



This Issue

Member Association News (Pages 1)

- ♦ Alabama WEA
- ♦ New England WEA
- ♦ North Carolina AWWA-WEA

Collection System Awards (Page 2)

- ♦ Kansas WEA
- ♦ New England WEA
- ♦ WEA of Texas

Collections Systems 2019 Conference at a Glance (Page 2)

Technical News (Pages 3)

- ♦ CSC Member and Charlotte Water Director Angela Lee Testifies before Congress
- ♦ New Report Identifies Corrosion as Major Threat to Public Health
- ♦ NASSCO and WEF Release Leading Edge Content on Trenchless Technologies
- ♦ WEF Supports Documentary Film Brave Blue World

WEF News (Page 4-5)

- ♦ Mid-Year 2019: Talking Smart Sewers and Programming in Atlanta!
- ♦ CSC Upcoming 3-Part Webcast Series: "Seeing Through the FOG"
- ♦ Now Available: Wastewater Treatment Fundamentals Fact Sheets!
- ♦ Registration Open for the 2019 National Water Policy Fly-In

Did You Know? (Page 5)

Member Association News

Alabama WEA ([AWEA](#))



The Alabama WEA will join AL/MS AWWA and the Mississippi WEA ([MS WEA](#)) in the first combined conference between the three (3) organizations in Mobile, AL, **July 28th through the 31st**. Abstracts are currently being accepted for the event until **April 1, 2019**. For more information on the AL/MS Water Jam and to register for the conference, [click here](#).

AWEA CSC also hosted it's 4th Sanitary Sewer Overflow Response Plan (SSORP) workshop in Mobile on March 13th at the Mobile Area Water and Sewer System (MAWSS) for 35 attendees.



David Henson, Anniston Waterworks and Sewer Board teaches a Math Session at the SSORP Workshop. (Photo: AWEA)

Collection Systems 2: Pumping Resilience

- ♦ Retrofitting a Pump Station for Improved Performance, O&M, Aesthetics and Odor Control
- ♦ Approaches to Address Resiliency and Reduce Risk at Pump Stations
- ♦ Westport's Pump Station No. 2 Force Main Replacement Project using HDD: A Case Study
- ♦ Improving Pump Station Resilience, City of Warwick, RI

Collection System 3: Rehabilitation Issues

- ♦ A Penny (Road) Saved is a Lesson (L)earned
- ♦ Narragansett Bay Commission Rehabilitation of Large Diameter Brick Sewer with GeoSpray Geopolymer Mortar
- ♦ Beware of Cross Bores!-New NASSCO Guidelines for Prevention and Detection
- ♦ 21st Century Solutions for 19th Century Sewer Systems

Collection System 4: Tidal Issues

- ♦ Roxbury Canal Sewer Separation - The Boston Water and Sewer Commission's Continued Commitment to Environmental Stewardship and Infrastructure Reliability
- ♦ Not on My Watch – Using CIPP to Ensure Disaster Doesn't Strike
- ♦ Identification and Removal of Tidal Intrusion Sources in Manchester-by-the-Sea's Wastewater Collection System
- ♦ Nantucket Sewers – Our Island Story

In addition, NEWEA's Collection System Committee Task Forces presented two draft white papers on Fat, Oil and Grease (FOG), and Private Inflow. These draft white papers are focused on regional issues in New England.



The NC AWWA-WEA Annual Conference Program Committee is soliciting presenters for the 99th Annual Conference that will take place **November 3-6, 2019** at the Raleigh Convention Center in Raleigh, NC. Technical Sessions will cover water, wastewater, collection & distribution, policy & management, and other industry-related special topics. We will begin accepting abstract submissions till **April 10, 2019**. [Click here](#) for more information and to submit.

NEWEA ([NEWEA](#))

New England Water Environment Association (NEWEA) held their annual conference at the Boston Marriott Copley Place in Boston, Massachusetts from January 27 through 30, 2019. The collection systems committee sponsored four technical sessions during conference:

Collection Systems 1: I/I Collection Systems

- ♦ Use of LIDAR Scanning and Other Innovative Condition Assessment Strategies to Guide Targeted Rehabilitation of the North Metropolitan Sewer
- ♦ Private Work, Public Benefit – How Installing Sump Pumps Relieved Neighborhood Sewer Backups
- ♦ Inflow and Infiltration Removal: Three communities, three approaches
- ♦ Innovative, Real-Time Data Sharing Methods Created Efficiencies in Sewer Assessments on Nantucket

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 if you would like to contribute.

Kansas WEA ([KWEA](#))

Collection Systems Award Winners

These awards are presented to collection systems for outstanding and significant contribution in the area of wastewater collection

- ♦ Category I (50 miles or less) - **Bonner Spring**
- ♦ Category II (Between 50 and 250 miles) - **City of Ottawa**
- ♦ Category III (Greater than 250 miles) - **Johnson County Wastewater and City of Olathe**



Aaron Witt pictured with Susan Pekarek and Laura Gray. (Photo: KWEA)

Raymond E. Stillwell Award Winner

Recognizes outstanding efforts in the operation, maintenance, management, or design of a wastewater collection system, and in the individual's commitment of KWEA and all its related activities.

- ♦ **Aaron Witt**, Johnson County Wastewater

Golden Manhole Society Inductees

- ♦ **David Hamberlin**, Trekk Design Group
- ♦ **Kevin Swaeringin**, Unified Government of Wyandotte County
- ♦ **Kurt Winters**, Unified Government of Wyandotte County

New England WEA ([NEWEA](#))

Several awards were presented at the Awards Ceremony and Luncheon at the Annual Conference in Boston, MA on Wednesday, January 30, 2019. The James J. Courchaine Collection Systems Award was presented to **Angelo Salamone** from Chelsea, Massachusetts.

WEA of Texas ([WEAT](#))

WEAT honored **Kristin O'Neill** for being named the WEAT Southeast Chapter 2018 Young Engineer of the Year (YEOY)! Kristin has been in the Houston market for a number of years and currently works at Stantec as a Senior Project Manager. She serves at the WEAT Southeast Chapter President, and also serves as a WEAT Representative on the 2019 Texas Water Planning Commission.

WATER ENVIRONMENT FEDERATION

Collection Systems

Indianapolis, Indiana

SAVE THE DATE—
Registration from CS
2019 is open!

Join us in Indianapolis, Indiana, to celebrate 25 years of wet weather control, featuring a robust program highlighting continued advances in the wastewater collection systems sector.

[WEF Collection Systems 2019](#) gives you ample time to experience and learn about the history of improvements in the City of Indianapolis and adjacent communities, as well as exciting projects and technologies being utilized across the country.

Don't miss your chance to Race to Indy to take part in the most important collection systems conference and exhibition of the year, register by **April 12** for the best rates.

Don't Miss Opening General Session!

Collection Systems 2019 will kick off with a bang!

- ♦ **8:30 AM** | WEF CS Conference Chair Welcome
Christy Willson, Specialty Conference Chair
Bradley E. Fix, Local Planning Group Chair
- ♦ **8:35 AM** | WEF Welcome
Ifetayo Venner, WEF Board of Trustees
- ♦ **8:45 AM** | City of Indianapolis Welcome
Honorable Mayor Joseph Hogsett
- ♦ **9:00 AM** | Citizens Energy Group Welcome
Mark Jacobs, CEG
- ♦ **9:25 AM** | Race to Indy Keynote
Jarrod Krisloff, Director of Events at Indianapolis Motor Speedway
- ♦ **9:55 AM** | WEF CSSC 2020 Destination Announcement

Collection Systems 2019 At a Glance

Tuesday, June 4

8:30 am – 5:00 pm

Workshop A—*Best Sewer Rehabilitation Practices for Mitigating I/I: Integrated Approaches, Innovative Technologies and Interactive Solutions*

8:30 am – 5:00 pm

Workshop B—*Infiltration and Inflow Modeling for Collection Systems Utilities*

6:00 pm – 10:00 pm

Networking Reception—Sponsored by Illinois WEA

Wednesday, June 5

8:30 am – 10:00 am

Opening General Session

10:30 am – 11:50 am

Mobile Session I (on exhibit floor)

10:45 am – 11:45 am

Tunnels

1:30 pm – 4:45 pm

Trenchless

1:30 pm – 4:45 pm

CSOs/SSOs

1:30 pm – 4:45 pm

Potpourri

Thursday, June 6

8:30 am – 11:45 am

System Analysis

8:30 am – 11:45 am

Delivering Products

8:30 am – 11:45 am

Condition Assessment

12:45 pm – 1:45 pm

Mobile Session II

1:00 pm – 4:00 pm

Tour A—Belmont AWTP and Juan

Soloman Park Lift Station

1:30 pm – 3:00 pm

Forcemain

1:30 pm – 3:00 pm

Local I

1:30 pm – 3:00 pm

Operation and Maintenance

3:45 pm – 4:45 pm

CS Committee Meeting

Friday, June 7

8:30 am – 11:30 am

Tour B—DigIndy Deep Rock Tunnel

8:30 am – 11:45 am

Asset Management

8:30 am – 11:45 am

Inflow and Infiltration

8:30 am – 11:45 am

Local II



CSC Member and Charlotte Water Director Angela Lee Testifies before Congress

On February 7, 2019, WEF CSC Member and Charlotte Water Director Angela Lee testified before Congress. The hearing, titled "The Cost of Doing Nothing: Why Investing in Our Nation's Infrastructure Cannot Wait," focused on the need to increase federal funding for infrastructure. The committee heard testimony from state and local government officials, along with leaders representing various organizations and industries. Lee testified on behalf of WEF and the National Association of Clean Water Agencies and focused specifically on water infrastructure needs. Other panelists, including Minnesota Gov. Tim Walz and Los Angeles Mayor Eric Garcetti were particularly vocal about funding for water infrastructure through the Clean Water SRF and in general.

WEF recently joined a coalition of more than 90 national, state, and local organizations asking Congress to include funding and financing for drinking water, wastewater, water reuse, and stormwater infrastructure in any infrastructure package considered during the 116th Congress.

To read the letter, click [here](#).

To hear a recording of the hearing, click [here](#).

To read Lee's full written testimony, click [here](#).

New Report Identifies Corrosion as Major Threat to Public Health

NACE International, the nonprofit association and leading resource for corrosion expertise and education, today released its [Spotlight on Corrosion Report: The Critical Need for Corrosion Management in the Water Treatment Sector](#). Based on input from more than 1,300 corrosion professionals, the report identifies aging water infrastructure as a pressing, costly, yet resolvable threat to public health, and recommends the adoption of Corrosion Management Systems (CMS) as an immediate solution for water utilities and municipal systems.

According to a Federal Highway Administration study*, the direct cost of corrosion in U.S. drinking water and sewer systems is \$80 billion annually, which includes the costs of replacing aging infrastructure and lost water from pipeline leaks, but it does not include the immeasurable cost of widespread health crises that corrosion can create, such as what has happened in Flint, Michigan.

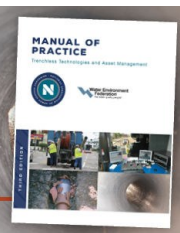
Though corrosion management solutions for water treatment systems exist, many communities nationwide do not adequately implement optimal corrosion control practices into their systems. The [Spotlight Report](#) equips water treatment professionals and owners of systems of all sizes, with the information they need to help identify and solve the root cause of corrosion within their systems.

The report is also a valuable tool for initiating an important conversation in communities across the country about how critical it is to invest in water infrastructure to prevent the imminent threat corrosion poses to public health. In 2019, representatives from NACE International's 56 nationwide membership sections will use this report to work with their community leaders, municipalities, and water systems management to improve and protect local water systems.

NASSCO and WEF Release Leading Edge Content on Trenchless Technologies

ACCESS LEADING-EDGE CONTENT ON TRENCHLESS TECHNOLOGY AND MANAGEMENT OF INFRASTRUCTURE ASSETS

ORDER TODAY



WEF and NASSCO have released a new publication, [Trenchless Technology and Asset Management](#), a manual of practice (MOP) which provides detailed, straightforward

information about the assessment, management, and repair of pipeline infrastructure using trenchless technologies.

The publication guides readers tasked with assessing the condition of pipe systems to use conventional and unconventional inspection technologies, establish asset management plans, and execute repair and replacement efforts. The publication also covers critical bidding and safety considerations, management of sustainable pipe collection systems, condition grading methodologies, and the latest in technology and materials.

For more information and to buy a copy of the book, [click here](#).

WEF Supports Documentary Film *Brave Blue World*



Water.org co-founders Matt Damon & Gary White speak with Paul O'Callaghan
(Photo: BlueTech Research)

WEF is a supporting partner for a new documentary film titled **Brave Blue World**, which will be released in fall 2019 and showcase how innovation and technology can solve water challenges and advance resource recovery around the planet.

Brave Blue World will spur people to rethink the management of water by showing the positive changes underway and the potential for a sustainable water future. The circular economy, "one water,"

sanitation, and water reuse will all be covered in stunning 4K resolution. From the International Space Station, to developed and developing countries, the film will take the audience on a thought-provoking ride across four continents to show how the human relationship with water is being re-imagined.

Filming took place at WEFTEC 2018 in New Orleans and WEF President Tom Kunetz was interviewed for the documentary. WEF intends to use the film as an opportunity for public outreach, particularly in collaboration with its network of 75 Member Associations.

The documentary will follow Paul O'Callaghan, water industry expert and CEO of BlueTech Research, as he visits sites that are employing novel ways of tackling water problems and turning them into opportunities.

WEF is joined as a supporting partner for the documentary by Dow Water Solutions, L'Oréal and SUEZ – Water Technologies & Solutions.

For more information visit <http://www.braveblue.world/>.

Mid-Year 2019: Talking Smart Sewers and Programming in Atlanta!

WEF held This year's annual Midyear Planning Meeting in Atlanta, Georgia at the Grand Hyatt Atlanta in Buckhead from February 6 through 9.

This year, the Collection Systems Committee met on Thursday, February 7th. The meeting was kept informative, interactive, and interesting with a verity of agenda items. The reports included an updated committee structure and various subcommittee/project activities; a technology presentation focused on knowledge sharing; the CSC TRIVIA Challenge in a game format to enhance members' collection systems knowledge and two network breaks.

Here are some recaps of key report-outs and presentations:

General Committee News and Updates - Kevin Waldron provided an overarching CSC updates including status of the draft Committee Plan; revised committee structure to include a new Projects Subcommittee; and updates to the list of CSC Liaison to other WEF committees and initiatives.



Reese Johnson shares the Cincinnati Smart Sewers Story with the CSC. (Photo: B. Nakamura)

The Cincinnati Smart Sewers Story — Reese Johnson, a Principal Engineer at Metropolitan Sewer District of Greater Cincinnati (MSD), gave a presentation on how MSD approaches to collection system operational optimization through smart sewer technologies. Reese presented MSD's journey with smart sewer that began about 18 years ago to effectively address the Consent Decree requirements for improving the water

quality in area waterways. He described how MSD took control of their watershed to optimize the entire system just like they do at their wastewater treatment plants (WWTP) and their target to optimize the entire system at a lower total cost. Reese explained how they are collecting data from hundreds of points across MSD Watersheds; how they built a secure cellular network to connect with MSD remote facilities; how various data collection systems tied together in a Cloud-based SCADA system; and how MSD graphically visualizes entire watershed operations through dashboards.

Reese then shared with CSC members the key benefits that MSD realizing with their smart sewer systems such as achieving results without additional construction through maximization of existing sewer assets; ability to project future flows to WWTP; and cost effective reduction of overflows which reduces environmental impact. He concluded the presentation with the futuristic direction of MSD to further build on the smart sewer systems including data collection and analytics on water quality parameters to enhance focused overflow reduction efforts and adaptation artificial intelligence approaches for higher level operational efficiency.

A big thanks to Reese and MSD for sharing their smart sewer story and what is ahead!

Member Services Subcommittee Report – Chip Smith provided a summary and news on various subcommittee activities and presented 2018 accomplishments. He announced that transitioning the MA Newsletter to Quarterly Publication is complete. Chip also welcomed 27 new members to CSC. He discussed on continued evaluation of entire committee engagement and enhancements to new member on-boarding process. In addition, Chip presented 2019 goals including continued process to track subcommittee engagement and

update the membership roster after WEFTEC.

Awards Subcommittee Report – Steven Drangsholt presented accomplishments for 2018. He indicated the CSC award winner and the Golden Manhole (GMH) Award winners for 2018: CSC Award Winner is Jim Hewitt; and GMH winner are: Dave Brown, Gary Moore, Christy Wilson, Chris Ranck, and Chip Smith.

He also discussed the ongoing efforts in further refining the selection criteria for CSC and GMH awards and he will be working with strategic committee leadership.

Workshops Subcommittee Report - Sriniv Vallabhaneni and David Servidio presented a report on workshops delivered in 2018 and efforts underway for 2019 workshops. The workshop teams delivered four successful workshops in 2018, two at CS2018 in Virginia Beach and two workshops at WEFTEC 2018. A total of 166 people participated these workshops and ratings form attendee survey indicated predominantly above average to outstanding rating. Looking ahead to 2019, two workshops are proposed for CS 2019 and one workshop at WEFTEC 2019.

Other CSC Officer Reports/ Updates – Kevin Waldron indicated the CSC Vice Chair Election Process is underway with a March 7, 2019 application deadline. He also discussed the WEF Initiative Task Teams and current openings to serve as CSC representatives which includes: Envision Task Force and External Organization Allies. Kevin also covered the current openings in the Strategic subcommittee. Sriniv Vallabhaneni presented information on current open positions as WEF Committee Liaisons. Sriniv described the Liaison responsibilities, typical activities and 2019 goals. Sriniv solicited interest from the CSC members and indicated need for Liaisons for the following WEF committees: *Stormwater; Watershed Management; Students and Young Professionals; Operations Challenge; Air Quality and Odors; Association of Boards Certification (ABC); Public Communications and Outreach; and Literature Review Committee.*



CSC Chair Kevin Waldron leads the CSC Steering/Strategic Meeting. (Photo: B. Nakamura)

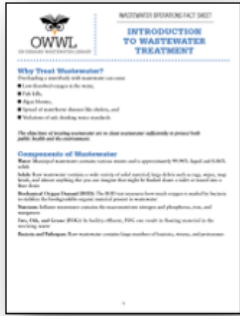
CSC Upcoming 3-Part Webcast Series: "Seeing Through the FOG"

The CSC Webcast Subcommittee is happy to announce a 3-part webcast series, "Seeing Through the FOG", focusing on different aspects of developing and evolving a Fats, Oils, and Grease (FOG) Program.

The series will kick off on **May 30**, with following webcasts on **October 24** and **December 12**. Topics covered will include ordinance development, enforcement, monitoring and inspection, public outreach, preventing/cleaning grease blockages, and staffing a FOG Program.

Keep a look out for upcoming webcasts at: <https://www.wef.org/events/webcasts/upcoming-webcasts/>





Now Available: Wastewater Treatment Fundamentals Fact Sheets!

Training for the operator of the future is at your finger tips today with WEF's Operator fact sheets located in the On-Demand Wastewater Library. Members can now access fact sheets that support study efforts for all ten chapters of our [Wastewater Treatment Fundamentals](#) (WWTF) training resource.

Visit the library today to download the fact sheets, and learn how our training resource supports preparation for certification examinations and continuing education credits.

[Download Chapters 1-10 WWTF Fact Sheets](#)

Registration Open for the 2019 National Water Policy Fly-In

The [National Water Policy Fly-In](#), the anchor event of [Water Week 2019](#), will take place **April 3 – 4, 2019**. Building off the momentum of major advocacy wins in 2018—such as the bipartisan passage of the America's Water Infrastructure Act—and the significant potential for congressional focus on infrastructure during the next Session, it is crucial that policy-makers hear directly from YOU about the site-specific challenges to your utility and community; and that sound policy and robust investment in water are critical for all Americans right now.

[Click here](#) to register now!



Did You Know?



EPISODE 047: SERVICE, SMART SEWERS & SLAYING THE BASICS
WITH @THE_H2O
PETE BUTTIGIEG
MAYOR, SOUTH BEND, IN
2020 PRESIDENTIAL CANDIDATE



2020 Presidential Candidate Talks Smart Sewers and the Water Workforce with the H2duo

A Rhodes Scholar, a veteran, and sometimes referred to as the “most interesting mayor you’ve never heard of”, Mayor and 2020 Presidential Candidate Pete Buttigieg is also a true water nerd! Need proof? In a recent [interview with Rolling Stones](#), Mayor Pete says, “I think about wastewater management as freedom. If a resident of our city doesn't have to give it a second thought, she's freer.”

Recently he sat down with the [H2Duo](#) on their podcast, “Water in Real Life” for an episode titled “Service, Smart Sewers & Slaying the Basics” released on March 22. Top takeaways from the interview include:

- ◆ How South Bend partnered with a local university to help deploy local innovation to optimize the now infamous South Bend Smart Sewers.
- ◆ Understanding the importance of the water industry as a politician and how to communicate water issues to elected officials: Keep it simple and be patient.
- ◆ The importance of utilizing veterans to help expand the water workforce. “What military service and good municipal public works have in common is they are a form of service and professional work that makes everything else possible.”

[Click here](#) to listen to the podcast.

Adam Levine (not the musician) leads Sewer History of Philly Tour

Adam Levine, a historical consultant for the Philadelphia Water Department has been digging into the history of the city’s sewers and drainage system since 1998. Now he’s taking his knowledge to the streets with a walk around the City of Philadelphia, the Consortium for History of Science, Technology, and Medicine and the Wagner Free Institute of Science. The tour will present a fascinating illustration of how the city’s urban landscape has changed since it’s founding in 1682.

With a main focus on the systematic obliteration of hundreds of miles of city streams, which were wiped off the city’s map, and buried deep underground in pipes as large as 20 feet in diameter to serve as main drainage arteries in the city’s 3,000 mile sewer system.

The tour is being offered on March 20th and April 18th, for more information and to register, [click here](#).



Adam Levine, Philadelphia’s sewer expert (Photo: Tim Tai)

*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

- This issue is brought to you by....*
WEF CSC MA Outreach E-Newsletter Team
- ◆ Chip Smith, Member Services Chair, *North Carolina AWWA-WEA, South Carolina WEA, GAWP*
 - ◆ Stephen King, *Alabama WEA, Kentucky-Tennessee WEA*
 - ◆ Stuart Bowns, *Kentucky-Tennessee WEA*
 - ◆ David Brown, *North Carolina AWWA-WEA, Virginia WEA*
 - ◆ Daniel Coleman, *Chesapeake WEA, Virginia WEA*
 - ◆ Jane McLamarrah, *WEA of South Carolina*
 - ◆ Jerome Iltis, *WEA of Texas*
 - ◆ Jimmy Stewart, *Alabama WEA, Chesapeake WEA, GAWP*
 - ◆ 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**
- ◆ Kevin Waldron, Chair, *Kansas WEA, Missouri WEA*
 - ◆ Jim Hewitt, Chair-Elect, *Ohio WEA*
 - ◆ Srinil Vallabhaneni, Vice Chair, *Indiana WEA*
 - ◆ Dianne Sumego, Past Chair, *Ohio WEA*
 - ◆ Bri Nakamura, *WEF Staff Liaison*