



The Droplet

Florida Water Environment Association Integrated Water Resources and Water Reuse Committees

August 2015

Please pass this newsletter along!

Volume 7 Issue 2



In this Issue

Page

- **From the IWR and Water Reuse Committee Chairs** 1
- **Merging of IWRC & Reuse Committees**
- **Open Board Positions! Nominations are due August 30th**
- **Our Fabulous Sponsors!** 2
- **Vote for our new joint committee's name**
- **2015 Awards - update and highlights** 3
- **Interview with Brett Cunningham, P.E. IWRC Award Nominee** 4
- **2016 Winter Joint Seminar or Roundtable** 5
- **Water Research Foundation – One Water Initiative**
- **News from around the State**
- **Other useful news and Get Involved Spotlight** 6
- **Other Water News and Events** 7
- **Calendar of Events and Committee Goals** 8

From the IWRC and Water Reuse Committee Chairs

This month's newsletter covers exciting developments for water resource and for the future of these two committees. Florida remains a water management leader in the world and it is the committees' goal to stay on top of all the latest advancements. We wish to invite all water professionals to become a member.

Merging of the FWEA IWRC and Water Reuse Committees

As our industry evolves to identify new water resources to meet growing demands, the importance of reuse continues to emerge in the Integrated Water Resource discussions. With this growing trend, we believe there are synergies in combining the Integrated Water Resources and Reuse Committees to leverage a wider range of water resource expertise to identify new opportunities and continue leading the industry. At the Florida Water Resources Conference in May 2015, the FWEA Reuse and Integrated water resources committees voted to proceed with the combining of committees. Current and past chairs were in attendance. There are benefits for "pooling" resources as well as avoiding duplicating efforts between the committees. The merging of committees would also be in line with the latest "One Water" model which recognizes that water from all sources is interrelated. For this year, the committees will operate as two separate boards working together. We welcome any input on our continued adaption to the current trends.

Call for Members/Open Board Position! We currently have open positions on the committee including Vice-Chair and Secretary. This is a great opportunity to collaborate with other professionals within our region who share a common interest in advancing the integrated water resources industry for the benefit of our clients, all water users and for the environment. **Nominations are due August 30, 2015.**

If you are interested in becoming a member of IWRC or nominating yourself for an open position, please contact me at Ricky.Ly@Stantec.com. Become involved to stay up to date on developments in the water industry with the IWRC committee.

Ricky Ly and Lynn Spivey Co-Chairs

FY 2014-2015

Co-Chairs:

Ricky Ly

Ricky.Ly@Stantec.com

Lynn Spivey

Lynn.Spivey@arcadis-us.com

Vice Chair & Secretary:

open

Treasurer & Website:

Alonso Griborio

agriborio@hazenandsawyer.com

Newsletter:

Elizabeth Thomas

ethomaspe@gmail.com

&

Doug Eckmann

douglas.eckmann@tkwonline.com



The Droplet

Florida Water Environment Association
Integrated Water Resources and Water Reuse
Committees

August 2015

Please pass this newsletter along!

Volume 7 Issue 2

A Big Thanks to Our Sponsors!!



**FY 2014-2015
Co-Chairs:**
Ricky Ly
Ricky.Ly@Stantec.com

Lynn Spivey
Lynn.Spivey@arcadis-us.com

Vice Chair & Secretary:
open
Treasurer & Website:
Alonso Griborio
agriborio@hazenandsawyer.com
Newsletter:
Elizabeth Thomas
ethomaspe@gmail.com
&
Doug Eckmann
douglas.eckmann@tkwonline.com

**PARSONS
BRINCKERHOFF** | Engineering
Planning
Construction

- Transportation/Transit Planning
 - Civil/Structural/Traffic Engineering
 - Water Resources/Water Supply
 - Program Management
 - Construction Management
 - Construction Engineering/Inspection
- 420 S. Orange Ave.
Suite 400
Orlando, FL 32801
407.587.7800
www.pbworld.com
Contact: Dale Helms, PE



Our work has a
lasting ripple effect

Design with community in mind stantec.com



**JONES
EDMUNDS**

WATER RESOURCES
UTILITIES
CIVIL/ ENVIRONMENTAL
FACILITIES

IMPROVING QUALITY OF LIFE THROUGH INNOVATIVE SOLUTIONS.



www.jonesedmunds.com
800.237.1053



Partner with us, and together let's create,
enhance and sustain the world's built,
natural and social environments.

www.aecom.com

AECOM



The Droplet

Florida Water Environment Association Integrated Water Resources and Water Reuse Committees

August 2015

Please pass this newsletter along!

Volume 7 Issue 2

Vote on new name for the combined Water Reuse and Integrated Water Resources Committee go to FWEA on Facebook

www.facebook.com/CleanWaterFL

- ✚ Integrated Water Resource & Resiliency (IWRR) Committee
- ✚ Water Resource, Reuse & Resiliency (WR3) Committee
- ✚ Integrated Water Resources, Reuse, & Resiliency (IWR3) Committee
- ✚ Integrated Water Use (IWU) Committee
- ✚ Other



Stay current on events, participate in industry discussions and more!

2015 FWEA Award Updates

The Integrated Water Resources Committee is pleased to announce Norman Wellings as the 2015 award winner. Norm has 40 years of experience in the water and wastewater industry. Starting as a wastewater package plant operator at a young age, he worked hard to become the division head of the water, wastewater and reclaimed water treatment facilities at the City of Boca Raton (City) Utility Services Department (USD). Norm retired in April from the City, but through his efforts made a remarkable impact on the USD as well as the water & wastewater industry. He is leaving a tremendous legacy behind. His award-winning talent will be missed. Norm was recognized at the Florida Water Resources Conference (FWRC) in May.

The Water Reuse Committee selected an outstanding group of David W. York Reuse Award winners for 2015. To see the list please go to the following FDEP website: <http://www.dep.state.fl.us/water/reuse/awards.htm>

David W. York Reuse Award Winner Spotlight: City of Palm Coast Zero Liquid Discharge (ZLD) Project

In 2008 the City of Palm Coast was issued an Administrative Order from the Florida Department of Environmental Protection requiring the implementation of an alternate reverse osmosis (RO) concentrate disposal method to eliminate the use of a surface water discharge using an extended mixing zone. The concentrate management alternative selected by the city for its Water Treatment Plant No. 2 was zero liquid discharge (ZLD) of concentrate, which utilizes concentrate as an alternative water supply. This project was a

FY 2014-2015

Co-Chairs:

Ricky Ly

Ricky.Ly@Stantec.com

Lynn Spivey

Lynn.Spivey@arcadis-us.com

Vice Chair & Secretary:

open

Treasurer & Website:

Alonso Griborio

agriborio@hazenandsawyer.com

Newsletter:

Elizabeth Thomas

ethomaspe@gmail.com

&

Doug Eckmann

douglas.eckmann@tkwonline.com



The Droplet

Florida Water Environment Association Integrated Water Resources and Water Reuse Committees

August 2015

Please pass this newsletter along!

Volume 7 Issue 2



FY 2014-2015

Co-Chairs:

Ricky Ly

Ricky.Ly@Stantec.com

Lynn Spivey

Lynn.Spivey@arcadis-us.com

Vice Chair & Secretary:

open

Treasurer & Website:

Alonso Griborio

agriborio@hazenandsawyer.com

Newsletter:

Elizabeth Thomas

ethomaspe@gmail.com

&

Doug Eckmann

douglas.eckmann@tkwonline.com

collaborative effort by the City of Palm Coast, their design engineers, McKim & Creed, and the original equipment manufacturer, Doosan Hydro Technology.

The ZLD process treats 1.2 MGD of RO concentrate using a combination of lime/soda ash softening, chemical treatment, ultrafiltration, and disinfection. The initial goal was to achieve 98.5% recovery, but the city was able to achieve a higher-than-planned 99.3% recovery by increasing the dry solids in the ZLD waste stream from 50% to 65%. The ZLD treated water is blended with the combined RO permeate and bypass streams from WTP No. 2, increasing the capacity of the facility by approximately 1.2 MGD without the need of additional source water supplies. Along with the main treatment processes, at the center of the ZLD system is the overall recovery and re-treatment of waste streams that are normally discarded. The ZLD project has been named the 2015 Water Reuse Project of the Year by the Florida Water Environment Association, and provides hope for municipalities wishing to reduce waste streams and their associated impacts to infrastructure.

Interview with Brett Cunningham, P.E. IWRC Award Nominee

Editor's Note: Our award winner Norm Wellings declined to be interviewed, so we asked Brett Cunningham, one of our IWRC award nominees, to answer a few questions for our newsletter. This is edited version. Please see the full version at the link below:

http://www.fwea.org/docs/Interview_responses_cunningham.docx

Tell us about yourself. I am the Director of Water Resources at Jones Edmunds & Associates, Inc., which means I cover the fields of flood protection, water quality, water supply, natural systems, and GIS. I am also a Past President of the Florida Stormwater Association (FSA). Working in the ever-evolving field of integrated water resources, the character trait that has probably been the most helpful to me is having the spirit of innovation. **What were the biggest challenges in the integrated water resource projects you were involved in?** One of the recurring challenges I have seen in integrated water resource projects is getting them properly 'credited' by the regulatory agencies. By their nature, these types of projects are often complex and involve a blend of technologies or practices. **What do you see as the biggest challenges for projects in the future?** The projected population growth in Florida will likely be the biggest source of our challenges in the future. More people will mean more demands on our water resources and less available land for solutions. More people in Florida and throughout the world also create a greater demand for agriculture, which places additional demands on our land and water resources. Collectively, those factors will put more constraints on our solutions than we have had in the past. That is one of the reasons I am hopeful the activities under SB 536 and other related activities will help to make more options available to the profession. **What do you think could be done to promote the integration of water resources?** As I alluded to in the previous questions, the activities under SB 536 and other related activities will certainly be helpful in promoting and encouraging the integration of water resources. Beyond that, helping high-level technical staff in local governments communicate the need to their elected officials is very helpful in promoting the idea. Most public works and utilities directors have faced significant budget cuts over the years, and as such, have been forced to do more with less. They understand the value of integrated water resources solutions and how addressing multiple concerns with the same project can be more cost-effective than staying within their own silo. The better our profession is at explaining the concept to those outside the profession, the more we will see these projects take hold. Increase funding from outside sources is also helpful for the cause.



The Droplet

Florida Water Environment Association Integrated Water Resources and Water Reuse Committees

August 2015

Please pass this newsletter along!

Volume 7 Issue 2



FY 2014-2015

Co-Chairs:

Ricky Ly

Ricky.Ly@Stantec.com

Lynn Spivey

Lynn.Spivey@arcadis-us.com

Vice Chair & Secretary:

open

Treasurer & Website:

Alonso Griborio

agriborio@hazenandsawyer.com

Newsletter:

Elizabeth Thomas

ethomaspe@gmail.com

&

Doug Eckmann

douglas.eckmann@tkwonline.com

2016 Joint Winter Seminar or Roundtable Event

This next Winter Reuse Seminar will either be a joint seminar or Roundtable event between the FWEA Reuse and Integrated Resources Committee. It is expected to be held in January/February of 2016. Both Committees are looking forward to making this the best seminar ever! Please let the committee know if you would wish to help with the topics, arrangements or sponsorship by **September 15, 2015**

Water Research Foundation Presentation from the 2015 FWRC

Water Research Foundation defines One Water that all water sources must be managed holistically and collaboratively to meet the public, environmental, and economic needs for these sources. At 2015 FWRC conference, the WRF gave a presentation about their new research focus area titled Integrated Water Management: Planning for Future Water Supplies. The full paper is at the link below:

http://www.fwea.org/docs/FWRC.2015.Water_ResearchFoundation.IWM_1.pdf

News from around the State

Central Florida Water Initiative (CFWI) Has Released Draft Reports

The Central Florida Water Initiative (CFWI) is an ongoing water supply effort focusing on the Central Florida Coordination Area, which includes southern Lake, Orange, Osceola, Seminole and Polk counties. The three water management districts, along with the Florida Department of Environmental Protection (DEP), Florida Department of Agriculture and Consumer Services (DACS), regional public water supply utilities and other stakeholders are collaborating to develop a unified process to address central Florida's current and long-term water supply needs. The Central Florida Water Initiative's (CFWI) Steering Committee has released two draft documents for public review and comment that will set a path forward for meeting water supply needs in central Florida for the next 20 years. The draft reports are available now for review and comment and can be found on their website at www.cfwiwater.com. *The comment period will close August 17, 2015.* Public meetings will be held to present the findings. Contact Elizabeth Thomas at ethomaspe@gmail.com for more information.

News from South Florida

From Savings to Supply: New SFWMD Storage Area Shows Dual Benefit Nicodemus Slough begins supplying needed water to the Caloosahatchee River

Since 2005, the South Florida Water Management District (SFWMD) has been working with a coalition of agencies, environmental organizations, ranchers and researchers to enhance opportunities for storing excess surface water on private and public lands. Over the years, these partnerships have made thousands of acre-feet of water retention and storage available throughout the greater Everglades system. If water levels in South Florida are higher than normal during the annual rainy season, the District can utilize this storage while taking further actions to capture and store water throughout the regional water management system. Holding water on these lands is one tool to help reduce the amount of water flowing into Lake Okeechobee and/or discharged to the Caloosahatchee and St. Lucie estuaries during high water conditions. More information about the Nicodemus Slough project and other important integrated storage projects can be found on the SFWMD website.

<http://www.sfwmd.gov/portal/page/portal/xweb%20protecting%20and%20restoring/water%20storage%20programs>



The Droplet

Florida Water Environment Association
Integrated Water Resources and Water Reuse
Committees

August 2015

Please pass this newsletter along!

Volume 7 Issue 2



FY 2014-2015
Co-Chairs:
Ricky Ly
Ricky.Ly@Stantec.com

Lynn Spivey
Lynn.Spivey@arcadis-us.com

Vice Chair & Secretary:
open

Treasurer & Website:
Alonso Griborio
agriborio@hazenandsawyer.com

Newsletter:
Elizabeth Thomas
ethomaspe@gmail.com

&
Doug Eckmann
douglas.eckmann@tkwonline.com

Other useful and interesting articles:

Innovative Stormwater Management at the City of Tavares, Florida

The City of Tavares (Tavares), located in Lake County, has taken a proactive, collaborative approach to improving the water quality of Lake Dora as part of its Downtown Community Redevelopment Program. ARCADIS, in partnership with Griffey Engineering Inc., developed hybrid wetland systems with enhanced nutrient removal capabilities, stormwater detention and a park-like setting.

http://www.fwea.org/docs/Innovative_stormwater_project_paper_-_city_of_Tavares_2015.docx

Comparison of Revenue Bonds and FDEP Administered Drinking Water and Clean Water State Revolving Fund Loans

http://www.fwea.org/docs/ComparisonofRevenueBondsandFDEPAdministeredSRFLoansFWRC-presentation_pull.docx

Get Involved Spotlight

Sarasota Bay Estuary Program

For More Information:

<http://sarasotabay.org/get-involved/bay-guardian-volunteers/>

Tampa Bay Estuary Program

For More Information:

<http://www.tbep.org/help/giveaday.html>

Tampa Bay Watch

For More Information:

http://www.tampabaywatch.org/events_baylife_main.html

Other Volunteer Opportunities

- FDEP - Current Initiatives and Volunteer Opportunities
<http://www.dep.state.fl.us/central/Home/Watershed/GetInvolved.htm>
 - Includes links to opportunities in the following Counties:
 - Brevard
 - Indian River
 - Lake
 - Marian
 - Orange
 - Osceola
 - Seminole
 - Volusia
- Florida State Parks
<https://www.floridastateparks.org/get-involved/volunteer>





The Droplet

Florida Water Environment Association
Integrated Water Resources and Water Reuse
Committees

August 2015

Please pass this newsletter along!

Volume 7 Issue 2



FY 2014-2015

Co-Chairs:

Ricky Ly

Ricky.Ly@Stantec.com

Lynn Spivey

Lynn.Spivey@arcadis-us.com

Vice Chair & Secretary:

open

Treasurer & Website:

Alonso Griborio

agriborio@hazenandsawyer.com

Newsletter:

Elizabeth Thomas

ethomaspe@gmail.com

&

Doug Eckmann

douglas.eckmann@tkwonline.com

Other Water News and Events

Continuing Education Requirements Change for P.E.s

Effective March 1, 2015 all professional engineers licensed in Florida will be required to obtain eighteen (18) continuing education (CE) course hours in order to renew their licenses. These requirements are officially in effect for the 2015-2017 biennial renewal.

Of the 18 hours, one (1) hour must be related to the laws and rules of professional engineers, one (1) hour must relate to professional ethics, and the remaining 16 hours can relate to any topic pertinent to the practice of engineering. Continuing education hours may be earned by presenting or attending seminars, in-house or non-classroom courses, workshops, or professional or technical presentations made at meetings, webinars, conventions, or conferences, including those presented by vendors with specific knowledge related to the licensee's area of practice.

One (1) hour of the continuing education course hours may be obtained by serving as an officer for a Board-recognized professional or technical engineering society. The required hours relating to law, rules and ethics may also be earned by a PE serving as a member of the Legislature or as an elected state or local official.

Refer to F.S. 471.017(3) and Chapter 61G15-22 for a full description of the changes related to continuing education requirements for licensed engineers. You can view the statute in its entirety by going to the Statutes and Rules page under the Legal section of our website or by going to <http://www.fbpe.org/index.php/legal/statutes-and-rules>

Florida Department of Environmental Protection – SB 536

Senate Bill 536, which passed in the 2014 legislative session, requires DEP, in coordination with stakeholders to conduct a comprehensive study on the expansion of use of reclaimed water, stormwater, and excess surface water in this state. For more information please go to:

<http://www.dep.state.fl.us/water/reuse/study.htm>

For other industry news, here listed below is a couple of more great websites:

<http://www.fwea.org/>

subscriptions@floridawaterdaily.com



Calendar of Events

Committee meetings are held on the first Tuesday of every month at 11:45 am. Email any committee officer or member to be added to the committee and be placed on the email distribution list.

Please also check www.fwea.org/
As well as <http://www.watereuse.org/> and <http://www.florida-stormwater.org/>
and <http://www.fsawwa.org/> and <http://awra.org/> and <http://www.asce.org/>
and www.waterrf.org/

for more announcements of conferences and meetings!

IWRC Goals and Focus

The goals of the IWRC are:

- To further the dialogue between water professionals throughout Florida to meet our growing needs in all areas of water resources.
- To provide timely, high-quality information and education on water as a valuable resource that can be used to meet current and future water resources and water supply challenges throughout Florida.
- To provide rewarding leadership opportunities to water professionals at all levels of experience.

The focus of the IWRC encompasses the following areas of water resources practice:

- | | |
|---|--------------------------------------|
| • water quality | • groundwater recharge |
| • watershed and stormwater management | • hydrologic and hydraulic modeling |
| • water supply | • funding and grant opportunities |
| • water conservation and reuse | • regulations and policies |
| • ecological and hydrologic restoration | • supply and distribution resiliency |

Water Reuse Committee Goals and Focus

The mission of the Water Reuse Committee is to provide a leadership role in the implementation of reuse of reclaimed water statewide, by tracking and communicating information on regulation and technology related to reuse of reclaimed water.

Key committee activities include:

- Conducting the Water Reuse Seminar, which takes place every odd year
- Selecting and Presenting the David W. York Water Reuse Awards
- Organizing the Reuse Round Table at the Florida Water Resources Conference in April or May of each even year