



## A Message from the President



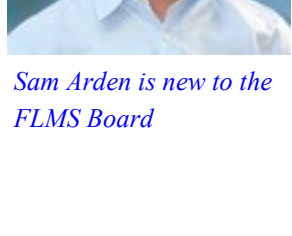
*Jennifer Sagan taking care of Florida's water resources*

In life and professionally I always strive to find a silver lining when the dark clouds form on the horizon. In the past few decades I have seen many instances of ancillary benefits from processes that others may have found burdensome or from events that have been near catastrophic. For instance, I think the Basin Management Action Plan (BMAP) process has opened up lines of communication and offered a venue for sharing information and resources like no other program in our state. I have watched as stakeholders have reduced data collection and analysis costs, lessened demand on resources, and increased data collection efficiency after "discovering" local data and resources. Similarly, the after effects of the BP Oil Spill have spawned a flurry of activity related to obtaining RESTORE Act funding. Counties, NGOs, federal and state organizations and private entities are discovering and pooling institutional knowledge and resources to design and implement watershed-level projects. The North Florida Regional Water Supply Partnership and Central Florida Water Initiatives are other examples of processes that provide opportunities for cross talk.

Why does this appeal to me so? I am stingy with both my time and resources. I loathe reinventing the wheel. Streamline it? Yes! Adapt it to your particular needs? Yes! But begin from ground zero? What a waste of time! If economy of purpose appeals to you too, you will appreciate the level of resource sharing that the Florida Lake Management Society supplies to Florida water resource managers and consultants. Through the chapter meetings, newsletters, annual symposium and workshops, and collegial networking, FLMS offers insights and solutions to Florida-specific challenges that we face in our waterbodies and watersheds. I look forward to a new year hearing about the new projects in which our members are involved!

**Jennifer Sagan**

## Meet New FLMS Board Members



*Sam Arden is new to the FLMS Board*

### Sam Arden

New to the FLMS board, Sam Arden has worked as an environmental engineering consultant for the past three years on a variety of Florida-based projects including wetland restorations, lake management plans and environmental permitting. This fall, he will be returning to the University of Florida to start his PhD at UF's Center for Environmental Policy. His work will continue down the water resource path with an EPA funded fellowship focusing on energetically sustainable water resource issues. Although the project will have a national focus, the issues that the project will attempt to address – efficient integration of potable water, stormwater and wastewater design and management – will always have far reaching implications in Florida, especially for the lake management community.

As a board member, Sam hopes to combine his professional and academic experience in support of FLMS goals. From UF, he will function as a student representative, working to attract new members from all Florida universities.



*Brian Catanzaro is new to the FLMS Board*

### Brian Catanzaro

Brian grew up fishing the local lakes and rivers in Cincinnati, Ohio. He developed a passion for the outdoors and the aquatic environment early in his life. This naturally led to the pursuit of a college where he could further study fish and wildlife. In 1995, Brian became the hatchery manager at a fish hatchery in his hometown. This allowed him to get his feet wet in lake management throughout the mid-west. In 1999, he moved to Florida to begin a career that would allow him to be involved in lake management projects, not only in Florida, but throughout the world.

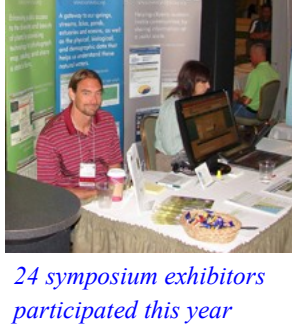
"I can tell you that while all lakes throughout the world share many commonalities, some locations present unique and interesting circumstances. As lake managers it seems like we face new and exciting challenges nearly every day." Brian feels it is important for all of us to share our ideas and experiences so that others may benefit from the obstacles we must overcome.

As a FLMS Board Member, Brian would like to promote the interaction of the society with the industry partners. He believes this to be an important relationship in the development of new technologies that can further the success of effective lake management strategies.

"As technology improves the way we are able to manage lakes it is important that we freely exchange ideas. It is apparent these days that technology is changing the world we live in and essential for us as lake managers to adapt to those technological advancements. The interaction of FLMS with industry partners is essential to aid in the exchange of ideas, technology, and how to effectively apply them."

As a Board Member, Brian looks forward to facilitating this exchange by utilizing the open forum that FLMS provides.

## FLMS 24th Technical Symposium a Huge Success



*24 symposium exhibitors participated this year*

The 22<sup>nd</sup> SE Lakes and Watershed Management Conference and the 24<sup>th</sup> Florida Lake Management Society Technical Symposium, held on June 18-20, 2013 at Daytona Beach Florida, welcomed over 100 attendees from Florida and southern states. The theme for this year's symposium was "Integrating Lake and Watershed Management", and the plenary talks were initiated by outgoing FLMS President Sherry Brandt-Williams, Lawrence Keenan, Conference and program Chair and Ann Shortelle, NALMS President and Executive Director of the Suwanee River Water Mgt. District; with keynote speaker: William Mitch, Director of the new Everglades Wetland Research Park and Julie Sproul Chair for Southwest Florida Habitat Restoration and Management.



*Plenary Speaker: Bill Mitsch*

Mark Brenner, Director of the University of Florida Land Use and Environmental Change Institute was the special lunch speaker on Tuesday with a talk on "Insights from Lake Sediment Cores on long term Interactions among: climate, environment and humans in the Neotropics. The Wednesday's plenary session follow with a feature talk by Wendy Graham (Carl S. Swisher Chair in Water Resources and Director for the University of Florida Water Institute) on the Santa Fe River Basin Study.

Topics at this year's technical symposium included fifty three (53) talks on research, problems and solutions strategies on southern reservoirs, lakes and Florida springs. These topics include, but were not limited to: Watershed /In-Lake Restorations, Groundwater Seepage Interactions, Stream Condition Index, Numeric Nutrient Criteria, Reclaimed Water Impacts on Lakes, Meeting TMDL Requirements, Impaired Waters Rule, Lake Nutrient Loadings /Water Quality and Lake Vegetation Management.

The following FLMS Awards were given during the Banquet: The Marjorie Carr Award: Emilio "Sonny" Vergara, The Edward Deevey, Jr. Award: Mark Brenner, The Scott Driver Award: Jill Heinerth, The Richard Coleman Aquatic Resources Award: John Hendrickson, and the Marjory Stoneman Douglas Award: Jeff Klinkenberg. The banquet concluded with the exit of outgoing FLMS President Sherry Brandt-Williams, and the appointment of Jennifer Sagan as the new FLMS President.

Twenty four (24) symposium exhibitors participated this year with new products ranging from water quality monitoring equipment to dredging, aquatic weed control and environmental management Services. Several companies presented new equipment and interesting talks on lake alum applications, lake aeration and satellite picture analysis for algae, phosphorous/nitrogen detection and in lake distributions. All presenters and attendees at the SENALMS – FLMS Symposium were experts in Florida's government, academic and private sectors and CEU's were given at the conference to obtain or maintain professional Lake management certifications. The FLMS granted seven grants for students to attend the conference, and prizes were given to the 3 best student's paper presenters.



*L: After hours networking*



*R: Awards Banquet*

## Statement from FDEP Secretary Herschel T. Vinyard Jr. Regarding EPA Action on Numeric Nutrient Criteria

**Important Links**  
[http://www.dep.state.fl.us/water/wqssp/nutrients/docs/NNC\\_Implementation.pdf](http://www.dep.state.fl.us/water/wqssp/nutrients/docs/NNC_Implementation.pdf)  
<http://www.dep.state.fl.us/water/wqssp/nutrients/>  
[http://www.dep.state.fl.us/water/wqssp/nutrients/docs/fdep\\_epa\\_nnc\\_coverage\\_comparison.pdf](http://www.dep.state.fl.us/water/wqssp/nutrients/docs/fdep_epa_nnc_coverage_comparison.pdf)

**TALLAHASSEE** (June 28, 2013) – Today, DEP's implementation plan for Florida's nutrient criteria were approved by the U.S. Environmental Protection Agency. EPA also filed a motion in the federal court to amend the Consent Decree to reflect its determination that further federal rulemaking is unnecessary given DEP's rulemaking efforts.

Florida continues to fulfill the obligations reached in the path forward agreement in March to eliminate the need for continued dual rulemaking and secure the foundation for a singular, state-led solution for the state of Florida. The Department continues to set numeric nutrient criteria for virtually all waterbodies in the State furthering our position as a national leader in the adoption of these important standards.

We are gratified by the EPA's actions today which set us on a path to having effective, comprehensive numeric limits for our state waters. This action marks a significant step forward in protecting and restoring water quality across the state.

It is important to move past the rulemaking and into implementation because that is when change occurs to address our nutrient challenge in the state. DEP, especially our dedicated staff scientists, and EPA have been working diligently to position us as the only state in nation with comprehensive criteria set for all rivers, streams, lakes, springs, estuaries, and coastal waters. I am very proud of their efforts.

This is another example of how the environment wins when the hard work of scientists at DEP and EPA -- and not costly litigation -- improves Florida's water.

### Background:

In March 2013, the Florida Department of Environmental Protection and the U.S. Environmental Protection Agency reached an agreement to continue the protection of Florida's waterways from excess nitrogen and phosphorus pollution. This agreement, once implemented and completed, will be coupled with EPA's prior approval in November of the Department's adopted water quality standards. The result will be Florida having numeric nutrient standards for lakes, streams, springs, estuaries and coastal waters, and all but nearly 1 percent of these waterways in the state.

In November 2012, EPA approved Florida's numeric nutrient criteria for lakes, rivers, streams and springs, as well as estuaries from Clearwater Harbor to Biscayne Bay and the Florida Keys. Late last year DEP developed nutrient criteria for Panhandle estuaries.

## Miscellaneous Notes of Interest



*From left, study authors David A. Kaplan and Daniel McLaughlin at UF's Austin Cary Forest, a teaching and research forest northeast of Gainesville.*

### UF Researchers Find Way to Increase Water Supply to Streams and Lakes

GAINESVILLE, Fla. (August 7, 2013)— Despite a soggy summer, water supply remains a critical issue in the Sunshine State. University of Florida researchers now say that reducing plant material, or biomass, in forests could significantly increase water supplied to streams, lakes and aquifers.

Researchers with the UF Institute of Food and Agricultural Sciences made the finding by creating computer models that analyzed the effects of reduced forest biomass on regional hydrological supplies. Their results will be published in the [August issue](#) of the Journal of the American Water Resources Association.

In one 4,000-acre tract in Central Florida, the model predicted that converting a densely planted pine forest to one managed with slightly fewer trees per acre could supply an additional 400,000 to 1.6 million gallons of water per day to the regional water supply.

Matthew Cohen, study co-author and an associate professor in the UF/IFAS School of Forest Resources and Conservation, said between 70 and 100 percent of rain that falls on Florida's forests returns to the atmosphere through evapotranspiration instead of becoming water stored in wetlands, lakes or aquifers. By adjusting the evapotranspiration rate even slightly, for example by reducing the number of trees in the simulated forest or by introducing prescribed fire to control small shrubs and underbrush, large water yields become apparent, Cohen said.

To maximize profits, many private and industrial landowners densely plant pine trees. To entice growers to reduce tree densities to free up more water for the aquifer, incentives might be an option for policymakers to consider, Cohen said.

"Because there are so many people out there who would like to see more water available, if forest land owners could be paid some kind of easement compensation, known as payments for ecosystem services, then they might be willing to adopt a new management strategy that would make water available," he said.

Daniel McLaughlin, the study's lead author and a research assistant scientist in the School of Forest Resources and Conservation, said forestry is already one of the most water-conserving ways land can be used for profit.

"We're just looking for opportunities to yield even more water off those lands," he said.

### Florida State Parks Creates Pinterest Page



*One of Florida's 7700 lakes larger than 10 acres*

Florida State Parks has created a Pinterest page with gorgeous pictures of Florida's natural environment, and although there is no lake board, many waterways are included in the other boards on the site. FLMS has requested that a board specifically devoted to lakes be established, and we will let you know when that happens. Please continue to send your beautiful pictures of the lakes in your area to [FLMS@aol.com](mailto:FLMS@aol.com), and we will post them on our website for all FLMS members to enjoy.

<http://pinterest.com/flstateparks/>

### Dues Renewal Time!

It's membership renewal time! The mission of the Florida Lake Management Society is to promote protection, enhancement, conservation, restoration and management of Florida's aquatic resources; provide a forum for education and information exchange; and advocate environmentally sound and economically feasible lake and aquatic resource management for the citizens of Florida. Your dues make that mission possible.

Individual memberships are \$25, non-profit is \$35 and corporate is \$65. Our membership year runs from June 1 to May 31 so renew your membership today! If you attended the annual conference, your membership has automatically been renewed. To renew online, visit [http://flms.net/index.php?option=com\\_content&view=article&id=10&Itemid=18](http://flms.net/index.php?option=com_content&view=article&id=10&Itemid=18)

To confirm your membership status, contact:

Maryann Krisovitch  
 Florida Lake Management Society  
 352-434-5025

[flmshome@aol.com](mailto:flmshome@aol.com)

### Local Chapter Meeting Speakers Wanted!

Many of you have attended recent meeting of the FLMS Central chapter. FLMS is dedicated to providing a venue for lake managers to network and share ideas and projects around the state. Do you have a topic you would like to present at an informal local meeting? Let us know! Would members in your area be interested in a round table discussion during lunch or a day long workshop? Would your company be interested in sponsoring the event? We are in the process of setting up area meetings and want to hear your news!

Contact Maryann Krisovitch at [flmshome@aol.com](mailto:flmshome@aol.com) with your ideas. We'll take care of the rest!

*Have a news item or technical article you would like to share with Florida's lake managers?*  
 Contact Editor  
 Sherry Brandt  
[watersheds@gmail.com](mailto:watersheds@gmail.com)