

# Field & Upstream

Serving treatment plant and systems operators in Hillsborough, Manatee, and Sarasota Counties

## From The Director

What a great General Membership Meeting we had in April. Thanks to Hillsborough County's Lake Park Water Treatment Plant for hosting the meeting. Another thanks goes out to Dave Pickard of Premier Magnesia, LLC for sponsoring the meeting. Their products can help eliminate odors, corrosion in your collection systems and help with buffering in the wastewater treatment plant. Their products can also provide other benefits in your system. Please contact Dave to discuss any concerns you may have with your system. 813-928-2792 or [dpickard@premiermagnesia.com](mailto:dpickard@premiermagnesia.com).

Congratulations goes out to Zoé Chaiser for winning the BAM (bumming around money), she picked up \$25 just for attending the meeting.

The Holiday Party has been booked for December 14th at Top Golf. This has been a big hit the past two years and has been brought back by popular demand this year. Please watch for postings and registrations in the upcoming months. Great fun for just a few bucks, even if you're not a golfer plan on coming out and have a great time with us.

The 2019 renewal period has past us as of April 30th and we begin the 2021 renewal period. We are preparing CEU classes for the next renewal period. Please watch for training posting for our region.

We have 595 active members in Region XII we normally only have 15-20 members attend the meetings. What can you expect if you attend a meeting? You will meet other professionals in your chosen field of work who are willing to discuss issues we all face in our systems. The meeting sponsors provide information about their products and services which can help improve your systems, plus they provide a meal for the meeting. Let's not forget about the BAM, you could win \$25 to spend as you want. If you have an idea to increase our meeting attendance, please contact one of our board members. Thank you to all the members who do attend the meetings and especially thanks to those who step up to be board members. This is your association; I invite you to get out and become involved.

*Steve*

### DIRECTOR

Steve Saffels

[12-director@fwpcoa.org](mailto:12-director@fwpcoa.org)

### Officers for 2019

#### CHAIRMAN

Brent Laudicina

[12-chair@fwpcoa.org](mailto:12-chair@fwpcoa.org)

#### VICE-CHAIRMAN

Dana Mills

[12-vice-chair@fwpcoa.org](mailto:12-vice-chair@fwpcoa.org)

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#### TRUSTEE

Nathan Hale

### SECRETARY/TREASURER

Zoe Chaiser

[12-Treasurer@fwpcoa.org](mailto:12-Treasurer@fwpcoa.org)

### WEB - EMAIL - NEWSLETTER

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[webmaster.region12@gmail.com](mailto:webmaster.region12@gmail.com)

### INDUSTRIAL PRETREATMENT

Joe Squitieri

### TREASURE-ELECT

John Wolfe

[12-treas-elect@fwpcoa.org](mailto:12-treas-elect@fwpcoa.org)

### INSTRUCTOR - COLUMNIST

Patrick Murphy

### WASTEWATER TREATMENT TRUSTEE

Brad Mendel

### DRINKING WATER TREATMENT TRUSTEE

Theresa Hughes

### RECLAIMED WATER TRUSTEE

David Buyens

# A Murf Moment

Well, the Florida Water Resource Conference (FWRC) has come and gone again; amazing, exhilarating, exhausting! This joint conference with FW&PCOA, FWEA, and FSAWWA comes every year in April, so start planning on attending next year. Supervisor's – please allocate in your budget to send some operators to this event; Operator's – please let your supervisor's know that you are even interested in attending. If nothing else, and you can't attend the full conference; it is so easy to score a free pass for the exhibit hall, that there is no reason for you not to slip over for part of the day, talk to the vendors, learn about new technologies, or old ones that might work at your plant and make your processes better.

FW&PCOA President Mike Darrow gave one of the longest speeches that a FW&PCOA president has ever given (it was very good); but one of the points he made at the Conference was FW&PCOA's membership is growing, without pointing out that we have about twice the membership of either of the other Florida Section Associations. I'd love to know the actual count of operators at the Conference, obviously it would be almost impossible to know every operator in the State (even though I try); it just doesn't seem like operators (maybe I should say FW&PCOA members) are the majority of attendees.

Why should you as an FW&PCOA member attend? There are engineers, vendors, students, regulators, and other operators to network with; there are so many technical sessions, workshops, events, and the exhibit hall; you meet new people, you learn new things, you make friendships with individuals or groups that you will eventually (during the course of your career) work with, work for, or will assist you in some way. Our relationship with these disciplines can be wonderful, if we take the steps to make them so! You will develop trust of the disciplines, and reap the rewards of having increased knowledge of what they do, how they perform, what their expertise is, and how they can help you. A key here is to open your mouth though, don't just wander around like a zombie, feeling your way along the walls to get to the next class – engage with people you don't know, listen to what they have to say; and you will be surprised at how they listen to what you have to say. Can that be intimidating? Yes! Will you learn from that also? Yes! We can't all know everything; we're going to run into people that are like geniuses, they're going to ask you questions that you might not know the answer to. So what! Use that to your advantage to learn from them, if not right then, later when you research it; next time you'll be ready! Okay, maybe you think you are too shy to talk to people. Maybe coming from me, a person that sung a stanza and chorus of my "Tippy the Turd" song in front of 400 people at the Awards Luncheon; you don't believe me and think you can't do it. Trust me, you can; just try! I wouldn't have been able to do that 30 years ago!

Congratulations to all who won awards at the FWRC! I know they were well deserved. Don't forget about the FW&PCOA Fall Short School coming up; to nominate someone for one of the awards given during the August school; or the On-line Institute – get those CEU's now! Work safe, attend a FW&PCOA Region XII meeting when you can!

Best regards, Murf



# F.W.&P.C.O.A. Region XII

## General Membership Meeting Minutes

### Date: 04/18/19

The meeting was called to order by Chairman Brent Laudicina. All attendees were acknowledged and signed in. We had a total of 15 in attendance. The host facility was Hillsborough County Lake Park Water Plant. The sponsor was David Pickard of Premier Magnesia who gave a very educational presentation explaining the benefits when using their Thioguard TST, including: odor control, corrosion control, nutrient addition, alkalinity addition & pH stability. David also provided a very tasty meal.

**Roll call to establish quorum:** Steve Saffels, Director- *present*; Brent Laudicina, Chairman- *present*; Dana Mills Vice-Chair- *absent*; Zoé Chaiser, Secretary / Treasurer- *present*; John Wolfe, Secretary/Treasurer Elect.-*absent*.

**Trustees:** Web-Master, Mark Harris- *absent*; Drinking Water, Theresa Hughes- *present*; Distribution Systems, Nathan Hale-*absent*; Industrial Pretreatment, Joe Squitieri- *absent*; Wastewater, Brad Mendel- *present*; Reclaimed Water, David Buyens- *present*; Training, Patrick Murphy- *present*. A quorum was established.

**VACANT TRUSTEE POSITIONS**, Collection System, Stormwater, Backflow. If you are interested in one of these positions, please talk with one of our board members.

**Thanks to our 2019 sponsors:** Evoqua, Trihedral, Quality Water Services, Wol-Coat, Edward Jones and Electro-Mechanical South.

**Annual Sponsor(s) Represented:** Electro Mechanical South, Eric Mueller

**Treasurer's Report – Zoé Chaiser** (via Steve Saffels) - **\$ 1,107.63** (after securing Top Golf for the Dec. mtg.)

**Chairman's Report – Brent Laudicina**– Call for motion to approve the Minutes of the February meeting as published in on the website. Steve motioned, Eric seconded, all approved.

**Director's Report –Steve Saffels**- Back by popular demand, the Holiday Party is set up for December 14th at Top Golf. Hours are set from 7 – 10 pm.

**Reports: Newsletter / Webmaster – Mark Harris:** Chairman expressed appreciation towards Mark Harris for maintaining the website and newsletter. He is doing a great job. Zoé won the BAM!

**Education committee – Murphy** – As the new CEU year begins, we will begin planning classes.

**Awards Committee – Harris, Wolfe and Murphy** – The Deadline for Region XII Outstanding Member & Outstanding Facility Awards is November 1<sup>st</sup>, 2019. The award presented will be in wastewater operations, water operations and member of the year.

**Membership Committee – VACANT**

**Trustees –Nathan Hale (DS), Theresa Hughes (DW), Joe Squitieri (IP), David Buyens (RW) – no reports**

**Brad Mendel (WW)** – (Brad’s report is related to the old business below) Brad had previously expressed interest in spearheading the FW&PCOA Region XII Facebook page. He has begun the work of creating our page, which he reports is linked to Instagram. He has created a stand-alone Facebook page so that the login and password can be passed from person to person as new people come into positions. Then he will create administrators for the page and they will be able to control who is allowed on the page and what is posted on the page. Once the Facebook page and Instagram page are up he will forward to appropriate people for review.

**Call for Old Business:** How do we get more involvement in the association? Ideas? It was suggested that we allow those who bring a guest be allowed extra entries into the **BAM** drawing, thus giving them better odds at winning the **bumming-around-money**; and also possibly raising the BAM from the current \$25.00 mark. As the general use of Facebook and Instagram by the masses grows...it is believed that this development can help to grow interest and attendance in the organization. Through linking the current website with the Facebook page, anyone can readily jump from Facebook to the current website and vice versa. It’s just another way to attract attention to the sites which inform everyone about what the organization does. Both the website and the Facebook page can share: links to our supporting sponsors’ sites, what is accomplished in the meetings, member accolades, upcoming deadlines, CEU opportunities, and many other things that illustrate the value of our field.

**Call for New Business: Next Meeting:** June 20<sup>th</sup> Southeast WRF plant in Manatee County. Jason Hopp of Heyward will be the sponsor. Please remember to RSVP for the meeting as it helps with sponsors planning on food and drinks. Theresa Huges and Zoé Chaiser agreed to work on finding sponsors for the Aug. and Oct. meetings.

Brent called for a motion to adjourn, motion made by Zoé and seconded by Brad. Motion Passed.

*Submitted by Zoé Chaiser, Secretary/Treasurer*

**REGION XII'S**

# Next Meeting

**DATE : JUNE 20, 2019 6:00 PM - 8:00 PM**

**On-Line Registration**  
**Register by 6/17/2019**

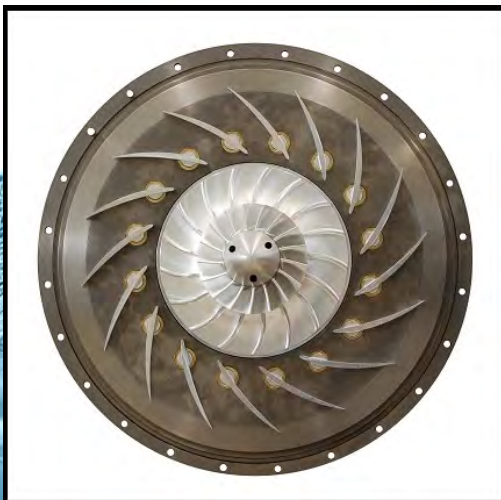
**HOST: Manatee Counties South East Maintenance Facility. Located to the South East of the Treatment Plant.**  
**3331 Lena Road Bradenton FL 34221**

**SPONSOR: Heyward Florida Incorporated**

Heyward Florida Inc. has been serving the municipal water and wastewater treatment market in Florida since 1908. We utilize our 140+ years of corporate experience along with our line of leading equipment manufacturers to help our customers solve their water and wastewater treatment problems.

Jason Hopp has been with Heyward Florida since November of 2018. Jason came to Heyward from Polk County Utilities with 20 years of experience in water resources. He has held various positions in his municipal career that have provided a wide range of experience including laboratory management, water chemistry, regulatory compliance, water and wastewater process control, instrumentation and automation, project management, and senior level management. Jason has a Bachelor of Science degree from USF in Environmental Science and holds a Class B Wastewater license.

Jason Hopp will be presenting on the concept of Wastewater Intensification at the upcoming meeting on June 20th. Wastewater Intensification is designed to provide additional treatment in a reduced footprint and provide a reduction in chemical use, energy demand and carbon footprint. These processes include chemically-enhanced primary treatment, Membrane bio-reactors, Ballasted biological processes, Granular sludge processes and AB Processes.



## **What The Heck is That?????**

Take a look at this picture. Have you ever seen one of these? Do you have a guess? Bring your answer to the NEXT MEETING and you could win **BAM!** That's **Bumming Around Money!** All correct guesses are put in a hat, and the winner drawn at random will win **\$25 U.S.**

## Sponsors of Region XII

### **Evoqua Water Technologies**

Evoqua Water Technologies is the global leader in helping municipalities and industrial customers protect and improve the world's most fundamental natural resource: water.

We have a more than 100-year heritage of innovation and industry firsts, market-leading expertise, and unmatched customer service

**Contact: Charles Maltby**

**Technical Sales Representative  
Evoqua Water Technologies LLC  
2650 Tallevast Rd.**

**Sarasota, Florida, 34243; USA  
Telephone/Mobile: (941) 586-8813**

### **Edward Jones Investments**

#### **Making Sense of Investing**

As an Edward Jones financial advisor, I believe it's important to invest my time to understand what you're working toward before you invest your money. It's also important to understand the level of risk you're comfortable accepting when investing so we can balance it with the steps necessary to reach your long-term goals.

**Contact: Sanjay Anderson**

**[sanjay.anderson@edwardjones.com](mailto:sanjay.anderson@edwardjones.com)**

**(813) 373-6825**

### **Electro Mechanical South, Inc.**

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**Contact: Ric Romanoff**

**[rromanoff@ems-fl.com](mailto:rromanoff@ems-fl.com)**

**(800) 925-9EMS (9367)**

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**Contact: David Stevens**

**Owner/Lead Operator**

**(813) 205-1045**

**Email: [QualityWaterServices1969@gmail.com](mailto:QualityWaterServices1969@gmail.com)**

## ALKAGEN® AQ SOLUTION PROVIDES POINT SOURCE ODOR AND CORROSION CONTROL IN FLORIDA

Experiencing severe wet-well corrosion and odor complaints at a prominent lift station, a municipality in South Florida turned to Evoqua to provide an effective solution.

Evoqua Water Technologies LLC was contacted by a South Florida Municipality to provide an odor control solution for a lift station within their collection system. In the past, the municipality had implemented biofiltration for control of atmospheric hydrogen sulfide. However, in recent years the biofilter was removed, leaving the lift station untreated and exposed to high sulfide concentrations. As a result, the lift station was subjected to a substantial degree of corrosion as well as odor complaints from the surrounding neighborhood.

The lift station handled an average daily wastewater flow of 0.5 MGD. Liquid sampling at the site showed an average hydrogen sulfide concentration of 6 mg/L. Atmospheric hydrogen sulfide data revealed that the lift station was experiencing an average sulfide concentration of 187 ppm, with peaks up to 324 ppm.

### ALKAGEN® AQ SOLUTION - PH SHIFT TECHNOLOGY

Due to the high sulfide concentrations and resulting corrosion issues, Evoqua determined a liquid phase technology was necessary to effectively reduce hydrogen sulfide concentrations. Point source application was also an important factor in selecting the right technology for a fast-acting solution.

Alkagen® AQ Solution, which uses a pH shift technology, was recommended as the optimal solution for providing point source sulfide reduction within the lift station. As pH increases, hydrogen sulfide will shift into a non-volatile form that is unable to escape into the vapor phase. For typical wastewater (pH ~7.0), nearly 50% of hydrogen sulfide exists in this non-volatile form. However, at a pH of 8.5, more than 97% of the sulfide will be trapped in solution. Alkagen AQ Solution increases wastewater pH as needed to effectively trap hydrogen sulfide in solution and prevent escape into the vapor phase.

Alkagen AQ Solution is fast-acting and rapidly dissolves in wastewater, providing an almost instantaneous effect at the application point. This contrasts to magnesium hydroxide, which has to be added upstream to allow time for dissolution, sometimes requiring multiple feed sites.



Alkagen AQ Solution provides fast-acting sulfide control

### ADVANCED DOSING AND REMOTE MONITORING - VERSADOSE® CONTROLLER AND VAPORLINK® MONITOR

With the Alkagen AQ system, a VersaDose® Dose-to-Demand advanced controller was used to carefully regulate the metering of chemicals by programming daily dose curves to match sewage flow rates within the system. By using the VersaDose Controller, Evoqua was able to maintain the desired pH set by the treatment objectives and prevent over-feeding and wasteful spending by the municipality.

Additionally, Evoqua deployed a VaporLink® remote monitoring device to continuously monitor sulfide concentrations within the wet-well. This capability allowed remote access to site specific data from any location with an internet connection. The VaporLink monitor and VersaDose controller were made accessible through Link2Site® Web Monitoring and Control system for real-time visibility and control. These technologies allowed for quick and efficient remote optimization of dosing to effectively reduce hydrogen sulfide.

## RAPID AND EFFECTIVE SULFIDE CONTROL

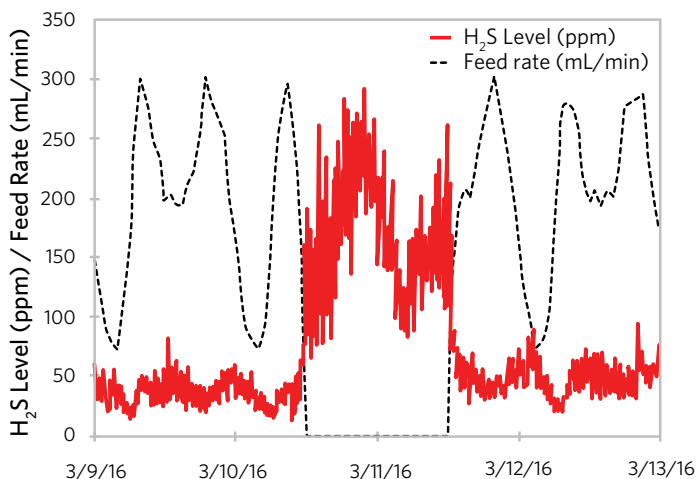
Evoqua fed Alkagen® AQ Solution directly into the influent manhole to provide instantaneous odor control within the wet-well. The municipality established treatment objectives of  $\leq 50.0$  ppm atmospheric sulfide and 8.5 wastewater pH.

Following installation and start-up, Evoqua optimized the Alkagen AQ feed system to meet the treatment objectives. The final adjusted feed rate was approximately 77 GPD. At this feed rate, hydrogen sulfide levels within the wet-well averaged 48.9 ppm while wastewater pH was maintained to an average of 8.45.

In order to demonstrate the effectiveness and rapid response of Alkagen AQ Solution, the feed system was temporarily shut off for 24 hours as seen in the chart below. Upon shutting off the system, hydrogen sulfide almost immediately returned to the untreated levels previously measured. Once the system was restarted, hydrogen sulfide concentrations promptly returned to the desired treatment levels.

With the treatment objectives being met, and the provided technology thoroughly proven, the municipality was confident in their decision to use Alkagen AQ Solution for odor and corrosion control at the lift station.

### ATMOSPHERIC HYDROGEN SULFIDE LEVELS WITH FEED RATE



When the Alkagen AQ feed system was temporarily shut off, hydrogen sulfide levels spiked, demonstrating the effectiveness of the solution.

### INDUSTRY:

Municipal Wastewater

### BUSINESS CHALLENGE:

Effectively control hydrogen sulfide to eliminate odor complaints and reduce corrosion

### SOLUTIONS/SERVICES:

- Alkagen AQ Solution
- VersaDose Dosing Controller
- VaporLink Hydrogen Sulfide Monitor
- Link2Site Web Monitoring and Control

### ALKAGEN® SOLUTION ADVANTAGES:

- Fast-acting sulfide control
- Achieves pH of 9+
- Treats odor and corrosion at the source

### FOR MORE INFORMATION

[www.evoqua.com/alkagen](http://www.evoqua.com/alkagen)

Contact:

Charles Maltby

Technical Sales Representative

Video Links

Odor and Corrosion Control in Sarasota County

Evoqua video - Making Water Safer

Evoqua Water Technologies LLC

2650 Tallevast Rd.

Sarasota, Florida, 34243; USA

Telephone/Mobile: (941) 586-8813

Main Office: (800) 345-3982 (I do not have an office or telephone extension at this number)

Email: [charles.maltby@evoqua.com](mailto:charles.maltby@evoqua.com)

[www.evoqua.com](http://www.evoqua.com)



2650 Tallevast Road, Sarasota, FL 34243

+1 (800) 345-3982 (toll-free)

+1 (941) 355-2971 (toll)

[www.evoqua.com](http://www.evoqua.com)

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### **WOL-COAT**

#### **Protective Coatings and Repair Products**

[wol-coat.com](http://wol-coat.com)

Wol-Coat 310 is a 100% Solids Epoxy chemical resistant liner/coating for the protection of interiors of wastewater treatment plants structures, lift stations, large diameter pipes and manholes. At a mix ratio of 1 to 1 this chemically cured amine epoxy has excellent chemical, corrosion, moisture, and stain and abrasion resistance. Please give us a call if you want an excellent product at a great value for your coating needs.

**Contact: John Wolfe: [jwolfe@wol-coat.com](mailto:jwolfe@wol-coat.com)  
(813) 263-4498**

### **VTScada by Trihedral**

VTScada is award winning monitoring and control software that is perfect for plant, telemetry, or hosted systems of any size. For 30 years, we have been eliminating frustration from every stage of the HMI / SCADA lifecycle; from pricing and licensing, to development and support.

Contact: Bryan Sinkler, Technical Sales  
Phone: 407-403-3785

[Email: bryan.sinkler@trihedral.com](mailto:bryan.sinkler@trihedral.com)

Millenia Lakes One  
4700 Millenia Boulevard, Suite 260,  
Orlando, FL 32839-6014  
[www.trihedral.com](http://www.trihedral.com)

### **BECOME AN ANNUAL SPONSOR**

Receive an FW&PCOA Annual membership with Region XII for a representative of company, Newsletter 1/4 page (minimum) advertisement for 1 year,

Website advertisement for 1 year,

Tickets to Region XII Awards & Holiday Party,

Special recognition at Region XII Awards & Holiday Party,

And More!



# **Region XII**

## GENERAL MEMBERSHIP MEETING

Date: June 20, 2019

Time: 6:00 p.m. - 8:00 p.m.

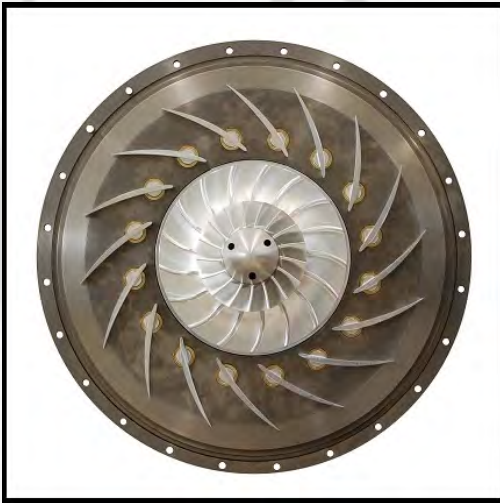
### Location:

**Manatee County Utilities**

**3331 Lena Road**

**Bradenton FL 34221**

\*\*\*Look for the FW&PCOA REGION XII MEETING INSIDE SIGN\*\*\*



### ***What The Heck Is That?***

Bring your answer to the NEXT MEETING and you could win BAM! That's Bumming Around Money!

ANSWER: \_\_\_\_\_

MUST BE PRESENT TO WIN

Email: [webmaster.region12@gmail.com](mailto:webmaster.region12@gmail.com) for more information

**Be sure to "Register" for the NEXT  
MEETING and let us know you're  
coming!**