



FWEA

West Coast Chapter

1st Quarter 2014

INSIDE THIS ISSUE:

° *USF Student Chapter Update*

° *Luncheon Speaker and Registration*

° *2014 Steering Committee*

UPCOMING EVENTS

° *Dr. Mark van Loosdrecht - USF Campus – January 29, 2014*

° *Leadership and Development Workshop – February 6th & 7th, 2014*

° *Water Festival – March 22, 2014*

° *Annual Roundtable Lunch - TBD*

° *Jog-A-Thon - TBD*

CONFERENCES

2014 FWRC Conference

April 6-10, 2014

Walt Disney World Coronado Springs

*Resort & Convention Center
1000 West Buena Vista Dr.
Lake Buena Vista, FL*

THE 2014 STEERING COMMITTEE

Juan R. Oquendo, P.E. - West Coast Chapter Chair

2014 should be a very promising year and we are off to a great start. First, I would like to thank Nita Naik, P.E. (Greeley and Hansen) and the 2013 Steering Committee for the tremendous success of our chapter. Last year, under Nita's direction, the West Coast Chapter hosted our traditional quarterly luncheons at the Columbia Restaurant with a variety of presentations including topics such as the City of Clearwater's Groundwater Replenishing Project, Hillsborough County Wastewater Utility Critical Valve Assessment Program and the University of South Florida (USF) Denitrifying Bioretention Systems for Non-Point Source Nitrogen Removal. We also had the Southwest Florida Water Management District (SWFWMD) Executive Director, Mr. Blake C. Guillory, give us an update of the current and future regulatory trends at the District.

The next round of thanks goes to you, our members. None of the activities in 2013 could have been as successful as they were without your support. A proof of this tremendous support is the big turnout we had when the Chapter requested volunteers for the 2014 Steering Committee positions. All the slots were filled and we even had positions where two members share the same role. The 2014 Steering Committee is listed on page 3 of this newsletter.

The primary goal for the 2014 West Coast Chapter Steering Committee is to promote the water environment quality in Florida. The Florida Water Festival to be held on March 22, 2014 at Spa Beach Park, St. Petersburg Florida is a good example of activities that support our goal. Please come with your family and join us for this family fun and educational event. There will be live music, contests, and exhibitors from the Florida Department of Environmental Protection (FDEP), SWFWMD, City of St. Pete and others.

Another important goal for 2014 is to promote the Professional Development of our members. As a chapter, we are committed to supporting our young professionals and students. This is why we have decided to participate in USF student chapter meetings. We will be giving presentations to the students and supporting their activities in hopes that they will become FWEA members when they move on to their professional life.

Finally, I would like to remind you that we are here because of you. So, please don't hesitate to contact me or any of our Steering Committee members if you know of an activity, topic or anything that you would like the chapter do for you.



FWEA

West Coast Chapter

1st Quarter 2014

Below is a brief introduction to a few of our Steering Committee Members.

RYAN MESSER



Ryan is an engineer with CH2M HILL focusing on wastewater treatment processes and effluent disposal methods. Ryan graduated from the University of Florida with a Master's degree in Environmental Engineering Sciences.

TAYLOR NORRELL, E.I.T.



"I am the treasurer for the West Coast Chapter of FWEA. I am a Civil Engineer at Black & Veatch, I attended the University of Florida for my bachelor's degree, and am currently working on my Master's in Environmental Engineering through UF as well."

JACOB PORTER, P.E.

"I am an Environmental Engineer for Hazen and Sawyer, and a graduate of Clemson University. I have recently served as communications chair for the West Coast Chapter of the FWEA. The FWEA has been a great way for me to meet and learn from other local professionals in the water/wastewater industry."



RICARDO G. BORRROMEO, P.E.



"I am a Senior Environmental Engineer for ATKINS specializing in water and wastewater collection and treatment. I am a graduate of the University of Notre Dame (BS) and Rose-Hulman Institute of Technology (MS). In my spare time I like to exercise and spend quality time with my wife and 2 boys (ages 12 and 7)."

JUAN OQUENDO, P.E.

"I am a proud graduate from the University of Puerto Rico at Mayaguez and a Professional Engineer in the states of Florida, Georgia and Texas. One very important goal in my life is to promote a better environment. I have found that FWEA is the right vehicle to do so. Please join us and be part of the premier organization of professionals dedicated to protecting the resources of our beautiful planet."



ALICE VARKEY, P. ENG

“I am an engineer and have worked for Conestoga-Rovers & Associates for just over 10 years (9 years in Toronto and 1 year in Tampa). I graduated with a Bachelor of Applied Science - Chemical Engineering from the University of Toronto in Canada.”



2014 West Coast FWEA Chapter Committee Members

Chair – Juan Oquendo
(Gresham, Smith and
Partners)

Vice Chair – Mike
Carballa (Florida Design
Consultants)

Treasurer – Taylor
Norrell (Black & Veatch)

Secretary – Ricardo
Borromeo (Atkins)

Content – Freddy
Betancourt (Greeley &
Hansen) and Joe
Zaccardelli (Jacobs Air
Water Systems)

Special Events – Alice
Varkey (Conestoga-
Rovers & Associates)
and Ryan Messer
(CH2MHILL)

Communications –
Jacob Porter (Hazen and
Sawyer)

YP Chair – Matthew
Woodham (USF)

Membership – Rachel
Cantor (RC Associates,
LLC)

Web Master – Matt Love
(McKim & Creed)

USF Representative –
George Dick (USF)



ATKINS

Architecture
Engineering
Environmental
Construction

We're bringing more to our projects.

Our success has been founded on truly understanding local requirements, practices, and stakeholder concerns.

We bring best practices from the world's most vibrant markets and draw upon the resources and capabilities that have made Atkins one of the largest international design and engineering firms.

Plan Design Enable
www.atkinsglobal.com/northamerica **800.477.7275**

USF STUDENT CHAPTER UPDATE

FWEA at USF will be pairing up with AWWA at USF to bring monthly guest speakers to USF to talk about the water industry. We will be hosting these events to inform the students about current water issues, engineering practices, and help the students engage in the professional community as well as view the benefits of being a member in one or both of these associations as a student and a professional. We are seeking guest speakers that you would be able to give a 30-45 minute presentation followed by a brief questions and answer session. Presentations can be of the speaker's choice, about a specific company, a particular project that you have or are currently working on, or anything that the speaker would like to inform the students related to the water treatment industry. Food and drinks will be provided at these events by the student chapter. If you would like to be a guest speaker, please contact George Dick by phone at 727-452-9725 or email at georgedick@mail.usf.edu.



The Environmental and Water Resources Engineering program at the University of South Florida is hosting the Association of Environmental Engineering and Science Professors (AEESP) distinguished lecturer, **Dr. Mark van Loosdrecht** (Technical University of Delft, The Netherlands), on **Wednesday, January 29th at 2:30 pm** in the Marshall Student Center (USF Tampa Campus). The talk should be of great interest to all who are interested in nutrient management, the health of Tampa Bay, and how a laboratory discovery rapidly commercialized and became a game changer for the water quality industry. It's entitled, **Anaerobic Ammonium Oxidation (Anammox) Technology: Science, discovery and commercialization**. Dr. van Loosdrecht's talk will be followed by an expert panel discussion on nutrient management (joining him will be **Holly Greening** of Tampa Bay Estuary Program, **Nan Bennett** of City of Clearwater Utilities, and **David Hagan** from the consulting firm Greeley and Hansen; **Sarina Ergas** and **Maya Trotz** of USF are moderators). The panel will be followed by a reception and poster session showcasing environmental engineering research at USF, UCF, UF and FGCU, including the new **EPA National Research Center for Reinventing Aging Urban Infrastructure for Nutrient Management (RAINmgt) based at USF**. More details can be found in the attached flyer. The free event is part of the USF College of Engineering's Eminent Scholars Lecture Series and is sponsored by Bracken Engineering.

The 2014 USF FWEA Capstone Design team is working on a design project with the Hillsborough County Department of Public Utilities. The goal of the project is to analyze the southern half of the county's wastewater treatment facilities, and to find and prevent bottlenecks to the treatment process that would occur as Hillsborough County's service demand increases. The team is currently reviewing treatment processes within each facility to identify processes that limit overall treatment capacity. The team is also looking into the option of routing wastewater between facilities. The project is still young, so specific alternatives have not yet been selected for design. The team is currently seeking a professional mentor to assist with this project. If you would like to get in touch with the 2014 USF Capstone Design Team please contact the project manager, Andrew Filippi, by email at afilippi@mail.usf.edu or by phone at [\(352\)-538-0805](tel:352-538-0805).

1st QUARTER LUNCHEON TOPIC

42-INCH SANITARY SEWER RELOCATION DIVERSION WITHOUT BYPASS PUMPING

The Florida Department of Transportation (FDOT) proposed improvements to Interstate 275 within the City of Tampa, which necessitated the adjustment of numerous City of Tampa wastewater collection facilities including the Clark Avenue Interceptor; a 42-inch diameter, plastic sheet lined, reinforced concrete pipe, gravity flow sanitary sewer with approximately 15 MGD average daily flow. The existing Interceptor was in conflict with a proposed 7' x 12' box culvert and 24-inch pile supported piers for elevated roadway. In addition, parts of the Interceptor would be subjected to dead loads from a proposed 30-foot high earthen embankment. Relocation of approximately 660 linear feet of Interceptor was required. Bypass pumping, was evaluated but not considered feasible as it would have required either a temporary pipeline crossing the active highway (aerial or trenchless) or a lengthy route down the highway to an existing overpass and back that would have also required crossing active traffic lanes.

Since the gravity flow sewer had to maintain a minimum slope and tie back into the existing sewer, the new route could not be very long. After much study, a route was determined, but it was very clear that this was the only available route. Portions of the route could be constructed in open-cut trench and the remainder had to be constructed trenchless. Such trenchless construction had to be successful since abandoning the alignment was not possible unless the elevated roadway, piers and substructure were all redesigned. FDOT made it clear that would not be entertained. To connect the new portion of 42-inch sewer to the existing sewer, two diversion structures were employed. A rigorous sequence of construction for the construction of the plastic sheet lined structures allowed the transition from connecting the new sewer, cutting into the old sewer within the structure, diverting the flow, and permanent completion of the facility. The method used a special flow tube approximately 30-inch diameter with inflatable seals at each end to seal between the existing 42-inch ID and the 30-inch OD.



Two-thirds of our planet is made up of water.
Naturally, it takes a global company to care for it.

Whether the issue is water treatment, water supply, coastal management, or worldwide climate change -- solving the challenges of water is what we do best. For over a century, our experts have used insight and innovation to solve our clients' water problems.

Now, with the fusion of ARCADIS and Malcolm Pirnie, we can bring our unmatched global resources to bear on your water project. Using a comprehensive, results-driven approach based on broad experience in water management and treatment, we create lasting solutions, sustainable quality and ecological balance in both the business and natural worlds.

www.arcadis-us.com

Imagine the result





Luncheon Meeting

Luncheon Information Columbia Restaurant

2117 East 7th Avenue
Tampa, Florida 33605-3903
Thursday, February 13, 2014

- Registration - 11:30 AM
- Lunch - 12:00 PM

Menu

1905 Salad - Crisp iceberg lettuce with julienne of baked ham, natural Swiss cheese, fresh tomato, olives, grated Romano cheese and garlic dressing.

Option 1 - Arroz con Pollo

Chicken baked with yellow rice, green peppers, Spanish onions, tomatoes, white wine and virgin olive oil. Topped with green peas and pimientos.

Option 2 - Boliche "Criollo"

Roasted eye round of beef stuffed with chorizo and roasted in a flavorful gravy. Served with black beans, white rice and platanos.

Option 3 - Merluza "Russian Style"

Premium Atlantic Merluza, a tropical white flaky fish, breaded with Cuban bread crumbs and grilled. Garnished with a Russian sauce of lemon butter, parsley and hard boiled eggs. Served with yellow rice.

Option 4 - Vegetarian

Dessert - Godiva Chocolate Cake

Guest Speaker Thomas Y. Wilson, P.E.

Tom is an Associate and project manager with Greeley and Hansen's Tampa Office. He holds a bachelor's degree in Environmental Engineering from the University of Florida and has over 30 years of experience in high quality water and wastewater solutions, dating back to the mid 1980's. He serves as Greeley and Hansen's National Pipeline Technical Specialist and Trenchless Construction leader. Tom has design over of 1,100 miles of pipelines in Florida ranging from 2" diameter to 84" in diameter. Tom was the Engineer of Record for the Clark Avenue interceptor relocation included in the I-275 sanitary adjustments for the City of Tampa which will be the topic of discussion.



Full Members: \$22 for those pre-registered & prepaid, \$25 at the door * Student Members: \$22 for those pre-registered.

Registration Form

Pre-Registration Deadline: Friday, February 7th (Also Register through FWEA.org)

Please make checks payable to **FWEA**

Name: _____

Company/Affiliation: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Choice of Meal: _____

Send Check and Registration to:

Ricardo Borromeo

Atkins

4030 West Boy Scout Blvd., Suite 700,
Tampa, Florida 33607

Tel: (813) 282 7275 Ext. 8388

Fax: (813) 636 8583

E-mail:

Ricardo.borromeo@atkinsglobal.com



FWEA

West Coast Chapter

1st Quarter 2014

UPCOMING EVENTS



*Join us in celebration and education
of our **MOST PRECIOUS RESOURCE!!!***

Saturday March 22, 2014 9am – 3pm
Spa Beach Park, St. Petersburg, FL

FAMILY FUN ALL DAY!

 for more info contact:
Juan Oquendo at juan_oquendo@gspnet.com

FREE ADMISSION FOR ALL!

FWEA

West Coast Chapter



FWEA

West Coast Chapter

1st Quarter 2014


UPCOMING EVENTS CONTINUED

LEADERSHIP DEVELOPMENT WORKSHOP

The Leadership Development Workshop, scheduled for February 6-7, is coming together nicely, with participation anticipated from every Chapter and Committee across the State. The event will be focused on equipping and developing leadership skills among the Association's current and incoming volunteer leaders. We are looking to raise the profile of water quality professionals during 2014-2015, including developing a greater understanding inside and outside of our industry of the incredible value and importance of what we do for the environment and for public health. *No one does as much for the environment – every day – as water quality professionals like you!*

YOUNG PROFESSIONALS


As the new year moves forward the FWEA West Coast YP group would like to continue with some really fun filled events. These include the "Day with the Rays" which proves to be a great way for both the professional and student chapters in the area to network and have a blast. Plant and facility tours have also proven to be a great way to stay up to date on the industry and, followed by a conveniently timed happy hour, are a good way to network in a casual atmosphere as well. Stay tuned for more details. With the 2014 Water Festival on the horizon and George Dick as the new president of the USF - Tampa student chapter, the YP section hopes to bring a renewed and refreshed interest to students, prompting higher enrollment and more participation in FWEA.



Providing clear direction
for a common vision.

Total Water Management / Advanced Treatment /
Biosolids / Utility Infrastructure / Regulatory Compliance /
Program Management / Construction Management

TAMPA MIAMI FT. LAUDERDALE JACKSONVILLE CHIPLEY

 GRESHAM
SMITH AND
PARTNERS

www.gspnet.com

create: sustainable | innovative | solutions



- Water / Wastewater
- Watershed Management
- GIS / Asset Management

380 Park Place Blvd., Suite 300
Clearwater, FL 33750
800.861.8314 www.CardnoTBE.com



Jacobs
Air Water Systems

- ODOR CONTROL
- DEGASIFICATION
- CHEMICAL FEED SYSTEMS

11025 Countryway Blvd. Tampa, FL 33626 P:813.854.2354



FWEA


West Coast Chapter

1st Quarter 2014

UPCOMING EVENTS CONTINUED


SPECIAL EVENTS

The FWEA West Coast Special Events committee is focused on planning events to engage the chapter while promoting networking and having fun in 2014! We are planning to hold three special events this year. In addition to our Annual Roundtable lunch, we will also be planning a social event and a Jog-A-Thon. All three events will be a great opportunity to meet new and current chapter members and socialize with your friends and colleagues in the chapter. We have some ideas for social events but are also interested in hearing yours! If you have any ideas you would like to pass on to us, please email our Special Events Co-Chairs Alice Varkey (avarkey@craworld.com) and Ryan Messer (Ryan.Messer@ch2m.com). Save-the-dates for these events will be posted shortly. We look forward to your enthusiastic participation!




HAZEN AND SAWYER
Environmental Engineers & Scientists

Water | Wastewater | Stormwater
Sustainability | Innovation
www.hazenandsawyer.com



Engineering Excellence
*Providing Customized Solutions
to Environmental Challenges*



listen. think. deliver.®

Water
Environment
Transportation
Energy
Facilities

**CDM
Smith®**
cdmsmith.com

Offices worldwide