

the Watershed

AWRA Key West
Wyndham Casa Marina
July 28 – 30, 2005

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Tour: The Eco Tour will be snorkel only again this year and will be sailing from the Wyndham 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.

Location & Accommodations:

As expected, the Wyndham Casa Marina is now officially SOLD OUT. See Page 7 for more information.

If you would like to check out the Wyndham Casa Marina Resort, you can visit their website at <http://casa-marina.wyndham-hotels.com/>.

Included in the National Historical Registry, Wyndham Casa Marina Resort 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, Wyndham Casa Marina Resort & Hotel - 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.



Lower Keys Aerial Tours

David Clementi is offering one-hour aerial tours of the lower Keys on Thursday and Friday afternoon from 12:30 to 5:00 (and all day Saturday if there is a demand) for \$150 a plane load (three people). \$50 from each flight will go to the Sanford N. Young Scholarship Fund. A night flight could be arranged if there are any interested. Call David Clementi at 813- 361-7590 after July 20, 2005 to make advanced arrangements.

2005 Meetings: January 21 Palm Coast; March 18 Wakulla Springs; May 13 Lakeland; July 28-30 Key West; September 30 Cedar Key; November 18 Ft. Myers



AWRA KEY WEST
July 28 – 30, 2005
Wyndham Casa Marina
TENTATIVE AGENDA



Thursday, July 28, 2005

- 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, MWH*
Silent Auction Items on Display in the Back of the Room
- 1:45 p.m. Design Build in Water & Wastewater
Patrick Mullen, Design Build Coordinator, MWH
- 2:10 p.m. Florida Springheads: Challenges in Science and Management
Kris Esterson, Senior Hydrologist, HydroGeoLogic, Inc.
- 2:35 p.m. Setting a Higher Standard: Florida's Dissolved Oxygen and Nutrient Criteria
Doug Durban, PhD, Biological Research Associates
- 3:00 p.m. Update on the Governor's Committee for a Sustainable Treasure Coast
Melissa Meeker, Florida Operations Manager, TetraTech EC
- 3:25 p.m. Alternative Water Supply Solutions: Desalination Case Study – Trinidad & Innovative Approach to Reuse, *Philip Waller, Vice President, MWH*
- 4:10 p.m. Florida State Revolving Loan Program Use at Water Management Districts
Walter Kulakowski, Director, Citigroup
- 4:35 p.m. Supply & Demand – Optimizing Operations of the Everglades Agricultural Area Reservoir
Tommy Strowd, P.E., Program Director, Acceler8, SFWMD
Rafeal E. Frias III, P.E., Project Engineer, Black & Veatch Corporation
- 5:30 p.m. – 7:30 p.m. President's Welcome Reception – Lanai Room 102/104

Friday, July 29, 2005

- 8:00 a.m. Call to Order & Announcements, *John R. Wehle*
- 2004 Hurricane Season – What Really Happened?
Moderator: Michael G. Cullum, P.E., Director, Division of Engineering, SJRWMD
Richard L. Kane, Chief, Hydrologic Data Section, USGS
Gary W. Kuhl, P.E., Director, Operations Department, SWFWMD
Representative for NFWFMD, Invited
Bob Howard, P.E., Director, Operations Control, Eng. & Vegetation Mgt., SFWMD
- Updates from the Top: EOG, DEP, DACS & WMD's
Deirdre Finn, Deputy Chief of Staff, EOG – Invited
Jennifer Fitzwater, Legislative & Government Affairs, DEP – Invited
Chuck Aller, Director, Office of Ag Water Policy, DACS
Carol Wehle, Executive Director, SFWMD
Mike Slayton, Deputy Executive Director, SJRWMD
Dave Moore, Executive Director, SWFWMD
Dave Still, Assistant Executive Director, SRWMD
Doug Barr, Executive Director, NFWFMD - Invited
- 12:45 p.m. - 4:30 p.m. Eco Tour – *Departing from & Return to the Casa Marina Pier*
- 5:30 p.m. - 6:30 p.m. Reception on Ball Room Patio
- 7:00 p.m. Caribbean Luau & Silent Auction in Ball Room and Patio

Saturday, July 30, 2005

Unfinished Business – AWRA Board of Directors



AWRA NATIONAL NEWS

The 2005 Summer Specialty Conference on Institutions for Sustainable Watershed Management: Reconciling Physical and Management Ecology in the Asia-Pacific was held in Honolulu, HI on June 27-29, 2005. The meeting was a great success and may lead to future Pacific conferences.

The 2005 Annual Conference will be held at the Red Lion Hotel, in Seattle, Washington from November 7-10, 2005. Plan to attend. Registration can be made online/Mail-in.

A 2006 Spring Specialty Conference on Geographic Information Systems (GIS) and Water Resources IV will be held in Houston, Texas from May 8-10, 2006. The Call for Abstracts deadline is November 6, 2005.

Also in the planning stages is a 2006 Summer Specialty Conference to be held in Montana on Adaptive Management of Water Resources.

If you would like to assist on any of these conferences, please call national AWRA headquarters at (540) 687-8390. Remember to visit the national webpage or call the AWRA Headquarters at (540) 687-8390. Anyone there will be glad to help you. Again, thanks. – Bob Moresi

AWRA FLORIDA NEWS

- Board of Directors Summary
- Technical Program Summary
- Announcements

Board of Directors Summary

- Gail Murray

The May 13, 2005 board meeting was held at The Terrace Hotel, Lakeland, FL. Provided below are highlights of some of the items discussed at the meeting

- Allan Biddlecomb presided over the meeting. Allen expressed his sympathy for the death of Sandy Young, one of our Board of Directors.
- Patrick Victor, Treasurer, advised us that the organization was still doing well, with a positive balance in the bank. We discussed the need for a non-Board member to audit the treasurers' books, especially at the time of a new Treasurer.
- New membership directories have been sent to all members. There was a discussion about how to solicit new members to the Florida Section. Some ideas were WMD newsletters, posting boards, Administrative Weekly, and other organizations.
- According to Rosanne Clementi, we have not received any response to the JB Butler Award. We discussed other ideas of how to distribute the funds for education purposes. Discussed working with the Districts education outreach programs. Also, discussed raising the award limit to \$500.
- We approved the set up of a Sanford N. Young Scholarship Fund for water resources.
- 2005 meeting locations and chairpersons:
 - **July 28-30, 2005 – Key West:** John Wehle
 - **September 30, 2005 – Cedar Key:** Carol Hinton
 - **November 18, 2005 – Ft. Myers:** Ron Edenfield and Ron Hamel

Technical Program Summary

- Jay Yingling

Lake Hancock Level Modification - Harry Downing, SWFWMD and Mike Timpe, BCI Engineers and Scientists – Mr. Downing summarized minimum flows and levels issues in the Southern Water Use Caution Area (SWUCA) of the Southwest Florida Water Management District. Because of the economic impact of dramatic groundwater pumpage cutbacks that would have to occur to restore historic flow to the upper Peace River Basin, increasing storage in Lake Hancock for release in low flow periods appears to be a practical solution. High levels of groundwater pumpage and significant alteration of the Upper Peace watershed had already been established prior to modern water use and environmental resource permitting. The primary objective of the restoration effort is to provide flow levels sufficient for fish passage during low flow periods. A significant portion of the project is the

development of a model for refining floodplain delineations to support land acquisition efforts to mitigate the impacts of increasing storage in the lake.

Lakes Education Action Drive (LE/AD) in Action - *Johnna Martinez, LE/AD* – LE/AD is a non-profit organization established in 1985 to educate the public on protecting lakes in the Polk County area. To increase community involvement, LE/AD sponsors a website (www.LE-AD.org), provides education programs in schools, holds workshops on low impact development, hosts events, provides lakeside display signs and stormwater drain plaques, produces a quarterly newsletter and sponsors adopt a lake and adopt a pond programs.

Upper Peace River/Saddle Creek Restoration Project – *Michelle Harmeling, FDEP, and Alan Jare, BCI Engineers and Scientists* – The project is centered in the Tenneroc vicinity, one of the most heavily mined areas in the state. The project is being conducted under an MOU between the DEP, DOT, FFWCC, SWFWMD and the USACOE with funding provided as alternative mitigation for the Polk Parkway. The project's six objectives are wetland function restoration, restoration of water quality and quantity in the Peace River and Saddle Creek, reclamation of approved areas, enhancement of recreation opportunities for residents, increasing the number of boat ramps, restoration of ecologic functions, and development of an educational program. A large part of the project will be reconnecting perched water flow ways and restoring 1940s pre-mining drainage patterns.

Peace River Integrated Modeling - *Eric Evans, Hydrogeologic* – The project involves the development of a predictive model of the river basin to simulate surface water engineering solutions to basin drainage and flow impacts. An integrated model is required due to the high degree of interaction between surface and groundwater. MOD-HMS or Mike-SHE integrated models will be utilized. Previous basin modeling efforts and data are currently being compiled. A sub-basin model will be tested prior to development of the basin-wide model.

Watershed Planning and Implementation: Lake Hollingsworth – A Case Study - *Gene Medley, City of Lakeland* – Lake Hollingsworth is a high profile lake in the city. The economic impact of the lake's walking path has been estimated at \$2 million per year. Being naturally rich in phosphorus and the recipient of local stormwater, the lake has become severely degraded. The goals of the project are to reduce the lake trophic state level from 95 to 65 (60 is considered impaired) and to enhance fish and wildlife habitat and recreational opportunities. To reduce nutrient recycling and restore more natural depth patterns, 2.9 million cubic yards of organic sediment have been removed. Alum treatment has also been utilized. Stormwater BMPs are being developed to achieve almost 50% treatment of stormwater. Post-dredging aquatic macrophyte coverage has increased from less than 1% to more than 11% and water clarity has improved significantly.

Fluvial Geomorphology - *John Kiefer, BCI Engineering and Scientists* – Fluvial geomorphology is the study of how flowing waters shape land. Mr. Kiefer explained that stream meander curvature is much more random in Florida and the Southeast plain than in the rest of the country primarily because of vegetative controls. Florida streams are also unique due to the "peninsular" effect of seasonal (wet/dry) conditions. He stressed that poor biological conditions in streams may have a human-induced geo-morphic cause rather than water quality cause. Therefore, it is important to investigate geo-morphic as well as water quality impacts to produce a solution with the desired results.

Heartland Water Alliance Water Supply - *Jeff Spence, Polk County and Steve Elias, Envisors* – The alliance is a cooperative water supply planning effort between Desoto, Hardee, Highlands and Polk counties. Sixty percent of the project costs are being funded by the SWFWMD. Long-range water supply planning for the area is required as additional groundwater withdrawals are likely to be very limited. The 2001 Regional Water Supply Plan projects supply deficits for the area. Future source choices are constrained, as there are no major surface water sources in Polk County. The project objectives are to assess future water demands, establish demand zones and quantify needs. Potential sources include mined ponds and streams, the Kissimmee River, reuse, conservation, and withdrawals made available through land use transition.

Florida Section Meeting Notice – September 30, 2005

Mark your calendars for the September 30, 2005 Florida Section meeting in Cedar Key. Please contact Carol Hinton at 352-392-9570 x109 if you have any questions. The August 2005 issue of the Watershed will provide details of this meeting.



2005 Membership Application

MEMBERSHIP DUES

New \$10 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)
 \$ _____ **TOTAL (Please make checks payable to AWRA Florida Section, THANK YOU!)**

Return application & your check to: **David Watt, Membership Services Coordinator**
P.O. Box 1823
Palatka, Florida 32178

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 David Watt at [dwatt@sjrwm d.com](mailto:d watt@sjrwm d.com) or (386) 329-4355.

Section Use Only:

Date Received: _____ Check #: _____ Amount: _____



AWRA KEY WEST 2005

Wyndham Casa Marina Resort
 1500 Reynolds Street • Key West, FL
 (800) 626-0777 or (305) 296-3535

Hotel Reservation Deadline: July 1, 2005

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

Wyndham Casa Marina – SOLD OUT

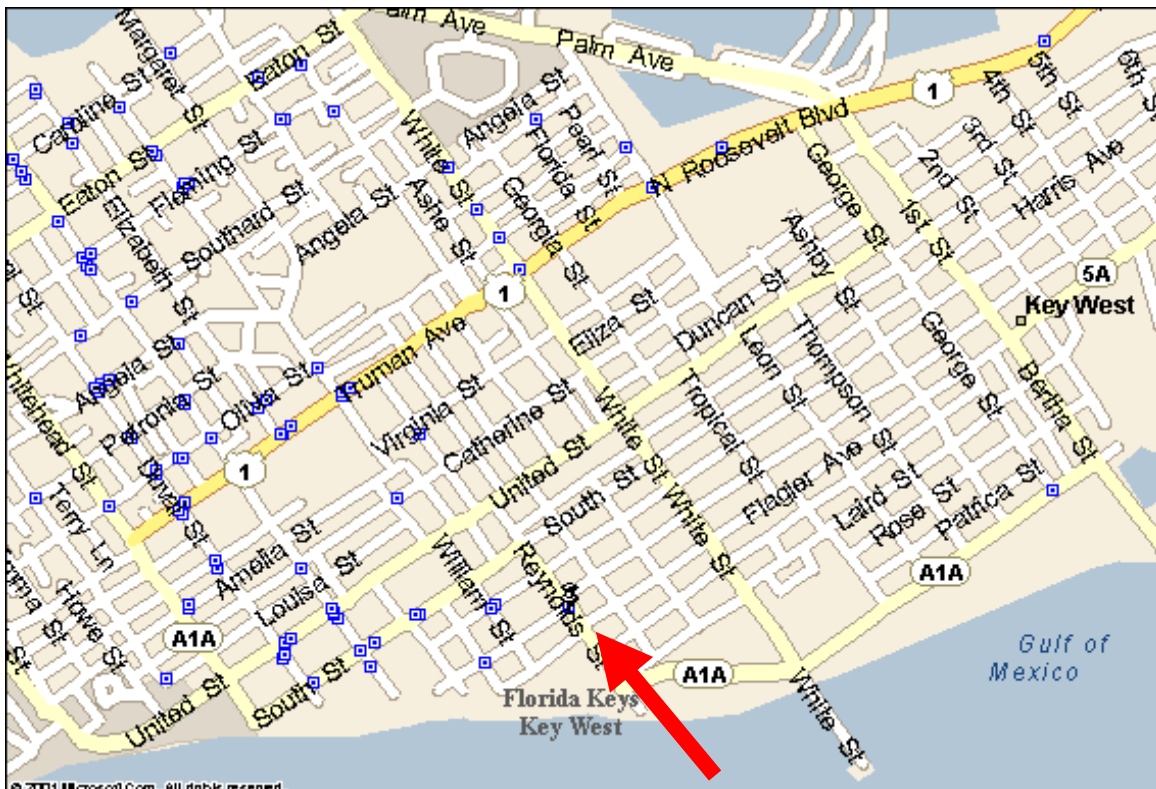
If you have a room reservation and are not able to attend, please call me before you release your room. I may have someone I can transfer the reservation to and we won't lose the room. Please contact me at: 386-329-4214 (Voice), 386-329-4125 (Fax), or 386-937-1055 (Cell) – *Marji Hightower, SJRWMD*

Wyndham Casa Marina – Room Rates AWRA Block

Ocean View - \$147; Non-Ocean View - \$118; Ocean View Suites; \$211; Non-Ocean View Suites - \$158

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, and changing rooms are available prior to that time.

Location of the Wyndham Casa Marina Resort





AWRA Florida Section Meeting
 July 28-30, 2005
 Wyndham Casa Marina Resort
 Key West, Florida

Registration Form

Meeting Registration Deadline – July 15, 2005
 Hotel Reservations Deadline – July 1, 2005

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 \$70 =	\$ _____
AWRA	Guests – Luau Only	_____ X \$40 =	\$ _____
PO Box 186	Students*	_____ X \$40 =	\$ _____
Palatka, FL 32178	Children under 12 (Dining)	_____ X \$20 =	\$ _____
(386) 329-4214	Children under 5 (Dining)	_____ FREE	\$ _____
	Eco Tour - Snorkel Field Trip	_____ X \$25 =	_____
	Lower Keys Aerial Tour - # Interested	_____	
	Number attending the Board Meeting	_____	
	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 _____.



AWRA Newsletter Editor:

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VISIT THE FLORIDA SECTION WEBSITE AT:
www.awraflorida.org

Contact Upcoming Meeting Chairmen Regarding Sponsorship or Assistance

Key West
July 28-30, 2005
John Wehle
561-253-4309

Cedar Key
September 30, 2005
Carol Hinton
352-392-9570 x109

Ft. Myers
November 18, 2005
Edenfield & Hamel
941-277-0003

TBA
January 2006

Welcome New Members!

- John C. Abbott, Keith and Schnars, P.A., Ft. Lauderdale
- James (Jim) F. Anderson, Seagrass Recovery, Inc., Ruskin
- Mauricio Arias, University of Florida student, Gainesville
- Christopher P. Boruch, Greenhorne and O'Mara, Inc., Jacksonville
- Mike Crowley, Central Broward Water Control District, Hollywood
- Wendy M. Cyriacks, CECOS, Inc. Deerfield Beach
- Timothy Harper, Greenhorne and O'Mara, Inc., Palm Beach Gardens
- John R. Herbert, P.G., Jones Edmunds & Assoc., Gainesville
- Bill Hu, Florida State University, Dept. of Geological Science, Tallahassee
- Lynn V. Saunders, University of Florida student, Gainesville
- Jeffrey D. Smith, University of Florida student, Gainesville
- Robert M. Viertel, P.G., PBS&J, Bartow
- Garrett W. Wallace, Jr., South Florida WMD, West Palm Beach
- Philip L. Waller, Jr., P.E., MWH, Tampa
- Cledwyn R. Weldon, P.E., South Florida WMD, West Palm Beach
- Ellie Whitney, Ph.D., Tallahassee

