



FWEA

West Coast Chapter

4th Quarter 2014

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2015 FWEA Winter Reuse Seminar

CONFERENCES

- FWEA Wastewater Process
Committee – Innovation and
Energy Savings in Wastewater
Treatment
Boca Raton Municipal Auditorium –
11/6/14

USF STUDENT CHAPTER UPDATE

Undergraduate students from the University of South Florida win first place in the national wastewater design competition at WEFTEC in New Orleans on September 28, 2014.



From left to right: Winsome Jackson, Lauren Davis, Andrew Filippi, Herby Jean, Richard Johnson, Michael Esteban, Dr. Sarina Ergas (Adviser)

WEFTEC, the Water Environment Federation's Annual Technical Exhibition and Conference, is the largest conference of its kind in North America and offers water quality professionals from around the world the best water quality education and training available today. It is also recognized as the largest annual water quality exhibition in the world.

Our team competed against seven other universities at the national level. Each university was representing their region within the US. We, Lauren Davis, Michael Esteban, Jared Faniel, Andrew Filippi (PM), Winsome Jackson, Herby Jean, and Richard Johnson won our regional competition in May at the Florida Water Resources Conference in Orlando to earn a spot in the national competition.

Work started on this project in December 2013 as part of our Capstone senior design course (traditionally taken in the last semester of an engineering student's undergraduate program). It was a great experience that put all of the concepts we learned in school into practice.

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One of the great things about the program at USF is that all of the capstone projects are real. Our instructors, Professor Sarina Ergas and Mr. Tom Cross, ask local municipalities to work with students to solve real problems. Our team worked with Tom Rawls and Kim Rogers of the Hillsborough County Public Utilities Department to analyze three wastewater treatment plants in their South/Central service area and to design an expansion for one of them. Our project was titled

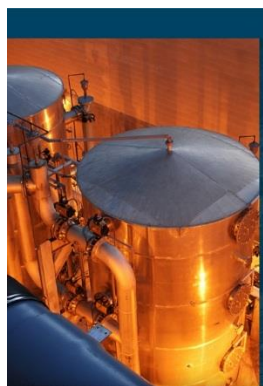
“South/Central Hillsborough County Service Area Capital Improvements Project”.

In addition to working with professionals at Hillsborough County, we also had the pleasure of working with Juan Oquendo of Gresham Smith & Partners and Ifetayo Venner of ARCADIS who mentored us throughout the project. Working with these individuals helped bridge the gap between school and the work environment. With all of us graduating soon, it was a very valuable experience for us.

Dr. Ergas has had teams competing in the WEF/FWEA Student Design Competitions since 2011. This is the third year in a row that USF has won first place at the national level in either the wastewater or environmental design categories (2012 Environmental, 2013 Wastewater, and 2014 Wastewater). Our team put a lot of time and effort into this year's competition. We're glad that we could keep USF's momentum going. It goes a long way in bringing positive national recognition to our program.

This year, the first place prize included a \$2,500 cash prize, copies of *Computer Applications in Hydraulic Engineering, 8th Edition*, an engraved plaque, and a year-long subscription for the University of South Florida to a suite of architecture, engineering, construction, and operations (AECO) computer programs offered by Bentley Systems, Inc.

Our team was able to travel to New Orleans for the national competition in thanks to sponsorships from the Florida Water Environment Association (FWEA) and ARCADIS U.S., Inc. We also want to say thank you to everyone who has helped us along the way.



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4th Quarter Luncheon Guest Speaker

Envision

In January 2012, the Institute for Sustainable Infrastructure (ISI) launched Envision™, a sustainable infrastructure rating system. ISI is a non-profit organization co-founded by the American Society of Civil Engineers, the American Public Works Association, and the American Council of Engineering Companies; and Harvard University's Zofnass Program for Sustainable Infrastructure. The purpose of Envision™ was to foster an improvement in the performance and resiliency of physical infrastructure across the three dimensions of sustainability – economic, social and environmental; and to fill the gap left by other ratings systems such as LEED, which have limited applicability to civil infrastructure.

Envision establishes a holistic framework for evaluating and rating infrastructure to ensure that sustainability is addressed, by considering the needs of and the impact on the community, the entire life-cycle of a project from planning through decommissioning, the impact on the natural world, infrastructure resiliency, among other things.

Our industry is beginning to embrace Envision™ as a tool for the sustainable planning, design, construction, operation, and decommissioning of infrastructure. To date approximately 60% percent of projects using Envision™ are water related projects. This presentation will:

- summarize the Envision™ system developed by the Institute for Sustainable Infrastructure and its benefits
- provide an update on the use of Envision™ nationally and potential modifications
- provide examples of projects that have been credentialed or are in the verification pipeline
- summarize ongoing efforts by WEF to provide guidance to users





Luncheon Meeting

4th Quarter 2014

Luncheon Information Columbia Restaurant

2117 East 7th Avenue

Tampa, Florida 33605-3903

Thursday, November 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 - Pollo "Champiñon"

Chargrilled boneless breast of chicken topped with a grilled sliced portabella mushroom and a rich Spanish Amontillado sherry sauce. Served with "Good Rice".

Option 2 - Ropa Vieja

Shredded beef sautéed with onions, green peppers, and tomatoes. Served with platanos and white rice.

Option 3 - Merluza "Russian Style"

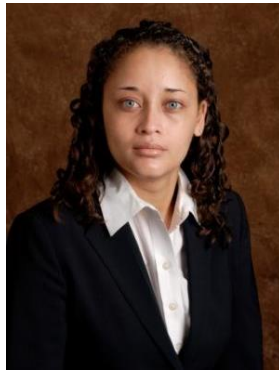
Premium Atlantic Merluza, a tropical white flaky fish, breaded with Cuban bread crumbs and grilled. Garnished with a Russian sauce of lemon butter, parsley and hard boiled eggs. Served with yellow rice.

Option 4 - Vegetarian

Dessert - Flan

About the Speakers:

Ms. Venner is a professional engineer, LEED Green Associate, and ENV SP who has been responsible for the planning, modeling, design and startup of municipal wastewater treatment facilities ranging from 0.022 to over 330 MGD average flow. She has a B. Eng in Civil Engineering from McGill University in Montreal, a M.Sc in Environmental Engineering and Science from Stanford



University, and an MBA in Management and Sustainability from the University of South Florida. Ms. Venner is also ARCADIS's Wastewater Treatment Practice Technical Leader, and involved in Water Environment Federation (WEF) and International Water Association committees and task forces related to wastewater design, modeling, and sustainability. She is Chair of the WEF Sustainability Community of Practice and leads the Wastewater group of the WEF Envision Task Force.

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

Registration Form

Pre-Registration Deadline: Tuesday, November 11th (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

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8010 Woodland Ctr. Blvd., Suite 1200

Tampa, Florida 33614

Tel: (813) 882-4373

Fax: (813) 888-7215

E-mail: rborromeo@wadetrim.com

Register Online: <http://mms.fwea.org/Calendar/moreinfo.php?eventid=31935>



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Run4Water

Run4Water was hosted by FWEA, AWWA, and the City of Oldsmar on October 11, 2014 in RE Olds Park. This event consisted of a 1 mile fun run, a 5k run, and a post-race party with local bands, food, and drinks. Over \$7,000 was raised for Water for People and Oldsmar Cares. The fastest 5k was completed in 22 minutes, 11 seconds. The USF Bulls took home both team challenge trophies: one for the fastest team, and one for the biggest team!



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UPCOMING EVENTS

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*2014 Kappe Lecture
J.B. Neethling*

Recalcitrant Nutrient Species Challenge Ability to Meet Low Nutrient Targets Reliably



Dr. Neethling is a Senior Vice President and Technical Director for Wastewater Treatment with HDR Engineering, Inc. He is responsible for evaluating technical solutions to environmental problems and to find practical solutions for current challenges. Dr. Neethling has been involved in more than 75 biological nutrient removal projects and is the principal investigator for the WERF Nutrient Removal Challenge. He has contributed to the *Manual of Practices* and served as associate editor for the American Society of Civil Engineers (ASCE) and Water Environment Federation (WEF).

**Wednesday,
November 19, 2014
1:30 pm
Marshall Student Center
Oak Room · MSC 3707**

USEPA in-stream nutrient water quality criteria requires very low nitrogen and phosphorus concentrations. Meeting these limits reliably and economically poses new challenges to planners, designers, and operators. This lecture presents the fundamentals of biological nutrient removal (BNR) and its application to attain reliable performance. Topics will include:

- Nutrient species and their environmental impact and role in treatment technologies.
- BNR principles and strategies to improve performance and reliability.
- Sustainability impacts of increasingly lower nutrient removal requirements.



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(Gresham, Smith and
Partners)

**Vice Chair – Freddy
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Hansen)

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(Black & Veatch)

**Secretary – Ricardo
Borromeo** (Wade Trim)

Content – Joe Zaccardelli
(Jacobs Air Water
Systems)

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

**Communications – Jacob
Porter** (Hazen and Sawyer)
and Nita Naik (Greeley and
Hansen)

**YP Chair – Matthew
Woodham** (USF)

**Membership – Rachel
Cantor** (RC Associates,
LLC)

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