM

Victoria Colangelo, CEO, The Mitigation Banking Group, Inc.

Protection of Natural Resources within SFWMD. **2:40 – 3:05 PM**
Don Medellin Principal Scientist, South Florida Water Management District

Wildlife: Red-cockaded Woodpecker Conservation Efforts. **3:05 – 3:30 PM**
Christina Kontos, Fisheries and Wildlife Biological Scientist III, Florida Fish and Wildlife
Conservation Commission

Conehead Termite Eradication in Florida. **3:30 – 3:55 PM**
Katie Tenn, Field Entomologist, Florida Department of Agriculture and Consumer Services

Track 3 - Remediation

Beyond the Phase 1 ESA. **12:40 – 1:05 PM**
Patrick Ceres, P.E., Project Engineer, Geosyntec Consultants

Track 4 - Resiliency

Technical and Legal Perspectives on Coastal Resiliency and Adaptation. **12:40 – 1:30 PM**
Timothy Perry, Shareholder, Gardner, Bist, Bowden, Dee, Lavia, Wright, Perry & Harper, PA
Danielle Irwin, Director, Cummins Cederberg, Inc.

Coastal Conditions and Resiliency in Deerfield Beach. **1:30 – 1:55 PM**
Jordon Cheifet, P.E., Senior Engineer, Cummins Cederberg, Inc.

Specialized Certifications to Boost your Career Potential – A Panel Discussion.

3:55 – 4:45 PM

Academy of Board Certified Environmental Professional (ABCEP) - Elizabeth Johnson, Assistant
Manager, Orange County Environmental Protection Division

Professional Wetland Scientist (PWS) - Erik Neugaard, Environmental Compliance and
Stewardship Program Manager at Broward County Port Everglades

International Society of Arboriculture (ISA) –Kimberly Pearson, Parks Manager, City of Fort
Lauderdale

Envision Sustainability Professional (ENV SP) - Bob Beinstein, Vice President, ESG Market Lead,
Americas, AECOM

Waterfront Edge Design Guidelines (WEDG) – Karen Imas, Vice President of Programs, Waterfront
Alliance



2021 FAEP Annual Conference Field Trip Information



Friday, September 24

CHAPTER	TRIP TITLE/DESCRIPTION	TIME & LOCATION	OTHER INFO
Northwest	Estuary Kayak and Canoe Tour (Kayak and canoe tour with speaker Rick O’Conner) – <i>Max. Participants: 25</i>	Approx. 3-4 hours (1 p.m. to 5 p.m.), Meeting at Red Rock Rd., Milton, FL	BYOK; Carpooling encouraged; May be a shuttle to transport participants back to start point; Speaker – Rick O’Conner, Florida Sea Grant Agent
Tallahassee Area	Secrets of Lake Jackson (Tour of Sinkhole and Aquatic Preserve) – <i>Max. Participants: N/A</i>	Approx. 2.5 hours (2:30 p.m. to 5 p.m.), Meeting at the end of Lake Jackson’s Faulk Drive, Tallahassee, FL	Meeting Location (Google Maps): https://goo.gl/maps/vmFP6GzSUUWwEAu49 (Meet at the boat ramp)
Tampa Bay	Weedon Island Preserve Tour (see map for location) - <i>Max Participants: N/A</i>	10 a.m.- 1 p.m.	Bring your own water and lunch to eat together in classroom @ visitor’s center from 12-1pm. Wear suitable walking shoes. Questions? Contact: bhasbrouck@fallerdavis.com .
Treasure Coast	Gumbo Limbo Sea Turtle Rehabilitation Center Tour (Tour of sea turtle rehab center) – <i>Max. Participants: 20</i>	10 a.m. 1801 N Ocean Blvd, Boca Raton, FL 33432	
South	ORA/1000 Mermaids Artificial Reef Manufacturing Facility (Tour of the Ocean Rescue Alliance/1000 Mermaids Artificial Reef Project Manufacturing Facility and learn about the 1000 Mermaids Artificial Reef Public Eco-Art project: An underwater eco-friendly destination for tourism, research, and coral restoration) – <i>Max. Participants: N/A</i>	2 hours (10 a.m. to 12 p.m.), Meeting at 141 Commerce Rd., Boynton Beach, FL	Speaker – Shelby Thomas

**Please register for the field trips using the Eventbrite page (<https://www.eventbrite.com/e/faep-annual-conference-and-training-symposium-2021-tickets-163743694799>) to select and register for your field trip of choice. You may register for more than one field trip.*



2021 FAEP Annual Conference Workshop Information



Friday, September 24

CHAPTER	TRIP TITLE/DESCRIPTION	TIME & LOCATION	OTHER INFO
Tallahassee Area	Environmental Considerations Prior to Development, What you Need to Know	10:00 – 11:00 AM, virtual	Presenter – Elva Peppers
Treasure Coast	Master Your Tech	12:00 – 1:00 PM, virtual	Presenter – Kathryn Rossmell Master your skills at inbox management, efficiency, team coordination,
	Python capture training – Max. Participants: 15	10:00 AM - 1:00 PM, in person 8535 Northlake Boulevard West Palm Beach, FL 33412	Participants must complete a virtual training prior to the in-person workshop. Details available on Eventbrite page.
South	Coral Reef ID (FDEP SEAFAN BleachWatch Coral Species and Coral Disease Identification Course)	2:00 – 4:00 PM, virtual	Presenter – Erik Neugaard Please see https://floridadep.gov/rcp/coral/content/bleachwatch about the course. This will be the complete classroom session. Arrangements will be made for interested students to also later complete the optional in-water session at their convenience. Please also see https://www.facebook.com/groups/1223480757731557 for more information about the SFAEP Community Coral Nursery Project!

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