

FWEA Manasota Chapter

Vol 8 - December 2011

Message from the Steering Committee

By Lindsay Marten, Public Relations Chair and Webmaster

The crisp, autumn air reminds us that the holidays are approaching, along with a number of FWEA Manasota events! From the community-based gatherings that raise money and awareness for great causes to the quarterly luncheons where presentations are given to a roomful of water professionals, there is never a dull moment within the Chapter.

The 9th annual FSAWWA Region X Model Water Tower Competition was held on October 22nd from 8:30 AM to 1:00 PM at Carlos E. Haile Middle School in Bradenton. Water quality professionals from the community joined forces, including members from our very own Manasota Chapter to help plan and participate in this noteworthy event. The Manasota Chapter also helped with a monetary donation to help supply bottled water and prizes. This event is important because it introduces students to water issues and water professionals from their community by challenging them to design and construct miniature water storage towers. Involvement also showed students the countless opportunities available in this valuable field. The activities, participation gifts, and prizes made the contest an enjoyable learning experience for everyone.

If you were unable to participate in the Model Water Tower Competition, you can still be a part of the excitement before the end of the year! The Manasota and Southwest Chapters along with FSAWWA Region X will be hosting a Water For People Kayak and BBQ event on Saturday, November 12th from 9:00 AM to 1:00 PM at the Nav-a-Gator in Arcadia! The goal of this event is to bring friends, families, and members of the water profession together for a fun day on the Peace River while raising awareness and funds for Water For People. Please contact myself, Lindsay Marten, at Lindsay.marten@stantec.com for registration information. We hope to see you there!

The last luncheon of the year is scheduled for December 1st at the Polo Grill in Lakewood Ranch. Jose A. Jimenez, PhD will be giving a presentation titled "Nutrient Removal - Limits of Technology and Emerging Technologies." Dr. Jimenez is a principal wastewater process engineer for Brown and Caldwell.

Continued on page 3...



Model Water Tower Competition Chair Seton Katz and committee member Jennifer Stokke hand out prizes at the 9th Annual FS/AWWA Region X competition.

FWEA Manasota Chapter Steering Committee Officers

Chair

Kristiana Dragash: 941.378.3579

Treasurer

Todd Bosso: 813.371.9400

Secretary

Linda Maudlin: 941.378.3579

Content/Newsletter

Laura Baumberger: 941.371.9832

Public Relations/Webmaster Chair

Lindsay Marten: 941.225.6178

Membership

Rachel Cantor: 813.286.2075

At Large

Seton Katz: 941.861.0879

Jim Lamancusa: 941.378.3579

Len Bramble: 941.480.3333

Jeff Goodwin: 941.792.8811

*If you are interested in participating as an officer
on the Steering Committee, please contact us.*

*We are currently seeking a Vice-Chair
and additional members at large.*

THANK YOU!

We would like to
thank our newsletter
sponsors who help to
make our chapter possible.
Newsletter sponsorships
help to fund our chapter
activities and initiatives.
If you would like to advertise
in future editions,

*Please contact
Laura Baumberger at
941.371.9832*

WE UNDERSTAND
UTILITY OPERATIONS



The Severn Trent Services Advantage:

Severn Trent Services understands water and wastewater treatment plant operations. From the plant to the home and back again, Severn Trent is responsible for operating, maintaining and managing over 60 facilities in Florida through public-private partnerships. It is this understanding that allows us to provide safe drinking water and compliant wastewater treatment to over 1.3 million Florida residents.

To partner with Severn Trent Services,
call +1 941 925 3088 or visit www.severntrentservices.com

UNDERSTANDING
A VALUABLE RESOURCE



One Team.
Infinite Solutions.

WATER AND WASTEWATER
SOLUTIONS WITH THE FUTURE IN MIND.
In Sarasota, call (941) 365-5500

Global Expertise. Local Strength.

Calendar of Upcoming Events

NOVEMBER

4 ASCE Suncoast Chapter City of Sarasota Deep Injection Well Tour (<http://ascsuncoast.weebly.com/news.html>)

5 USF FWEA and FSAWWA Student Chapter Fall Picnic (<http://usfweb2.usf.edu/camprec/outdoor/riverfrontpark.htm>)

12 FWEA and FSAWWA Water for People Kayak and BBQ Event, Nav-A-Gator, 9 AM - 1 PM

13-15 WaterReuse 2011 Potable Water Reuse Conference, Hollywood, FL

16 FSAWWA Region X Social Hour, Cock & Bull Pub, Sarasota, 5 PM - 7 PM

17 FWEA West Coast Chapter Luncheon, Tampa, FL

28-30 FSAWWA Fall Conference, Orlando, FL

DECEMBER

1 FSAWWA Fall Conference, Orlando;
FWEA Manasota Chapter Luncheon, Lakewood Ranch, FL

November

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

December

SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Continued...



He serves as their southeast regional process manager, focusing primarily on nutrient removal, biological wet weather treatment, liquid-solids separation and modeling. Registration information for the luncheon can be found on the last page of the newsletter. We hope you can make it!

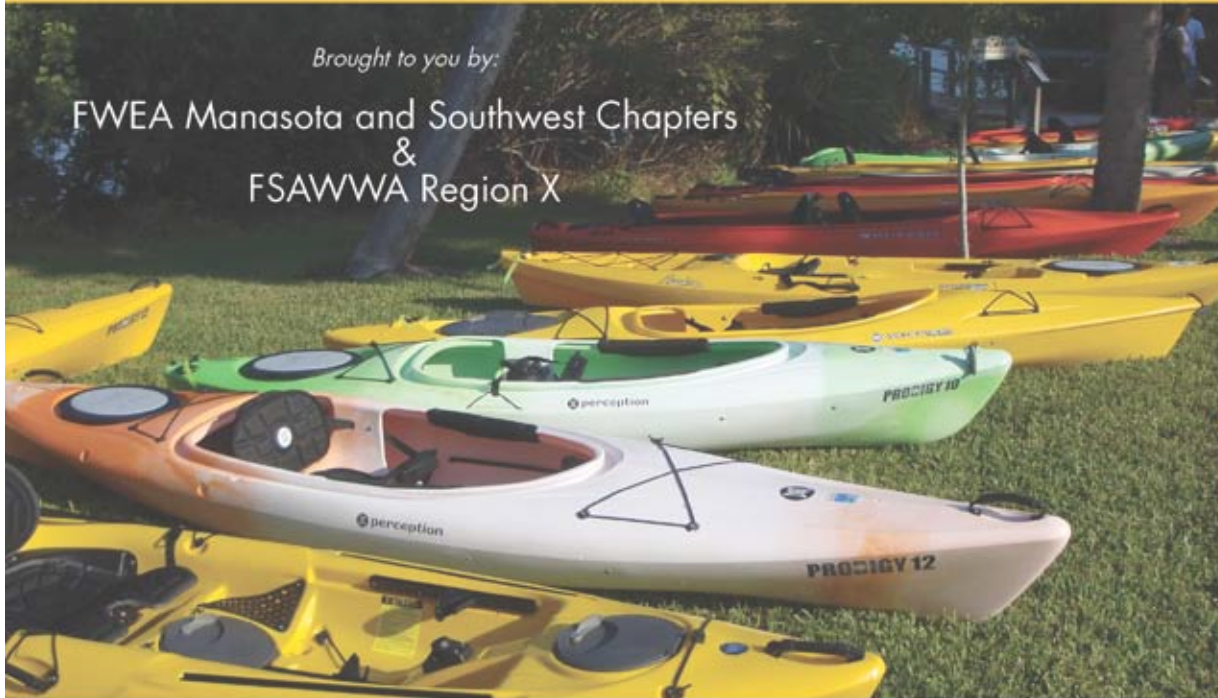
This fall has been and will continue to be packed with events and exciting updates. Thank you for all of the participants, volunteers, presenters, and sponsors for making these events possible and unforgettable. Keep your eyes and ears open for more great opportunities and occasions to come!

FWEA Manasota Chapter members Chris Rosenboom and Laura Baumberger check materials lists and receipts of student model water towers.

Water For People – KAYAK & BBQ

Brought to you by:

FWEA Manasota and Southwest Chapters
&
FSAWWA Region X

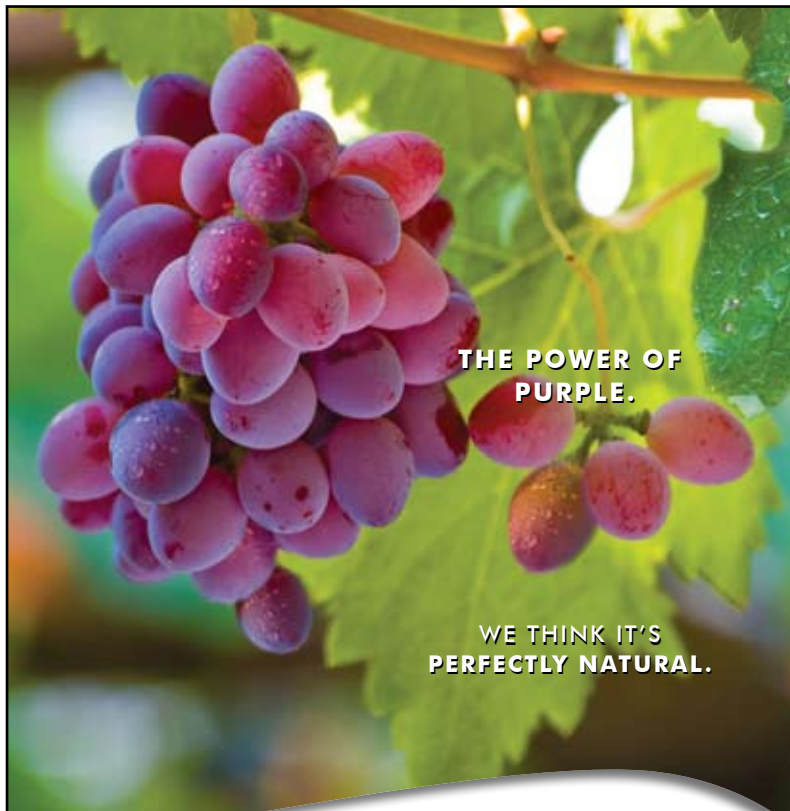


Please join us for this fun event that helps raise money for Water For People.

We look forward to seeing you and having a **FUN DAY FOR A GREAT CAUSE!**

THE NAV-A-GATOR
SATURDAY
NOVEMBER 12, 2011
9:00 AM TO 1:00 PM

Please contact
Lindsay Marten for
registration information.
lindsay.marten@stantec.com



THE POWER OF
PURPLE.

WE THINK IT'S
PERFECTLY NATURAL.



carollo
Engineers...Working Wonders With Water®

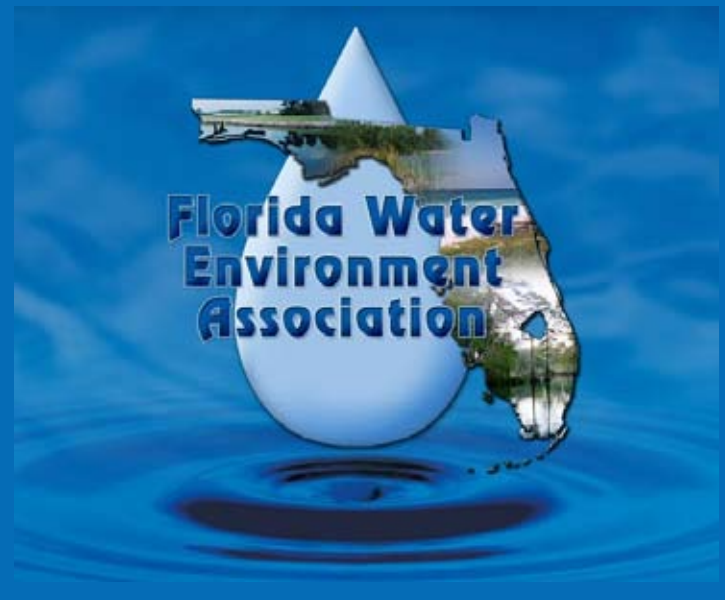
Carollo Engineers has long been committed to water reuse. By advancing treatment technologies, practicing environmental stewardship and "Working Wonders With Water®," we serve as leaders in the science, policy and implementation of water reuse. With offices coast to coast, Carollo is dedicated solely to water and wastewater engineering. Contact us today to maximize your use of this valuable resource...water.

1.941.371.9832 | carollo.com

ADVERTISE HERE!

Consider advertising your company in the FWEA Manasota Chapter Newsletter and show your sponsorship of our organization.

Contact *Laura Baumberger*
for advertising sizes and rates: 941-371-9832



Consultant's Corner: Evaluating Stormwater Infrastructure in Sarasota County

By Julie Karleskint, P.E., Hasen and Sawyer and Adnan Javed, P.E., Sarasota County.

Hazen and Sawyer has been working with Sarasota County on several projects related to their Stormwater Infrastructure Repair and Replacement Program (SWIRP). This program involves the evaluation and replacement of aging stormwater infrastructure within the County that are below ground and generally out of site. This includes stormwater pipelines, culverts, catch basins, junction boxes, and other stormwater structures that are not open to the atmosphere.

The first assignment Hazen and Sawyer completed for the County was to provide preliminary evaluation and final design documents for the Country Place Subdivision storm water system. This system provides drainage for an area of approximately 100 acres and includes 2,393 linear feet of storm sewer and associated structures.

As part of the preliminary design, an assessment was prepared using the County's geographic information system (GIS) database to determine the extent and general locations of the existing pipes and structures. This was followed by a survey of the existing system to obtain the exact locations, determine the size, and record the elevations of critical system components. Following survey, all of the pipes and structures were

cleaned and inspected by closed circuit television (CCTV) to determine the internal condition of the components using the National Association of Sewer Service Companies (NASSCO) Pipeline and Manhole Assessment and Certification Program (PACP/MACP) coding systems.

Upon completion of the assessment, parameters were developed for determining the most applicable rehabilitation techniques for the storm water system. This step involved screening repair options based on local constraints, construction considerations, and applicability to storm water systems. Following the initial screening of repair alternatives, repair recommendations were selected based on the most cost-effective and practical solutions.

The last step in the preliminary design process was a hydraulic capacity analysis. This was to ensure that the recommended repair methods did not adversely affect the hydraulic performance of the system. Sarasota County's existing Interconnected Pond Routing (ICPR) model was used to determine a peak tail water stages and develop a storm water tabulation for analyzing the hydraulic performance of the existing and rehabilitated storm water system components. This stormwater

tabulation was then utilized in preparing the permit application for Southwest Florida Water Management District (SWFWMD). In discussing this project with SWFWMD, they indicated that a standard general permit would be required for the environmental resource permit based on the size of drainage area and potential impact to wetlands. Previous SWIRP projects by the County have been performed by obtaining an exemption that can be provided if there are no significant changes in pipe sizes and limited project area. After the permit was obtained, design of the improvements was completed, and the project is anticipated to bid this coming year.



Corrugated Metal Stormwater Pipe in Country Place Subdivision

Consultant's Corner: Evaluating Stormwater Infrastructure (cont.)

By Julie Karleskint, P.E., Hasen and Sawyer and Adnan Javed, P.E., Sarasota County.

Hazen and Sawyer then provided similar services for the stormwater system along Shade Avenue from North of Grove Street to Rose Street. This system included a 60-inch stormwater pipeline that had several sinkholes within the roadway located along the pipeline route.

Upon completion of the draft preliminary design report, which included survey and evaluation of the video



Roadway Subsidence along Storm Sewer near Shade Avenue

assessment, the County decided to perform emergency repairs of the pipeline. Therefore, Hazen and Sawyer assisted the County as they worked with a contractor to perform the repairs to assure the pipeline was repaired in accordance with contract standards using the cured-in-place-process (CIPP). Since this project was being completed on an emergency basis, Hazen and Sawyer was able to obtain an emergency field authorization from the SWFWMD for the work associated with this system.

As the County proceeds with their SWIRP program, Hazen and Sawyer is also working with the County and the University of Florida to develop a SWIRP Design Manual that can be utilized on future SWIRP projects. The manual will provide guidelines and protocols for the assessment, preliminary design, final design, construction and operation and maintenance of the closed stormwater infrastructure within Sarasota County. The manual is anticipated to be complete by May 2012.

HAZEN AND SAWYER
Environmental Engineers & Scientists

Engineering Excellence

*Providing Customized Solutions
to Environmental Challenges*

Hollywood • Coral Gables • Boca Raton • Fort Pierce
Sarasota • Tampa • Orlando • Jacksonville
www.hazenandsawyer.com

advancing*innovation™



Engineers



Scientists



Consultants



Constructors

We are focused on client needs, bringing decades of engineering and scientific experience to every project.

Wastewater/Reclamation | Water Quality | Watersheds
Water Supply and Treatment | Modeling & GIS

Tampa | Sarasota | Miami | Jacksonville | Orlando | West Palm Beach

Brown AND Caldwell

941.373.1338

100% Environmental | Employee Owned | Offices Nationwide
BrownandCaldwell.com



GREELEY AND HANSEN

Designing better urban environments

water Tampa (813) 873-3666
wastewater Sarasota (941) 378-3579
water reuse Ft. Myers (239) 226-9660

www.greeley-hansen.com

Excellence through Innovation

Solutions for Florida's Infrastructure



**JONES
EDMUNDS®**



Improving Quality of Life

www.jonesedmunds.com • 1.800.237.1053

ATKINS

Engineering
Construction
Environmental
Architecture

Innovative solutions that protect Florida's waters

Clean water. A basic necessity that we can't live without but often take for granted. From our earliest days, Atkins has partnered with clients to develop and maintain safe and adequate water supplies. Planning today for your peace of mind tomorrow.

- Alternative disinfection processes
- Aquifer storage and recovery
- Asset management
- Cathodic protection/corrosion control
- CMOM compliance assistance
- Collection and distribution
- Facilities planning
- Groundwater hydrology
- Hydraulic modeling
- Instrumentation and controls
- Large diameter pipeline design
- Membrane technology
- Operations and maintenance services
- Rate and impact analysis
- Regulatory compliance
- Risk management evaluations

Plan Design Enable

www.atkinsglobal.com/northamerica

800.477.7275

RENEWED RESOURCES. SUSTAINED SOLUTIONS.

As a national full-service biosolids management company, we offer flexible solutions that reduce fossil fuel use and safeguard environmental resources while creating beneficial end products that can be used as fuel or fertilizer.

To learn about our philosophy of recycle, renew, restore, please visit www.nefcobiosolids.com or give us a call at 617-773-3131.

NEFCO
Recycle, Renew, Restore

Luncheon Meeting - December 1, 2011

What Can We Learn about Different Technologies Meeting Low Effluent Nutrient Requirements: Results from a WEF/WERF Cooperative Study of BNR Plants Approaching the Limit of Technology

by Jose A. Jimenez, Ph.D., Southeast Regional Process Manager, Brown and Caldwell

Abstract

The addition of excess nutrients, often associated with human alterations to watersheds, can negatively impact the health of a water body and interfere with designated uses of waters. In response to reports provided by states that nutrients are the leading cause of impairment in water bodies, the U.S. EPA published the National Strategy for Development of Nutrient Criteria, which may have profound consequences for Florida's wastewater treatment facilities. If the EPA proposed numeric nutrient criteria for Florida are implemented, most of Florida's wastewater treatment facilities that discharge their effluents to rivers, streams, and lakes, and some that land apply (even reuse) in the respective watersheds, may be required to meet very low limits for nitrogen and phosphorus. WEF and the WERF cooperated in a comprehensive study of nutrient removal plants to better define the "Limit of Technology" (LOT)

for nutrient removal. This effort focused on maximizing what can be learned from existing full-scale plants currently meeting low effluent nitrogen and phosphorus levels.

Jose A. Jimenez

Jose A. Jimenez is a principal wastewater process engineer for Brown and Caldwell. Dr. Jimenez has been involved with the functional design of numerous wastewater treatment plants with and without biological nutrient removal around the U.S. He has worked in the development and application of wastewater process models for both suspended growth and fixed film processes. His expertise includes nutrient removal, biological wet weather treatment, liquid-solids separation, and modeling. He received his PhD at the University of New Orleans, and he currently serves as Brown and Caldwell's southeast regional process manager.

FWEA MANASOTA CHAPTER LUNCHEON MEETING

FÊTE/POLO GRILL

10670 Boardwalk Loop, Lakewood Ranch, FL 34202

Registration - 11:30 • Lunch and Program - 12:00

Choice #1 - Pulled Pork Sandwich - Slow Cooked Pulled Pork & Fried Pickles Served with House Kettle Chips and Southern Slaw

Choice #2 - Smoked Turkey & Brie Wrap - Served with Raspberry Spread and House Kettle Chips

Choice #3 - Vegetarian Pasta Oggi - Polo Grill Specialty Pasta

Dessert - Freshly Baked Smores Cookies

Cost: \$22 for pre-registration online or by mail, phone, fax, or e-mail • \$25 at the door
\$15 for municipality employees or student

No credit card payments day of event - check (made payable to FWEA) or cash only please

Pre-registration deadline: Friday, November 25

REGISTRATION FORM

Registration can be made by mail, phone, fax, or e-mail, with payment mailed in advance or collected at the door.

Name	Company/Affiliation	Phone	Choice of Meal
------	---------------------	-------	----------------

You can register online at www.fwea.org or register by phone, fax, or e-mail to Linda Maudlin
2601 Cattlemen Road, Suite 100, Sarasota, FL 34232

Ph: 941-378-3579 • Fax: 941-378-9489 • E-mail: lmaudlin@greeley-hansen.com