



# the Watershed

*Embassy Suites Deerfield Beach Resort  
Deerfield Beach, Florida  
September 20, 2002*

**Smart Growth:  
Is Florida Up to the Challenge?**

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11:00 pm to 1:00 pm	Board of Director's Meeting (working lunch)
1:00 pm to 1:10 pm	Welcome and Overview of Meeting <ul style="list-style-type: none"> <li>Stephan J. Nix (Program Chair), Florida Atlantic University, Boca Raton</li> <li>William Stimmel (President, AWRA FL Section), South Florida WMD</li> </ul>
1:10 pm to 2:00 pm	Screening and Discussion of "Success in the Sunshine" (a 26-minute documentary sponsored by the NOAA Office of Sustainable Development to be aired on PBS stations in Florida and nationwide). <ul style="list-style-type: none"> <li>Diane Delaney and Donald Lesh, Applied Sustainability Enterprises, Panacea, FL</li> </ul>
2:00 pm to 2:10 pm	Introduction of Moderator and Panelists <ul style="list-style-type: none"> <li>Stephan J. Nix, FAU</li> </ul> <p style="text-align: right;"><i>Interviewer/Moderator</i></p> <ul style="list-style-type: none"> <li>Donald Lesh, Applied Sustainability Enterprises</li> </ul> <p><u>Panelists</u></p> <ul style="list-style-type: none"> <li>Laura Jacobs Feagin - Associate, Lewis, Longman &amp; Walker, P.A., Tallahassee</li> <li>Nancy M. Graham - Urban Principles, Inc.; West Palm Beach</li> <li>Phil Leary - Director of Government and Community Affairs, Florida Farm Bureau Federation, Gainesville</li> <li>James F. Murley - Director, Catanese Center for Urban and Environmental Solutions, Fort Lauderdale</li> <li>Cari Roth - General Counsel, Florida Department of Community Affairs, Tallahassee</li> <li>Neil Schiller - Poole, McKinley &amp; Blosser, Fort Lauderdale</li> </ul>
2:10 pm to 3:00 pm	First Round of Questions for Panel - "Smart Growth: How are We Doing?" <ul style="list-style-type: none"> <li>Donald Lesh, Interviewer</li> </ul>
3:00 pm to 3:20 pm	BREAK
3:20 pm to 4:10 pm	Second Round of Questions for Panel - "Smart Growth: The Future" <ul style="list-style-type: none"> <li>Donald Lesh, Interviewer</li> </ul>
4:10 pm to 4:50 pm	Audience Questions for Panel <ul style="list-style-type: none"> <li>Donald Lesh, Moderator</li> </ul>
4:50 pm to 5:00 pm	Summary and Wrap -up <ul style="list-style-type: none"> <li>Stephan J. Nix, Program Chair</li> </ul>
5:00 pm to 6:00 pm	Social Hour (cash bar)
6:00 pm to 8:00 pm	Dinner - Keynote Speaker <ul style="list-style-type: none"> <li>Dennis E. Gilkey, President and CEO, Bonita Bay Group, Naples</li> </ul>

**For more information, contact Steve Nix at 561-297-0466 or snix@fau.edu.**

**American Water Resources Association  
Florida Section Meeting  
September 20, 2002**

Embassy Suites Deerfield Beach Resort  
950 Southeast 20<sup>th</sup> Avenue (A1A)  
Deerfield Beach, FL 33441  
(954) 426-0478

**Hotel Information**

The **Embassy Suites Deerfield Beach Resort** is offering AWRA-Florida Section rates of \$99 for a sunset view suite or \$119 a night for oceanview suite. All accommodations are two-room, two-bath suites and include a complimentary made-to-order breakfast and two-hour evening beverage reception. Maps and directions can be found at [www.embassysuites.com](http://www.embassysuites.com).

**The deadline for reservations at these rates is September 6, 2002.** Be sure to mention you are attending the AWRA meeting.

**Directions**

Take I-95 to the Hillsboro Boulevard exit (exit 37, the northernmost exit in Broward County), go east to A1A, take A1A south for 1/2 mile to the resort (which will be on the ocean side).

***Registration Form***

**Name** \_\_\_\_\_  
**Organization** \_\_\_\_\_  
**Mailing Address** \_\_\_\_\_  
\_\_\_\_\_  
**Phone** \_\_\_\_\_  
**E-mail** \_\_\_\_\_  
**Guest Name(s)** \_\_\_\_\_

<b>Registration (includes dinner)</b>	_____	x \$45 =	_____
<b>Student registration (inc. dinner)</b>	_____	x \$25 =	_____
<b>Guests (dinner only)</b>	_____	x \$30 =	_____
<b>TOTAL</b>			_____

Make checks payable to **AWRA Florida Section** and mail to: Steve Nix  
Dept. of Civil Engineering  
Florida Atlantic University  
777 Glades Road  
Boca Raton, FL 33431  
Phone: (561) 297-0466  
e-mail: [snix@fau.edu](mailto:snix@fau.edu)

**Registration deadline is September 6, 2002!**

**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

The second 2002 Board of Directors meeting was held in Keystone Colorado at the Summer Specialty Conference. The conference, titled "Groundwater/Surface Water Interaction" was well attended and presented an excellent technical program. Of course the location helped. The next nationally-sponsored meeting will be the National Conference in Philadelphia from November 3-7, 2002. The papers have been received at record numbers. This guarantees an extremely high quality conference. We hope all of you can attend, so look for the preliminary program sometime in mid-September. The program and registration will be available on the AWRA webpage, so use it to your benefit.

Speaking of webpages, the National webpage has been receiving high praises by its users. Historical publications are available, information on the Board of Directors, access to technical sources, registrations, purchasing, and many other advantages. We suggest you visit the site as a valuable resource. Since the webpage has been developed in 1996, the number of visitors has increased from several hundred to over 35,000 in May 2002. Interesting is the fact that the largest single user has been the South Florida Water Management District.

At the Board of Directors meeting in Keystone, major action included approval of Student Chapters at the University of Texas, and Texas A&M University, and approval of the Virtual Mentor Program. The Virtual Mentor Program is intended to provide professional guidance to students from the experienced professionals within AWRA. This service will be available through the webpage, and is almost ready to be launched. The intent is to provide direct access to volunteer AWRA members who are willing to share their experience and advice to new members and graduating students looking for direction in their careers. We believe this service will provide valuable advice to those just starting their professional careers.

**-Bob Moresi**

## AWRA FLORIDA NEWS

### Summary of Board of Directors Meeting July 25th and 26th, 2002

The July board meeting was held at Flagler's Casa Marina, Key West, Florida. Provided below are highlights of some of the items discussed at the meeting

- Bill Stimmel presided over the meeting.
- Our current active membership is 344. **KEEP UP THE GOOD WORK!!!!**
- Rosanne Clementi advised us that the final count for the JB Butler Award was 10 requests. The Board approved awarding grant money to 7 of these requests. The total amount to be awarded is about \$2,400. **Congratulations recipients.**
- The Board approved of giving our student chapters some financial support. Each chapter, UF and USF, will receive \$500.

- Present at the Board meeting were several national members: Ken Lanfear who is the current National AWRA President, Ken Reid (Executive Director) and Briane Adams.
- We were notified that the AWRA Florida Section has been the only section to achieve the "**Platinum**" level of contributions to the Richard A. Herbert Memorial Education Fund (\$4,580).
- The Board will have one new position open for next year. The Board approved the nomination of Ron Edenfield for that position. Ballots will be sent out soon for the election of next year's board.
- Recognition awards to be presented to ENSR (Corporate award) and SJRWMD (Public award) at the Caribbean Luau.
- **DON'T FORGET:** [awraflorida.org](http://awraflorida.org) is awaiting your review and use.
- We were advised the AWRA Florida Section List Serve is now up and available for sign-up.
- The Board voted to attend a Strategic Planning Retreat prior to the January meeting. This meeting will focus on how to best achieve our Section goals.
- Ron Hamel and Ron Edenfield are working on the November meeting. Look for more information in the next Newsletter.
- The remaining 2002 meeting locations and chairpersons: **September 20, 2002 - Deerfield Beach**, Steve Nix; and **November 15, 2002 - Ft. Myers**, Ron Hamel and Ron Edenfield.

**See you in Deerfield Beach!!!!**

**- Gail Murray**

### Technical Program Summary July 25th and 26th, 2002

John Wehle chaired yet another very successful Key West meeting. The technical sessions included the following:

Naomi S. Duerr, P.G., from the South Florida Water Management District presented "A Phosphorus Regulation for the Everglades!" Water standards must be achieved by December 31, 2006 in the Everglades Conservation area which is a series of water conservation areas which included not only the Everglades National Park but other areas as well including the Kissimmee Okeechobee Everglades. To arrive at a solution the SFWMD has been developing a numerical standard that should be **adopted by Dec 31, 2003**. If the numerical standard is not developed by then, the standard will default to 10 ppb.

- Everglades Protection Area. The program will:
  1. Quantify impact
  2. Identify sources of Phosphorus
  3. Examine Phosphorus control
  4. Model Phosphorus fate and transport
  5. Be peer reviewed

(Continued on Page 5).

**- Patrick Victor**



## THREE CHEERS FOR EDUCATION



### ***J.B. Butler Science Grant***

The Education Committee brought the Board seven eligible JB Butler Science Grant proposals requesting a total of \$2,384.39. The Board unanimously voted to approve the funding of the following requests for funds to promote water resource education.

Ms. Lynne Gelinis a 5<sup>th</sup> Grade teacher from Westside Elementary School in Palm Bay for a unit entitled “Water, Precious Water”. Ms. Gelinis will receive \$350.00 to purchase a USB Microscope, Pond Ecology and other water testing kits.

Ms. Carolyn Leyon a 5<sup>th</sup> Grade teacher from Bessey Creek Elementary School in Palm City for a unit entitled “The River and You”. Ms. Leyon will receive \$337.38 to purchase a Carolina Classroom River Kit, Gro light, Island Ecosystem and a video.

Ms. Bonnie Cary a Science Resource teacher at St. Barnabas School in DeLand for GLOBE participation. Ms. Cary (a 2000 JB Butler recipient) will receive \$350.00 to purchase pH and conductivity meters.

Ms. Maria Sands a 2<sup>nd</sup> Grade teacher at Binks Forest Elementary School in Wellington for a unit investigating the Everglades and other water ecosystems. Ms. Sands will receive \$322.01 for CD-Roms, Literacy bags, puppets, charts and videos.

Ms. Marguerite Kling a 3<sup>rd</sup> grade teacher at Suncoast Elementary School in Spring Hill for a unit called “Water Wise Kids”. Ms. Kling will receive \$350.00 for books, and a membership to the Awesome Aquifer Club.

Ms. Patricia Davis a 6<sup>th</sup> Grade teacher at Golden Gate Middle School in Naples for a unit in wetland ecosystems. Ms. Davis will receive \$325.00 to purchase books and a video.

Ms. Kristy Loman Chiodo an 8<sup>th</sup> Grade teacher at Stewart Middle School in Tampa for a unit called the “Hillsborough River Rats Project”. Ms. Chiodo will receive \$350.00 for a salinity refractometer, sechhi disk, nets, poles and water testing field manual.

### ***William Storch Award***

The Board voted to again use the Storch Award to honor the University of South Florida and University of Florida Student Chapters with \$500.00 each to support these chapters.

### ***The First Annual Silent Auction in Key West***

We organized and held the first Silent Auction in the history of Section to raise money for our scholarships and grants. We had items donated from Ed Finch, Foster Wheeler, Bob Higgins, Patty Goodman, Jay Yingling, National AWRA, Southeast Environmental Solutions, and Cathy Vogel. The auction was successful beyond our expectations and everyone had a great time bidding on the items. We raised \$2,567 and already have three items donated for the auction next year. Be prepared for even more fun next year and be sure to bring more money with you!

- Rosanne Clementi, Education Committee Chair

- Jeff Elledge, P.E. from the St. Johns River Water Management District presented Phosphorus limitations for the Upper St. Johns River. In general term the process was discussed. PLRGs are developed for the lakes but are still in the development stage for the marsh. Pollutants identified are DO, Iron, Mercury, Lead, Turbidity, Chlorides, and Nutrient (N & P). Phosphorus will be the one that will be controlled. Reduction of Phosphorus required varies between from 27 and 48 percent. Projects already in place would likely accomplish that goal. Retrofit may not be needed. TSS however would have to be regulated.
- Neil Aikenhead from Edward and Kelcey presented the “Politics and Stormwater” in Atlantic Beach. The premise: cannot change anything but residents wanted flood height and duration to decrease. The project was separated in phases and A&O developed an innovative concept and focused on communicating the information to the people of the City.
- Tarang Khangaonkar presented Coastal Wetlands Restoration Design Using Hydrologic and Hydrodynamic Models. Description of a restoration in the Washington State area. The project involved the removal of a gate on the Chinook River.
- David Austin Presented the use of a Hydroponic reactor to provide removal of nutrient. Basically they are lagoons where various plants are planted at the surface and provide excellent BOD and TSS removal. The reactor has been proven to be great for tertiary treatment and has been proven to be cost effective for decentralized wastewater treatment and reuse.
- Mike Vanatta & Sandy Young presented on the benefits of using Horizontal Wells. Over 400 installations in Florida have been in operation since the late 1980s and early 1990s, and provide an excellent source for water supply and bank infiltration. Example used was St. Lucie County. This methodology was also used for fire fighting. Average depth 18 to 32 feet.
- Tim Kelly presented “The Cost of TMDL Compliance – A Method of Equitable Assessment.” Funding mechanism for TMDL. Projected that it would cost \$950 million, and Seminole county found that it would cost \$107 million. Bottom line cost will be significant. Grant and loan is limited for these retrofits therefore the question posed is where the money

- is going to come from. He proposed that it will have to be from Stormwater quality based rate structure. A detailed presentation ensued that established how such a utility can be set up.
- “Updates from the Top-DEP, DCA & WMDs with David Struh (FDEP), Henry Dean (SFWMD), Dave Fisk (SJRWMD), Sony Vergara (SWFWMD), Cari Roth (DCA) and David Pope (NFWWMD) highlights:
  - 1. The tri-state negotiation is on-going
  - 2. Springs of Suwannee are being impaired by Agricultural and SRWMD has moved on to negotiate with the agriculture land to have them engaged in voluntary BMPs similarly with the Dairy farmers.
  - 3. Everglades land purchase is moving on - 45 percent of what is needed has been acquired. First 10 projects with excess of 70 percent of land acquired.
  - 4. Restoration plan for Bio Chico is moving on
  - 5. Development of east water supply agenda and evaluation of alternative water supply
  - 6. Development of economic model for the payment of the construction of water supply infrastructure for alternative water supply
  - 7. SJRWMD is going to take full advantage of the internet for permitting communication
  - 8. SWFWMD Downward trend in the groundwater is a big problem and has entered in an agreement with Tampa Bay water supply to cap their withdrawal to 100 MGD.
  - 9. Real time monitoring of water usage by Tampa Bay water
  - 10. Reduction of groundwater usage from 121 mgd to 90 mgd by 2007 with more emphasis on reuse and on building the infrastructure required to deliver the reuse water
- Ralph Metcalf and Dale Twachtmann presented the South Tampa Area Reclaimed Water Project (STAR). Great effort by the City of Tampa in building a supply line to provide gray water to users. The process was discussed along with successes and failures. The project is moving forward and should be completed in the next year.
- Bruce Long presented Endocrine Disruptors and educated us on what they are and how they can be removed

Thanks to these sponsors for their generous support of the  
September 2002 Deerfield Beach Meeting!

**PBS&J**  
**Golder Associates, Inc.**  
**URS Corporation**  
**CH<sub>2</sub>M Hill**  
**ENSR International**  
**Law Engineering (a MACTEC company)**

**Directory Revisions**

Revisions for members in the 2002 directory are shown below. Please update your directory. If you have not received a directory or have comments about your listing, please contact me.

<b>PAGE</b>	<b>LISTING</b>	<b>REVISED INFORMATION</b>
10	Heald, Karen	zip code = 33024
13	Kish, Suzanne	434 NW 25 <sup>th</sup> Street Gainesville, FL 32607-2689
14	Lindahl, Lennart E	len@lbfh.com
	Lodge, Patricia	pattilodg2@aol.com
16	Merritt, Michael	USGS Retired mmerritt85@cfl.rr.com
22	Savoicea, Gregory	Sawka, Gregory J Southeast Soil & Environmental Service Inc gsawka@juno.com

David Watt, Membership Services/386-329-4355/dwatt@sjrwmd.com

"Rosanne Clementi has been coordinating donations for used computers for middle school students who would never be able to afford one. Through a federally funded grant at for a program called Student Assistance we are able to give students at risk a computer. If you are upgrading and have no home for your used computer, please contact me at (813) 752-1289 or email me at [sesrosanne@aol.com](mailto:sesrosanne@aol.com). Your donation will help a student more than you could imagine."





# 2001 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)

Affiliation: \_\_\_\_\_

Mailing Address: Work  Home

\_\_\_\_\_  
Box, Street or Route Suite or Apartment

\_\_\_\_\_  
City State Zip Code

Daytime Telephone: Work  Home  \_\_\_\_\_  
Area Code

Facsimile: Work  Home  \_\_\_\_\_  
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 904-329-4355 or david\_watt@district.sjrwmd.state.fl.us

## PAYMENT INFORMATION

\$ \_\_\_\_\_ Florida Section Water Resources Education Fund tax deductible contribution

**Make checks payable to:**

***AWRA Florida Section***

**Return check to:**

***David Watt, Membership Services Coordinator***

***417 Kirby Street***

***Palatka, Florida 32177***

Florida Section membership dues for 2001 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: \_\_\_\_\_



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VISIT THE FLORIDA SECTION WEBSITE FOUND ON THE  
AWRA NATIONAL PAGE:  
[www.awra.org/state](http://www.awra.org/state)

CONTACT UPCOMING MEETING CHAIRMEN REGARDING SPONSORSHIP OR ASSISTANCE

**Deerfield Beach**  
September 20, 2002  
Steve Nix  
561-297-0466

**Ft. Myers**  
November 15, 2002  
Ron Edenfield  
941-277-0003

## Welcome New Members!

David J. Carlson, P.E., Black & Veatch Corporation  
Patricia K. Goodman, MPA, South Florida WMD  
Jose M. Guzman, CDM  
Bill Hutchinson, Planning and Economics Group  
Sri G. Rao, Engineering & Applied Science, Inc.  
Charles S. Thomas, P.E., Parsons

