

FWEA WEST COAST CHAPTER NEWSLETTER

Fall 2016

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*2016/2017 Steering Committee
Members*

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USF competes at WEFTEC16

*The Marriage: Finding Your
Dream Job*

Fall Quarterly Luncheon

MESSAGE FROM THE CHAIR

Alice Varkey, GHD

On behalf of the FWEA West Coast Chapter Steering Committee, I would like to thank our members for your active and continued support of the chapter's events and initiatives. We had another very successful luncheon in August attended by 98 people!

We are looking forward to more successful events with our **upcoming Evening Networking Social** on Thursday October 20th at Pair O'Dice Brewing Co. in Clearwater and the **Fall Quarterly Luncheon** on Thursday, November 17th at the Columbia Restaurant in Tampa. Our topic for this luncheon is **Tampa Bay Water, ASR, and the Community: A Story of Growth**, and our speakers will be Ivana Kajtezovic from Tampa Bay Water and Don Ellison from SWFWMD.

Also, USF was awarded the 2016 Kappe Lecture "Maximizing Process Intensification and Resource Recovery- from Theory to Practice" for Friday, November 4 and will be hosting Dr. Sudhir Murthy from DC Water.

Stay tuned for more information on our chapter's **Annual Sporting Clays Tournament** event and **Annual Roundtable Luncheon** taking place in 2017.

Please continue reading for details on upcoming events and stay tuned for more information throughout the year in our Quarterly Newsletters!

The FWEA West Coast Chapter would like to recognize each of our 2016-2017 Annual Chapter Sponsors for their very generous support:



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FWEA WEST COAST CHAPTER

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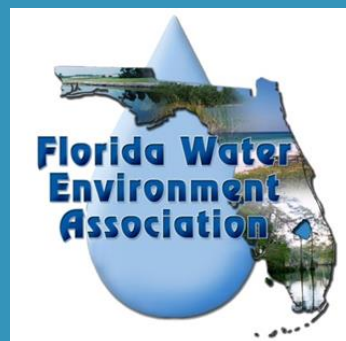
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UPCOMING EVENTS



October 20, 2016 • Evening Networking Social

October 27, 2016 • FWEA Biosolids Seminar

October 28, 2016 • FWEA Manasota 2nd Annual Sporting Clays Tournament

November 16-17, 2016 • Great American Teach-In

November 17, 2016 • Fall Quarterly Luncheon

February 2017 • Annual Sporting Clays Tournament

February 23, 2017 • Winter Quarterly Luncheon

March 2017 • Annual Roundtable Luncheon

For more information, visit us at <http://www.fwea.org> and like us on <https://www.facebook.com/CleanWaterFL/>

Come Join Us!

Evening Networking Social

PAIR O'DICE BREWING COMPANY

4400 118th Ave. N. #208 Clearwater, Florida 33762

THURSDAY, OCTOBER 20

6:00 PM TO 8:00 PM

*Our speaker will be Ms. Randi Kim, Utilities Director,
Pinellas County Utilities*

A BREWERY TOUR WILL BE GIVEN BY THE ENGINEER-
OWNERS DISCUSSING WATER QUALITY IN THEIR
BREWING PROCESS.

FWEA MEMBERS ARE FREE!

NON-FWEA MEMBERS ARE \$25.00

BECOME A WEF MEMBER AT THIS EVENT AND RECEIVE A FREE FWEA TUMBLER!

Register now at

<http://mms.fwea.org/Calendar/moreinfo.php?eventid=41148>

For more information please contact Ryan Messer at

ryan.messer@ch2m.com 904-993-4310

2016 KAPPE LECTURE

Maximizing Process Intensification and Resource Recovery - from Theory to Practice

Sudhir Murthy, Ph.D., P.E., BCEE, Innovations Chief, DC Water

Friday, November 4

12:30 pm to 1:30 pm (*Reception to Follow*)

CMC 147, Multidisciplinary Complex Room
University of South Florida (Tampa Campus)

Parking Directions at: <http://usf-reclaim.org/kappelecture2016map/>

Abstract. In the past 100 years of water reclamation, improvement in treatment to meet new or more stringent permit requirements have used more resources, more land, more energy, and more chemicals. Rapid urbanization is pushing plants to seek out new approaches for better use of these resources as property values increase and there is little room to expand. In the United States, where plant capacity is determined by flow, water conservation is resulting in larger populations and therefore larger loads being served within the same flow. Often, the solids capacity for treatment is met before the liquid capacity. Re-tooling plants to provide adequate intensification has become an important goal. To achieve this intensification within existing infrastructure of concrete tanks built to last for 50-100 years provides additional challenges. Examples will be provided of new approaches for intensification that use or augment existing infrastructure in new ways. Understanding and addressing process limitations have been key in bringing about this intensification. Examples will be provided of opportunities for intensification of greater than 200% (while simultaneously reducing or maintaining the resources used) for nearly every major part of the wastewater treatment plant including preliminary/primary treatment, secondary treatment, nutrient removal, anaerobic digestion, and dewatering.

There is also a global interest in developing new approaches for resource recovery in wastewater. The Water Environment Federation has led the renaming of wastewater treatment plants (WWTP) to water resource recovery facilities (WRRF). The name change reflects a change in the mindset within the water sector, focusing on resource recovery as an essential element of treatment. DC Water has embarked on a journey of maximizing resource recovered from used water by maximizing carbon redirection, intensifying anaerobic digestion with thermal hydrolysis, developing value products, heat and electrical energy.

This presentation will describe the continuing research journey for developing an intensification and resource recovery program within existing infrastructure at a large regional facility in Washington, DC, with little room to expand while meeting new stringent nutrient permits and managing combined sewer flows. The long-term sustainability of built infrastructure is dependent on the intensification that these approaches represent.

Speaker. Dr. Murthy is the Innovations Chief at DC Water where he leads the development and implementation of their innovation strategy. Dr. Murthy creates, defines, and translates research and development into new or improved facilities, products, services or revenue concepts. He has led the concept development for several programs that has led to nearly \$1 billion in engineered facilities. In the past five years, DC Water has won four Research Grand Prizes from the American Academy of Environmental Engineers and Scientists.



The Kappe Lecture Series was inaugurated by the Academy of Environmental Engineers & Scientists in 1989 to share the knowledge of today's practitioners with tomorrow's environmental engineers and scientists. This program was inspired by a grant from the estate of Stanley E. Kappe, P.E., DEE, who served as the Academy's Executive Director from 1971 to 1981.

The Kappe Lecture at the University of South Florida is supported by the Center for Reinventing Aging Urban Infrastructure for Nutrient Management and Reclaim, a global network of researchers and practitioners dedicated to understanding and developing context specific, geographically appropriate systems to manage the nutrient, energy, and water nexus. <http://usf-reclaim.org/>

Contact James Mihelcic at jm41@usf.edu if you require more information about the Nov 4 lecture.

ANNOUNCING!

The **West Coast Chapter**
invites you to participate in the
2016 Great American Teach-In!

This is an exciting opportunity to tell students about your career, experiences, and community involvement. Volunteers are welcome to apply to speak at any public school to any age group at any time during the day for as many class periods as they would so choose.

WEDNESDAY, NOVEMBER 16TH

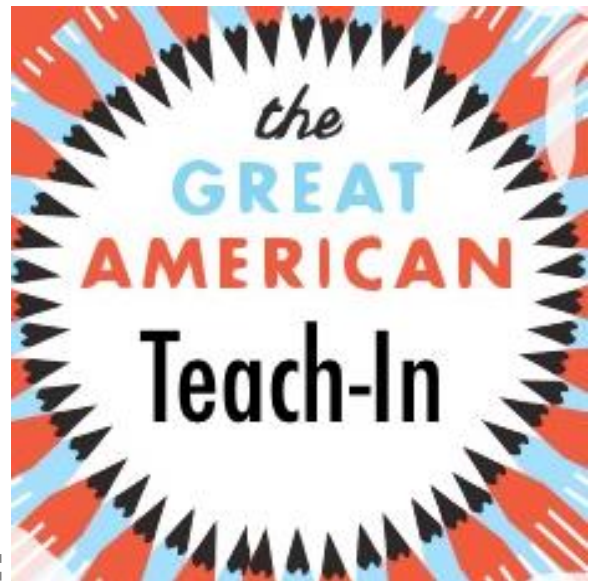
LOCATION: All **PINELLAS** County Public Schools

GRADES: All grades

THURSDAY, NOVEMBER 17TH

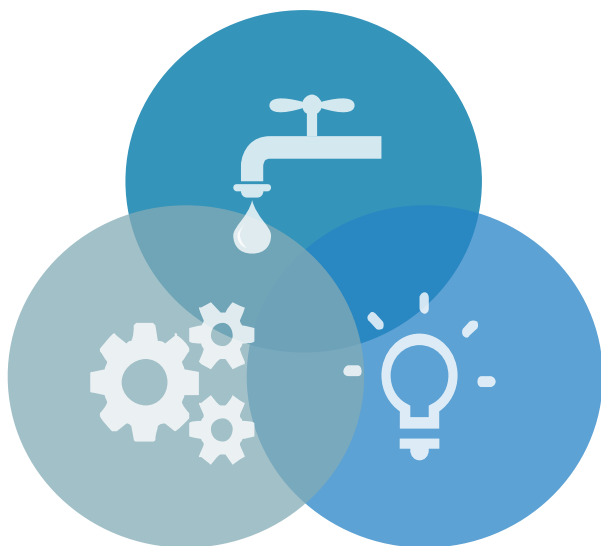
LOCATION: All **HILLSBOROUGH** County Public Schools

GRADES: All grades



VOLUNTEERS CAN SIGN UP TO SPEAK AT ONE OR MORE CLASSES!

*For more information, please contact **Nicole Smith** (YP Co-Chair) at nsmith@mckimcreed.com. If you have already committed to participate by signing up directly with a local school, please let us know as we would like to track the total participation by our Chapter members.*



SUMMER LUNCHEON

Austin Moore, TSC Jacobs

The West Coast Chapter would like to thank everyone who made it out to their Summer Quarterly Luncheon of 2016 at the Columbia Restaurant. The luncheon attendance was once again exceptional which was certainly due to the remarkable speakers that agreed to come out to share their knowledge with our chapter.

The afternoon's topic, "The Bay, TMDLs, and You: Water Quality Trading and Nitrogen Limit Update" was headlined by Dr. Tony Janicki of Janicki Environmental and Mr. Thomas Frick of Florida's Department of Environmental Protection. Dr. Janicki's talk focused on his work with the Tampa Bay Nitrogen Management Consortium and their recent efforts to update the Reasonable Assurance Reports which includes evaluating nitrogen loads for the area. Mr. Frick discussed the recent legislation passed in Florida allowing water quality trading and what that will mean for our community and the State of Florida. Both speakers presented some very fascinating information and the West Coast Chapter is incredibly grateful that they could take the time out of their busy schedules to share their perspectives with us.

The Fall West Coast Chapter Quarterly Luncheon will take place on November 17th at the Columbia Restaurant and will feature Ivana Kajtezovic of Tampa Bay Water and Don Ellison of SWFWMD. Mark your calendars.

DAY WITH THE RAYS

Phil Walker, Tetra Tech

The West Coast Chapter Young Professionals Group hosted its first event of the year at the 5th annual Day with the Rays event on August 21st. Before the game got under way, members enjoyed our own star-studded event with a tailgate just outside the stadium. With the reigning FWEA Grill Master, George Dick, over the coals and Matt Love donating 7 cases of beer, there was no shortage of good food and drinks to fuel the comradery among attendees. There was also a variety of fun games for the family helping to make this event a veritable home run. The minor leagues were also well represented as we saw a great turnout from our USF Student Chapter!

Inside the stadium, the Rays defeated the Texas Rangers 8-4, dominating the game after a scoring 5 runs in the 4th inning!

All told, more than 30 people attended the Day with the Rays event, solidifying it as one of the premier social events on the FWEA calendar. We hope you enjoyed the event and we look forward to seeing you all next year! Go Rays!



USF COMPETES AT WEFTEC 2016 STUDENT DESIGN COMPETITION

Tyler Smith, Carollo

The annual WEFTEC Student Design Competition (SDC) was held on September 25th, 2016 in New Orleans, Louisiana. The competition promotes real-world design experience for students interested in pursuing a career in water/wastewater engineering and sciences. It also gives students the opportunity to attend WEFTEC allowing them to network and experience the remarkable exhibit floor.

Universities and colleges across the country participated and competed in one of two categories: Wastewater or Environmental. The two winning teams from FWRC (both from the University of South Florida) received a travel allowance and the opportunity to represent Florida this year.

Both teams competed in the Wastewater category, very early in morning, and still managed to give flawless presentations. Both teams kept the audience and judges interested and engaged, and every team member participated in a portion of the presentation. It was obvious that both teams were well prepared and knowledgeable about their designs when questioned by the judges.

An important feature of the SDC, much like the consulting world, is that the written report (or proposal) is just as important as the presentation.

This feature allows students the chance to improve their technical writing skills in addition to their soft skills. Similarly to the FWRC SDC, the WEFTEC SDC places a 50% weighting factor for both the report and presentation. That being said, the University of South Florida - Sludge team came in 2nd place overall for their design, "Supplementary Sludge Management Process for City of Plant City Water Reclamation Facility," with team members Rebecca Braz, Krystin Kadonsky, Christin Gentz, Maria Reed, Poe Poe Min Hlaing. South Methodist University took home 1st place in the wastewater design competition and the University of Minnesota won 1st place in the environmental design competition.

FWEA, the S&YP Committee, and the West Coast Chapter are tremendously proud of both teams for their hard work and great representation of our state.

If you're interested in learning more about the Student Design Competition at FWRC 2017, please visit:

http://www.fwea.org/student_design_competition.php

or contact Tyler Smith, FWEA S&YP Chair at tsmith@carollo.com



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THE MARRIAGE: FINDING YOUR DREAM JOB

Rachel Cantor Fogarty, RC Associates

I often get asked the question, how do I find my dream job? I often equate this process like the dating and marriage process.

It has taken many 'dates' to know the kind of work and / or company that you want to spend your career in (a huge part of your life). What I am colloquially calling 'marriage' in one's profession is finding your dream job in a career that you want to commit your life to because you enjoy it that much. Some lucky engineers find 'the one' right out of college while others spend years finding their dream career. So how do you find your dream job and begin a life of career bliss you might ask?

Over the course of your career, every project, position, and networking group that you are involved in has formed your background into a unique combination of skills. No two engineers are exactly alike—everyone's unique experiences, background, and qualities define a unique career path. Depending on how many years of "dating" that you went through, your technical prowess may be more or less in depth at this stage. No matter where your focus has headed, you should be well versed with the projects, clients, and technical subject matter of your field to suit your interests. Now how do you turn this into your dream job?

The first step is to get organized, and put it in writing. I recommend starting a spreadsheet or document listing things you like and don't like about the technical career path you have created for yourself. You can list projects, roles/responsibilities, clients, submittals, teams, etc. The more information the better! Once your list is created, use

it as a guide to formulate and focus your career. For example, if you notice in your "likes" column that you enjoy working in the field, you can make a concerted effort to pursue assignments in your workplace that require field work. Having a defined goal on paper will help you stay focused and yield faster results. When you have a greater understanding of what makes you happy and you are focused in following your passions, it can help you turn your job into your dream job.

Pursuing technical and role/responsibilities are important, but an equally important factor in your path to career bliss is the cultural fit with the group or organization. Your dream job is as much about the right cultural fit and meshing well with your coworkers and boss as it is about the technical work. This part is not as easy to figure out as the Pros and Cons list. It all comes down to a feeling and the relationship/bonds that you form with your contemporaries. Finding this job straight out of college is a difficult task, though it has been done before. Just don't expect to run straight to the altar without doing your homework. Some organizations employ personality testing to get a better idea of the cultural fit without so much time. To others it is about working with people that they have networked with for years and already know that they get along with. Often, just being on the lookout for the right cultural fit in an organization will lead you on the right path sooner or later. Once you learn what culture you mesh best with, you should only work in groups and jobs that meet your cultural fit requirements.

So now don't wait, with these few simple tips and some diligence, you can find 'the job' that can lead you on a lifelong journey of career bliss.

Rachel Cantor Fogarty is President of RC Associates, an engineering recruiting firm, which provides retained recruiting services to growing engineering companies nationwide. For more information visit www.rcassociatesllc.com or contact Rachel at Rachel@rcassociatesllc.com or 813-286-2075.

FWEA WEST COAST CHAPTER

LUNCHEON MEETING

LUNCHEON INFORMATION

Columbia Restaurant

2117 East 7th Avenue
Tampa, Florida 33605
Thursday, November 17, 2016

Start Time - 11:30 AM
End Time - 1:00 PM

MENU

1905 Salad and Cuban Bread

Option 1 – Pollo Salteado

Boneless pieces of tender chicken sautéed in a hot skillet with extra virgin olive oil, garlic, green peppers, Spanish onions, fresh mushrooms, potatoes, chorizo, and red wine. Served with yellow rice.

Option 2 – Roast Pork "A La Cubana"

Generous slices of roast pork with a delicious marinade. Served like back home in Cuba with black beans, white rice and platanos.

Option 3 - Snapper "Russian Style"

Snapper breaded and grilled. Garnished with a Russian sauce of lemon butter, parsley, and hard boiled eggs. Served with yellow rice.

Option 4 – Vegetarian "Cubana"

Yuca, black beans, white rice, platanos, tostones and sautéed fresh vegetables.

Flan

TAMPA BAY WATER, ASR, AND THE COMMUNITY: A STORY OF GROWTH

Ivana Kajtezovic, Planning Program Manager, Tampa Bay Water

Don Ellison, Senior Hydrogeologist, Southwest Florida Water Management District

ABOUT THE SPEAKERS:



Ms. Kajtezovic has been with Tampa Bay Water for 8 years, serving as the agency's Planning Program Manager within the science and technology division. She manages the agency's Long-Term Master Water Plan, which helps the agency plan for adequate water supplies over a 20-year horizon. She holds a Master's degree in Geography with a focus on water resources.



Mr. Ellison has managed ASR projects and research efforts for the Southwest Florida Water Management District (District) since 1993. Acting as liaison between the District and over 14 water suppliers/utilities he has helped develop and establish District funding for over 50 ASR wells throughout the District. He is currently active in the development of ASR and recharge projects using direct surface water to assess the feasibility of cost effective projects to provide public supply, manage saltwater intrusion, and mitigate drawdown impacts to surface water bodies. He has promoted and managed research efforts with the United States Geological Survey, University of Florida, Florida Geological Survey, University of South Florida, Army Corp of Engineers, and numerous talented and experienced consultants.

FWEA Members Early Registration: \$25; Non-members Early Registration: \$35; Student Early Registration: \$15

Registration Form

Pre-Registration Deadline: Wednesday, November 16

Please make checks payable to FWEA

Name: _____

Company/Affiliation: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Choice of Meal: _____

Send Check and Registration to:

Isaiah Shapiro
West Coast Chapter Treasurer
Greeley and Hansen
1715 North Westshore Blvd, Suite 464
Tampa, Florida 33607
Tel: (813) 873-3666
E-mail: ishapiro@greeley-hansen.com

Register Online: <http://mms.fwea.org/Calendar/moreinfo.php?eventid=41255>