

Wakulla Springs Lodge

Friday March 18, 2005

## Wakulla Springs and Its Springshed

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Palatka

Jay W. Yingling  
Tampa

Sanford N. Young  
Tallahassee

**Technical Program:** Wakulla Springs is one of the world's largest freshwater springs. It creates the nine-mile Wakulla River and is one of the state's premier wildlife observation areas. In recent years increased concentrations of nitrates flowing from the spring amounting to approximately 340 tons per year have altered the ecology of the spring and river. These nutrients have caused a rapid and major increase in the growth of nuisance algae and hydrilla. This has led to the loss of the limpkin, a symbol of Wakulla Springs. The limpkin has disappeared because the apple snail population, its principle food, has disappeared. Furthermore, dark water days have increased which has reduced the use of the glass bottom tour boats which cruise over the spring.

The City of Tallahassee occupies the heart of the 600-square mile Wakulla Springs Basin. Surface and groundwater flow to Wakulla Springs through one of the longest and deepest cave systems in the world. Contaminants, which may include wastewater from septic tanks and municipal spray fields, and fertilizers and other pollutants in stormwater, are reaching the springs. Eleven hydrological and water quality studies, totaling \$854,000, are now underway in the basin to enhance our understanding of the watershed and the origin of the contamination impacting the springs.

This meeting will bring forth new information and findings that will help public and private interests to better understand the issues affecting Wakulla Springs.

**Location & Accommodations:** A block of rooms has been made available at \$95/night. Please contact the Wakulla Springs Lodge at (850) 224-5950.

**Deadline for hotel registration at the block rate is March 4, 2005.**



*2005 Meetings: January 21 Palm Coast; March 18 Tallahassee Area; May 13 Lakeland; July 28-30 Key West; September 30 Cedar Key; November 18 Ft. Myers – SW Water Resources Conference*



**AWRA Florida Section Meeting**  
**Friday, March 18, 2005**  
*Edward Ball Wakulla Springs State Park and Lodge*  
*Wakulla Springs, Florida*

- 10:00 am – Noon**      **Board of Directors' Meeting**, AWRA Florida Section  
Location: Ed Ball Conference Room (2<sup>nd</sup> Floor)
- 12 noon – 6:00 pm**      **Registration**, Location: The Pavilion
- 1:00 – 5:30 pm**      **Technical Session: Wakulla Springs and Its Springshed**, Location: The Pavilion

**Overview of the Wakulla Springs Basin**

*Jim Stevenson, Coordinator, Wakulla Springs Basin Working Group*

**Groundbreaking Characterization of the Karstified Floridan Aquifer in the Woodville Karst Plain of North Florida**

*Dr. Todd Kincaid, Vice-President, Hazlett-Kincaid, Inc.*

**Realistic Numerical Modeling of Groundwater Flow Based on Quantitative Site Characterization in the Woodville Karst Plain of North Florida**

*Dr. Tim Hazlett, President, Hazlett-Kincaid, Inc.*

**Nitrate Loading in the Lower St. Marks and Wakulla River Watersheds**

*Tom Pratt, Chief, Bureau of Ground Water Management, the Northwest Florida Water Management District*

**Surface/groundwater Interactions in Karst**

*Dr. Sean McGlynn, Technical Director, McGlynn Laboratories Inc.*

**Update on the Southeast Farm Collaborative Study Investigating Effluent Movement in the Floridan Aquifer**

*Hal Davis, Hydrologist, the USGS and Koren Taylor, Aquifer Protection Coordinator, the City of Tallahassee*

**What an Engineer Can Learn**

*Theresa B. Heiker, P.E., Stormwater Management Coordinator, Leon County Public Works*

**Positive, Successful, Citizen Initiative to Improve the Environment - Blueprint 2000**

*Jack Diestelhorst, Chairman, Capital Cascade Council*

**Wakulla Springs Basin Successes: Making a Difference**

*Scott Savery, Park Biologist, Wakulla Springs State Park, the Florida Department of Environmental Protection*

**Florida Green Lodging Certification Program**

*Karen Moore, Environmental Specialist III, Green Lodging Certification Coordinator, the Florida Department of Environmental Protection*

**5:30 - 6:30 p.m.**

**Social Hour**, Location: Lobby

**6:30 p.m.**

**Dinner on the Terrace**, *Dinner Speaker: Dr. Todd Kincaid*

*Exploring Wakulla: The Mount Everest of Cave Diving*



**Edward Ball Wakulla Springs  
State Park and Lodge  
850-224-5950  
Friday, March 18, 2005  
Wakulla Springs, Florida**

## Registration Form

Lodge Reservations Deadline – March 4, 2005  
Meeting Registration Deadline – March 14, 2005  
Call the Lodge at 850-224-5950; \$95/night

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

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

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

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

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

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

*Registration includes Buffet. The buffet will include: Marinated London Broil, Chicken Mascot (stuffing of mushrooms, artichokes, etc.), Grouper Almandine, assorted veggies, starches, and desserts.*

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

Bill Stimmel 3016 O'Brien Drive Tallahassee, Florida 32309 (850) 668-8079	Registration (Includes Buffet)	\$45	X	\$___ = \$_____
	Guests	\$35	X	\$___ = \$_____
	Students*	\$25	X	\$___ = \$_____
				<b>TOTAL</b> \$_____
	<b>Number attending Board Meeting</b>	_____		Dutch Treat

\* 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 NATIONAL NEWS**

Well I am now the PAST National President. I want to thank all of the Florida Section for the support and help for the past year. Hopefully you will give the new president Mindy Lalor the same support. She is the Director of the Civil & Environmental Engineering Department of the University of Alabama in Birmingham. The newest members and officers are listed below.

Also, the second National Water Resources Policy Dialogue was held in Tucson, Arizona February 14-15. It was even more successful than the first Dialogue. The AWRA has become recognized as the leader in national water policy issues, and this forum has become the showcase for the exchange of ideas on dealing with national water policy. Look for a third Dialogue in two years.

At the Board of Directors meeting in January, we continued to pursue the strategic initiatives for this year. The first three initiatives include

issues on how to make the annual conference a greater value to our members, how to integrate the annual conference and our publications and webpage, and the development of a plan to articulate the importance of a multidisciplinary approach to our member groups. I encourage you to participate on the national level. If you have questions, please call me, or your National Board member, Dave Watt.

- by *Bob Moresi*

**AWRA FLORIDA NEWS**

- Florida Section Directory Updates
- Message from Your 2005 President
- Board of Directors Summary
- W. V. Storch Scholarship Awards
- May 13 Meeting - Notice
- Announcements
- March 2005 Meeting Sponsors
- March 2005 Meeting Information
- 2005 Membership Application

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**AWRA National – New Members & Officers**

**President: Melinda M. Lalor**  
Univ. of Alabama-Birmingham  
Dept. of Civil & Environmental Engineering  
Birmingham, AL 35294

Phone: (205) 934-8438  
Fax: (205) 934-9855  
E-Mail: mlalor@eng.uab.edu

**President-Elect: David R. DeWalle**  
Penn State University  
107 Land and Water Bldg.  
University Park, PA 16802

Phone: (814) 861-6449  
Fax: (814) 865-3378  
Email: drdewalle@psu.edu

**New Director: Tamim Younos**  
Virginia Tech  
VA Water Resources Research Center  
23 Agnew Hall (0444)  
Blacksburg, VA 24061-0444

Phone: (540) 231-8039  
Fax: (540) 231-6673  
E-Mail: tyounos@vt.edu

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**Will You be in the 2005 Membership Directory?**

We are in the process of preparing the new membership directory. By now you should have received an email or letter requesting that you review your directory information to make sure it is correct. If you have not heard from us there may be a problem with your membership status. Members whose dues are not paid through at least 2004 will be dropped from active status and from the directory.

Many of our members consider the directory an important networking tool and one of the best benefits of membership in AWRA. **Please make sure your dues are paid before the end of February** so you can

take advantage of this important business tool and we can continue to support water resources education! You can use the membership application form in this newsletter, or on our web page at [www.awraflorida.org](http://www.awraflorida.org), or contact David Watt at 386-329-4355 or [dwatt@sjrwmd.com](mailto:d watt@sjrwmd.com).

We are also looking for sponsors to underwrite the cost of producing and distributing the membership directory. Full page, half page and business card sponsorships are available. For more information, please contact Patrick Victor at 904-731-7109 or [victorpr@cdm.com](mailto:victorpr@cdm.com). Thank you for your continued support of water resources education through AWRA!

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### **Message from Your 2005 President**

It is my honor to serve as this year's President of the Florida Section of the American Water Resources Association. I have served on the Board of Directors for five years and been a member of the organization for 16 years. My background as a hydrogeologist and licensed Professional Geologist in Florida has given me a great appreciation for the water resources of Florida and the United States.

I feel it is necessary to acknowledge the events of 2004 before talking about 2005. The hurricanes of 2004 left a tremendous mark on Florida, and the December 26, 2004 tsunami devastated the lives and homes of many around the Indian Ocean. It is my hope that our mission to promote understanding of water resources and related issues is, at least in some small or intangible way, a contribution to the state, country, and world needs, relief efforts, or prevention of future suffering. For clarity, I would like to restate the Florida Section's mission:

Our mission is to promote understanding of water resources and related issues by providing a multidisciplinary forum for information exchange, professional development, and education. Being recognized as the preeminent organization for information exchange about water resource issues is our goal. We accomplish our mission and goal through the following key strategies:

- Intensifying multidisciplinary activities.
- Developing multiple opportunities for outreach to other organizations and to the public.
- Creating multiple opportunities for committees to be the primary vehicle for education, member networking, and organizational outreach.
- Enhancing our relationship with student chapters and the national organization.

My goals for the Florida Section in 2005 are to continue to promote and encourage Student Chapters at Florida's universities and to work with our Board of Directors to plan the future activities and role of our state chapter. Participation in the Florida Section has been a very rewarding part of my career. I hope that each of you will become enthusiastic about participating in the Florida Section AWRA and can attend at least one of our future meetings.

Please contact me, or any members of our Board of Directors, if you have any questions or suggestions. Please also contact us if you wish to participate in a more active way through committee work, sponsorship, or assisting with student chapters.

*- Allan H. Biddlecomb, P.G., 2005 President, Florida Section*

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### **January 2005 Board of Directors Summary**

- by Gail L. Murray

The January 21, 2005 board meeting was held at Ocean Hammock Resort, Palm Coast, FL. Provided below are highlights of some of the items discussed at the meeting

- Our new President, Allan Biddlecomb presided over the meeting. Many thanks were given to our leaving Secretary, Roger Rumenik and his assistant Deana Demichelis.

- Patrick Victor, Treasurer, advised us that the organization was still doing well, with a positive balance in the bank at the end of the year.
- Dave Watt will be transferring membership responsibilities to Annette Carter. **Thank you Dave for the many years of great work!!!!** We all really appreciate it.
- We received seven applications for the Storch Awards: from five undergraduate and two graduate students. The Board approved awards be given to the following applicants: Lynn Saunders and Scott Knight. **Congratulations!!!!**
- The Board was informed that two of our Board members were retiring from the Board: Roger Rumenik and Neil Aikenhead. The Board voted to fill these positions with **Gary Howalt and Steve Nix. Welcome aboard Steve and Gary!!!!**
- 2005 meeting locations and chairpersons:
  - **March 18, 2005 – Wakulla Springs:** Bill Stimmel
  - **May 13, 2005 – Lakeland:** Paul O'Neil and Walt Reigner
  - **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

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### **AWRA Florida Section Awards the 2005 William V. Storch Scholarships**

Every year the Florida Section provides scholarship awards in the name of William V. Storch to Florida university students in water resources programs. The Storch Scholarships this year have been awarded to **Lynn Saunders** and **Scott Knight**, both at the University of Florida, Department of Environmental Engineering Sciences. This year's Storch Award was based on academic performance and leadership in extracurricular activities. Ms. Saunders' doctoral research includes exploring water treatment capabilities of surface-subsurface hydrologic exchanges through natural and constructed porous substrates. Highlights of her activities include active membership in the AWRA UF Student Chapter and the UF Wetlands Club, serving as president of the Humboldt State University Chapter of Society of Women Engineers, and leading a student group on a river cleanup in Oxapampa, Peru. Mr. Knight's studies towards his Bachelors Degree include classes in water resources, water pollution and treatment, and stormwater. He will be continuing his education while working on a Masters Degree and conducting research as part of the Everglades Agricultural Area Phase 1 Reservoir Assessment.

This year's Storch Scholarship recipients were each awarded \$1,000 to assist in their education and research. The Storch Award was created in 1977-78 in honor of one of our founding members. Over the past several years the scholarships have been given to various Student Chapters to promote water resources education activities within their universities. With this year's Storch Awards the Florida Section is returning to a tradition of awarding the scholarships to individual students. To date the Florida Section has provided over \$17,000 to Florida university students. The Florida Section would like to especially thank Rosanne Clementi for her excellent work and tireless efforts in our education program.

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### **Florida Section Meeting Notice – May 13, 2005**

Mark your calendars for the May 13, 2005 Florida Section meeting in Lakeland at the Terrace Hotel. This hotel opened in 1924 as part of the Collier Florida Hotel chain. It was remodeled in 1998 back to its previous grandeur. The Terrace is located in downtown Lakeland and is adjacent to Lake Mirror, Hollis Gardens and Barnett Park, a new interactive public park. Please contact Paul O'Neil at 352-796-7211, extension 4341, if you have any questions. The April 2005 issue of the Watershed will provide details of this meeting.

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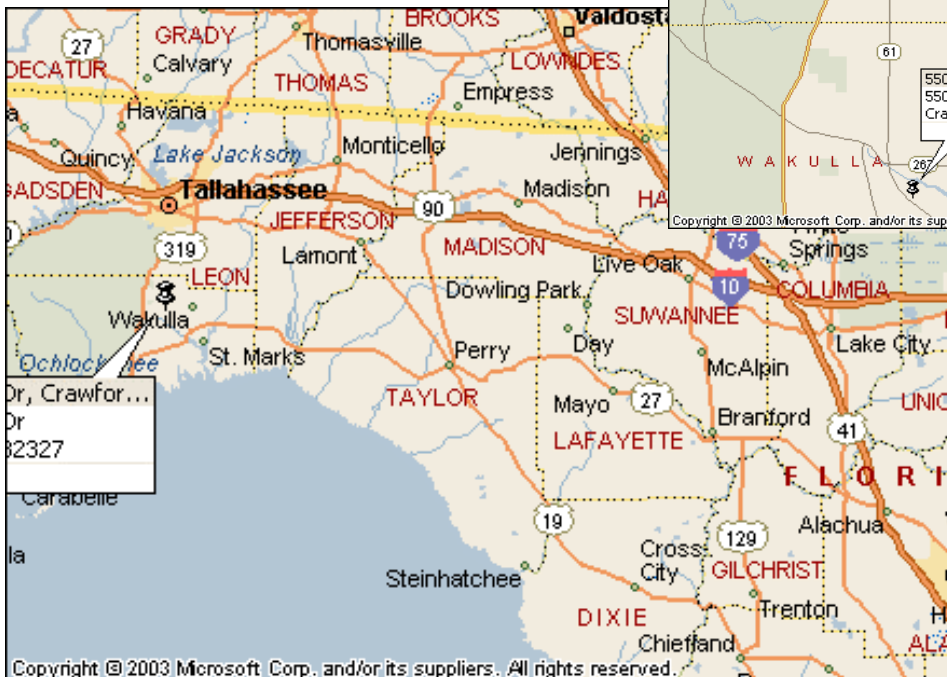
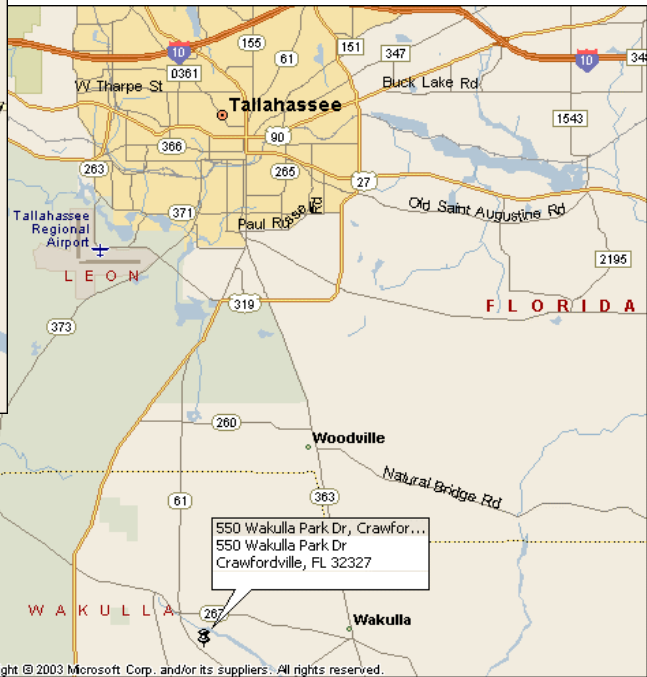
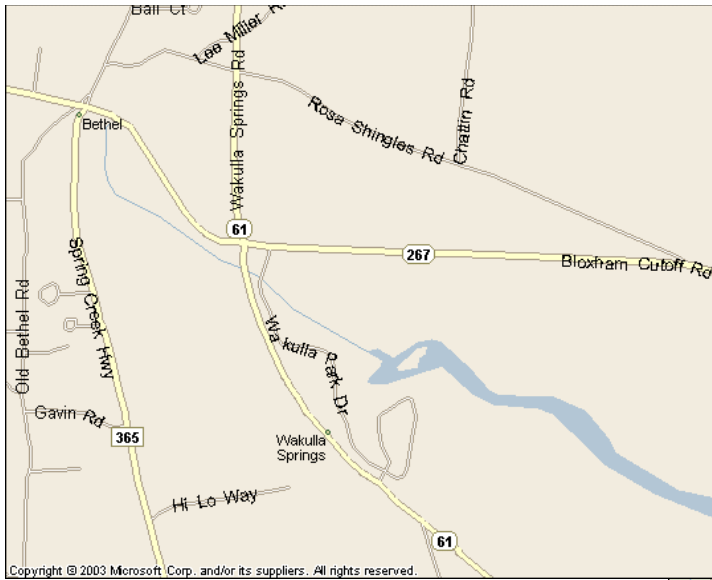
### **Announcement – John Fumero Will Be Speaking ...**

John Fumero ('99) is a keynote speaker at the Environmental Law Conference sponsored by the Florida Chamber of Commerce in Orlando on March 4, 2005. John has also accepted a speaking engagement at the Florida 2005 Water Law Conference in Tampa on May 13, 2005. He will be lecturing on the *Federal Endangered Species Act and Wetland Regulation in Florida*.

# March 2005 Meeting Sponsors



*Jim Stidham & Associates, Inc.*



## Edward Ball Wakulla Springs State Park

550 Wakulla Park Drive  
Wakulla Springs, Florida 32327  
Phone: 850-224-5950  
<http://waternet.swfwmd.state.fl.us/>

### Lodge Information

Relax in the grand lobby with its 17 ft ceiling and newly restored hand-painted ceilings. Play checkers on marble checker tables or lounge in front of the massive fireplace on those chilly days.

The lodge features 27 individually unique guestrooms. Each room has a spacious marble bathroom, walk-in closet, and antique or period type furniture. All rooms have a telephone with a data port. For a quiet and relaxing stay, our rooms have no televisions. All rooms are on the second floor of the Lodge and are accessible via the elevator or numerous staircases. Guestrooms are available for rental all year. The AWRA Group rate is \$95 per night. **The deadline for making reservations at the group rate is available through March 4, 2005. For reservations, call (850) 224-5950.**

### Driving Directions

Traveling East on I-10 to new Exit 196 (old Exit 28). Take SR-263 (Capitol Circle) South 12 miles. Turn right (South) onto US-319/SR-61 (Crawfordville Hwy) for 2 miles. Bear left onto SR-61 (Wakulla Springs Rd) for 6 miles. Turn left onto SR-267 at flashing stoplight. Turn Right into Park entrance.

From West I-10 use new Exit 203 (old Exit 30). Take SR-61 (Thomasville Rd) South. Continue on SR-61 thru Tallahassee for 10 miles. Take US-319/SR-61 (Crawfordville Hwy) South for 2 miles. Bear left onto SR-61 (Wakulla Springs Rd) for 6 miles. Turn left onto SR-267 at flashing stoplight. Turn Right into Park entrance.

**Guided Tours** - \$6.00 for adults and \$4.00 for children 12 and under

The **Glass-Bottom Boat Tour** is a 30-minute trip over Wakulla Spring, one of the world's largest and deepest freshwater springs. Peering down through the clear water to a depth of 125 feet, Park Rangers will share the mysteries and history of this unique natural area. Large gar, mudfish, bream and bass are observed, as well as, the catfish convention. One of the highlights will be observing the antics of "Henry, The Pole Vaulting Fish". Stories will be told of local folklore and passengers will see prehistoric Mastodon bones on the bottom of the spring basin.

The **River Boat Tour** is a 40 minute trip taking a different route. Park Rangers navigate the boat for the 3-mile round trip down the Wakulla River introducing you to the "Real Florida". If observing alligators and other wildlife in their natural habitat is what you are looking for then Wakulla Springs is the place to visit. The haunting call of the rare limpkin, raucous call of the moorhen or the bellowing of the bull alligator are sounds that can be heard from the river boat. Large alligators, abundant birds, whitetail deer, wild turkey, bobcats and alligator snapping turtles all call this place home. So, come on down and experience a beautiful voyage on the world-renowned Wakulla Springs Boat Tours.







# 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

For membership information, please contact David Watt at (386) 329-4355 or [dwatt@sjrwmd.com](mailto:d watt@sjrwmd.com)

## 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 & check to:** David Watt, Membership Services Coordinator  
 P.O. Box 1823  
 Palatka, Florida 32177

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.

### Section Use Only:

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



**AWRA Newsletter Editor:**

Paul W. O'Neil, P.E., Director  
Technical Services Department  
Southwest Florida Water Management District  
2379 Broad Street, Brooksville FL 34604-6899  
Phone (352) 796-7211 • Fax (352) 544-2328  
[Paul.Oneil@swfwmd.state.fl.us](mailto:Paul.Oneil@swfwmd.state.fl.us)



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

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

**Wakulla Springs**  
March 18, 2005  
Bill Stimmel  
850-668-8079

**Lakeland**  
May 13, 2005  
Paul O'Neil/Walt Reigner  
863-667-2345

**Key West**  
July 28-30, 2004  
John Wehle  
561-253-4309

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

**Welcome New Members!**

Chad D. Drummond, HSW Engineering, Orlando  
Pamela P. Kenel, Black & Veatch, Gaithersburg, MD  
Andrew M. Lawn, P.G., HSW Engineering, Orlando  
James Leroy Pearman, US Geological Survey, Altamonte Springs  
Daniel D. Richardson, Lewis, Longman & Walker, P.A., Jacksonville  
Theus W. Rogers, MS, EMC Engineering Services, Inc., Savannah, GA  
William E. Schaefer, P.E., Greenhorne and O'Mara, Jacksonville  
Michael O. Walters, Ayers Associates, Tampa  
Joyce Jinhui J. Zhang, Ph.D., South Florida WMD, West Palm Beach

