14th Southwest Florida Water Resources Conference
Scratching the Surface – Southwest Florida Surface

Friday, September 17, 2004
Holiday Inn Riverwalk Hotel • Fort Myers, Florida

Technical Program: Although communications are not fully restored in the area, and a few attendees from the Peace River area likely will not be able to attend – neither wind, nor rain, nor Hurricane Charley will halt preparations for the 14th SW Florida Water Resources Conference!

Conference information is also available online at www.caloosahatchee.org.

Please come join us as we “Scratch the Southwest Florida Surface” and scope out those (murky?) issues. You won’t want to miss meeting the “Son of CERP”!

Location & Accommodations: On the banks of the Caloosahatchee River in historical downtown Ft. Myers lies this three-story Holiday Inn. All 147 rooms provide a tropical ambiance and come equipped with coffeemaker, refrigerator, iron/ironing board, and in-room movies. There is a block of rooms reserved for $69 per night. Tel: (239) 334-3434 or Fax: (239) 334-3844. Email: hiftmyer@aol.com

The hotel is within walking distance of the Edison and Ford Winter Estates and Museum. Toucan Charlie’s Bar and Grill, serves Breakfast, Lunch and Dinner. A favorite among locals, features great food and spirits along with breathtaking river views and sunsets. Food is also served at Toucan Charlie's outdoor Tiki Bar and Deck.

DEADLINE FOR HOTEL RESERVATIONS: FRIDAY, SEPTEMBER 10, 2004

2004 Meetings: January 30 Jacksonville; March 26 Havana; May 14 Ft. Lauderdale; July 29-31 Key West; September 17 Ft. Myers; November 1-4 National Meeting in Orlando & FL Section Meeting November 2
14th Southwest Florida Water Resources Conference
Scratching the Surface – SW Florida Surface Water Issues

Friday, September 17, 2004
Holiday Inn Riverwalk Hotel • Fort Myers, Florida

10:00 a.m. Board of Directors’ Meeting
11:00 a.m. Board of Directors’ Lunch
12:00 p.m. Conference Registration

SESSION I

1:00 p.m. Introduction and Opening Remarks
1:15 p.m. Surface Water Quality Issues
1:45 p.m. Case Study in Application of the Harper Methodology (AKA Regulatory Nightmares)
2:15 p.m. Implementing a Stormwater Utility in an Adverse Region
2:45 p.m. Public – Private Stormwater Quality Improvement Systems
3:15 p.m. Break

SESSION II – Panel Discussion

3:30 p.m. Panel Discussion – The Son of CERP & Regional Reservoirs – The C-43

SESSION III – Social Session & Dinner

5:00 p.m. Networking and Happy Hour
6:00 p.m. Dinner
7:30 p.m. Dinner Speaker
8:00 p.m. Night out in Historic Downtown Fort Myers
Registration Form

Registration Deadline – September 10, 2004

Name
__________________________________________________________________
Organization
__________________________________________________________________
Mailing Address
__________________________________________________________________
Phone
__________________________________________________________________
E-Mail
__________________________________________________________________
Guest Name
__________________________________________________________________

Please make your dinner menu Choice: [ ] Chicken Picatta or [ ] Florida Grouper

Make checks payable to AWRA Florida Section and mail to:
Ron Edenfield
Environmental Consulting & Technology, Inc.
4100 Center Pointe Dr, Ste 112
Fort Myers, Florida 33916

Registration (Conference & Dinner) _______ X $50 = $ __________
Registration (Conference Only) _______ X $35 = $ __________
Dinner Only _______ X $25 = $ __________
Student Registration (Conference Only) _______ X $10 = $ __________
Student Sponsorship* _______ X $10 = $ __________

TOTAL _______ $ __________

* 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 __________.
Driving Directions:
I-75 exit 136 (old 22) go west on Colonial Blvd to McGregor Blvd. Turn right at light, go north 2 lights to Altamonte. Turn left, Hotel at West 1st St & Altamonte on the Caloosahatchee River.

From SW Florida International Airport, turn right on Regional Ln, left on Chamberlin Parkway, bear left on Daniels Parkway, bear right on ramp at sign reading I-75 N. Continue on I-75, SR-93 (heading north) for 6 miles. Exit 138 SR-82 M L King Jr Boulevard to Ft Myers/Immokalee heading Northeast for 0.3 miles. Left on M L King Jr Blvd for 4.5 miles. Bear left on McGregor Blvd (SR-867) for 0.4 miles. Right on Altamont Avenue for 600 feet. Left on West First Street for 170 feet. Approximate driving time is 20-25 minutes.

HOLIDAY INN RIVERWALK HOTEL – FT. MYERS
2220 West First Street · Fort Myers, FL 33901
Tel: (239) 334-3434 · Fax: (239) 334-3844
Email: hiftmyer@aol.com

Holiday Inn Riverwalk is located on the banks of the magnificent Caloosahatchee River just one half mile from downtown Ft. Myers, historic district and from the Harborside Event Center. This three story hotel is situated in a perfect riverfront tropical setting. All 147 rooms provide a tropical ambiance and come equipped with coffeemaker, refrigerator, iron/ironing board, and in-room movies. The hotel is within walking distance of the Edison and Ford Winter Estates and Museum. Toucan Charlie's Bar and Grill, serves Breakfast, Lunch and Dinner. A favorite among locals, features great food and spirits along with breathtaking river views and sunsets. While offering expected hotel amenities (swimming pool, fitness room, etc), this hotel has extra resort-style facilities such as a basketball court and a day spa, Le Spa International. The hotel also boasts several options for dining and entertainment including La Marina Waterfront Cafe, The Tiki Bar, and Dockside Lounge.
14th Southwest Florida Water Resources Conference

CONFERENCE SPONSORS

Florida Section, American Water Resources Association (AWRA)
Calusa Chapter, Florida Engineering Society (FES)
The American Society of Agricultural Engineers (ASAE)
Audubon of Southwest Florida (ASWF)
Florida Association of Environmental Professionals (FAEP)
Southwest Florida Watershed Council
Caloosahatchee River Citizens Association (Riverwatch)
South Florida Water Management District (SFWMD)

Program Sponsor
Earthmark Companies

Sponsor
Lewis Longman and Walker

Dinner Sponsors
Gulf Citrus Growers Association
WCI Communities

Exhibitors
Johnson Engineering
Mariner Properties
Mitigation Credit Sales

Break Sponsors
Alico
Passarella and Associates
Bender and Associates
Yoder Brothers
AWRA NATIONAL NEWS
The elections have been completed for the new Board of Directors for 2005-2008. The results are that Dave Dewalle has been selected as President-elect for 2005, and the two new Board Members are Bill Battaglin and Tamim Younos. Bill has been serving in a temporary role and it is good to see him move to a full Board term. Remember that Florida's own Dave Watt still sits on the National Board, and will stay for an additional two years. Thanks to his help, the Florida representation on the Board is continuing. If you want more information on these members, please go to the National AWRA Webpage.

I welcome you to join us in Orlando, Florida for our 40th year of providing the technical forum that has become synonymous with water resources management, research and education. This year's annual conference will again provide the forum for you to exchange ideas, expand your knowledge, meet colleagues and friends, and also enjoy the many Orlando offerings.

This year's annual conference will prove to be the best yet. We have planned exceptional field trips, chosen a location that provides enjoyable family opportunities, and prepared a program of excellent technical merit. This meeting exemplifies the AWRA commitment for a friendly forum in which to exchange ideas, and provide challenging issues for interdisciplinary water resources discussion.

I will be there and hope to personally meet all of you. - Bob Moresi

AWRA FLORIDA NEWS
➤ Membership Directory Revisions
➤ Board of Directors Meeting Summary
➤ Education Committee News
➤ Technical Program Summary
➤ Announcements

Membership Directory Revisions
Please incorporate the revision shown below into your membership directory. If you have not received a directory, or have comments about your listing, please contact me. David Watt, Member Services at 386-329-4355 or dwatt@sjrwmd.com

Pages vi and 25
Cathleen C. Vogel
The Catalina Group Inc
2600 Alatka Street
Voice: 239-565-1429
Fax: 305-860-6165

July 2004 Board of Directors Meeting Summary
- by Gail Murray

The July 2004 board meeting was held at Wyndham Casa Marina Resort, Florida. Provided below are highlights of some of the items discussed at the meeting

➤ Mike Mesiano presided over the meeting.
➤ Patrick Victor, Treasurer, advised us that the organization was still doing well.
➤ Dave Watt said that the membership files are now up to date and we have 320 active members.
Keep up the good work everybody!!!
Rosanne Clementi indicated that we received four applications for the J. B. Butler Science Awards. The Board approved awards to the applicants of about $350 each. A time extension has been given for the Storch award applications.

Annette Carter was nominated to fill the Board vacancy.

National representatives indicated that they were looking for moderators for the National meeting to be held in Orlando this November. If you are interested, please contact John Wehle.

The Board approved updates to the by-laws. Voting on the changes will go to the general membership soon. Update: Ballots have been US mailed. Please be on the watch for your ballot.

2004 meeting locations and chairpersons:

- September 17, 2004 – Ft. Myers, Ron Hamel and Ron Edenfield;
- November 1-4 National Meeting – Orlando, FL Section Board meeting Nov. 2.

Thank you Chairpersons for the great meeting.

Education Committee Report
- by Rosanne Clementi

The Board of Directors is pleased to announce the following teachers have received J.B. Butler Grants for 2004. Congratulations to these deserving teachers!

Sherri Henley, Kindergarten Teacher, Lake Placid Elementary School
Art Wyckoff, 7th Grade Science Teacher, Ruth Rains Middle School, Cross City
Michael Malinka, 8th Grade Physical Science Teacher, Meadowlawn Middle School, St. Petersburg
Cathy Hagberg, Kindergarten- Second Grade Science Teacher, Perry Primary, Perry
Jack Palaio, Exceptional Needs Kindergarten–Second Grade Teacher, Perry Primary, Perry

Key West Silent Auction
The 3rd Annual Silent Auction at the Key West meeting was a tremendous success. We raised over $5,000 for our Education Fund. Everyone had a good time especially trying to win Bubba Docs Royal Table. We promise it will be simpler next year. Everyone is a winner at the AWRA meetings. We look forward to putting together another fine array of items for next years auction.

William V. Storch Student Award
The Education Committee has extended the deadline for the two $1,000 scholarships: $1,000 for an undergraduate student and $1,000 for a graduate student. Check out the Florida Section Webpage for the details.

July 2004 Technical Program Summary
- By Jay Yingling

July 29, 2004
Assessment of Sediment Quality in the SJRWMD: An Important Component of Managing Freshwater Systems (Greg Durell, Senior Scientist, Batelle) Mr. Durell described a multi-phase SJRWMD water quality study that began in 1995. Some of the objectives of the study were to locate and determine the ecological significance of sediment contaminants and to develop a history of sediments. Both random and targeted samples were taken from representative lakes, rivers, streams, and estuaries. The study tested for more than 100 organic compounds and 20 metals. The three areas with notable levels of sediment contamination were the Cedar Ortega River, Gainesville area lakes, and the Upper Ocklawaha chain of lakes. The next phase of the study will focus on the true environmental relevance of the contaminants, the identification and control of sources of contamination, and restoration of contaminated environments.
Evaluation of Emerging Tracer Technologies (Kathleen O'Neil and Kris Esterson, SE Region BEM Systems) Several types of tracers and their applications were addressed. Many of these older tracer technologies are costly in terms of time costs. New digital sampling technologies include in-situ analysis and recording that save a significant amount of time. A very significant savings with the in-situ digital analysis is that lab results don’t have to be waited for to make sure that a complete range of significant events has been covered.

Florida Stormwater BMPs: Fact and Fiction (Stephen R. Lienhart, P.E., Vice President, URS Corporation) Older BMPs tended to be simple, cheap, non-maintained, and have a low pollutant removal efficiency. Newer BMPs are more efficient but also tend to be more complex, require more operation and maintenance activities, and are more difficult to permit. The DEP is building a database of BMPs to develop and distribute improved data on the effectiveness of various BMPs. While older systems have focused on reducing contaminant concentrations, it is now known that the total load may be more important. Phase I will focus on data and analysis. Phase II will focus on a cost analysis. Phase III will include the development of a database query tool. The study will investigate 12 key pollutants and 50 BMPs. Statistics are being developed at 41 sites and performance analysis reports are being developed for each parameter for each BMP. Mr. Lienhart asked that if anyone has data on Florida Stormwater BMPs that they would like to share, please contact the DEP.

A Cost-Effective Strategy for Extracting Pore Water; Slipper vs. Centrifugation Method (Randy Keyser and Patrick Zuloaga (presenter), Tetra Tech FW, Inc.) Pore water is the water in the voids in sediments. Mr. Zuloaga pointed out that the USGS “slipper” probe used for testing pore water has many problems. Their team made modifications to the slipper probe and tested the results against the results of the centrifugation method. Samples were tested for several parameters using both methods and to ensure that pore, and not surface water, was actually being tested. The results showed that, relative to the centrifugation method, the modified slipper method is a simple, cost-effective, and reliable in situ method for routine monitoring of pore water chemistry.

Water Management Institute: Update on Activities (Bob Higgins, P.E., President, Higgins Engineering, Inc.; Len J. Lindahl, P.E., LBFH, Inc.; Todd Wodraska, Emerge Consulting) M. Higgins discussed the mission of the Institute and indicated that the Institute is providing seed money for the water management oral history project and will be hosting the annual meeting in Vail in January. Mr. Lindahl discussed recent activities including updating the introduction to the Florida Water Manager's Brochure (for new governing board members and executive directors), and a new Water Management Institute member brochure. Mr. Wodraska indicated that they are designing and building a website and stressed how much discussions at the Vail meeting have influenced Florida water policy over time.

Seashore Paspalum: Turf that is Friendlier to the Environment (Mike Vanatta, International Sales Director, Environmental Turf, Inc.) Seashore Paspalum is native to South Africa but has developed many cultivars in the Americas. It will grow in southern states and may survive in northern states. It evolved on sand dunes in a coastal environment which makes it well adapted to extreme severe drought, high salinity, and low light intensity. Paspalum has a dual root system of rhizomes and stolens and can develop roots up to 1 foot deep. Under a golf-type maintenance scenario, it uses 25% less nitrogen than Bermuda and tolerates a wide range of mowing heights, traffic patterns, soil conditions, and irrigation water qualities. It also uses 1/3 as much water as Bermuda. Shade tolerance is better than Bermuda but not as good as zoysia. It is installed as sod or sprigs – not plugs and costs $.20 to $.75 per sq. ft., depending on the cultivar.

Public – Private Partnerships: Pros and Cons (Walter Kulakowski, Citigroup) Mr. Kulakowski indicated that the two primary reasons that water and wastewater services are typically provided by municipalities are that they are considered “essential” government services and because municipalities enjoy a low cost of capital. Public-private partnerships are becoming more common because the water environment is becoming increasingly more complex. The increasing numbers of regulated pollutants and new higher risk technologies drive privatization. Partnerships work best where: 1) risks are beyond public sector tolerance, 2) a project is new and stand-alone, 3) construction and long-term operation are
combined, 4) there are clearly defined performance specifications, and 5) there are clearly defined payment obligations.

July 30, 2004

The Unanticipated Consequences of Purposive Water Policy (Harold V. Aiken, P.E., Vice President, MWH) Mr. Aiken contended that unanticipated consequences occur, in part, because natural systems and people are complex and many models ignore many variables. He gave several examples of policy failure: a high per capita rate allowed for one community leads to expectations by other communities of receiving the same high allocations; small changes in boundary condition assumptions caused a 100% overestimate in the Crossbar wellfield sustainable yield estimate, a utility fixes a pressure problem by increasing supply, but all the new supply disappears because the customers have not changed their low pressure behaviors (shower length, sprinkler duration). The Everglades was another “fix” gone awry. When developing policy and analyses, we need to invite diverse opinions so we can all benefit from the knowledge and share the risk.

History of Water Management in Florida – Project Update (Dave Fisk, Assistant Executive Director, SJRWMD) This project started as an introduction to water management for governing board members and created a desire to formally document the history of water management in Florida. Seed money was provided by the Water Management Institute and the project is now being funded by the five water management districts. The project consists of two phases. The first is identifying, soliciting, and archiving important documents. The second is compiling anoral history of water management. An initial list of about 50 persons to interview has been developed. Both phases are being conducted by the University of Florida. In about a year, routine internet access to the information will be available.

Aquocalma Project: Reflecting on a Public-Private Resource Project - Not presented

What’s the Latest? – What’s Expected? (Dave Moore, Executive Director, SWFWMD; Dave Fisk, Assistant Executive Director, SJRWMD; David Still, Assistant Executive Director, SRWMD; Carol Wehle, Assistant Executive Director, SFWMD; (John Wehle filled in for Doug Barr, Executive Director, NWFWMD) The representatives of the districts gave recaps of the year’s significant activities and successes and what they expect to occur, both in their districts and in the legislature, next year. They are too numerous to summarize. Overall, it was an impressive list of accomplishments.

Mark Your Calendars – January 21, 2005

Make plans now to attend the first AWRA meeting of the New Year! Our January ’05 session will take place at Ocean Hammock, Palm Coast on the beautiful shores of the Atlantic Intracoastal Waterway. Extensive historical research (aka: The collective memories of Board President Mike Mesiano and Board member Cathy Vogel) confirms that this will be the first time ever that a Florida Section AWRA meeting has been held in Flagler County, Florida! Mark your calendars now for Friday, January 21, 2005 and don’t miss this inaugural event!
2004 Membership Application

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 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:  _______________
Each year the voting membership of the Florida Section, American Water Resources Association elects directors to its board. The nineteen (19) member board is composed of seventeen (17) elected directors and the past presidents for the previous two (2) years. Board members determine the policy and lead the activities of the Section in accordance with its Articles of Incorporation and Bylaws. Directors are expected to actively participate in association activities and to attend regularly scheduled board meetings. Any board member who misses three (3) consecutive board meetings in a year may be removed by action of the board. In addition, in 2005 the board wishes to amend the bylaws of the Florida section. A copy of the proposed revised bylaws is attached.

**Ballot Directions** – You are voting for all seventeen (17) candidates on the ballot for this election. Mark your choices on the enclosed ballot in the space provided next to each name and mail the ballot as soon as possible. Election results will be tabulated in November and published in the December issue of the Section newsletter “the Watershed.” Newly elected board members will be installed at the January 2005 board meeting in Palm Coast. You are also voting to approve the bylaws revisions.

**BALLOT**

Please indicate your selection with an X, or indicate a write-in candidate.

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<td>Ronald Edenfield, PE – Ft. Myers</td>
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<td>Jay Yingling – Tampa</td>
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<td>Sanford Young – Tallahassee</td>
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**Approval of Bylaws Revisions**

Please mail/fax/email your completed ballot no later than October 31, 2004 to:

Gary K. Howalt, Tellers Committee  
AWRA Florida Section  
7220 Financial Way, Suite 100  
Jacksonville, Florida 32256  
Phone (904) 470-2200 · Fax (904) 470-2112  
Email ghowalt@esinc.cc
Contact Upcoming Meeting Chairmen Regarding Sponsorship or Assistance

- **Ft. Myers**
  - September 17, 2004
  - R. Hamel & R. Edenfeld
  - 863-675-2180

- **Orlando**
  - National Meeting Nov 1-4
  - Harriette Bayse
  - 540-687-8390

- **Ocean Hammock**
  - Palm Coast
  - January 21, 2005

- **TBA**
  - March 2005

Welcome New Members!

- Daniel Bergin, University of Florida student, Gainesville
- David Collins, PE, DEE, Camp Dresser & McKee, Inc., WPB
- Kevin Ellerton, Barnard Construction Company, Bozeman, MT
- William Kirk, PG, EMS Scientists, Engrs, Planners, Inc., St. Augustine
- Capt. Edward Maciejko, South Florida WMD, Stuart
- Mark Mechling, PE, Ellis & Associates, Inc., Jacksonville
- Patrick Pye, EMS Scientists, Engrs, Planners, Inc., Altamonte Springs
- Doug Strom, Water and Air Research, Gainesville
- Sandy Wright, Malcolm Pirnie, Inc., West Palm Beach
- Michael Zelazo, University of Florida student, Seffner