



2011 FLERA Annual Conference  
July 27 – 29, 2011  
Hyatt Regency – Sarasota, Florida

*Protecting Natural Resources in a Changing Regulatory Environment*



**Join Us in Sarasota**  
***Same Place, New Ideas...Come See the Difference a Year Makes!***  
*Go to page 10 for a list of popular local attractions!*

# 2011 FLERA ANNUAL CONFERENCE

WEDNESDAY, JULY 27<sup>th</sup>

## PRE-CONFERENCE (10:30 a.m. – 12:00 p.m.)

### 9:00 a.m. – 10:30 a.m. Pre-Conference Registration Open

### 10:30 a.m. – 11:30 a.m. Tour of Mote Marine Laboratory (*Limited Number of Spaces!*)

Mote Marine Laboratory is a nationally recognized, independent, nonprofit organization dedicated to excellence in marine science and education. The Research Division consists of seven Research Centers including: The Center for Coastal Ecology; Marine Mammal and Sea Turtle Research; Shark Research; Ecotoxicology; Fisheries Enhancement; Coral Reef Research; and, Aquaculture Research and Development. There will be two one-hour tours of Mote's Sarasota Laboratory, starting at 10:30 a.m. Please check in early at the conference registration desk the day of the tour for details. Transportation to Mote Marine Lab is not provided. Space is limited!

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## REGULAR CONFERENCE (1:00 p.m. – 5:10 p.m.)

### 9:00 a.m. – 5:00 p.m. Conference Registration Open

### 10:00 a.m. – 11:30 a.m. FLERA Board Meeting

### 12:00 p.m. – 5:00 p.m. Silent Auction Open

### 12:00 p.m. - 5:00 p.m. Exhibits Open

### 1:00 p.m. – 1:30 p.m. Opening Address

*Keynote: Herschel Vinyard, Secretary (invited)  
Florida Department of Environmental Protection*

### 1:30 p.m. - 2:30 p.m. 2011 Legislative Session Wrap-Up

This session will feature a panel discussion providing an overview of the 2011 Florida Legislative Session. Successes and failures of environmental measures, and a detailed discussion of legislation covering a wide variety of related subject matter will be presented in an informative, interactive format by persons familiar with "The Process."

*Rick Tschantz, General Counsel  
Hillsborough County EPC*

*Janet Bowman, Esq., Director of Legislative Policy  
The Nature Conservancy*

*Stephen James, Legislative Staff Attorney  
Florida Association of Counties*

### 2:30 p.m. – 3:00 p.m. Break - Silent Auction & Exhibits

### 3:00 p.m. – 3:40 p.m. Sea Level Rise and Florida's Coasts

This presentation summarizes an updated review by the Florida Oceans and Coastal Council, concerning effects of sea level rise on the state's coastal resources.

*Karl Havens, PhD, Director  
Florida Sea Grant College Program*



## WEDNESDAY, JULY 27<sup>th</sup> (continued)

**3:45 p.m. - 4:25 p.m. Living Shorelines: Promoting a Softer Approach for Shoreline Protection**  
Coastal erosion is an issue of importance to the habitat restoration community throughout Florida. Where appropriate, Living Shorelines can provide an attractive shoreline management option that provides erosion control benefits, while restoring natural shoreline habitat and function.

*Debbie DeVore, South Florida Coastal Program Coordinator  
US Fish and Wildlife Service*

**4:30 p.m. – 5:10 p.m. West Lake Park: A Successful Habitat Restoration**  
West Lake Park is a coastal wetlands habitat restoration project that has successfully spanned over 20 years of ever changing regulatory permitting and compliance issues.

*Dylan Larson, PWS, CEP, Principal  
Miller Legg  
Jennifer Shipley, Environmental Specialist  
Miller Legg*

**5:10 p.m. - 6:30 p.m. Welcome Reception in Exhibit Area**

## THURSDAY, JULY 28<sup>th</sup>

**8:00 a.m. – 5:00 p.m. Conference Registration Open**

**8:00 a.m. – 8:30 a.m. Free Continental Breakfast for FLERA Hyatt Sarasota guests**  
*(voucher will be provided at hotel check-in)*

**8:30 a.m. – 3:30 p.m. Silent Auction**

**8:30 a.m. – 5:00 p.m. Exhibits Open**

**8:30 a.m. – 9:10 a.m. Lake Beauclair Aquatic Enhancement: From Permitting to Bid Selection**  
*[Resource Protection]*  
Dredging projects are demonstrated to provide water quality, habitat enhancement and navigation benefits. This presentation discusses achieving these project objectives while balancing implementation complexities during bidding.

*Karen Warner, Hydro-Ecologist  
AMEC-BCI Engineers & Scientists*

**8:30 a.m. – 9:10 a.m. Biofiltration Processes for Onsite Wastewater Nitrogen Reduction**  
*[Water Resources]*  
This presentation will present the results of an ongoing pilot study funded by FDOH to evaluate biofiltration systems that enhance nitrogen reduction in onsite wastewater treatment systems.

*Daniel Smith, PhD, PE, DEE, President  
Applied Environmental Technology*

**9:15 a.m. – 9:55 a.m. Sustainable Waterfront Systems - Case Studies**  
*[Resource Protection]*  
A review of locations advocating a 'clean waterfront' system approach to construction. Benchmark data for best management practices (BMPs) is presented.

*Danielle Fondren, President, DHF Consulting  
TECHBlue Center*



**9:15 a.m. – 9:55 a.m.**

*[Water Resources]*

**Emerging Contaminants in our Water Resources**

The ubiquitous presence of pharmaceuticals and personal care products (PPCPs) and endocrine disrupting compounds (EDCs) in waters has been scientifically verified and reported by the media. Data show that these emerging contaminants are present in surface water, groundwater and drinking water. The presentation will review the subject of emerging contaminants, including their presence in the environment as well as surface and subsurface migration phenomena. Field study results will also be presented.

*Chad Drummond, PE, Associate  
Geosyntec*

**9:55 a.m. – 10:30 a.m.**

**Break in Exhibit Area**

**10:30 a.m. – 11:10 a.m.**

*[Resource Protection]*

**Product Stewardship: A National Update and Next Steps for Florida**

Paint products are second only to used motor oil in materials handled through Florida Household Hazardous waste collection programs. A new agreement between the Florida Caribbean NAHMMA Chapter and the Product Stewardship Institute (PSI) will promote a new paint stewardship program in Florida. PSI will provide general services to staff of local governments. The Florida Caribbean NAHMMA Chapter will secure sponsors for the initiative.

*Al Gomez, Natural Resource Specialist III, Pollution Prevention,  
Remediation & Air Quality Division, Broward County*

*Rita Perini, Environmental Scientist  
Brevard County Solid Waste Operations Division*

**10:30 a.m. – 11:10 a.m.**

*[Land Management]*

**West Dearborn Street Low Impact Development Pilot Project**

The presentation will provide an overview of the first pilot project to implement Sarasota County's Low Impact Design Manual involving new methodologies for community and environmental benefits.

*Adnan Javed, PE, Project Manager  
Sarasota County Capital Management Services*

*Kreg Maheu, PE, Senior Associate  
DMK Associates*

*Elaine A. Miller, RA, President  
Suncoast Architect*

*Beresford W. Powell, PE, President  
Axis Engineering*

**11:15 a.m. – 11:55 a.m.**

*[Resource Protection]*

**CHNEP Shellfish Restoration Needs Development**

A summary of the CHNEP process and progress toward developing a comprehensive approach to shellfish restoration in its 11 estuaries will be presented.

*Judy Ott, Program Scientist  
Charlotte Harbor National Estuary Program*



- 11:15 a.m. – 11:55 a.m.** **Step Outside the Box - Creative Uses for Brownfield Assessment Funding**  
*[Land Management]* Each EPA Brownfield Assessment Grant is unique and the funding can be used in your community in very creative ways. Come find out how to obtain funding, utilize the funds to improve your community and create a robust Brownfield program.  
*Teri Hasbrouck, Senior Scientist*  
*Environmental Consulting & Technologies*
- 11:55 a.m. – 1:10 p.m.** **Awards Luncheon**  
*Environmental Leadership and Commissioner Leadership Award*
- 1:10 p.m. – 1:50 p.m.** **Orange County's Residential & Commercial Energy Efficiency Programs**  
*[Energy Efficiency]* Orange County's residential and commercial energy efficiency programs have received national recognition. Lessons learned that can be applied to other local governments will be presented.  
*Lori Cunniff, CEP, CHMM, Manager*  
*Orange County, Environmental Protection Division*
- 1:10 p.m. – 1:50 p.m.** **Aquifer Recharge and Replenishment - Giving Groundwater Systems a Shot in the Arm**  
*[Water Resources]* The advantages of increasing groundwater recharge for replenishing aquifer systems will be reviewed along with a discussion of the types of projects and considerations for promoting and implementing AR projects.  
*Allan Biddlecomb, PG, Senior Project Manager*  
*AMEC-BCI Engineers & Scientists*
- 1:55 p.m. – 3:05 p.m.** **Reducing Residential Energy Consumption in Florida's Existing Home Stock**  
*[Energy Efficiency]* The presentation will examine how inefficient energy usage among Florida's six million existing homes can be addressed through government programs and innovative building practices.  
*Jennifer Languell, PhD, Founder and President*  
*Trifecta Construction Solutions*
- 1:55 p.m. – 3:05 p.m.** **Wastewater Collection, Treatment and Disposal/Reuse for Sustainable Development**  
*[Water Resources]* The session will review recent advances in the performance of on-site technologies that offer cost effective and environmentally sound treatment and disposal/reuse of wastewater for new or failing specific systems.  
*David Tarbox, PG, PHG, Senior Professional Hydrologist/Partner*  
*HAS Engineers & Scientists*
- 3:05 p.m. – 3:35 p.m.** **Break in Exhibit Area**  
*Make your final bids during this break - the Silent Auction ends at 3:35 p.m.!*

## THURSDAY, JULY 28<sup>th</sup> *(continued)*

**3:35 p.m. – 4:15 p.m.**    **Marine Research Topic coordinated by Mote Marine**  
*[Marine Research]*

**3:35 p.m. – 4:15 p.m.**    **County-wide Habitat Conservation Plans Under the ESA Section 6 Planning Grant**  
*[Resource Protection]*

Case studies of three HCPs currently being developed for local governments under the Section 6 Planning Grant. This process provides for a regional approach to protection of wildlife resources while allowing for economic growth.

*Vivienne Handy, Principal Ecologist  
Quest Ecology*

**4:20 p.m. – 5:00 p.m.**    **Marine Research Topic coordinated by Mote Marine**  
*[Marine Research]*

**4:20 p.m. – 5:00 p.m.**    **Reforestation of Public Lands Using Private Mitigation**  
*[Resource Protection]*

The presentation will illustrate how the removal of native trees from private development properties can provide reforestation benefits to public conservation lands with the cooperation of the local government.

*Jerry Renick, Principal  
Land Design South*

**6:00 p.m. – 8:00 p.m.**    **Dinner Reception at Mote Marine Laboratory**

Join us at Mote Marine Laboratory for great food, fun and networking. Casual dress is recommended so bring your flip-flops and shorts. Mote is located at 1600 Ken Thompson Parkway, a 4-mile drive from the conference hotel. Transportation is not provided.

## FRIDAY, JULY 29<sup>th</sup>

**8:00 a.m. – 10:00 a.m.**    **Conference Registration Open**

**8:00 a.m. – 8:30 a.m.**    **Free Continental Breakfast for FLERA Hyatt Sarasota guests**  
*(voucher will be provided at hotel check-in)*

**8:00 a.m. – 10:40 a.m.**    **Exhibits Open**

**8:30 a.m. – 9:00 a.m.**    **FLERA Annual Business Meeting**

**9:00 a.m. – 9:40 a.m.**    **Building Sustainability Success**

This presentation will answer common questions and issues that many organizations face concerning program and strategic development in sustainability. Showing valuable case studies of various projects and programs, attendees will be able to successfully plan and manage their own sustainability initiatives.

*Alexa Stone, LEED, AP, Principal  
ecoPreserve*

*Jeff Benavides, LEED, AP, Project Manager  
ecoPreserve*



**9:45 a.m. – 10:25 a.m. The Changing Face of Growth Management and Natural Resource Regulation**

The presentation will provide a brief historical review of recent growth management mandates and a more lengthy legal update on the revisions to Chapter 163 (Local Government Comprehensive Planning and Land Development Regulation Act) and Chapter 380 (Development of Regional Impacts) of the Florida Statutes, as amended during the 2011 Legislative Session.

*Jennifer Cowan, Esq., Attorney  
Lewis, Longman & Walker, PA*

**10:25 a.m. - 10:40 a.m. Break in Exhibit Hall**

**10:40 a.m. – 11:20 a.m. Osceola County's Energy Efficient Loan Program**

This presentation will provide a progress report on the design and implementation of Osceola County's Energy Efficient Finance Program that covers the residential, commercial and industrial sectors. A discussion of opportunities for adapting the program for application in other jurisdictions will be provided.

*Pierce Jones, PhD, Director  
UF, Program for Resource Efficient Communities*

**11:20 a.m. Conference Adjourned**



## FLERA 2011 Annual Conference Details

### Who Should Attend?

Professional Staff and Elected Officials from Cities, Counties and Special Districts; Scientists, Engineers, Consultants, Environmental Managers and Planners in both the public and private sectors; and, Staff from Regional Planning Councils, Water Management Districts and State Agencies; and, members of environmental groups.

### Registration & Discounts

The registration fee includes all sessions, conference materials, breaks, networking opportunities, informative exhibits, a Welcome Reception, a Silent Auction, the option of a pre-conference tour of Mote Marine Laboratory, a luncheon, and a Dinner Reception at Mote Marine Aquarium. FLERA is making every effort to keep costs down and pass the savings on to you! We are offering several ways to save:

- Send 3 people from the same organization and **get the 4<sup>th</sup> person FREE!**
- Cover both tracks and save. **Receive a 10% discount** for each additional person from the same organization!
- **Register by July 1, 2011** to receive the **early discounted rate!** Registration forms must be submitted prior to July 1, 2011 to qualify.
- Be green and “Opt-out” of receiving a conference notebook and **receive \$20 off!** All conference registrants will receive a Conference-At-A-Glance and the direct link to view and download Conference Proceedings after the conclusion of the conference.

### Cancellation / Refund Policy

Refunds will be provided for cancellations received in writing prior to **5:00 p.m. July 13, 2011**. Attendee substitutions are allowed!

### Dinner Reception

The Dinner Reception will be at Mote Marine Aquarium. Casual dress is recommended, so bring your flip-flops and shorts. FLERA Conference registrants will have exclusive access to the Aquarium to explore the secrets of the sea with touch pools; shark and sea turtle exhibits; and over 100 other species of marine life. Attendance for one adult is included in your conference registration! Guests are welcome but **MUST** purchase a ticket (\$30/adults, \$20/children) in advance by contacting FLERA (850-561-0904) prior to the conference. **Conference attendees and guests must have a ticket to attend the Dinner Reception at Mote!** Onsite tickets will be limited.

### Conference Hotel

The conference will be held at the beautiful Hyatt Regency Sarasota located at 1000 Boulevard of the Arts in Sarasota, Florida. After an extensive \$22 million renovation, the Hyatt Regency Sarasota now boasts a casually sophisticated "Florida chic" feel inspired by the bright and airy designs of Lilly Pulitzer.

A block of rooms has been reserved for conference attendees at the discounted rate of \$119 per night and **includes a complimentary continental breakfast and free self parking!** You can make your reservation online by going to the conference page on the FLERA website ([www.FLERA.org](http://www.FLERA.org)) and clicking on hotel reservation link or by calling (800) 233-1234 **by July 7, 2011**. Be sure to identify yourself as a FLERA conference attendee to receive the discounted rate.

### Conference Attire

Please dress comfortably; dress is business casual.

### Silent Auction

All conference attendees are invited to participate in the Silent Auction. If you are interested in contributing an item for the Silent Auction, please contact the FLERA office at (850) 561-0904.

### Sponsors

Visit the conference page of the FLERA website at [www.FLERA.org](http://www.FLERA.org) for sponsor/exhibit opportunities.

**Questions? 850-561-0904 or [FLERA@ksanet.net](mailto:FLERA@ksanet.net)**



**FLERA 2011 Annual Conference  
REGISTRATION FORM**

**Attendee Information:** (one attendee per form, please make copies for additional attendees)

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-Mail: \_\_\_\_\_

<b>Registration Options:</b>	(After July 1st)		<u>Total</u>
	<u>Early</u>	<u>Late</u>	
<input type="checkbox"/> Pre-Conference Tour of Mote Marine Laboratory <i>(if available)</i>	FREE	FREE	_____
<input type="checkbox"/> FLERA Member discounted rate	\$275	\$335	_____
<input type="checkbox"/> FLERA 2011 Conference Speaker discounted rate	\$275	\$335	_____
<input type="checkbox"/> Non-Member rate	\$335	\$395	_____

**Discounts!!!\***

- I am the 4<sup>th</sup> person from my organization [deduct 100% from above] (\_\_\_\_\_)
- Additional person from the same agency [deduct 10% from above] (\_\_\_\_\_)
- I don't need a conference Notebook [deduct \$20 from above]\*\* (\_\_\_\_\_)

**TOTAL REGISTRATION FEE** \_\_\_\_\_

**\*Discounts!!!**

- Send 3 people from the same organization and **get the 4<sup>th</sup> registration FREE!!**
- Each additional person from the same agency saves **10% off the member registration fee.**
- Do you really need a conference notebook? All attendees will be provided with a Conference-At-A-Glance at the conference followed by an email with a dedicated link with all Conference Proceedings. Check the box above to forgo your conference notebook, save a tree, and deduct \$20 from your conference registration fee!

**Method of Payment:**

- Enclosed is a check in the amount of \$\_\_\_\_\_. Checks payable to FLERA (FEIN: 59-3708514)
- Enclosed is a Purchase Order.
- Please charge my credit card Visa / Master Card *(circle one)*

Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_

Signature \_\_\_\_\_ CVCode \_\_\_\_\_

**Send Your Completed Registration Form to:**

Email: [FLERA@ksanet.net](mailto:FLERA@ksanet.net) / Fax: 850-222-4124 / Mail: PO Box 10530, Tallahassee, FL 32302

\*\*\$20 deduction not available to 4<sup>th</sup> person free registrations

## Come Early or Stay Late to Discover Sarasota!

Take advantage of your trip to Sarasota and set out for a new adventure! Why not bring the family and take some time to explore, relax and recharge!



### Myakka Wildlife Airboat Tour

Hop on an airboat and discover what makes the Myakka unique among America's freshwater lakes. Hear intriguing stories about the alligator, anhinga, and sandhill crane as you become acquainted with the variety of creatures that make their home here. The leisurely ride is so safe and smooth you'll have no problem taking photographs to bring home. Boat tours begin at 10:00 a.m., 11:30 a.m. and 1:00 p.m. for only \$12/adults and \$6/children. Tickets are sold on a first come, first serve basis so get there early! For more information call 941-365-0100 or go to [www.MyakkaWildlife.com](http://www.MyakkaWildlife.com).



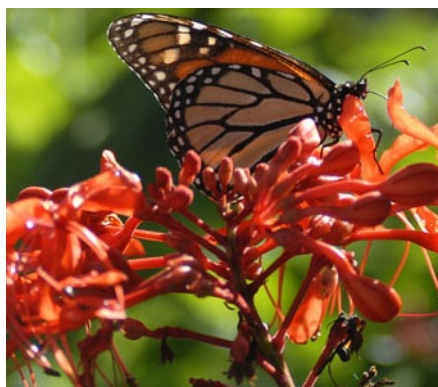
### Mangrove Tunnels Tour via Kayak

If you are looking for outdoor things to do in the Sarasota area, then this family-friendly, kayak eco-tour is for you. Come travel through the exotic mangrove tunnels, and explore Sarasota Bay, which is frequented by manatees and dolphins. This tour is a favorite for all ages and skill levels. Cost is \$55/person and kayaks launch at 9 a.m. For more information go to [www.kayakfl.com/Lido\\_Key\\_Kayak\\_Tour.html](http://www.kayakfl.com/Lido_Key_Kayak_Tour.html) or call 941-504-6296.



### Tour Sarasota Bay

Join a marine biologist on this 1 hour, 45 minute cruise through Sarasota and Roberts Bays. Observe our Florida manatees and resident population of bottlenose dolphins while learning about the ecology, history, and folklore of the area. Your guide will lead you on a short nature walk on an uninhabited island followed by a unique opportunity to view pelicans, herons, ibis and egrets in their nesting habitat. The highlight of this trip is the collection of a sample of marine life with a trawl net. Observe and handle some of the curious residents of Sarasota Bay: puffer fish, sea horses, stone crabs, and cow fish to name a few! Reservations are recommended, Cost is \$26/adults and \$22/children. For more information call 941-388-4200 or go to [www.SarasotaBayExplorers.com](http://www.SarasotaBayExplorers.com).



### Marie Selby Botanical Gardens

Marie Selby Botanical Gardens is a respected center for research and education, as well as a famous showplace. Visitors will see beautiful horticultural displays and learn from the many educational programs. You will take away with them a better understanding and greater appreciation of the natural world and the challenge it faces. The Gardens are open 10:00 a.m. - 5:00 p.m. Admission is \$17/adults and \$6/children. Daytime admission includes all outdoor gardens, Tropical Conservatory, Museum of Botany and the Arts. For more information, call 941-366-5731 or go to [www.selby.org/](http://www.selby.org/)