

Collection Systems Conference 2020

Technical Program

(Updated December 18, 2019)

June 2 – 5, 2020
El Paso Convention Center
El Paso, Texas

Session 05: Inflow and Infiltration

Thursday, June 4 8:30 AM - 10:00 AM

8:30 AM The Seduction of Depth-only Measurement for I/I Work

Patrick Stevens, ADS Environmental Services; Derek Sutton, Citizens Energy

Group

9:00 AM How Much Rainwater Are You Treating? Solutions and Budgeting for

Effective I&I Reduction for a TCEQ SSO Initiative from Conroe's

Perspective

Kendall Ryan, Ishita Rahman, Freese and Nichols, Inc.; Rafael Carrasquillo, City

of Conroe

9:30 AM Effective I&I Reductions Using Adaptive Asset Management Approach

Kristina Zuniga, Christopher Dinsmore, Eileen White, East Bay Municipal Utility

District

10:00 AM Session Adjourns for Networking Break

Alternate: How Effective is RDII Mitigation Technology?

Qiuli Lu, Hazem Gheith, Arcadis

Session 06: Modeling Thursday, June 4 8:30 AM - 10:00 AM

8:30 AM Unique Approaches to Using Hydraulic Models to Assist System Capacity

Management and Sewer Assessment and Rehabilitation for DeKalb County Darren Eastall, Chunxian Li, DeKalb County; Haiyi (Helen) Lu, Jacobs; Nancy

Schultz, CH2M

9:00 AM Understanding and Mitigating Hydrogen Sulfide Impacts through Collection

System Modeling

Kelsey Kenel, HDR; Chris Easter; Louis Engels; Coralynn Revis, HDR; Jes

Vollertsen, Aalborg University

9:30 AM Predicting Septicity and Composition of Wastewater in Dubai's Deep

Sewer Tunnels

Ersin Kasirga, GHD; Ahamed Ifthikar, Parsons

10:00 AM Session Adjourns for Networking Break

Alternate: Enhanced Modeling Approach to Improve Coastal City Resilience

Hazem Gheith, Khaled Abdo, Qiuli Lu, Arcadis

Session 07: Operation & Maintenance

Thursday, June 4 8:30 AM - 10:00 AM

8:30 AM The New 'P' in Your Collection System Maintenance Program – Predictive

Cleaning

Alexander Palmatier, Jacob Mueller, HDR; Matthew Whitman, Winston-Salem

Forsyth County Utilities

9:00 AM Control What You Can, Accept What You Can't: How CMOM Can Reduce

the Impact of SSOs

Daniel Porter, Brown and Caldwell; Michael Erkkila; Gary Fedak, Lake County

Dept. of Utilities, OH; Steve Donovan, Brown and Caldwell

9:30 AM Systematic PM Sewer Cleaning Program

Harikrishnan Panthayi, Tacie McCall, City of Atlanta

10:00 AM Session Adjourns for Networking Break

Alternate: Capital Grouting replaces Maintenance Grouting – Why Packer Injection

Grouting Has Displaced 90% of our Cured in Place Lining

James Shelton, Emily Sadowsky, Arcadis

Session 08: Sanitary Sewer Overflows

Thursday, June 4 10:45 AM - 11:45 AM

10:45 AM Optimizing Tunnel Shaft Design for Performance and Constructability: The Singapore Experience

<u>Christopher Ranck</u>, Arcadis; John Richardson; Heather Smith, Randy Lagumbay, Arcadis; Michael Schumas, Ed. Zublin AG; Ho Hong Whatt, Chua Wei Rong, Darryl Tan, Singapore PUB

11:15 AM Getting the most out of your limited CIP dollars – Wet weather storage

solution to reduce CIP spending while improving performance

Carlos Toro-Escobar, Brown and Caldwell; Ashley Yeh, Berkeley County Water

and Sanitation; A. Retana, Brown and Caldwell

11:45 AM Session Adjourns for Networking Luncheon

Alternate: Achieving Consent Order Compliance: Comprehensive Mini-Basin Planning

and Rehabilitation to Eliminate Sanitary Sewer Overflows and Reduce

Hydraulic Overloads

Joel Kostelac, Josiah Bair, GHD Inc.

Session 09: Asset Management

Thursday, June 4 1:30 PM - 4:45 PM

1:30 PM Coachella Valley Water District: A Festival of Asset Management

<u>James Reitmeier</u>, Clinton McAdams, Black & Veatch; Bethany McDonald, HDR Inc; James Strayer, Black & Veatch; Daniel Charlton, Coachella Valley Water

District

2:00 PM Plymouth Township, MI – Developing a Comprehensive Asset Management

Plan

Charles Card, GHD; J Muckleroy, Stearns & Wheler; Patrick Fellrath, Charter

Township of Plymouth

2:30 PM Is there an "Easy Button" for Making Asset Management Planning

Decisions? Using Operational Data to Inform System Renewal Planning

Processes

David Saunders, Alexander Palmatier, HDR

3:00 PM Networking Break

3:45 PM Integrating Performance-Based Failure Modes into a Risk-Based Asset

Renewal Program for a Large Wastewater Collection System

Daniel Olson, Garver; Gregory Lushbaugh; Aaron Schindewolf, Christopher

Meeks, San Jacinto River Authority

4:15 PM Developing a Sewer Rehabilitation Plan Using InfoMaster - A Tiered

Criticality Approach to Risk Analysis

Pubudu Ranasinghe, Gert Walt, Ella Garcia, DC Water

4:45 PM Session Adjourns

Alternate: Management of a 50 Year Old Collection System to Extend the Service Life.

Reduce I & I and Reduce Backups and Overflows

Michael Wynne, Hanover Sewerage Authority

Alternate: Holistic Approach to Collection System Assessment and CIP Prioritization

Chris Collier, City of Cocoa; Kunal Nayee, Carollo Engineers

Session 10: Panel Discussion on Data

Thursday, June 4 1:30 PM - 4:45 PM

This session will consist of four 20-minute presentations before the break, followed by a panel discussion after the break.

1:30 PM Data Management Tool Facilitates Long Term Flow Reduction Program

<u>Catherine Morley</u>, RJN Group Inc; Michael Litwin, City of Elmhurst; Jon Stelle, City of Elmhurst

From Feast to Famine – Adapting Your Asset Management Plan based on Data Availability

Ellen McDonald, Reza Malek, Plummer

Powerful Asset Data Analytics to Support Utility Decision Making

Celine Hyer, Christopher Heltzel, Arcadis

Wellington Water's Application of Artificial Intelligence for Wastewater Infrastructure Planning

<u>Andrew Faulkner</u>, Joel Wilson, WCS Engineering; Steve Hutchison, Wellington Water; Abby Jensen, Beca

3:00 PM Networking Break

3:45 PM Panel Discussion

4:45 PM Session Adjourns

Session 11: Project Delivery

Thursday, June 4 1:30 PM - 4:45 PM

1:30 PM NCSD Watkins Pump Station, Twenty-Four Inch Emergency Force Main

Repair

Chadwick Abrams, Nicholas Bussinah, North Charleston Sewer District

2:00 PM Successful Procedure: Wastewater Bypass in the Heart of Dallas

Cullen Carlson, Erin Flanagan, Freese & Nichols Inc; Regina Stencel, Dallas

Water Utilities

2:30 PM Rehabilitation Challenges to 1909-era 126-Inch Concrete Sewer Under a

Levee

Randy Cook, Wood; Chad Jones, Amec Foster Wheeler; Kevin Williams, Wood

3:00 PM Networking Break

3:45 PM Physical Modeling to Optimize Wetwell Design – Raleigh's East Neuse

Regional Pump Station

Frederick Stroud, Carl Frizzell, CDM Smith; Perry Allen, City of Raleigh

4:15 PM Lessons Learned and Best Practices for Value Engineering and Contractor

Engagement while Delivering Capital Projects for a \$2.4 Billion CSO

Program

Vincent Genco, HDR; Scott Aurit; Thomas Heinemann; Adam Wilmes, Jake

Hansen, City of Omaha

4:45 PM Session Adjourns

Alternate: Alternative Assessment and Project Delivery: Challenges and

Opportunities with the Rehabilitation of a Multi- Jurisdictional Interceptor

Getachew Melsew, DC Water; Robert Bell, O'Brien & Gere Engineers; Pubudu

Ranasinghe, DC Water

Alternate: Managing the Risks and Untangling the Web of Interstate Versus

Interceptor

Evan Tromble, Garver; Randall McIntyre, Malcolm Pirinie