Bimonthly Meeting Announcement
The Terrace Hotel, Lakeland Florida
May 13, 2005

Peace Basin Renewal ... Opportunities to Excel

Technical Program: A variety of aspects will be covered regarding the Peace River Basin and its importance to the area. The Peace River and its surrounding areas contribute to the Charlotte Harbor Estuary and are very important not only to the population as a drinking water source, but also for their contributions to the ecology and environment of the area. Some of the topics to be covered are Future Water Needs/Growth, the impact of mining on the river, Dredging and Water Quality, Stream Restoration, and a discussion of the $10 million restoration of the Upper Peace River. In addition, there will be a discussion of the newest addition to the Lakeland Parks system, Hollis Gardens and Barnett Park. Barnett Park is a progressive, interactive public park on the shores of Lake Mirror.

Tour: On Saturday, there will be a guided tour of Hollis Gardens and Barnett Park, with discussion of the mechanics of the system, what the park was intended to do for the citizens of Lakeland, and how it was designed.

Location & Accommodations: The Terrace Hotel, 329 E Main Street, Lakeland, Florida 33803, (863) 868-0800. You can also visit their website at http://www.terracehotel.com/main.htm. The group rate is available 3 days pre and 3 days post the event based on availability. Rates: $89 – single/double occupancy; $169 – one bedroom suites, single/double occupancy; and $15 per day rental charge for crib, VCR, refrigerator. Rooms are subject to a 12% state/local tax. Reservation deadline for the group rate is April 14, 2005. Make sure you mention AWRA for the group rate.
AWRA Florida Section Bimonthly Meeting
The Terrace Hotel, Lakeland, Florida
Friday, May 13, 2005

Peace Basin Renewal ... Opportunities to Excel

11 a.m. – 1 p.m. Board Meeting – lunch provided for Board members *
Lake Mirror Room

1:00 p.m. – 5:00 p.m. – Technical Program
Peace Basin Renewal ... Opportunities to Excel

1:00 – 1:30 p.m. Lake Hancock
Discussion of Implementation of New Regulations
Harry Downing, SWFWMD
Mike Timpe, BCI

1:30 – 2:00 p.m. Lakes Education Action Drive (LE/AD)
Who, What, How
Johnna Martinez, LE/AD

2:00 – 2:30 p.m. Future Water Needs/Growth
Description to Follow
Jeff Spence, Polk County
Natural Resources

2:30 – 3:00 p.m. Impact of Mining on the Peace River
Description to Follow
Eric Evans, Hydrogeologic

3:00 – 3:15 p.m. Break – Sponsored by Southeast Environmental

3:15 – 3:45 p.m. Lake Hollingsworth Dredging & Water Quality
Description to Follow
Gene Medley, Lakes &
Stormwater, City of Lakeland

3:45 – 4:15 p.m. Stream Restoration – New Protocols FCGP
Discussion of New Technologies
John Kiefer, BCI

4:15 – 4:45 p.m. Upper Peace River Restoration
$10 Million Restoration, Includes Tenoroc & FWWCC Lands
Alan Jare, BCI

4:45 – 5:15 p.m. Hollis Gardens/Barnet Park
Progressive, Interactive Public Park Design
To Be Decided

5:30 – 6:30 p.m. Social Hour – Cash Bar & Silent Auction
Sponsored by Johnson Engineering & Taylor Engineering
Ballroom

6:30 – 9:00 p.m. Dinner
The Unique Flora & Fauna of the African Southwest
John Kiefer, BCI
Ballroom

Saturday

9:00 – 11:00 a.m. Guided Tour of Hollis Gardens & Barnett Park
To Be Decided

* Please note: If you plan to attend the Board Meeting as well as the Technical Program, please indicate that on your registration form. Thank you.
AWRA NATIONAL NEWS

The AWRA has received a “non-transferable” invitation from the White House to the "White House Conference on Cooperative Conservation: Strengthening Shared Governance and Citizen Stewardship", August 29-31 in St. Louis. This is a terrific opportunity for the AWRA which is the only organization focusing on community, conversation, and connections across disciplinary lines in water resources! For more information check out the following webpage at: www.conservation.ceq.gov.

In addition, the Second Water Policy Dialogue held in November is getting good representation. A summary letter was sent to the President and Congress, press releases and CD-ROMs are available, and meetings were held with representatives of many prominent organizations. For more information, check out our Webpage.

Remember to visit the national webpage or call the AWRA Headquarters at 1-540-687-8390. Anyone there will be glad to help you. Again, thanks.

-- Bob Moresi, Past President

AWRA FLORIDA NEWS

Florida Section Directory Updates
Board of Directors Summary
Technical Program Summary
Student Chapter News
Announcements

Where’s the New Membership Directory?

We had some computer problems, but finally got everything to the printer in March! Hopefully you have received your copy of the membership directory by the time you are reading this. If you don’t receive one by the end of April, please contact me, and we’ll get one out to you right away. I hope you enjoy using this valuable networking tool. Watch this space in future editions of The Watershed for updates to the directory.

David Watt, Member Services Coordinator
386-329-4355
dwatt@sjrwmd.com

New Members (Continued from back)

Terri R. Lowery, Jones Edmunds & Assoc., Inc., Gainesville
Suzanne L. Maurice, Vanasse Daylor, Ft. Myers
Stuart J. Muller, University of Florida student, Gainesville
C. W. Musselwhite, Diversified Drilling Corp., Lehigh Acres
Nicole R. Mytyk, University of Florida student, Gainesville
Teresa O’Carroll, Pang-Vik Development Corp., Hawthorne
Daniel L. Reisinger, University of Florida student, Gainesville

Christy L. Sackfield, University of Florida student, Gainesville
Joe P. Schmidt, Diversified Drilling Corp., Tampa
Robert F. Schmidt, Diversified Drilling Corp., Tampa
H. Roger Sharp, P.E., Bergmann Associates, Jacksonville
Alex R. Wood, Advanced Geospatial, Inc., Tallahassee
James L. Smoot, Ph.D., P.E., USGS, Lawrenceville GA
Jason Youngblood, Diversified Drilling Corp., Winter Garden

Board of Directors Summary
- Carol Hinton

President Allan Biddlecomb called the meeting to order.

- The minutes from the January meeting were distributed and approved.
- The chapter is in good shape financially. Several things have contributed to this, increased sponsorships, silent auction and lowered mail costs.

Committee Reports
- Membership – Membership report - 338 active members includes 2003 that haven’t paid; this is an increase from last year.
- Public Education – All school superintendents have been emailed information about the Butler award. Applications are due June 5, 2005. Board members were asked to post the announcements at local nature museums and other places teachers frequent.
• Storch award is up again, members were asked to spread the word to students. The applications are due August 31, 2005 and students don’t need to be a member of an AWRA student chapter. Discussion was held on starting an endowment fund for education.
• Website – The website is being update monthly.
• Student Chapters – U/F has the only chartered student chapter, but other schools have expressed interest.
• Nominating Committee – No vacancies at the current time.
• PR Committee – A press release template has been developed to send to local papers and statewide environmental papers advertising the bi-monthly meetings.

Wakulla Springs Wrap-Up

The March 18, 2005 AWRA meeting at Wakulla Springs was a great success with approximately 60 people attending the technical session and the evening dinner and presentation. Dr. Todd Kincaid discussed and showed a video of the extensive karst cave systems in the region. The video was shown on a large screen TV in the lobby of the Lodge. The full afternoon of technical discussions gave all who attended a comprehensive understanding of the research results and on going studies and investigations by many of the public agencies and citizen initiatives to address the water resource issues. Many efforts are underway to scientifically identify sources of pollution to the regions springs. The AWRA again has been successful in helping to inform and educate public and private interests in the management of our water resources. – Bill Stimmel

Technical Program Summary - March 18, 2005
– Jay Yingling

Overview of the Wakulla Springs Basin - Mr. Stevenson, Coordinator, Wakulla Springs Basin Working Group, highlighted some of the efforts to protect the Wakulla Springs contributing groundwater basin including a protective land use buffer zone over the cave system leading to Wakulla Springs, research on the potential impacts of the City of Tallahassee Wastewater Treatment Plant sprayfield, and raising awareness of Tallahassee citizens and officials of impacts to Wakulla Springs.

Groundbreaking Characterization of the Karstified Floridan Aquifer in the Woodville Karst Plain of North Florida - Dr. Kincaid, Vice President, Hazlett-Kincaid, Inc., described the groundbreaking technology of using cave divers to place flow and velocity monitoring devices at discrete points in the cave system leading to Wakulla Springs. The devices are connected to land surface by wells for periodic monitoring. The monitoring has shown velocities to be very high through these preferential pathways and has significantly added to the knowledge of the dynamics of the system.

Realistic Numerical Modeling of Groundwater Flow Based on Quantitative Site Characterization in the Woodville Karst Plain of North Florida - Dr. Hazlett, President, Hazlett-Kincaid, Inc., demonstrated how direct quantitative knowledge of flow and velocity characteristics such as that collected by monitoring devices placed by cave divers can be used in the FEFLOW model to significantly improve the accuracy of groundwater flow modeling in Karst environments. The “Karstmod” model incorporating the direct conduit data accurately predicted changes in flow in Wakulla Springs due to storm impulses.

Nitrate Loading in the Lower St. Marks and Wakulla River Watersheds - Dr. Pratt, Chief, Bureau of Ground Water Management, Northwest Florida Water Management District, indicated that nitrate loadings increased from 0.3 mg/l in 1971 to a high of more than 1.0 mg/l in the nineties. There is some question as to what is the limiting
nutrient in terms of impacts to the rivers as there is high phosphorus content in the natural rock matrix in the watersheds. Nutrients in groundwater may not be the issue as, even at high spring flow, only about 16% of the water comes from the Floridan. Sources of nitrate input in the vicinity are wastewater treatment plant effluent, atmospheric deposition, wastewater treatment plant residuals and commercial fertilizer.

**Surface/Groundwater Interactions in Karst** - Dr. McGlynn, Technical Director, McGlynn Laboratories, Inc., described a study of the Woodville recharge basin funded by Leon County and the EPA. The basin is only one of three places in the world with all three features of karst hydrology – disappearing lakes, disappearing streams and underground rivers. Nitrates appear to be migrating from the City of Tallahassee sprayfield and being diluted in conduit flow to Wakulla Springs but septic tank loadings are increasing and may be overwhelming the impacts from the sprayfield. The best solution may be to pipe effluents to basins with clay layers.

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

Mr. Davis, Hydrologist, USGS, discussed a USGS/City of Tallahassee study to trace movement of groundwater flow from the Southeast Farm sprayfield. Nitrate levels in groundwater below the sprayfield are 5 to 6 mg/l and are worse near the center pivots. They will trace the movement of compounds typically coming from wastewater treatment plants, many of which are drug compounds.

**What an Engineer Can Learn** – Ms. Heiker, P.E., Stormwater Management Coordinator, Leon County Public Works. The thrust of Ms. Heiker’s presentation was that engineers could use better input from natural science professionals in designing projects that achieve the desired result. Many regulatory standards don’t make sense or produce the maximum bang for the buck. Engineers could also use help in describing the intangibles of projects such as potential habitat changes.

**Positive, Successful, Citizen Initiative to Improve the Environment – Blueprint 2000** - Mr. Diestelhorst, Chairman, Capital Cascade Council, described a Tallahassee-area voter approved one-cent sales tax to implement projects to make roadways more environmentally friendly and aesthetically pleasing, acquire conservation easements on sensitive lands and create a stormwater treatment project featuring a multi-use trail, parks and water features including off-line wetland treatment.

**Wakulla Springs Basin Successes: Making a Difference** - The park started out with about 2,400 acres in 1994, is currently 10,000 acres, and is proposed to be expanded to 14,000 acres. Mr. Savery, Park Biologist, Wakulla Springs State Park, Florida Department of Environmental Protection, described an array of biological and water quality studies and surveys aimed at protecting the integrity of the park’s natural resources. Several projects have also been implemented to clean up and repair/prevent erosion damage at several sinks and to replace septic tanks with a sewer system in the park.

**Florida Green Lodging Certification Program** - Ms. Moore, Environmental Specialist III, Green Lodging Certification Coordinator, Florida Department of Environmental Protection, indicated that the program is a voluntary program in which lodging facilities commit to water conservation, energy efficiency, waste reduction, clean air practices and communication. Participants conduct environmental self-assessments, demonstrate environmental improvements and, if successful, are certified by trained assessors. Hotels benefit by saving money, marketing and preferential bookings for training and conferences. Certified lodging can be found at www.floridagreenlodging.com.

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**Student Chapter News**

There are now several universities with Student Chapter activity. Anyone interested in Student Chapters, especially other students or nearby water resource professionals, are encouraged to make contact with the persons listed and get involved. Anyone with additional information or questions regarding Student Chapters can contact Carol Hinton chinton@treeo.ufl.edu or Allan Biddlecomb abiddlecomb@jea.net.

University of Florida: Gordon Brown awra@ees.ufl.edu, Faculty Advisor: Dr. Jim Jawitz
University of South Florida: no recent activity, Faculty Advisor: Dr. Mark Rains mrains@cas.usf.edu
University of Central Florida: Marie Romah sromah@pegasus.cc.ucf.edu, Faculty Advisor: Dr. Ola Nnadi
Florida State University: no known activity, previous Student Chapter within Geology Department.
University of North Florida: student chapter in development, Faculty Advisor: Dr. Stephen Nix snix@unf.edu
Marie Romah reports from UCF that they have formed an AWRA Student Chapter recognized by the university as an official student organization. They are combining with FWEA and AWWA since each of those organizations share a large membership base.

The Student Chapter at University of Florida has been very active [we may need to nominate them for the 2005 Outstanding State Section © AB].

- UF students attended both the Palm Coast and Wakulla Springs Florida Section meetings.
- Dale Helms & Brian Megic of PB Water (Orlando) spoke at a Student Chapter meeting on “Water Resources Engineering Consulting Issues in Central Florida.”
- Assisted with the Environmental Career Expo on campus on January 27th (200 students & 25 public/private employers).
- On January 29th, we participated in the Air Potato Round-Up, helping gather the invasive species fruit from the woods behind the UF President’s house.
- On February 22nd & 23rd, we participated at the UF E-Fair to educate K-12 students about water resources. We borrowed ACEPD/SJRWMD/WAV’s surface water Enviroscape and Aquifer models to demonstrate surface and groundwater issues in Florida. Nine members worked with approximately 150 students over the 2 days.
- On March 26th, 5 members battled drizzle and rain to participate in the Santa Fe Lakefest & Clean-Up. In 2 hours we collected 50 lbs of garbage and 60 lbs of recyclables.
- On April 2nd, we gathered at Gilchrist Blue Spring for a cookout, beach volleyball, swimming, and camping.
- On April 12th, UF AWRA co-hosts the 2005 Environmental Research Poster Symposium. The State Section has donated $150 to be awarded to the best graduate & undergraduate Water Resources Research posters.

Time to Renew Your Membership for 2005

Florida Section membership dues for 2005 were due January 1st. Please use the membership application form in this newsletter, or the one on our web page at www.awraflorida.org. Thank you for your continued support of water resources education through AWRA!

Announcements

**J. B. Butler Science Grant**
We have advertised this grant and the due date is 1 June 2005. Please pass the information on to teachers or administrators in your area.

**William V. Storch Scholarships**
The 2005 Storch Scholarships are available for a graduate and undergraduate student. Please see the web site for details.
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

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 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.

Section Use Only:
Date Received: _______________ Check #: _______________ Amount: _______________
AWRA Florida Section Meeting  
May 13, 2005  
Lakeland, Florida  
Peace Basin Renewal … Opportunities to Excel

The Terrace Hotel  
329 E Main Street  
Lakeland, Florida 33803  
(863) 868-0800  

$89 – single/double occupancy  
$169 – one bedroom suites, single/double occupancy  
$15 – per day rental charge for crib, VCR, refrigerator  

Reservation deadline for group rate: April 14, 2005  

The group rate is available 3 days pre and 3 days post the event based on availability. Rooms are subject to a 12% state/local tax.

Meeting Sponsors  
Johnson Engineering  
Southeast Environmental  
Taylor Engineering  

Thank You!
Registration Form

Hotel Reservations Deadline – April 14, 2005
Meeting Registration Deadline – May 6, 2005

Name

Organization

Mailing Address

Phone

E-Mail

Guest Name

Registration includes Friday night dinner.

Make checks payable to AWRA Florida Section and mail to:

Paul O’Neil, PE, Director
SWFWMD - TSV
2379 Broad Street
Brooksville, FL 34604-6899
(352) 796-7211, ext. 4336

Registration (Includes Dinner) $50 X $___ = $_____
Guests $40 X $___ = $_____
Students* $10 X $___ = $_____

TOTAL $_____

Number attending Board Meeting ___
Number attending Saturday Tour ___

* 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 __________.
Welcome New Members!
Jehangir (Jango) H. Bhadha, University of Florida student, Gainesville
Barrie P. Chenea, Diversified Drilling Corp., Winter Garden
Ralph F. D’Elia, Diversified Drilling Corp., Lehigh Acres
Kimberleigh C. Dinkins, HydroMentia, Inc., Ocala
Mary K. Hamilton, University of Florida student, Newberry
Tatiana Xiumara Hernandez, TetraTech/HAI, Orlando
Robert “Ben” Huss, Jr., Diversified Drilling Corp., Dade City
Neil A. Johnson, P.G., Diversified Drilling Corp., West Palm Beach
Andrew J. Kaye, University of Florida student, Gainesville
Bruce Khosrozadeh, Civil Services, Inc., Deerfield Beach
Scott L. Knight, University of Florida student, Gainesville
(New Members Continued under Membership Directory Info)