



**Florida Lake Management Society  
29<sup>th</sup> Annual Technical Symposium**

**August 28-31, 2018**

**Westin Fort Lauderdale Beach Resort**

*Program Theme:*

*Managing Impacts to our Water Resources*

**DRAFT**

**SYMPOSIUM AGENDA**

(Subject to change)

## TUESDAY – August 28, 2018- WORKSHOPS

8:00 AM-5:00 PM	<b>Check-In and Registration</b> (Atlantic Foyer)
8:15 am – 12:15 pm	<b>Workshop 1: Freshwater Fish of Florida Identification.</b> Rob Robins, Collections Manager, Florida Museum of Natural History and Co-Author of <i>Fishes in the Fresh Waters of Florida, An Identification Guide and Atlas 2018</i>
8:15 am – 12:15 pm	<b>Workshop 2: Algal Identification in the Environment.</b> Dr. Dail Laughinghouse, Assistant Professor and Mr. David Berthold, M.S., Biological Scientist – Applied Phycology, University of Florida/IFAS, Fort Lauderdale Research and Education Center
8:15 am – 12:15 pm	<b>Workshop 3: Using Drones in Environmental Applications.</b> Dr. Serge Thomas, Assistant Professor for Environmental Studies, Florida Gulf Coast University
10:00 – 10:15 am	<b>MORNING BREAK</b>
12:15 – 1:00 pm	<b>LUNCH</b> ( <i>provided with full-day Workshop registration</i> )
2:45 – 3:00 pm	<b>AFTERNOON BREAK</b>
1:00 pm –5:00 pm	<b>Workshop 4: Invasive Plant Identification and Management.</b> Dr. Lyn Gettys, Assistant Professor – Aquatic and Wetland Plant Science, University of Florida Fort Lauderdale Research and Education Center ( <i>Workshop will be held at UF/IFAS FLREC Facility, 3205 College Ave., Davie, FL 33314</i> )
1:00 pm–5:00 pm	<b>Workshop 5: Stormwater BMP Selection to Maximize Removal of Target Pollutants-</b> Harvey H. Harper, Ph.D., P.E. – President, Environmental Research & Design, Inc.

**WEDNESDAY – August 29, 2018 MORNING – SYMPOSIUM**

(\* - Denotes student paper)

8:00 AM-5:00 PM **Check-In and Registration** (Atlantic Foyer)

7:00 AM-8:30 AM **Breakfast** (Atlantic Ballroom I-III)

**Opening Program** (Atlantic Ballroom IV-VI)

8:30-8:45 AM **Welcome & Opening Remarks:** Sergio Duarte, Outgoing FLMS President

8:45-10:00 AM **Keynote Speakers:** Lyn Gettys, Ph.D- Assistant Professor of Aquatic and Wetland Plant Science, University of Florida Center for Aquatic and Invasive Plants

Dr. Gettys will discuss introduction pathways for invasive aquatic plants. She will focus on how these plants got into our waters and the problems they can cause.

10:00-10:30 AM **MORNING BREAK** (Exhibit Hall-Atlantic Ballroom I-III)

**Program Track A: Water Resources Science and Technology** (Atlantic Ballroom IV-VI)

**Session A1: Restoration Science and Management**

Moderator:

10:30-10:35 AM *Session Introduction-*

10:35-10:50 AM Estimating Lake Okeechobee's Temporally Changing Marsh Extent using Remote Sensed Data-*Richard Botta*

10:50-11:05 AM The SJRWMD Springs Protection Initiative-Linking Science and Restoration-*Rob Mattson*

11:05-11:20 AM History of Gizzard Shad Harvesting as a Restoration Tool in St. Johns River Basin Lakes-*Steven Miller*

11:20-11:35 AM Passive Steps Towards Floodplain Restoration - The Story Continues -*Danielle Honour/Shannon Wetzel*

11:35-11:50 AM Elements of an Effective Lake Monitoring Program-*Harvey Harper*

11:50-12:00 PM *Session Q&A*

12:00-1:30 PM Annual Business Luncheon (Atlantic Ballroom I-III)

**WEDNESDAY – August 29, 2018 AFTERNOON**

**Program Track B: Watershed and Water Resources Management** (Atlantic Ballroom IV-VI)

**Session B1: NPDES**

Moderator: Shannon Wetzel

- 1:30-1:35 PM      *Session Introduction*
- 1:35-1:50 PM      Demonstrating MS4 Effectiveness-Steve Cioccia
- 1:50-2:05 PM      Incorporating Pollutant Loading Data into MS4 Assessment Program-  
Robert Potts
- 2:05-2:20 PM      TMDL and MS4 Compliance-Shannon Wetzel
- 2:20-2:35 PM      4E Plan Development and Implementation-Rob Burnes
- 2:35-2:50 PM      Improving Watersheds through Citizen and Industry Outreach-Ryan Ryczek
- 2:50-3:00 PM      *Session Q&A*

**Track B: Watershed and Water Resources Management** (Atlantic Ballroom IV-VI)

**Session B2: Restoration Science and Management**

Moderator:

- 3:00-3:05 PM      *Session Introduction*
- 3:05-3:20 PM      Evaluating Different Salt Sources as Seawater Proxies to Facilitate  
Greenhouse-Based Sea Level Rise Research-Mohsen Tootoonchi\*
- 3:20-3:35 PM      Cyanotoxin Patterns in The St. Johns River Estuary-Tiffany Trent
- 3:35-3:50 PM      Title to be Determined-Mary Szafeaniec
- 3:50-4:05 PM      Science before Projects: Decision-Tree Support Tool to Drive Lake  
Management-Emily Keenan
- 4:05-4:15 PM      *Session Q&A*

4:15-4:45 PM	<b>AFTERNOON BREAK</b> (Exhibit Hall- Atlantic Ballroom I-III)
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**WEDNESDAY – August 29, 2018 AFTERNOON (Cont.)**

**Track B: Watershed and Water Resources Management** (Atlantic Ballroom IV-VI)

**Session B3: Hurricane Management Response**

Moderator: Gary Russ

- 4:45-4:50 PM      *Session Introduction*
- 4:50-5:20 PM      U.S. Army Corps of Engineer's pre and post actions regarding Hurricane Irma- Gary Russ/Almur Whiting IV, P.E.
- 5:20-5:35 PM      Private Sector Hurricane Response-Robbin Huffines
- 5:35-5:50 PM      Title TBD -Mitch Smeykal
- 5:50-6:00 PM      *Session Q&A*

**WEDNESDAY - August 29, 2018 EVENING**

6:00-8:00 PM	<b>EXHIBITORS' SOCIAL</b> (Exhibit Hall – Atlantic Ballroom I-III)
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6:00-8:00 PM      **Session 4: Poster Session** (Exhibit Hall – Atlantic Ballroom I-III)  
Session Leads:

**THURSDAY - August 30, 2018 MORNING**

(\* - Denotes student paper)

8:00 AM-5:00 PM **Check-In and Registration** (Atlantic Foyer)

7:00 AM-8:30 AM **Breakfast** (Atlantic Ballroom I-III)

**Morning Program** (Atlantic Ballroom IV-VI)

8:45-9:00 AM **Announcements:** Rob Burnes, Incoming FLMS President

9:00 -10:00 AM **Keynote Speaker:** Karl Havens Ph.D, Professor, University of Florida  
IFAS, Director Florida Sea Grant College Program  
Dr. Havens will discuss the potential effects that climate change could have on shallow Florida lakes due to such factors as increased temperature, increased ET, and greater extremes in wet/dry periods.

10:00-10:30 AM **MORNING BREAK** (Exhibit Hall – Atlantic Ballroom I-III)

**Program Track A: Water Resources Science and Technology** (Atlantic Ballroom IV-VI)

**Session A2: Lake Apopka-Restoration Science and Management**

Moderator:

10:30-10:35 AM *Session Introduction*

10:35-10:50 AM Results of Innovative Restoration Techniques at Lake Apopka, Florida  
*-Erich Marzolf Ph.D*

10:50-11:05 AM Let there be light: light extinction, water quality, and SAV in Lakes Apopka and Griffin-*Rolland Fulton*

11:05-11:20 AM Deconstructing Underwater Light Extinction In Lake Apopka, FL-*Michael Coveney*

11:20-11:35 AM The Role of Gizzard Shad Harvesting in the Restoration of Lake Apopka -  
*-Dean Dobberfuhr Ph.D*

11:35-11:50 AM What has Limited SAV Colonization in Lake Apopka, FL-*Michael Coveney*

11:50-12:00 PM *Session Q&A*

12:00-1:30 PM **FLMS Annual Awards Luncheon** (Atlantic Ballroom I-III)

**THURSDAY – August 30, 2018 AFTERNOON**

**Program Track A: Water Resources Science and Technology** (Atlantic Ballroom IV-VI)

**Session A3: Water Resources Innovation and Technology**

Moderator:

- 1:30-1:35 PM      *Session Introduction*
- 1:35-1:50 PM      Making Water Quality Data More Accessible and More Useful-John Maxted
- 1:50-2:05 PM      An Innovative In-Lake Alum Addition System to Improve Lake Water Quality and Enhance Effectiveness of Wet Detention Ponds-Harvey Harper
- 2:05-2:20 PM      Using Integrated Software Applications and GIS Solutions to Collect, Analyze and Present Long-Term Monitoring Data-Arte Roman
- 2:20-2:35 PM      Using Machine Learning and Geostatistics to Overcome Lack of Data in Assessing Hydrologic Recovery of Unmonitored Lakes and Wetlands-Dan Schmutz
- 2:35-2:50 PM      An Assessment of The Lowerance Sonar Data Collection and Biobase Data Processing System for Detecting Submerged Aquatic Vegetation in a Soft Bottom Central Florida Lake-John Stenberg
- 2:50-3:00 PM      *Session Q&A*

3:00-3:25 PM	<b>AFTERNOON BREAK</b> (Exhibit Hall –Atlantic Ballroom I-III)
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**THURSDAY – August 30, 2018 AFTERNOON (Cont.)**

**Program Track B: Watershed and Water Resources Management** (Atlantic Ballroom IV-VI)

**Session B4: Aquatic Plants Assessments and Harmful Algae - DACS CEUs Private**

**Applicator Ag or Aquatic Weed Control 1.5**

Moderator:

- 3:25-3:30 PM      *Session Introduction*
- 3:30-3:45 PM      Can Herbicide Usage be Reduced with Herbivory Pressure from  
Biocontrol Agents? - Sam Sardes
- 3:45-4:00 PM      Glyphosate: Friend of Foe? - Jason Ferrell
- 4:00-4:15 PM      Aeration for Algae Control: The Importance of Design and Mixing Depth  
- Patrick Goodwin
- 4:15-4:30 PM      Crested Floatingheart Reproductive Biology - Ian Markovich\*
- 4:30-4:55 PM      Field Identification of Algae - H. Dail Laughinghouse IV, Ph.D/David  
Berthold
- 4:55-5:00 PM      *Session Q&A*

5:00-6:00 PM	FLMS Board Meeting - Board Room
7:00-8:30 PM	Evening Student Fundraiser & Downtown Dine-Around



**FRIDAY – August 31, 2018 MORNING**

8:00 AM-12:00 PM **Check-In and Registration** (Atlantic Foyer)

8:00 AM-9:00 AM **Breakfast** (Atlantic Ballroom I-III)

8:45-8:55 AM Announcements:

**Program Track B: Watershed and Water Resources Management** (Atlantic Ballroom IV-VI)

**Session A4: Nutrient Reduction and Management**

Moderator:

8:55-9:00 AM *Session Introduction*

9:00-9:15 AM The use of UAVs to help improve our understanding of the limnology of urban stormwater ponds-*Serge Thomas Ph.D*

9:15-9:30 AM Canal Sediment Contaminants on Seminole Reservations-What's in your Sediment?-*Bryan Cotter*

9:30-9:45 AM Polymer BMP Use in Florida-*Eddie Snell*

9:45-10:00 AM Monitoring the response of Sunshine Lake to implementation of identified projects in the water quality management plan: Did it work?-*Dave Tomasko*

10:00-10:15 AM It's not Just the Mercury-Contaminants in Fish and Critters Traditionally Consumed by Seminole Tribe Members-*Charles Fellows*

10:15-10:25 AM *Session Q&A*

10:25-10:40 AM **MORNING BREAK** (Exhibit Hall – Atlantic Foyer)

**Program Track B: Watershed and Water Resources Management** (Atlantic Ballroom IV-VI)

**Session B5: Outreach and Volunteer Programs**

Moderator:

10:40-10:45 AM *Session Introduction*

10:45-11:00 AM Lake County Adopt-a-Lake Program-Volunteer Monitoring-*Cathie Catusus*

11:00-11:15 AM Restoration of Show-Case Stormwater Ponds - A Community Effort-*Ernie Franke*

11:15-11:30 AM The Member Owned Inlet Beach Water System, The Walton County Owned Regional Utilities, The Outstanding Florida Water Lake Powell And The Conflict and Dilemma.-*Richard Bryan*

11:30-11:40 AM *Session Q&A*

11:40 -12:00 PM	Student Awards and Closing Remarks – Rob Burnes, FLMS President
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