



Collection Systems Conference 2020

Technical Program

(Updated December 18, 2019)

June 2 – 5, 2020

El Paso Convention Center

El Paso, Texas

This conference is being held by the Water Environment Federation (WEF) in cooperation with the Water Environment Association of Texas (WEAT) and the Water Research Foundation (WRF).

Session 02: Pump Stations/Odors

Wednesday, June 3

1:30 PM - 4:45 PM

- 1:30 PM** **Adapting Collection System Infrastructure to Changing Flood Vulnerabilities - Southeastern Massachusetts Case Studies**
Anastasia Rudenko, Marc Drainville, GHD
- 2:00 PM** **City of San Mateo Dale Avenue Pump Station Transient Analysis**
Michael Georgalas, Stantec Consulting Services Inc.
- 2:30 PM** **It Sticks And It Stinks!**
David Trejo, Derek Schwanke, RJN Group; Elizabeth Boddicker, Upper Trinity Regional Water District
- 3:00 PM** **Networking Break**
- 3:45 PM** **Super Oxygenation for Collection System Odor Control**
Scott Cowden, Michael Ansell, Jacobs; Thomas Cieslik, David Ornelas, El Paso Water; Aide Zamarron; Mark Smith, Jacobs
- 4:15 PM** **Sewer Smell Never Bothered Anyone, Or?**
Anders Wistrom, Centriair
- 4:45 PM** **Session Adjourns for Networking Reception**
- Alternate:** **Consequences of Under-Estimating Friction Losses in Wastewater Forcemains**
Christopher Michalos, CDM Smith
- Alternate:** **Liquid Phase Collection System Sulfide Control: Early Field Results using a New Low-Hazard Iron Product (SulFeLox™)**
Ian Watson, US Technologies; John Walton; Zachary Scott, Trojan Technologies; Simon Almeida, USP Technologies

Session 03: Planning
Wednesday, June 3
1:30 PM - 4:45 PM

- 1:30 PM** **WWTP Operations Impacts Collection System**
Kelly Loyd, Black & Veatch; Amanda Burns
- 2:00 PM** **12 Municipalities: One Integrated Watershed Management Plan to Achieve Affordable Water Quality**
Ana Flores, PWSA
- 2:30 PM** **A Force Main Replacement Project is Leveraged to Provide Multiple Benefits through Integrated Wet Weather Planning, City of Topeka, Kansas**
Michael Lorenzo, Bartlett & West; Michelle Neiswender, City of Topeka Utilities; Greg Meyer, Bartlett & West
- 3:00 PM** **Networking Break**
- 3:45 PM** **Regional Characteristics of Design Storms in Texas and Beyond**
Baxter Vieux, Vieux & Associates, Inc. / AE Monitoring; Ben Wostoupal
- 4:15 PM** **Planning a \$1.8 Billion Wet Weather Management Improvement Program with Two Regional and Fourteen Locality Hydraulic Models**
Matthias Wittenberg, CDM Smith; Phillip Hubbard, HRSD; Robert Martz, City of Virginia Beach; Charles Moore, CDM Smith
- 4:45 PM** **Session Adjourns for Networking Reception**
- Alternate:** **Actionable Flow Monitoring Platform**
Mostafa Elag, Hazem Gheith, Arcadis

Session 04: Texas Topics I

Wednesday, June 3

1:30 PM - 4:45 PM

1:30 PM Case Studies in Real-time Sewer Monitoring: Three Cities Demonstrate ROI of Data-driven Solutions, Safeguarding the Environment, Economy and Public Health

Annette Duron, San Antonio Water System; Lloyd Juarez, City Of San Marcos; Robert Stanley, City of Arlington; Josh Grimes

2:00 PM The effect of "The internet of things " IoT on Wastewater Treatment & Operations and Utility Management

Shannon Dunne, Vince Turner, City Of Houston

2:30 PM Arid Climate Wastewater Service Area Diversion vs Low Recharge Groundwater Aquifer Usage

Steve Ainsa, AECOM; Gilbert Trejo, El Paso Water

3:00 PM Networking Break

3:45 PM One-a-Day Sewer Basin Capacity Evaluation through an Automated Process using Esri GIS, EPA SWMM, and PowerBI – Houston’s Innovative Approach

Fazle Rabbi, Houston Water; Pratistha Pradhan, City of Houston; Kabindra Shrestha, Gunda Corporation

4:15 PM When Two Become One: Design and Planning Solutions for Trunk Sewer Consolidation

Jared Barber, Kendall Ryan, Freese and Nichols; Michelle Segovia, City of Alvin

4:45 PM Session Adjourns for Networking Reception

Alternate: Don't Be Afraid; Air Valve Maintenance on Forcemains Can and Must Be Done

Michael Ambroziak, Construction Product Marketing; Chris MacDonald, CPM

Alternate: Trenchless Methods - The Project That Wore Many Hats

Kalin Ojert, Arcadis; Harrison Steed; Hugh Kim, City of Houston - Public Works