



### This Issue

#### Member Association News (Pages 1-2)

- ◆ Alabama WEA
- ◆ North Carolina AWWA-WEA
- ◆ Virginia WEA
- ◆ WEA of Texas

#### Collection System Awards (Page 2)

#### Technical News (Pages 3-4)

- ◆ CSC I/I Releases Sewer Rehabilitation Fact Sheet

- ◆ WEF Releases Updated MOP 8
- ◆ WE&RF News
- ◆ Alaska Water and Sewer Challenge
- ◆ Save the Date—2nd TTC Annual Utility Investigation School
- ◆ NASSCO Updates

#### WEF News (Page 4-6)

- ◆ SAVE THE DATE—Collection Systems 2018 Specialty Conference!
- ◆ Collection Systems at WEFTEC Recap
- ◆ Student Design Competition Winners
- ◆ Texas Teams Take Ops Challenge 2017

#### Did You Know? (Page 6)

- ◆ World Toilet Day!

*Keep reading and keep sharing! The WEF CSC Member Association e-Newsletter is going **quarterly!***

*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 Collection System Committee hosted a workshop on September 14<sup>th</sup> at the Shades Facility in Jefferson County. Sixty-five (65) water professionals attended the workshop where the following topics were discussed related to pump station design:

- ◆ Pump system curves
- ◆ Pump selection
- ◆ Wet well design and surge analysis
- ◆ Pump performance and field testing

After the scheduled presentations concluded, Jeff Griffiths with Hydromax USA presented an overview of multi-sensor inspection (MSI) equipment used to inspect large diameter sewers.

The AWEA Collection System Committee (CSC) is planning to host a December flow monitoring (data collection, interpretation, trends, and modeling) workshop in Dothan.

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

#### 2018 NC AWWA-WEA School Schedule

If you plan to attend a certification school in 2018, mark your calendars now with the following dates. Details and registration information will be posted online as each school approaches. School information will also be mailed to members in the 2018 Training Catalogs.

- ◆ **Coastal Collections and Distribution**  
March 12-16, 2018 in Morehead, NC
- ◆ **Eastern Biological Wastewater Operators School**  
April 23-27, 2018 in Raleigh, NC
- ◆ **Eastern Maintenance Technologist School**  
April 23-26, 2018 in Raleigh, NC
- ◆ **Physical/Chemical Wastewater Operators Schools**  
April 24-27, 2018 in Raleigh, NC

- ◆ **Western Collections & Distribution School**

July 9-13, 2018 in Morganton, NC

- ◆ **Western Biological Wastewater Operators School**

August 13-17, 2018 in Morganton, NC

- ◆ **Western Maintenance Technologist School**

August 13-17, 2018 in Morganton, NC

- ◆ **Central Collections & Distributions School**

Greensboro, NC - Fall date to be determined

For more information and to sign up for a certification school, [click here](#).

#### Virginia WEA ([VWEA](#))

#### Call for Abstracts! 7th Annual Operations Education Conference

The VWEA Operations Committee hereby invites the submission of abstracts for papers for the 7th Annual Operations Education Conference, to be held in Roanoke, Virginia on **June 27-28, 2018** at the Hotel Roanoke. This conference is designed to provide the latest information on wastewater collections, facility operation and maintenance, including regulations, laboratory, and safety considerations. A Safety Seminar will be held on **Wednesday, June 27th** and the technical sessions will be given on **Thursday, June 28th**.

Click [here](#) to download information on the call for abstracts.

#### Final date to submit abstracts is **January 31, 2018**.

Please submit your technical presentation to:

Ryan Hendrix

Town of Christiansburg

Email: [rhendrix@christiansburg.org](mailto:rhendrix@christiansburg.org)

[540-382-1151](tel:540-382-1151) x6014

WEA of Texas ([WEAT](#))

On **January 16-17, 2018** WEAT will be hosting their *WEAT Collections Specialty Conference: Back to Basics: Collection System O&M in a World of Innovation* at the Embassy Suites in San Marcos, TX. Join your colleagues including key utility personnel, industry regulators, consultants and vendors to discuss the basics of Collection System O&M, as well as, some of our biggest challenges. Intended as a back to basics guide, the workshop begins with the fundamentals of collection system O&M staffing, funding, equipment, activities, data collection and application, and next generation technologies. Speakers include industry and municipal leaders in their field of expertise. Call the WEAT office with any questions. For more information and register for the event, [click here](#).

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.

Chesapeake WEA ([CWEA](#))

**Golden Manhole Awardee**

- ◆ Maya Sathyahadhan, WSSC

Georgia AWP ([GAWP](#))

**Golden Manhole Inductee's**

On November 14, 2017, the Georgia WEF Golden Manhole Society met for their Annual Breakfast & Business Meeting. This year four new awardee's were inducted.

- ◆ Phillip Page – Gwinnett County
- ◆ Mike Loggins – Fulton County
- ◆ Danny Mathis – City of Atlanta
- ◆ Glenn Smith – Fulton County

Glenn Smith was also nominated as the new "manhole in charge" and will be leading the 2018 Golden Manhole awards. Congratulations to all the new inductee's and don't forget your pins!

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

**WEF Life Members** (*35 cumulative years of membership & at least 65 years of age*)

- ◆ Kenneth L. Vogt, Jr., Cape Fear Public Utility Authority
- ◆ Daniel Bigler

**Wastewater Collections Operator of the Year Award**

- ◆ Jason Capizzi, MSD Buncombe County

**Golden Manhole**

- ◆ Mike Borchers, City of Greensboro Water Resources Department

**Collection System of the Year Winners**

- ◆ Large System – Charlotte Water
- ◆ Medium System – Town of Mooresville
- ◆ Small System – Town of Smithfield

WEF Collection Systems Committee ([CSC](#))

**WEF Collection Systems Award**



*CS Awardee Keith McCormack with WEF President Rick Warner. (Photo: WEF)*

The Collection System Award is presented to an individual for contributions to the advancement of the state of the art wastewater collection. This year's awardee was **Keith McCormack**, Hubbell, Roth & Clark. Keith is the current Committee Leadership Council (CLC) Chair and also a past chair of the CSC.

**Golden Manhole Awardee's**

Since it's inception in 2000, the CSC Golden Manhole Award has continued to recognize WEF CSC members who have immensely contributed to the CSC through volunteerism, leadership, and pride.

- ◆ Dan Murray, US EPA
- ◆ Mattie Engels, Pipeline Analysis
- ◆ Michel Wanna, Macon Water
- ◆ Jimmy Stewart, Pure Technologies



*(L-R) CSC Chair Luis Leon with Golden Manhole Awardee's Michel Wanna, Mattie Engels, Dan Murray, and Jimmy Stewart (Photo: WEF)*

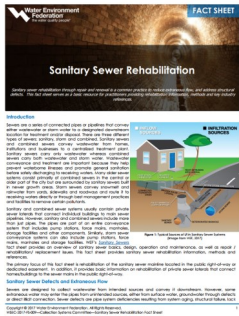
**Volunteer Service Recognition Award**



*Volunteer Service Recognition Awardees Rob Villee and Luis Leon with CLC Past Chairs Joan Hawley and Keith McCormack. (Photo: WEF)*

The Volunteer Service Recognition was created to recognize those members who significantly contribute to the successes and achievements of WEF through service in a WEF Committee or the HOD. This year's awardee's from the Collection Systems Committee were:

- ◆ Rob Ville, PARSA
- ◆ Luis Leon, HDR



### CSC I/I Subcommittee Releases *Sanitary Sewer Rehabilitation* Fact Sheet

In September 2017, the WEF Collection Systems Committee (CSC) I/I Technical Work Group released a new fact sheet on *Sanitary Sewer Rehabilitation*.

Sanitary sewer rehabilitation through repair and renewal is a common practice to reduce extraneous flow, and address

structural defects. This fact sheet serves as a basic resource for practitioners providing rehabilitation information, methods, and key industry references.

To download this fact sheet, [click here](#).

### WEF Releases New Edition of *MOP 8*

WEF has released a new edition of Design of Water Resource Recovery Facilities, MOP 8.

As the water sector's premier manual of practice for water resource recovery facility design, the sixth edition features a convenient single-volume format that makes it easier than ever to reference the latest guidance on procedures to effectively design or upgrade a recovery facility.

Published by WEPRESS, a joint publishing venture between WEF and McGraw Hill, this sixth edition of MOP 8 features contributions more than 175 wastewater engineering experts and presents the state-of-the-art resource in facility planning, configuration, and design.

To learn more or order a copy, visit [www.wef.org/MOP8](http://www.wef.org/MOP8).

### WSAA and WE&RF Release Paper on Workforce Skills of the Future

The Water Services Association of Australia (WSAA) and WE&RF released their latest paper, "[Workforce Skills of the Future](#)". This paper highlights the future trends that affect the urban water industry and the key enablers for success. As our industry undergoes the transition to a digital future, we need to stay ahead of the curve with shifting workforce trends and custom expectations. For more information on this research, contact Walter Graf at [wgraf@werf.org](mailto:wgraf@werf.org).

### Alaska Water and Sewer Challenge

To improve the health of rural Alaska residents, the Alaska Department of Environmental Conservation, in coordination with tribal, state and federal agencies, is spearheading a research and development effort to find better and more affordable ways to deliver drinking water and sewage disposal services to rural Alaska.

#### The Problem

◆ Over 3,300 rural Alaska homes lack running water and a flush

toilet. Most of these homes are located in 30 "unserved" villages. Many homes and villages with service depend on aging and deteriorating piped and haul systems.

◆ Lack of in-home water and sewer service in rural Alaska causes severe skin infections and respiratory illnesses. Residents of Southwest Alaska suffer rates of invasive pneumococcal disease (IPD) that are among the highest in the world.

◆ To correct this public health problem, agencies have funded conventional, community-wide piped and truck haul systems. Although these systems work, they are expensive to construct and many communities cannot afford their high operational costs.

◆ Funding to build systems has declined severely while costs have risen sharply. The deficit between available funds and needs is over 1.2 billion.

◆ Many households in rural Alaska use a toilet known as a "honey bucket". A plastic bag lined bucket collects urine and feces. Then, plastic bags of feces from honey buckets are disposed in a sewage lagoon.

◆ A different approach to delivering these services is needed.

The project is currently in the third phase, called Development and Testing of Pilot Systems. Three pilot systems are in operation in locations around the state, and final results will be evaluated. The next phase, expected to begin early next year (2018), will focus on field system development.

**UPDATE:** Teams completed prototype development and testing. To view videos and system highlights, [click here](#).



### Save the Date—2nd TTC Annual Utility Investigation School

The Trenchless Technology Center (TTC) at Louisiana Tech University in conjunction with the ASCE'S Utility Engineering and Surveying Institute (UESI) have teamed to hold the second TTC UIS School on **February 26-March 2, 2018** at Louisiana Tech University.

This short course will give practitioners the knowledge and tools to provide competent utility investigations in accordance with accepted national standards (ASCE 38-02) and to defend against claims through this knowledge and its documentation. In addition to the classroom lectures, practical sessions will be held where participants will be offered hands-on experience with the GPR, PCL, and etc. This 5-day school will be taught by the foremost experts in the geophysics and subsurface utility engineering field.

This 5-day school has been designed for

- ◆ Engineers and surveyors and project managers providing deliverables that include results and depictions of utility investigations.
- ◆ Consulting engineers, Employees of utility companies, state DOTs and local highway agencies, regulatory agencies, local governments, etc.

For more information and to register for the school, [click here](#).

## NASSCO Updates



### Holding Safety Paramount

NASSCO, in partnership with other leading industry organizations including NSF, NASTT, WRC, WE&RF and ACMA, has launched a formal Workgroup to address recent reports pertaining to the safety of styrenated resins in the use of cured-in-place pipe (CIPP). This Workgroup's

intention is to build upon the foundation of ASCE's Code of Ethics' First Canon – "To Hold Safety Paramount". Our ultimate goal is to leave no stone unturned in the discovery of facts pertaining to the properties and outcomes of CIPP, which has a proven history of delivering an ecologically-friendly solution to repair underground pipes for more than 40 years in North America.

In the pursuit of this truth, NASSCO has solicited responses to a formal request for proposals (RFP) for an independent, third party review of recent publications that question the safety of CIPP, specifically the presence of organic chemicals in emissions associated with the CIPP installation process that utilizes steam. The literature review will cover:

- Test methods, equipment and instruments used in the studies
- Data review for QA/QC procedures, type of data sample collected, reporting and detection limits, previous employee sampling data from NASSCO companies, and CIPP materials used
- Reference review including whether references support

consistent conclusions and if the work was peer reviewed

- Statistics analysis including type of models used and whether the models used were representative, calibrated and validated
- Review of the data with respect to environmental impact, toxicology and employee chemical exposure
- Chemical exposure limits at different locations relative to steam exhaust discharge source
- Determination of actual short-term and long-term health issues identified from odor complaints as verified by professional and medical personnel
- Discussion on employee/public safety and health standards and regulations including OSHA, ACGIH, NIOSH and other regulatory limits
- Verification of test methods

In addition to the literature review, the RFP included the development of a work plan for an additional scope of service that will focus on the sampling and analysis of emissions during the field installation of CIPP using the steam cure process. This work will be peer-reviewed by a professional environmental consultant qualified to perform the work prescribed.

Responses have been received and an award will be made by December 1, 2017, with a projected completion date for this first phase by March 1, 2018. For updates and more information, please visit [nassco.org](http://nassco.org).

## WEF News



**SAVE THE DATE**—Collection Systems 2018  
April 8-11, 2018 in Virginia Beach, VA

**Sun, Sand, and Collection Systems! Reasons to attend CS 2018 in Virginia Beach!**

Located in beautiful Virginia Beach, a coastal city in southeastern Virginia, this year's Collection Systems conference will feature an incomparable and envious program of diverse technical presentations, mobile sessions, tours, pre-conference workshops and exhibits highlighting the continued advances in the industry.

Where the Chesapeake Bay meets the Atlantic Ocean, Collection Systems 2018 is perfectly located for this year's conference and your next adventure. With a 3-mile boardwalk that stretches along its beach-lined oceanfront and the bayside First Landing State Park that marks the 1607 arrival of the Jamestown colonists from England, the "Beach" will not only offer unique perspectives on collection systems topics, but will provide a great environment to network and discuss the latest hot topics with your peers.

Presentations will cover regional topics of interest, as well as lessons learned from the entire country by national experts in the field. Conference participants should expect to learn about state-of-the-art infrastructure planning, investigation and rehabilitation techniques.

So come see the latest innovations and equipment in the Exhibit Hall, network with old friends, and meet new contacts at "**Collections on the Coast**".

For more information about the upcoming conference, [click here](#).

**Save the Date**—Mid-Year 2018 in Atlanta, GA!

The 2018 Midyear meeting will be on **February 7-10, 2018** at the Grand Hyatt Atlanta in Buckhead, Georgia.

The Collection Systems Committee meeting will be on Thursday, February 8, 2018 with the CSC subcommittee meetings occurring in the morning and the general CSC meeting in the afternoon.

This year's CSC Mid-Year meeting will consist of subcommittee updates from the Technical Practice Committee, Specialty Conference Subcommittee, and the PPVL Task Group.

Registration is still open, for more information about the event, [click here](#).



**Another Successful WEFTEC CS Program!**



*Standing room only for one of the Collection Systems Technical Sessions. (Photo: J. Davidson)*

The Collection Systems sessions were once again successful at WEFTEC 2017! The track this year included 7 full sessions, 2 half sessions, and 2 joint sessions with Utility Management and Facility Operations. Private property continued to be a popular topic at WEFTEC 2017. The attendance at our mobile session on Lateral Rehabilitation - Technology Effectiveness Comparison

was triple what was anticipated, and the featured private property half session on Monday morning had record attendance, with over 250 in the room and a line out the door. Several of our other sessions were also filled to capacity, which was great to see! Many thanks to the members of the Collection Systems Symposia, WEF Staff, and Assistant Moderators for all your efforts in making the Collection Systems program a success!!

**Collection System Committee WEFTEC Update**

The WEF Collection System Committee (CSC) hosted a meeting on Sunday, October 1 during the 2017 WEFTEC conference with nearly 80 members in attendance.



*Outgoing CSC Chair Luis Leon and incoming Vice-Chair Jim Hewitt (Photo: WEF)*

The meeting was called to order by Luis Leon turned over to Rudy Fernandez, Past Chair for the introduction of the New Vice Chair and promotion of officers.

The leadership for the 2017-2018 year includes Chair, Dianne Sumego, Chair-Elect, Kevin Waldron, Vice-Chair, Jim Hewitt and Luis Leon as Past Chair. Chair Dianne Sumego started the meeting with the recognition of outgoing chair Luis Leon. Luis completes his third year in the Chair succession of the new organizational structure serving as chair. THANY YOU Luis for your leadership!

Succession of officers was followed by an update from the Committee Leadership Council (CLC) provided by our own Keith McCormack. Keith was also recognized by out-going CLC Chair, Jon Troffater, as this year's Collection System Award winner – congratulations Keith! Your faithful service to this committee and now to the CLC is tireless and appreciated.

This year's Golden Manhole award recipients were announced by Steve Drangsholt and given a deserved recognition by attendees. The Golden Manhole award recognizes professionals in our industry whom have gone above and beyond in both their professional and volunteer lives to help with the education, and improvement of our environment. This year's Golden Manhole recipients were:

- ◆ Jimmy Stewart
- ◆ Michel Wanna
- ◆ Mattie Engels
- ◆ Dan Murray

The incoming Committee Chair, Dianne Sumego, followed with a recognition of Outgoing Subcommittee Chairs and Group Leaders, whose dedication is a direct correlation to the success of our committee. Outgoing leaders recognized:

- ◆ TPC – Sean Fitzgerald

Thank you to our Outgoing leaders for your efforts and leadership!

Our guest technical speaker this year was Jonathan Reeves, Chair of WEF Safety & Security. Jonathan provided and engaging insight into Emergency Response Planning – which many times, such as recently, only provides the basic preparation to respond to events that exceed the planned severity.



*Guest speaker WEF Safety & Security Chair Jonathan Reeves. (Photo: WEF)*

Committee activity highlight presentations were provided by Tim Sumner for the I/I Technical Practice Group and Christy Wilson for the Specialty Conference sub-committee. WEF activity presentations were provided by Steve Motley regarding the On-Demand Wastewater Library (OWWL) and Bri Nakamura regarding the "Bite Sized" projects procedures and use of the Concept form.

This year's meeting included an added overlaid item of interest – Live Polling during the meeting. Several questions were posed to attendees with responses via text messaging, utilizing the Poll Everywhere app. Tabulated results were live displayed and then later assigned for discussion in small groups during the afternoon roundtable discussion. Results and discussion report-outs will provide important input for committee leadership to further refine the committee's mission, level of engagement, succession and growth planning.



*Students presenting at WEFTEC 2017 (Photo: WEF)*

**University of Guelph and University of Colorado - Boulder Win 2017 WEF Student Design Competition**

Students from the University of Guelph and the University of Colorado – Boulder as

## WEF News (continued)

winners of the 2017 Student Design Competition. The 16th annual competition took place during WEFTEC® 2017, WEF's 90th annual technical exhibition and conference.

The University of Guelph team's project, "Stormwater Management Feasibility Study for Exhibition Place in Toronto ON," won in the environmental design category and University of Colorado – Boulder's team project, "Biosolids: Digestion, Dewatering, and Handling Evaluation and Design," won in the wastewater design category. This was the first win for the University of Guelph (Water Environment Association of Ontario) and the third win for University of Colorado – Boulder (Rocky Mountain Water Environment Association).

As a program of WEF's Students & Young Professionals Committee, the competition promotes real-world design experience for students interested in pursuing an education and/or career in water/wastewater engineering and sciences. It tasks individuals or teams of students within a WEF student chapter to prepare a design to help solve a local water quality issue. Teams evaluate alternatives, perform calculations, and recommend the most practical solution based on experience, economics, and feasibility.

[Click here](#) to learn more about the WEF Student Design Competition.



Division 1 winners TRA CreWSers, during the collection systems event (Photo: WEF)

## TRA CreWSers, Aqua Techs Win 2017 Operations Challenge Competition

Two teams from Texas clinched first place in their respective divisions during the 30th annual Operations Challenge competition. **TRA CreWSers** won Division 1, and **Aqua Techs** took home the top prize in Division 2. Both teams represent the Water Environment Association of Texas.

One of the most anticipated events during WEFTEC, Operations Challenge is a unique and fast-paced test of the essential skills needed to operate and maintain wastewater treatment facilities, their collection systems, and laboratories—all vital to the protection of public health and the environment. This year's competition included 44 hardworking teams from the U.S., Canada, and Argentina and Denmark.

Over the past 30 years, Operations Challenge has steadily grown from the original 22-team event to this year's 44-team, two-division format.

[Click here](#) to see a full list of 2017 winners.

## Did You Know?

### November 19—World Toilet Day!

If there's one thing that unites humanity, it's the call of nature. But depending on where we live, it's not always possible to dispose of our bodily waste safely and responsibly. November 19, 2017 marked this year's World Toilet Day! Established in 2001, World Toilet Day is recognized by the [United Nations](#) as an international observance day to inspire action against the global sanitation crisis. This global crisis, listed as [Sustainable Development Goal #6](#), affects more than 4.5 billion people who live without a household toilet. SDG #6 aims to have sanitation reach everyone, and to halve the proportion of untreated wastewater and increase recycling and safe reuse by 2030.



Inflatable toilet outside of the UN Building in New York City, NY. (Photo: UN)

To achieve SDG 6, we need everyone's poo to take a 4-step journey:

- ◆ Containment. Poo must be deposited into a hygienic toilet and stored in a sealed pit or tank, separated from human contact.
- ◆ Transport. Pipes or latrine emptying services must move the poo to the treatment stage.
- ◆ Treatment. Poo must be processed into treated wastewater and waste products that can be safely returned to the environment.
- ◆ Disposal or reuse. Safely treated poo can be used for energy generation or as fertilizer in food production

This year's theme, continues that from World Water Day, which focused on wastewater. As part of this the UN is asking the question, "Where does your poo go?". They even created a great video aimed at showing people of all ages the "[poo journey](#)".

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

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

- ◆ Jimmy Stewart, Member Services Chair, *Alabama WEA, Chesapeake WEA, GAWP*
- ◆ Chip Smith, Member Services Vice Chair, *North Carolina AWWA-WEA, South Carolina WEA, GAWP*
- ◆ Stuart Bowns, *Kentucky-Tennessee WEA*
- ◆ David Brown, *North Carolina AWWA-WEA, Virginia WEA*
- ◆ Daniel Coleman, *Chesapeake WEA, Virginia WEA*
- ◆ Ted DeBoda, *Chesapeake WEA*
- ◆ Jerome Iltis, *WEA of Texas*

- ◆ Kara Keleher, *New England WEA*
- ◆ Roger Lehman, *Pennsylvania WEA*
- ◆ Christine Radke, *Chesapeake WEA, Virginia WEA*
- ◆ Michael Quamme, *North Dakota WEA*
- ◆ Heather Veal, *GAWP*

#### WEF CSC Leadership and Support

- ◆ Dianne Sumego, Chair, *Ohio WEA*
- ◆ Kevin Waldron, Chair-Elect, *Kansas WEA, Missouri WEA*
- ◆ Jim Hewitt, Vice Chair, *Ohio WEA*