



# lake worth lagoon SCIENCE SYMPOSIUM

**Tuesday, November 15, 2022**

[Marina Village Event Center, 200 E. 13th St, Riviera Beach, FL 33404]

7:30	<b>Doors Open: Attendee Arrival and Registration</b>	
7:30-8:30	<b>Coffee, Tea &amp; Networking with Sponsors in the Pre-function Area</b>	
8:30 - 9:35	<b>OPENING GENERAL SESSION</b> [Newcomb Hall Ballroom]	
8:30	Welcome — <b>Mayra Ashton</b> , Palm Beach County Environmental Resources Management	
8:35	Introduction — <b>Deborah Drum</b> , Department Director, Palm Beach County Environmental Resources Management	
8:50	Federal Partnering on Eco-Island Creation within Lake Worth Lagoon, <b>LCT Todd F. Polk</b> , U.S. Army Corps of Engineers	
9:05	Lake Worth Lagoon Wildlife Interconnectivity, <b>Thomas Reinert</b> , Florida Fish and Wildlife Conservation Commission	
9:20	Assessing Climate Change Vulnerabilities and Impacts in Southeast Palm Beach County and Beyond, <b>Megan Houston and Lindsey Nieratka</b> , Palm Beach County Office of Resilience and City of Boca Raton Office of Sustainability	
9:35-10:05	<b>Morning Refreshment Break &amp; Networking</b>	
<b>CONCURRENT SESSIONS</b>		
	<b>SESSION 1</b>	<b>SESSION 2</b>
	<b>[Newcomb Hall East]</b>	<b>[Newcomb Hall West]</b>
<b>10:05-11:55</b>	<b>Habitat &amp; Biological Resources</b>	<b>Water &amp; Sediment Resources</b>
<b>Moderator</b>	<b>Erin McDevitt</b> , Florida Fish and Wildlife Conservation Commission	<b>Phyllis Klarmann</b> , South Florida Water Management District
10:05	<b>Session Introduction</b>	<b>Session Introduction</b>
10:10	Status of Seagrasses in the Lake Worth Lagoon: Palm Beach County's Long-Term Monitoring Program — <b>Cheryl Miller</b> , Coastal Eco Group	Water Quality Patterns and Trends in Lake Worth Lagoon and Northern Biscayne Bay — <b>Christopher Buzzelli</b> , Coastal Ecosystems, LLC.
10:25	Historical Manatee Use and FPL's Riviera Beach Energy Center — <b>Kristin Eaton</b> , Florida Power and Light Company	Changes in Nitrogen and Phosphorus within a Decade in Waters along a Major Canal and Estuary in South Florida — <b>Mohsen Tootoonchi</b> , University of Florida
10:40	A History of Fisheries Monitoring Effort in Lake Worth Lagoon, Palm Beach County, Florida — <b>Jacob Schneider</b> , Florida Fish and Wildlife Conservation Commission	C-51 Reservoir Project- Benefits to LWL and the Loxahatchee River — <b>Ernie Cox</b> , Family Lands Remembered, LLC.
10:55	Establishing an Acoustic Footprint in Lake Worth Lagoon Through Collaboration — <b>Sarah Webb</b> , Florida Fish and Wildlife Conservation Commission	C-51 Sediment Trap - Preventing Sediment Loading to Lake Worth Lagoon — <b>Tom Conboy</b> , South Florida Engineering and Consulting
11:10	Green Turtles ( <i>Chelonia mydas</i> ) in an Urban Estuary System: Lake Worth Lagoon, Florida — <b>Jeffrey Guertin</b> , Inwater Research Group, Inc.	PBC-ERM's Role in Water Quality Monitoring Efforts for the Lake Worth Lagoon — <b>Aleah Ardelean</b> , Palm Beach County Environmental Resources Management
11:25	Research and Conservation of South Florida's Juvenile Manta Rays — <b>Jessica Pate</b> , Marine Megafauna Foundation	Microplastics in the Surface Waters and Mangrove Sediments of the Lake Worth Lagoon — <b>Kayla O'Brien</b> , Florida Atlantic University
11:40	Shorebirds, Seabirds, and Management at the Lake Worth Lagoon — <b>Kimberly Rigano</b> , Florida Fish and Wildlife Conservation Commission	Historical Changes in the Lake Worth Inlet Flood Shoal — <b>Leonard Barrera Allen</b> , Cummins Cederberg, Inc.
11:55-1:05	<b>Group Luncheon on the Rooftop Terrace</b>	

CONCURRENT SESSIONS		
	SESSION 3	SESSION 4
	[Newcomb Hall East]	[Newcomb Hall West]
1:05 - 2:55	<b>Environmental Restoration &amp; Enhancement</b>	<b>Education, Public Outreach &amp; Partnerships</b>
<b>Moderator</b>	<b>Jennifer Baez</b> , Palm Beach County Environmental Resources Management	<b>Alicia Andersen</b> , Palm Beach County Environmental Resources Management
1:05	<b>Session Introduction</b>	<b>Session Introduction</b>
1:10	Evaluation of Shoreline Conditions of Lake Worth Lagoon — <b>Melinda Donnelly</b> , University of Central Florida	Sustainable Education: A Local Case Study in an Educational Paradigm Shift — <b>Melissa Landis</b> , Lake Worth Waterkeeper
1:25	An Overview of Coral Monitoring, Restoration, and Education Efforts At Peanut Island — <b>Leneita Fix</b> , The Reef Institute	Virtual LIVE Field Trips: Connecting Kids with Nature — <b>Benji Studt</b> , Palm Beach County Environmental Resources Management
1:40	17 Years of Oyster Monitoring in the Lake Worth Lagoon — <b>Nicole Maloney</b> , Florida Fish and Wildlife Conservation Commission	Using Citizen Science to Investigate Marine Debris Motion in the Lake Worth Lagoon Region — <b>Amanda Waite</b> , ANGARI Foundation
1:55	Lake Worth Lagoon Restoration: Partnerships and Beneficial Reuse of Dredge Material at Tarpon Cove — <b>Eric Anderson</b> , Palm Beach County Environmental Resources Management	Manatee Lagoon: The Importance of Public Education and Outreach during an Unusual Mortality Event — <b>Rachel Shanker</b> , Manatee Lagoon
2:10	The American Oystercatcher and Lake Worth Lagoon Habitat Restoration: A Fortuitous History of Success — <b>David Carson</b> , Palm Beach County Environmental Resources Management	Building an Innovative Resilient Island through a Public-Private-NGO Partnership — <b>Joseph Schmidt</b> , The Nature Conservancy
2:25	The Harbor Branch Seagrass Nursery for Seagrass Restoration in the Indian River Lagoon — <b>Dennis Hanisak</b> , Florida Atlantic University Harbor Branch Oceanographic Institute	Visualizing Sea Level Rise in West Palm Beach — <b>Serena Hoemann</b> , Florida Atlantic University
2:40	Can Submerged Aquatic Vegetation be a Tool? — <b>Ryan Brushwood</b> , Sea & Shoreline, LLC.	Currie Park: Parks Equity and Resiliency in West Palm Beach — <b>Cristobal Betancourt</b> , Chen Moore and Associates
2:55 - 3:25	<b>Afternoon Refreshment Break &amp; Networking</b>	
3:25	<p><b>General Session:</b> [Newcomb Hall Ballroom]</p> <p><b>"Estuary Partner Panel – The Future of Florida Estuaries "</b> Moderator: <b>Matt Mitchell</b>, Palm Beach County Environmental Resources Management</p> <p><b>PANELISTS:</b> <b>Albrey Arrington</b>, Loxahatchee River District <b>Irela Bague</b>, Biscayne Bay <b>Jennifer Hecker</b>, Coastal and Heartland National Estuary Partnership <b>Deborah Drum</b>, Lake Worth Lagoon <b>Kathy Hill</b>, Indian River Lagoon National Estuary</p>	
4:15	<p><b>Featured Presentation:</b> Conservation through Collaboration, <b>Tom Twyford</b>, West Palm Beach Fishing Club</p>	
4:30	<p><b>Presentation of the Melissa Laser Fish Habitat Conservation Award</b> <b>Kent Smith</b>, Florida Fish &amp; Wildlife Conservation Commission (FFWCC) on behalf of the Atlantic Coast Fish Habitat Conservation</p> <p>This award is bestowed annually upon individuals deemed to further the conservation, protection, restoration, and enhancement of habitat for native Atlantic coastal, estuarine-dependent, and diadromous fishes in a unique or extraordinary manner. The award was established in memory of Dr. Melissa Laser, who was a biologist with the Maine Department of Marine Resources where she worked tirelessly to protect, improve, and restore aquatic ecosystems in Maine and along the entire Atlantic coast.</p>	
4:40	Closing Remarks — <b>Mayra Ashton</b> , Palm Beach County Environmental Resources Management	
4:45	<b>Sessions Conclude</b> (Sponsors Remove Displays)	
5:00-7:00	<b>Poster Session Social at Manatee Lagoon - An FPL Eco-Discovery Center</b> [6000 N. Flagler Drive, West Palm Beach, FL 33407]	
7:00	<b>SYMPOSIUM CONCLUDES</b>	