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*Let us highlight what your MA is doing in the realm of collection systems. Share any successes, milestones, events, initiatives, innovations, fun ideas, etc. with all in our collection systems community by emailing a short summary to Bri Nakamura at [bnakamura@wef.org](mailto:bnakamura@wef.org)*

### Member Association News

#### Alabama WEA ([AWEA](#))

The AWEA Annual Conference at the Perdido Beach Resort in Orange Beach, Al. was a huge success and a great time! The 39th Annual Conference was held on April 10-13, 2016.

The technical sessions and exhibit hall were packed and the state was well represented from all sizes of municipalities from every corner of the state.

The AWEA Collections System Committee (CSC) developed the following set of initiatives for 2016:

- ◆ Become a resource for member utilities
- ◆ Send a questionnaire to the member utilities to determine training needs
- ◆ Conduct four (4) training workshops in various parts of the State to meet the need
- ◆ Establish a web based method to share information
- ◆ Grow the committee membership

A big thank you to all of the attendees, sponsors, exhibitors, and presenters for helping us put together another great conference!

#### Arizona Water ([AZWATER](#))

Run by CSC's own Steve Tilson (Tilson & Associates, LLC) and Laurie Chase (Blue Heron Engineering), Arizona Water (AZ Water) in conjunction with WEF, put together a fantastic seminar on *Navigating the World of FOG (Fats, Oils, Grease)* in Tempe, Arizona on April 6-8, 2016.

The well attended event, 86



CSC's Steve Tilson speaking to a jam packed audience. Photo: Laurie Chase



Mick O'Dwyer, CEO & FOG Director, Evolution Environmental Services, Ltd. giving a presentation on Dublin's (Ireland) FOG Program Development & Implementation. Photo: Laurie Chase

attendees representing three different countries (United States, Canada, and Ireland) and throughout the US and Guam, provided a complete picture of FOG—from the fundamentals through new technologies.

With attendees from different parts of the world, it provided participants and subject matter experts a unique opportunity to share their experiences and converse about the changes in the FOG industry. Attendees were encouraged to bring in their service user pamphlets and bill stuffers, with one attendee even bringing in a scale working model of a grease interceptor (used to show food service establishments and others how these devices work).

A big thanks to AZ Water, David McNeil, the Tempe Grease Cooperative, Steve, and Laurie for all their hard work and for putting together another great event! Look out for more interactive seminars like this in your area!

#### Chesapeake WEA ([CWEA](#))

SAVE THE DATE! The Chesapeake WEA (CWEA) will be hosting a Collection Systems Seminar on **June 1, 2016** at the Dutch's Daughter in Frederick, Maryland. Look out for more details to come!

Registration is also still open for the *67th Annual CSAWWA/CWEA/WWOA Short Course for Water and Wastewater Operators* which will be held at Washington College in Chestertown,

## Member Association News (continued)

Maryland from **June 5-10, 2016**. The Short Course offers new ideas and serves as a "refresher" for existing operators. For more information and to register for the short course, [click here](#).

### North Carolina AWWA-WEA ([NC AWWA-WEA](#))

On **July 11-15, 2016** the North Carolina AWWA-WA (NC AWWA-WEA) will be hosting the Western Collection/Distribution School in Morganton, NC.

The objective of this school is to REVIEW the basic concepts in the proper operation and maintenance of water distribution and wastewater collection systems. The curriculum will provide information that should be helpful in preparing a participant for the mandatory certification exams in Water Distribution, Backflow, and Wastewater Collection. More information and registration will be available in April.

### Ohio Water Environment Association ([OWEA](#))

Mark your calendars! OWEA has just announced their 2016 workshop schedule. Unless otherwise noted, workshops will take place at the Doubletree Worthington. The 2016 workshop schedule is as follows:

- ◆ Government Affairs Workshop - March 17, 2016
- ◆ **Collection Systems Workshop - May 5, 2016**
- ◆ OWEA 2016 Technical Conference & Expo - June 27-30, 2016 The Bertram Hotel & Conference Center in Aurora, Ohio
- ◆ Plant Operations/Lab Analysis Workshop - October 26-27, 2016
- ◆ Biosolids Workshop - December 1, 2016

To register and for more information on OWEA workshops, [click here](#).



Plant operations participants. Photo: Jay Nicholson

### WEA of South Carolina ([WEASC](#))

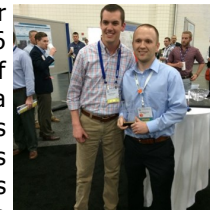
*Submitted by Conference Coordinator, Morgan Young*

This year marked the 26th annual South Carolina Environmental Conference (SCEC) and what a conference it was!

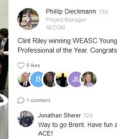
The theme for this year's conference is "A Better South Carolina through Better Water." The theme represents what is most important to us as water professionals and aligns with the mission of both organizations. If our state is to continue to prosper, we must protect our water resources - from rivers, lakes and estuaries to support human life, economic growth, thriving ecosystems, and even those ocean-going apex predators.

The SCEC was blessed to offer record technical content (86 CEUs), host a record number of exhibitors (209), and attract a record number of participants (1,640). Of course, these records are a result of the tireless efforts of the Association Staff, the Conference Management Committee, and, of course, you! You are what make this conference such a success. It often sounds like a broken record but it seems that every year, our visiting national representative or delegate identifies our conference as one the best they get to visit during their tenure. That is quite a testimony.

The SCEC app, a brainchild of last year's Conference Management Committee, continued to prove its worth with more than 841 apps download, 240 profiles created, 53 messages posted, and 465 photos shared. Included are some of your special moments as captured by you, through our app.



Clint Riley winning WEASC Young Professional of the Year. Congrats!! Photo: Phillip Dieckmann



## Collection Systems Awards

In each issue we like to recognize professionals and/or utilities in your Member Association (MA) who received a distinguished award in collection systems. Please contact Bri Nakamura at [bnakamura@wef.org](mailto:bnakamura@wef.org) if you would like to contribute.

### WEA of South Carolina (WEASC)

#### **Dennis Pittman Collection System Award**

- ◆ Terry Childress

#### **WEASC Maintenance Operator of the Year Award**

- ◆ Chad Murer

## Technical News

### Phase Three of the Alaska Water and Sewer Challenge Announced

In December 2015, the Alaska Department of Environmental Conservation (DEC) Village Safe Water Program announced Phase 3 of the Alaska Water and Sewer Challenge, a research and development effort to find better and more affordable methods for delivering drinking water and sewage disposal services to rural Alaska. The project, which began in 2013, is designed to leverage public funding with resources from the private sector and academia to produce innovative, cost-effective water and sewer technologies that can be constructed and operated in an Arctic climate.

Over 3,300 rural Alaska homes lack running water and a flush toilet. Residents in homes without running water and flush toilets have a significantly higher incidence of acute respiratory infections and severe skin infections than persons with in-home running water.

Phase 3 includes the prototype development and pilot testing in a lab for the top three proposals submitted during Phase 2. The three proposals include:

## Technical News

- ♦ **DOWL Alaska** proposes a system where the water and wastewater holding tanks are located in a small vestibule attached to the house to minimize space requirements in the home and avoid the use of expensive heat trace to a separate holding tank outside the home. DOWL Alaska plans to set up its pilot system in Fairbanks at the Cold Climate Housing Research Center.
- ♦ **Summit Consulting** proposes treatment of raw water by means of a two-stage cartridge filtration process followed by ultraviolet (UV) disinfection, which allows flexibility to treat a wide range of raw water quality. Summit's pilot system will be set up at their main office complex in Tok.
- ♦ **University of Alaska Anchorage (UAA)** proposes to recycle both graywater and some black water, as well as the use of a modular approach that will allow homeowners to select those in-home components that fit their lifestyles and space available at home. UAA's pilot system will be set up on campus in Anchorage.

To read more about the Alaska Water and Sewer Challenge, [click here](#).

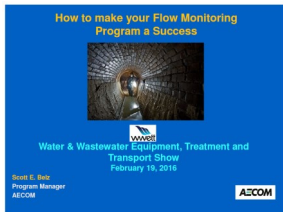
### Wet Wipes Gone Wild

The forever question of, "should you flush that?" Forester Daily News did a case study outlook on the work being done by CSC member Aubrey Strause, who has been combating the problem of wipes clogging wastewater systems since 2009. Strauss in conjunction with Maine WEA conducted a study in early 2011 and estimated that wastewater utilities in main were spending approximately \$600,000 a year to address the problem of wipes getting clogged in pumps.

To understand the problem, utilities have to dig deep into the material. Due to limited data on the nature of the interferences, the Maine Wastewater Treatment Association has a standard operating procedure (SOP) for helping utilities evaluate materials in pump clogs and sewer obstructions in order to assist the industry in understanding the extent of the problem, characterize the materials responsible for the interferences, and determine how to ultimately solve the problem.

To read more about the case study and to read about MWEA's Pump Clogs SOP, [click here](#).

### WWETT highlight "How to Make Your Flow Monitoring Program a Success" by CSC Member Scott Belz



Mr. Scott Belz, a CSC committee member, of AECOM presented a paper "[How to Make Your Flow Monitoring Program a Success](#)" at the [2016 WWETT Conference](#) in Indianapolis this past February as part of the Education Day Seminars. The paper discussed the flow equation, types of technology and reasons for flow monitoring. Other topics included site selection, installation and maintenance and data management. The Key Elements to a Successful program were: Planning, Organization, Right Tools for the Job, Knowledge of Flow Monitoring and Sewer Systems and Commitment! If you are interested in more information and to get a copy of the presentation, please contact Scott at [scott.belz@aecom.com](mailto:scott.belz@aecom.com).

## WEF News

### Another Success CSC Webcast on Private Property I/I

On March 30, 2016, the CSC Webcast subcommittee put together another great webcast titled, *Private Property I/I Reduction: Policy, Funding, Public Outreach*. The well attended webcast touched on the experiences of two highly experienced "veterans" and CSC member's, Phil Hubbard of Hampton Roads Sanitation District in Virginia and Jackie Zipkin of East Bay Municipal Utility District in California.

During the webcast, moderated by Chris Samborski of RA Smith National, both Phil and Jackie dove into their experiences of running Private Sewer Lateral programs and their successes and failures.

A big thanks to the CSC Webcast team and Chris, Phil, and Jackie. To watch a recording of the webcast and to see the presentation handouts, [click here](#).

To continue to the private property I/I conversation, join us at Collection Systems Specialty Conference 2016 in Atlanta, Georgia for *Workshop A: Private Property I/I Reduction — Challenges, Solutions, and Vision Forward* on **May 1, 2016**. For more

information on the conference and workshop and to register, [click here](#).

### CSC Member Rudy Chow testifies to Encourage Federal Role in Water/Wastewater Infrastructure Funding

On April 7, 2016, CSC member Rudy Chow, Director of the Baltimore Department of Public Works provided testimony on behalf of WEF and the WateReuse Association at the Senate Environment and Public Works Committee hearing, "The Federal Role in Keeping Water and Wastewater Infrastructure Affordable."

Testifying before Chairman James Inhofe (R-OK), Ranking Member Barbara Boxer (D-CA), and the other Committee Members, his remarks focused on three main points:

- ♦ **Affordability** – The challenges communities are having with meeting their regulatory requirements with limited funds is a national problem;
- ♦ **Federal Funding of Infrastructure** – Congress should provide robust support for existing and proposed federal funding and financing programs; and

♦ **Economic Benefits of the Clean Water and Drinking Water State Revolving Fund Programs (SRF)** – at the Committee’s request, WEF and WaterReuse recently conducted an analysis of the estimated economic impact generated by SRF spending in four example states, including taxes that return to the federal government and the employment and output from that spending. The four states—California, Maryland, Ohio, and Oklahoma—were chosen as a good cross-section of states across the nation that were representative of geographic size, population size, cost of living, rural/urban populations, and general age of infrastructure.

To read more about Senate hearing and get the full WEF/WaterReuse testimony, [click here](#).

### Chesapeake WEA and NASSCO Team Up to Hold Inspector Training

Successful sewer rehabilitation requires trained engineers and inspectors. NASSCO’s Inspector Training and Certification Program (ITCP), which was developed for Cured-in-Place Pipe (CIPP) and Manhole Rehabilitation, provides consultants, municipal engineers and contractors with comprehensive learning and tools to understand and properly inspect these trenchless renewal technologies. NASSCO is pleased to announce a program to bring ITCP (both CIPP and manhole rehabilitation) to various communities around the country.

The Chesapeake (CWEA) Collections Systems Committee took the initiative to be the first Member Association (MA) to take advantage of this opportunity with NASSCO. CWEA held both the Manhole Rehabilitation and CIPP classes at the Washington Suburban Sanitary Commission March 28th-30th. Gerry Muenchmeyer, Master Trainer for ITCP, trained 25 students in ITCP for Manhole Rehabilitation and 15 students in ITCP-CIPP.

Several other MAs have been contacted and are interested in following the trail blazed by CWEA, which involves making class arrangements, collecting registration fees, and revenue sharing. NASSCO provides the trainer and manuals while the MA provides the registration mechanism, venue, refreshments and pays trainer and manual fees. The CWEA/NASSCO relationship has been very positive and mutually beneficial in setting standards for the assessment, maintenance and rehabilitation of underground infrastructure. We look forward to many more successful classes! If your MA is interested, please contact Jane Bayer at [jane@nassco.org](mailto:jane@nassco.org).

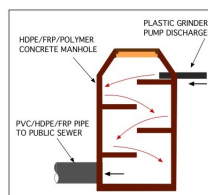
### Collection Systems Highlighted at Odors and Air Pollutants Conference

The Odors and Air Pollutants 2016 Conference, held in Milwaukee, Wisconsin on March 21-24, 2016, was a huge success! This year’s program covered a wide variety of topics including many technical sessions related to collection systems. Check out a short summary of the collection systems related sessions, provided by James Joyce of V&A Consulting and the Air Quality Committee liaison to the Collection Systems Committee.

### ♦ Session “Rotting Away – Corrosion Fundamentals”

#### Applying Corrosion Proof Materials

Once the acid is formed it runs down into the wastewater to destroy the alkalinity produced when the original sulfate was reduced in the slime layer. The plastic sewer is extended until all the H<sub>2</sub>S is gone



Odors and Air Pollutants 2016

The speakers in this session presented case histories and innovative approaches to selecting and using inert materials of construction for sewers, such as polymer concrete, plastic liners and products and acid resistant steel alloys. Other speakers presented on how to use coatings for sewer and

manhole concrete corrosion to extend the life of sewers. The use of chemicals to control sulfide-related corrosion was examined and compared with use of protective coatings and liners. All speakers stressed the importance of finding and dealing with corrosion “Hot Spots” such as force main discharges, inverted siphons, drop manholes, wet wells and other locations where turbulence quickly destroys concrete. By managing the ‘hot spots’ with liners and protective coatings the greatest damage can be economically controlled.

### ♦ Session “From Sewer Corrosion to Incinerator Emissions”

This session addressed a wide range of sewer odor case histories including innovating methods of identifying the extent of odor releases from sewers. The importance of obtaining accurate and useful sampling data was stressed along with understanding the impacts of natural sewer ventilation. Air is dragged downstream with the water according to its velocity, which changes with every slope change. This results in air being pushed and pulled through the pipe, creating positive and negative pressure zones. Innovative “Fan Testing” procedures were used to artificially withdraw a known volume of air from a sewer and then noting how far upstream or downstream the sewer remained under a negative pressure. This technique is fast gaining popularity as being able to “pre-test” the effect of an odor control facility before it is built.

### ♦ Session “Underground Conveyance Odor Issues”

The presentations in this session were all associated with management of odor and corrosion in large, complicated collection systems. Different tools used to manage odors in large systems were presented, including “Fan Testing” to identify the ventilation impact of potential odor facilities, chemical dosing programs to help control sulfide concentrations and how to establish seasonal feed rates and control feed-back protocols. Most agreed that management of ventilation is the most challenging aspect of collection system odor control, but when the proper analytical tools and treatment alternatives are evaluated, it is often the most effective odor management concept available.

For more information on the Odors and Air Pollutants Conference and to order a copy of the proceedings, [click here](#).

**SAVE THE DATE—Collection Systems Specialty Conference 2016—Registration Open!**

Join us for the 2016 Collection Systems Specialty Conference in Atlanta, Georgia on **May 1-4, 2016**. Appropriately, themed *Collections Down South—Go With the Flow*, this years program includes a great collection of [technical sessions](#), mobile sessions, [workshops, and tours!](#)

To “kick-off” Collection Systems 2016, the Georgia Association of Water Professionals (GAWP) is hosting a reception at the NEW College Football Hall of Fame on **Sunday evening, 6 pm–8 pm**. Join your colleagues for food, drinks, and an interactive fan experience with famous college football players! Advance registration is essential, and attendance is limited to the first 200 people. To learn more and to register, [click here](#).

For more information and to register for this years conference, [click here](#).

**Reason’s not to miss Collection Systems 2016!**

We want to welcome you to the beautiful City of Atlanta! As the Collections Systems 2016 "Flows South," you will have the chance to experience true southern hospitality. The City of Atlanta offers tons of fun for families, business professionals, and everyone in between. There are many things to do in Atlanta from family friendly attractions and history, to outdoor adventures and award-winning culture. The City of Atlanta will be in full bloom May 1–4 as we welcome conference attendees from around the country.

The Conference has scheduled 3 pre-conference workshops addressing I/I programs, Facilities Management and Flow Monitoring and Modeling tools.

The Opening General Session will include Atlanta’s own Commissioner Jo Ann Macrina, Department of Watershed Management, Commissioner Macrina will he will provide an exciting perspective on: Atlanta Underground Superheroes Keeping it flowing WEF President Dr. Paul Bowen and the Director of Sustainable Operations at Coca-Cola Company will discuss The Coca-Cola Company’s Story-From Risk to Opportunity.

The technical program is packed with hot topics from top notched presenters from around the country. It’s a technical program you don’t want to miss.

The scheduled tours are filling up fast and will feature the 60MGD RL Sutton Water Reclamation Facility which has advanced treatment, UV disinfection and is the only plant in Georgia with fluidized bed incinerators. The second tour goes to the Southeast Atlanta Green Infrastructure Initiative to view their integrated water resources management approach to handle storm water with green and grey best management practices. Both flagship tours are a tribute to the City of Atlanta’s proactive and innovative approach to their collections systems.

The Collections System Committee is looking forward to welcoming you to the City of Atlanta as “Collections Flows South”. Register for Collections 2016 Today!

Jim Hewitt WEF CSC SC Chair & Jimmy Stewart LPG Chair

**Collection Systems 2016**

May 1–4, 2016 | Atlanta, GA



**Collection Systems 2016 At a Glance**

**Sunday, May 1**

8:30 am – 5:00 pm      Workshop A—*Private Property I/I Reduction*  
 8:30 am – 5:00 pm      Workshop B—*Improve your Facilities Management Toolkit*

**Monday, May 2**

8:30 am – 10:00 am      Opening General Session  
 10:00 am – 6:30 pm      Exhibition Open  
 10:45 am – 11:45 am      Infiltration and Inflow  
    Mobile Session (on exhibit floor)  
 1:30 pm – 4:45 pm      Invited Local Session; Modeling; Rehab  
 5:00 pm – 6:30 pm      Networking Reception—Sponsored by GAWP

**Tuesday, May 3**

8:00 am – 5:00 pm      Registration Open  
 8:30 am – 11:45 am      Integrated/Master Plan; Combined Sewer Overflows; Asset Management  
 8:30 am – 12:30 pm      Tour A—RL Sutton Water Reclamation Facility  
 10:00 am – 3:45 pm      Exhibition Open  
 11:45 am – 1:30 pm      Luncheon  
 1:30 pm – 3:00 pm      Sulfides & Odor; Metering; Trenchless Technology  
**3:45 pm – 4:45 pm      CS Committee Meeting**

**Wednesday, May 4**

8:30 am – 11:45 am      Sanitary Sewer Overflow; Operation & Maintenance

## Did You Know?

### New Year, New Opportunities! Fundraising Opportunities in YOUR Community!

Whether big or small, there are always opportunities to help support water awareness within your business, family, and community. With the start of the new year, we've seen some interesting and different fundraising efforts to bring global water awareness to the front lines. Check out an event held by within our CSC community to help raise funds for a good cause!

#### Central States WEA's Global Water Stewardship—*We are stewards for water and people*



Global Water Stewardship (GWS) is a non-profit organization that was founded in 2013 by members of Central States WEA. GWS resolves sanitation issues in the developing world by educating people and engineering sustainable centralized solutions that keep waterways clean and communities healthy. According to the United Nations, an estimated 2.4 billion people in the world lack access to adequate sanitation facilities. We seek to address this problem. GWS targets existing communities in rural areas with dense population and an existing water system that is maintained by a water utility. Thus far, our project sites are in Costa Rica, although we hope to expand to other countries.

We provide outreach to the community and education on the benefits of centralized sanitation. Back in the U.S., we host an engineering student design competition for the centralized facility. The winning team has an opportunity to travel to the next project location to help gather engineering data. GWS then coordinates with local regulators, community officials, and funding partners to complete the design, obtain necessary permitting, and construct the facilities. GWS assists with startup of facilities and training of operators.

To find out more about GWS and how to get involved, [click here](#).

#### Join Hach at their 3rd Walk for Water to End Global Water Crisis

Every day, millions of women and children walk nearly 4 miles to retrieve water for their families daily needs. Join Hach as they host their 3rd Annual Walk for Water on **May 7, 2016** at Loveland High School in Loveland, Colorado. The [Walk for Water](#) event will simulate this trek to raise awareness of the global water crisis here in our community. Each participant will start the Walk with an empty bucket. About half-way through, they will fill that bucket with water and complete the remainder of the course. We hope that all participants end the Walk with a better understanding of the challenges people around the world face daily in search of something that we often take for granted – water.



In 2015, Hach had 410 walkers raise \$43,692.82 to provide access to safe water for the Mama Na Dada School and surrounding community in Kunya, Kenya. This year, we're hoping to make an even greater impact! To donate to Hach's 3rd Annual Walk, [click here](#).

To find more Walk for Water events in your area and to find out how to sponsor your own walk, [click here](#).

*Want help to spread the word about a fundraising or water awareness event in YOUR community or share a success story! Send a flier, photo, or short snip-it about the event to [bnakamura@wef.org](mailto:bnakamura@wef.org) to be featured in our next CSC MA Newsletter.*

*This issue is brought to you by....*

#### **WEF CSC MA Outreach E-Newsletter Team**

- ◆ Kevin Waldron, Member Services Chair, *Kansas WEA, Missouri WEA*
- ◆ Jimmy Stewart, Member Services Vice-Chair, *Alabama WEA, Chesapeake WEA, GAWP*
- ◆ Jane Bayer, *Chesapeake WEA*
- ◆ Stuart Bowns, *Kentucky-Tennessee WEA*
- ◆ David Brown, *North Carolina AWWA-WEA, Virginia WEA*
- ◆ Daniel Coleman, *Chesapeake WEA, Virginia WEA*
- ◆ Ted DeBoda, *Chesapeake WEA*
- ◆ Mark Huber, *Alabama WEA*
- ◆ Jerome Iltis, *WEA of Texas*
- ◆ Roger Lehman, *Pennsylvania WEA*

- ◆ Christine Radke, *Chesapeake WEA, Virginia WEA*
- ◆ Chip Smith, *North Carolina AWWA-WEA, South Carolina WEA, GAWP*
- ◆ Michael Quamme, *North Dakota WEA*
- ◆ Heather Veal, *GAWP*

#### **WEF CSC Leadership and Support**

- ◆ Rudy Fernandez, Chair, *Florida WEA*
- ◆ Luis Leon, Vice-Chair, *California WEA*
- ◆ Bri Nakamura, *WEF Staff Liaison*