

# the Watershed

**AWRA Key West**  
*Casa Marina Resort & Beach Club*  
July 13 - 15, 2006

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**Tour:** The Eco Tour will be snorkel only again this year and will be sailing from the Casa Marina Pier. The catamaran will be going approximately seven miles offshore to the National Sanctuary's Living Coral Reef. This is a great trip for snorkelers of all ages. Space is limited – so don't delay. The Snorkel Ecotour registration is \$25 per person.

**Meeting/Luau: You Must Pre-Register – Deadline June 30**

**Location & Accommodations:**

As expected, the Casa Marina Resort and Beach Club is now officially SOLD OUT. See Page 7 for more information.

If you would like to check out the Casa Marina Resort, you can visit their website at <http://www.casamarinaresort.com/>.

Included in the National Historical Registry, Casa Marina Resort and Beach Club is located on the largest private beach in Key West and measures 1100 feet (335 meters). First constructed in 1920 by the railroad tycoon Henry Flagler, Casa Marina Resort - Key West, Florida FL has provided cultural escapes to generations of artists, dignitaries and personages of the highest rank. Modern accents such as high-speed Internet lines are also included in this classic paradise. The hotel's mini-bar assures that guests never go thirsty. The elegant furniture will make guests feel at home, while the luxurious bed guarantees nights of fantasy.



2006 Meetings: January 13 Jacksonville; March 17 Tallahassee; May 19 Tarpon Springs;  
July 13-15 Key West; September 15 Jupiter; November 17 Fort Myers



**AWRA KEY WEST**  
**July 13 – 15, 2006**  
***Casa Marina Resort & Beach Club***  
**AGENDA**



**Thursday, July 13, 2006**

- 11:00 a.m. – 1:30 p.m.      AWRA Board of Directors Meeting, Henry's – Private Dining Room, Flagler Restaurant  
1:30 p.m.                      Introduction – Call to Order, *John R. Wehle, ERA LLC*
- 1:50 p.m.                      AWRA Florida Section Strategic Plan  
*Bob Higgins, Higgins Engineering – President, AWRA Florida Section*
- 2:10 p.m.                      Granulometric and Metal Distributions for Post-Katrina New Orleans Surficial Storm Sediments  
*Jehangir Bhadha, Graduate Student, Soil & Water Science Department, University of Florida*
- 2:35 p.m.                      Stormwater and Lakes Management Planning: Strategies for Water Quality Improvement  
*Ann B. Shortelle, PhD, MACTEC*
- 3:00 p.m.                      What Is the Appropriate WMD Roll in TMDLs  
*Stephan R. Lienhart, P.E., Vice President, Water Resources, URS Corporation*
- 3:25 p.m.                      The Challenges of Reformation of the Peace River Manasota Regional Water Supply  
*Doug Manson; Carey, O'Malley, Whitaker & Manson, P.A.*
- 3:50 p.m.                      MFLs and Water Reservations, What Is the Difference and Why Should We Care?  
*Patricia Strayer, BEM*
- 4:15 p.m.                      Price and Single Family Residential Water Demand  
*Jay W. Yingling, Senior Economist, Planning Department, SWFWMD*
- 4:40 p.m.                      Panel – Development of a Refined Regional Dynamic Decision (R2D2) Support System for Water Supply  
Planning in the Lower East Coast of Florida
- 5:30 p.m. – 7:30 p.m.      President's Welcome Reception – Lanai Room 102/104

**Friday, July 14, 2006**

- 8:00 a.m.                      Call to Order & Announcements, *John R. Wehle*
- 8:15 a.m.                      Taking a Break from Traditional Remediation and Reuse Solutions  
*Bill Fagan, AquaFiber Technologies*
- 8:40 a.m.                      What \$400 Million Will Do – The Everglades Agricultural Area A-1 Reservoir  
*Carol Ann Wehle, Executive Director, SFWMD*
- 9:05 a.m.                      Update on the Herbert Hoover Dike  
*Les Bromwell, Principal Engineer, BCI Engineers & Scientists, Inc.*
- 9:30 a.m.                      Water Management Districts – Executive Director's Panel Discussion  
*Moderator: John Wehle*  
*Colleen Castille, Secretary, Department of Environmental Protection*  
*Carol Wehle, Executive Director, SFWMD*  
*Dave Moore, Executive Director, SWFWMD*  
*Kirby Green, Executive Director, SJRWMD*  
*Dave Fisk, Assistant Executive Director, SJRWMD - Update on History of Water Management Project*
- 12:45 p.m. - 4:30 p.m.      Eco Tour – Depart from & Return to the Casa Marina Pier  
*Bus transportation arranged if the Casa Marina Pier is not operational*
- 5:30 p.m.                      Reception on Ball Room Patio  
6:30 p.m.                      Caribbean Luau & Program – Ball Room and Patio  
*Silent Auction, AWRA Awards, and Fellow & Life Member Recognition*

**Saturday, July 15, 2006**

- 8:00 a.m.                      Water Management Institute – Flagler's Patio  
AWRA Board of Directors – Unfinished Business



**AWRA NATIONAL NEWS**

**Upcoming Conferences Hosted by AWRA**

- ◆ Adaptive Management of Water Resources, June 26-28, Missoula, MT (early bird registration deadline is June 5<sup>th</sup>!)
- ◆ Wetlands Restoration Dialogue, September 18-20, Ft. Lauderdale (early bird registration deadline is August 28<sup>th</sup>!)
- ◆ Annual Water Resources Conference, November 6-9, Baltimore, MD

**Annual Awards**

Recognition for outstanding service is important to all of us. Is there someone you know in our profession who deserves such recognition? Our AWRA Annual Awards Call for Nominations includes descriptions and eligibility requirements for 8

different categories. **Deadline for Nominations: May 5.**

For more information and to become a member of the National AWRA, go to [www.awra.org](http://www.awra.org), or contact David Watt at 386-329-4355 or [dwatt@sjrwmd.com](mailto:dwatt@sjrwmd.com).

**AWRA FLORIDA NEWS**

- Florida Section Directory Updates
- Board of Directors Summary
- Education Committee Report
- Technical Program Summary
- Announcements

**Florida Section Directory Updates**

- by Annette Carter

The 2006 Membership Directory is finally out! The process was arduous with several pitfalls along the way, but what a learning experience! Members should have received their copy of the directory by now. If you have not received your copy, extras will be available at the registration desk in Key West. If you received a defective copy, some were not cut on a straight line, please contact me.

Members whose dues were not paid through 2005 were dropped from active status and from the directory. A good way to prevent this for the 2007 Directory and assure we have your most current contact information is to take a minute to complete the application in this newsletter, or the one on our web page at [www.awraflorida.org](http://www.awraflorida.org). We don't want you to miss out on all the great benefits of belonging to one of the best professional organizations in the State!

In May we received five new student members and three renewal applications. The University of Florida's student AWRA chapter **ROCKS!**

**2006 Membership Directory Revisions**

Given that the directory took several months to produce, please update your directory with the revisions and new member contact information below. If you have not received a directory or have comments about your listing, please contact me.

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## Board of Directors Summary

- by Cathy Vogel

The Florida Section of the AWRA met in Tarpon Springs on Friday, May 19th. Here are some highlights of the Board of Directors' meeting that morning ... The Section continues to be in an excellent financial position, with Treasurer Yingling reporting a balance of \$54,577. Based on previous Board direction, the Section purchased a Certificate of Deposit in the amount of \$22,444 in order to invest the donations that have been received for the Sandy Young Scholarship Fund.

Membership Chair, Annette Carter, reported that the Section has 261 active members. She also noted that the annual membership directory, which had been printed and distributed, had some significant errors. A corrected directory is being reprinted and re-distributed at no cost to the Section.

Subsequent to the adoption in March of new categories of membership - Fellow Members and Life Members - the Board discussed and voted on the designation of such memberships. These designations will be announced at the annual meeting in July.

Dave Watt reported on National AWRA activities. Later this month (June 26-28), National will hold its annual Summer Specialty Conference in Missoula, Montana – theme: Adaptive Management of Water Resources. Closer to home, the National Wetlands Restoration Dialogue will be held in Ft. Lauderdale on September 18-20.

Shortly, Florida Section AWRA members will receive the Section's first Strategic Plan. A draft plan was reviewed and enthusiastically received by the Board of Directors. The plan will undergo minor revisions and word-smithing in preparation for its debut at the annual meeting in July, where it will be presented to the membership.

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## Education Committee Report

- by Rosanne Clementi

The Section has been busy this year so far with four awards for the William V. Storch Award. The UF Student Chapter was awarded \$1,000 to help with the expenses on the sediment analyzes from Hurricane Katrina. We also awarded \$1,000 each to the following outstanding UF students: Suzanne Moellendorf, Jehangir Bhadha, Beth Bevc, and Stuart Norton. We hope to see them in Key West to congratulate them on their fine work in water resources.

The J. B. Butler Science Grant is open until 18 June 2006. If you know any science teachers, please let them know.

We are working on the criteria for the Sanford N. Young Scholarship, which you should see soon on the web site. The Board has voted to make it an endowment only fund and the principle will not be used. It will be 2007 before we award this scholarship.

**Key West Silent Auction:** Committee members Rosanne Clementi, Annette Carter and our new volunteer, Sonia Blake, are working feverishly to put together a fun and exciting auction. We can still use monetary donations to create some baskets. We are amassing a host of incredible items: wine baskets, platters, prints, weekend at a ski resort, weekend at the Wehle's, an evening with two of our executive directors, beach cooler and, of course, Bubba Docs Royal Table. One-half of the auction proceeds will go to the Sanford Young Scholarship the other half to our other scholarships/grants. This year we are selling/raffling seats at a wine tasting party hosted by Ed Finch, who has the finest wine collection in the south (of the US not France). It will be on Friday around 2:00pm (location to be announced) if you are not the snorkeling type, so there is a little of everything for everyone. Bring lots of money.

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## Technical Program Summary

- by Doug Durbin

**What the Titanic and Archaeology in Florida Springs and Waterways Have in Common – Michael Arbuthnot, Environmental Services, Inc.** – Archaeological and other historical resources in water bodies can have great cultural significance and carry specific federal and state regulatory considerations. A number of exploratory tools are used to locate submerged resources, including submarine videography, magnetometers and side-scan sonar units. Known human artifacts in some Florida water bodies originate from as far back as 12,000 years ago. Various types of public and private projects, such as coastal development, roadway and bridge construction, and pipeline routing, can trigger the need for underwater archaeological surveys. Mr. Arbuthnot's professional career

includes an expedition to explore the interior of the Titanic. His work in Florida has included surveys of many springs and coastal waters, revealing a variety of Native American artifacts.

### **Issues in Using Multiple Water Sources for Potable Supply – Christine Owen, Tampa Bay Water**

Tampa Bay Water is a wholesale water supplier providing water to six local governments, who in turn supply potable water to over two million customers. Until 1998, all water produced by Tampa Bay (formerly known as the West Coast Regional Water Supply Authority) was groundwater from several wellfields in the Tampa Bay area. For a number of reasons, including environmental impacts at wellfields, Tampa Bay Water has recently implemented alternative water sources, including a 16-billion gallon offstream reservoir and a 25-million gallon per day desalination plant on Tampa Bay.

Groundwater requires relatively little treatment prior to potable use (i.e., hydrogen sulfide removal and chlorination), while surface water from the reservoir and desalination each require substantially more treatment to meet potable needs. Combining water from all three sources (currently about 62 percent groundwater, 27 percent surface water, and 11 percent desalinated water) requires close attention to water quality control. Parameters of particular concern are chloride, sulfate and alkalinity. The governing agreements for Tampa Bay Water actually require better water quality than Federal drinking water standards.

Tampa Bay Water has developed an experimental system that allows for testing of various combinations of source water and distribution system components. The goal is to identify interactions between the water and the distribution system. The parameter shown to have the greatest effect on distribution pipes was alkalinity. Sulfate and chloride also have an effect, but maintaining higher alkalinity (around 100 mg/L) generally ameliorates those issues. Perceived water quality issues following addition of alternative sources have been shown to be related to normal water supply management factors, rather than the addition of the new sources.

### **Using Frogs to Measure Wetland Success in Recovering Wellfields – Shannon Gonzalez, Biological Research Associates**

– The evaluation of ecological conditions commonly relies on the use of specific biological indicators. Presence and/or abundance of certain species or groups of species can be closely tied to environmental conditions, as can certain aspects of their physiology or behavior. This study examined the reproductive success of frogs and toads (anurans) relative to wetland conditions on a Tampa Bay Water wellfield. The wetlands had been previously categorized using vegetational cues with respect to their varying degrees of impact from wellfield water withdrawals. A variety of environmental factors were monitored, along with intensive sampling of frogs, toads and tadpoles. The study involved 26 wetlands and two years of data collection.

Statistical analyses of the multiparameter database resulted in clustering of the sampled wetlands based upon observed anuran reproductive success, and the wetlands grouped very similarly to the pattern elucidated through vegetational patterns. In addition, the duration and date of onset of inundation in the wetlands were strong predictors of the number of anuran species that could reproduce in the wetlands. Overall, the results suggest that using data on frogs and toads alone, it is possible to evaluate the ecological condition of a wetland. The relationship between an “anuran-based” evaluation and a “vegetation-based” evaluation of a wetland was generally consistent, but not a perfect correspondence, suggesting that both evaluations should be conducted to provide a more complete picture of wetland health.

### **Mote Marine Laboratory Red Tide Research Program – Barbara Kirkpatrick, Ph.D., Mote Marine Laboratory**

Mote Marine Laboratory has a very active program of research on red tide; interacting with more than a dozen other governmental and non-governmental research organizations. The primary red tide organism is a dinoflagellate, *Karenia brevis*, which is native to Florida coastal waters and has been causing red tide blooms throughout recorded history in Florida. Until recent years, identification of red tide blooms was possible only by collecting samples from vessels, but now remote techniques are increasingly used to find, or at least imply, the presence of red tide blooms. This includes automated detectors developed at Mote that sense red tide pigments and relay such information back to a control center at Mote.

Extensive research is being done to identify causes of red tide blooms and to develop measures for controlling such blooms. Two control measures being investigated are the use of ozone to kill *K. brevis* and the use of clay application to flocculate the cells and precipitate them from the water, although no approach is expected to eliminate large blooms. Red tide affects humans differentially, depending on the respiratory health of the individual. Those with asthma have more severe response to red tide toxins than individuals without respiratory problems. Typical antihistamines (allergy medicine) seem to reduce the severity of the response if taken before exposure to the airborne toxin. Mote provides public educational brochures to waterfront businesses, as well as a website with educational information.

**Florida Fish and Wildlife Research Institute Red Tide Research Program – Cindy Heil, Ph.D., FFWR**

Historic records indicate that Florida has always had red tides, but the identification of *K. brevis* as the causative agent did not occur until 1948. Most organisms in and around the water seem to have the potential to be affected by red tide, including mammals, birds, reptiles, fish and invertebrates. There are about 60 species of toxic algae in Florida's coastal waters. FWRI's program includes monitoring of coastal waters for "Harmful Algal Blooms," response procedures (e.g., investigating reported fish kills) and research projects to explore causes and control of red tides. Dr. Heil discussed the relationship between red tide and the "dead zone" observed in the Gulf of Mexico off of Pinellas County in 2005. A possible linking factor was excessively warm surface water that kept a *K. brevis* bloom isolated below the surface where it deoxygenated the surrounding water, leading to the death of many benthic organisms. Recent research has shown that manatees appear to acquire much of the red tide toxin through ingestion rather than inhalation. *K. brevis* appears to become attached to seagrasses where manatees may consume it. No single nutrient source can be pointed to as the cause of red tide blooms. Land-derived nutrients do not cause red tide blooms, but may contribute to the maintenance of a red tide bloom when it comes inshore.

A general question and answer session on red tides followed the two latter presentations.

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**Florida Section Meeting Notice – September 15, 2006**

Mark your calendars for the September 15, 2006 Florida Section meeting in Jupiter. The August 2006 issue of the Watershed will provide details of this meeting. The September Meeting Coordinator is Patti Lodge at 561-254-1792.

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**Key West – Urgent Request**

**Last year, 30% of attendees came to Key West without pre-registering. The facilities are now under new management; they and the catering staff require advance notice and allow for only 5% over registered attendees – please be considerate and pre-register. We want to be able to accommodate everyone. Thank you for your cooperation.**



# 2006 Membership Application

## MEMBERSHIP DUES

New  \$20 Regular   
 Renewal  \$ 4 Student

## DIRECTORY INFORMATION

Please give us the information requested below, as you would like it to appear in the membership directory.

Name: \_\_\_\_\_  
First Middle Initial Last Suffix (Ph.D., PE, PG, etc)

Company/Affiliation: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
Box, Street or Route Suite or Apartment  
City State Zip Code

Daytime Telephone: \_\_\_\_\_  
Area Code

Facsimile: \_\_\_\_\_  
Area Code

E-mail: \_\_\_\_\_

## MEMBERSHIP INTERESTS

Would you like to receive our newsletter via e-mail? Yes  No   
 Are you an AWRA National Member? Yes  No   
 If not, would you like information? Yes  No   
 Are you interested in sponsorship opportunities? Yes  No   
 Would you like to be part of a bi-monthly meeting team? Yes  No

SPONSOR/RECRUITER: \_\_\_\_\_

## PAYMENT INFORMATION

\$\_\_\_\_\_ Annual dues (please indicate if you are paying for additional years)  
 \$\_\_\_\_\_ Florida Section Water Resources Education Fund (tax deductible contribution)  
 \$\_\_\_\_\_ Sandy Young Scholarship Fund (tax deductible contribution)  
 \$\_\_\_\_\_ **TOTAL (Please make checks payable to AWRA Florida Section, THANK YOU!)**

Return application & your check to: **Annette Carter, Membership Services Coordinator  
 c/o Tetra Tech EC, Inc.  
 759 South Federal Highway, Suite 100  
 Stuart, Florida 34994**

Florida Section membership dues are due January 1 and are good through December 31. Contributions or gifts to the Florida Section are deductible as charitable contributions for federal income tax purposes. Dues payments may be deductible by members as an ordinary and necessary business expense. For membership information, please contact Annette Carter at [Annette.Carter@ttech.com](mailto:Annette.Carter@ttech.com) or (772) 781-3403.

### Section Use Only:

Date Received: \_\_\_\_\_ Check #: \_\_\_\_\_ Amount: \_\_\_\_\_



# **key west 2006 SPONSORS**

**AQUAFIBER TECHNOLOGIES**

**BCI ENGINEERS & SCIENTISTS INC.  
TETRA TECH EC INC.**

**BEM SYSTEMS INC.  
BOYLE ENGINEERING CORPORATION  
CDM-(EcoTour)**

**CAREY, O'MALLEY, WHITAKER & MANSON, P.A.  
JONES, EDMUNDS & ASSOCIATES INC.  
MACTEC ENGINEERING AND CONSULTING INC.**

**PBS&J  
R.W. BECK (President's Reception)  
WILSONMILLER INC.**

**HYDROLAB CORPORATION**

**ASR SYSTEMS  
BASKERVILLE-DONOVAN INC.  
BLACK & VEATCH CORPORATION  
CREECH ENGINEERS, INC.  
ENTRIX  
LBFH INC.  
SOUTHEAST ENVIRONMENTAL SOLUTIONS INC.**

**BRINDLEY PIETERS & ASSOCIATES INC.  
HIGGINS ENGINEERING INC.  
MASTELLER & MOLER INC.  
WATER MANAGEMENT INSTITUTE INC.**



# AWRA KEY WEST 2006

Casa Marina Resort & Beach Club  
1500 Reynolds Street • Key West, FL  
(866) 397-6342 or (305) 296-3535

*Meeting/Luau: You must pre-register – Deadline June 30*

*If needed, the following alternate hotel information is provided.*

**Sheraton Suites Key West**  
2001 S Roosevelt Blvd  
Key West FL 33040  
(305) 292-9800

**DoubleTree Grand Resort**  
3990 S Roosevelt Blvd  
Key West FL 33040  
(305) 293-1818

**Courtyard by Marriott**  
3420 N Roosevelt Blvd  
Key West FL 33040  
(305) 294-5541

**Duval House**  
815 Duval Street  
Key West FL 33040  
(305) 292-9491

### **Casa Marina Resort & Beach Club – SOLD OUT**

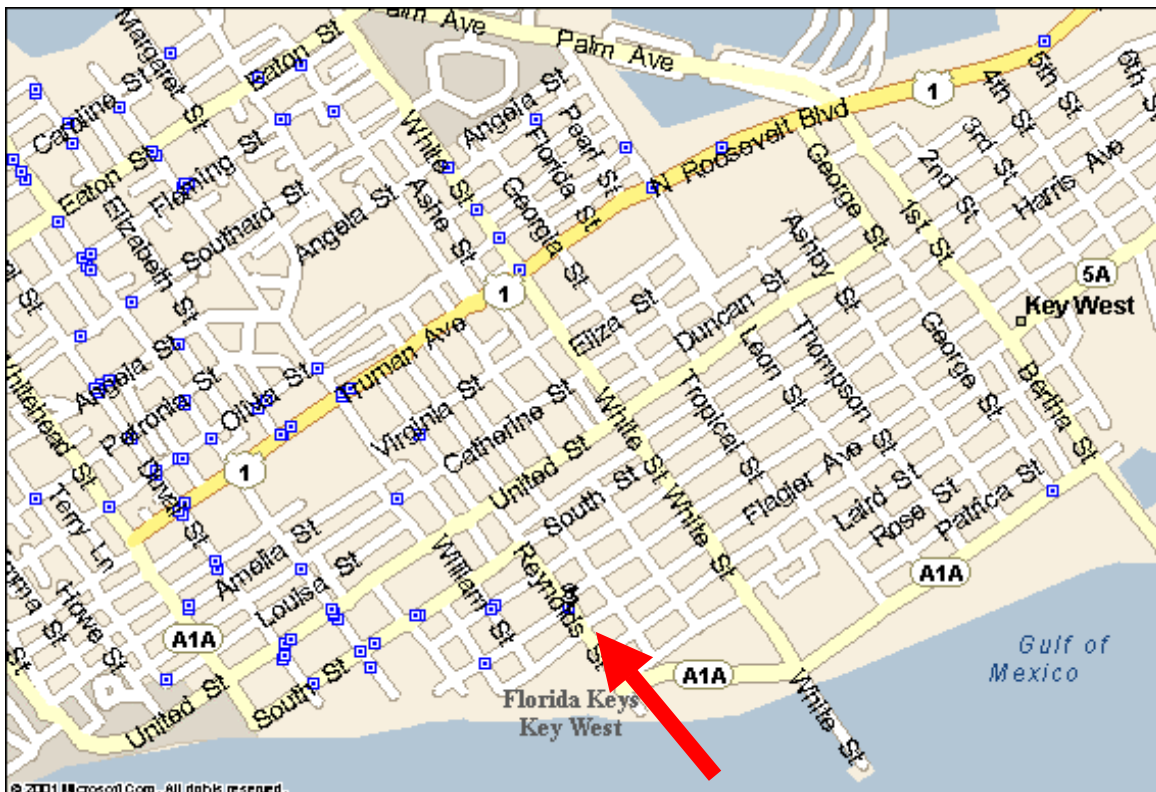
If you have a room reservation and are not able to attend, please call me before you release your room. I may have someone I can transfer the reservation to and we won't lose the room. Please contact me at: 386-329-4214 (Voice), 386-329-4125 (Fax), or 386-937-1055 (Cell) – *Marji Hightower, SJRWMD*

### **Casa Marina Resort & Beach Club – Room Rates AWRA Block**

*Ocean View - \$165; Non-Ocean View - \$135; Ocean View Suites; \$205; Non-Ocean View Suites - \$165*

Room rates are subject to applicable taxes. A \$5 room service charge will be assessed per room per day. Check-In time is 4:00 PM.

### **Location of the Casa Marina Resort & Beach Club**





**AWRA Florida Section Meeting**  
 July 13-15, 2006  
 Casa Marina Resort & Beach Club  
 Key West, Florida

## Registration Form

**You Must Pre-Register - Deadline June 30, 2006**

**Name** \_\_\_\_\_

**Organization** \_\_\_\_\_

**Mailing Address** \_\_\_\_\_

\_\_\_\_\_

**Phone** \_\_\_\_\_

**E-Mail** \_\_\_\_\_

**Guest Name** \_\_\_\_\_

*Registration includes Friday Night Caribbean Luau.*

**Make checks payable to AWRA Florida Section and mail to:**

Marji Hightower	Registration	_____	X \$75 =	\$ _____
AWRA	Guests – Luau Only	_____	X \$40 =	\$ _____
PO Box 186	Students Registration*	_____	X \$40 =	\$ _____
Palatka, FL 32178	Children under 12 (Dining)	_____	X \$20 =	\$ _____
Ph: (386) 329-4214	Children under 5 (Dining)	_____	FREE	\$ _____
Fax: (386) 329-4215	<b>Eco Tour - Snorkel Field Trip</b>	_____	X \$25 =	_____
	<b>Number attending the Board Meeting</b>	_____		

**TOTAL ENCLOSED** \_\_\_\_\_ \$ \_\_\_\_\_

\* You may sponsor a student to attend the event by paying their registration fee. We will include your name with a thank you in the program brochure. If you wish to do this, please fill in the requested information at the top of the form.

**PDH Credit for Florida Professional Engineers**

We have been approved by the Florida Board of Professional Engineers (FBPE provider # EX00089) to offer Professional Development Hour (PDH) credit to Florida registered Professional Engineers. You will only receive credit if you attend the entire technical session. Please check the box below and include your PE number if you would like to obtain PDH credit.

[ ] **I plan to be present for all technical sessions and would like PDH credit.**  
 My PE number is \_\_\_\_\_.

**Last year, 30% of attendees came to Key West without pre-registering. The facilities and catering staff require advance notice and allow for only 5% over registered attendees – please be considerate and pre-register. We want to be able to accommodate everyone. Thank you for your cooperation.**



**AWRA Newsletter Editor:**

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**VISIT THE FLORIDA SECTION WEBSITE AT:**  
[www.awraflorida.org](http://www.awraflorida.org)

***✎ Contact Upcoming Meeting Chairmen Regarding Sponsorship or Assistance ✎***

**Tallahassee**  
March 17, 2006  
Don McEwen  
850-539-9508

**Tarpon Springs**  
May 19, 2006  
Jay Yingling  
352-796-7211 x4406

**Key West**  
July 13-15, 2006  
John Wehle  
561-253-4309

**Jupiter**  
September 15, 2006  
Patti Lodge  
561-254-1792

**Ft. Myers**  
November 17, 2006  
Ron Hamel  
863-675-2180

**Welcome New Members!**

Jennifer J. Cannon, Creative Environmental Solutions – U of FL Student, Gainesville  
Erin L. Deady, Lewis, Longman & Walker, P.A., West Palm Beach  
Mark A. DePaul, University of Florida student, Palm Coast  
Natalia Gonzalez, University of Florida student, Gainesville  
Brooke Hall, Everglades Partners Joint Venture, Jacksonville  
Anide Piewe-Louis, University of Florida student, Gainesville  
Molly M. Scheiner, University of Florida student, Gainesville  
Susan S. Telford, EnvironMend, Jupiter

