Draft Technical Program
(Updated: November 14, 2017)

April 08 – 11, 2018
Virginia Beach Convention Center
Virginia Beach, Virginia
Opening General Session  
Mon, 4/09 8:30 AM – 10:00 AM  
Full details on the Opening General Session agenda will be provided in the coming weeks.

Session 01: Odor Control  
Mon, 4/09 10:45 AM – 11:45 AM

10:45 AM  
Town of Cary, NC. Preventing a collection system odor issue—from concept through final performance test and beyond  
Philip Wolstenholme, Brown and Caldwell; Jarrod Buchanan, Town of Cary

11:15 AM  
Solving a 30-year Odor Problem Using IPEX Vortex Manhole Inserts  
John Malone, Carollo Engineers; James Allman, AUI; Victoria Dery, Mark Holstad, Albuquerque Bernalillo County Water Utility Authority

Alternate  
Pump Station Odor Control: Performance Challenges of a Combined Two-Stage Biotower and Carbon Odor Control System  
Christopher, Easter HDR
**Session 02: Trenchless**
**Mon, 4/09 01:30 PM – 4:45 PM**

**1:30 PM**
Comparison of gravity sewer installation using trenchless technologies in high groundwater conditions
Erik Waligorski, Carollo Engineers; Mike Benoit, City of Renton; Dave Christensen, City of Renton

**2:00 PM**
Removing Private Property I/I: Lessons Learned through Construction & Flow Data Collection
Christopher Rybak, Stantec; Mark Delisio, CT Consultants

**2:30 PM**
Pulled In All Directions: A Case Study In Maximizing Value With Risk Mitigation For An Urban Sewer Interceptor And Tunnels
Joshua Farmer, Kyle Drumheller, Hazen and Sawyer; Brian Stone, Loudoun Water

**3:45 PM**
Private-side Inflow and Infiltration Successes utilizing a Public-Private Partnership (3P) Framework
Niall Quinlan, Civica Infrastructure Inc

**4:15 PM**
Use the Force Luke! Rehabilitation design, bidding and construction of a 106-year old parabolic sanitary sewer with Centrifugally Cast Cementitious Pipe Liner (CCCPL)
John Schroeder, CDM Smith; Jeffrey Bowra, Capital Region Water; Marc Lehmann, CDM Smith

**Alternate 1**
Rehabilitating a Critical Large Diameter Sewer Under a Levee and a Historic Park
Mathew Roder, Greeley and Hansen; Glen Diaz, Aaron Hughes, WSSC

**Alternate 2**
Alternate Sewer Rehabilitation Methods: EXpanding the Toolbox
Joe Nagy, Citizens Energy Group
Session 03: System Analysis  
Mon, 4/09 1:30 PM – 4:45 PM

1:30 PM  
Inspecting 100 Year Old Sewers- Which One Should We Inspect First To Understand Condition Assessment?  
Scott Belz, AECOM; Eric Dunn, Brown and Caldwell; Costas Kontos, AECOM; Cecilia Mazzei, City of Cleveland Division of Water Pollution Control

2:00 PM  
Sewer System Data Analytics Substituting for Flow Monitoring  
Frank Qiao, Michael Wang, Hazen And Sawyer

2:30 PM  
DeKalb County Priority Area Sewer Assessment and Rehabilitation Program  
Carla Muscarella, Woolpert

3:45 PM  
Optimizing Wastewater Collection System Inspection and Assessment  
Ahmad Habibian, William Adams, CDM Smith; Robert Judy, Jennifer Williams, City of Columbia, SC Wastewater Division

4:15 PM  
Too Critical to Fail: Assessing Small Diameter Sludge Force Mains for JEA  
Seth Finnicum, Celine Hyer, Gregory Osthues, Arcadis

Alternate 1  
Risking It All: A Comprehensive Collection System Risk-Based Assessment in InfoMaster  
Doug Ashworth, Corrie Bondar, Cullen Carlson, Freese & Nichols Inc; A. Rahman Kafray, City of Garland

Alternate 2  
Pipeline Renewal Models. Comparing Two Different Ways to Approach Them  
David Baranowski, Felicia James, Carollo Engineers, Inc.
Session 04: Local I
Mon, 4/09 1:30 PM – 4:45 PM

1:30 PM
Clearing The Fog: Fats, Oils, And Grease Management And SSOs
   Brent Werlein, City of Virginia Beach

2:00 PM
Rehabilitation of a 67.0 MGD Treatment Plant Influent using Trenchless Technologies
   Paul Longo, Dewberry; Shwan Fatah, Fairfax County; Bob Quackenbush, SAK Construction

2:30 PM
Tracking, Quantifying, And Mitigating Saltwater Inflow And Infiltration
   Robert Radspinner, Robert Bohon, Kimberly Peterson, HRSD

3:45 PM
Location, Assessment, and Repair of Wire Breaks on a 30- and 42-inch PCCP Force Main
   Colleen Block, Matthew Doyle, Fairfax County

4:15 PM
HRSD’s Vision for Advanced Water Treatment and Managed Aquifer Recharge in Eastern Virginia, USA: Sustainable Water Initiative for Tomorrow (SWIFT)
   Charles Bott, HRSD; John Dano, Ecclectic Designs; Edward Henifin, HRSD; Daniel Holloway, CH2M; Jamie Mitchell, HRSD, Tyler Nading, CH2M; Germano Salazar-Benites, HRSD, Larry Schimmoller, CH2M; Christopher Wilson, HRSD; Lauren Zuravnsky, Greeley and Hansen LLC

Alternate 1
Who Are You Telling What and How?
   Drew Lankford, Chris Wojtowicz, Virginia Beach Public Works
Session 05: Planning
Tue, 4/10 8:30 AM – 11:45 AM

8:30 AM
Next Generation Planning in the City of Los Angeles: Flow Projections for Long-Term Urban Metropolitan Growth
Javier Dennis, City of Los Angeles, Bureau of Sanitation; Fernando Gonzalez, City of Los Angeles Sanitation Agency; Adel Hagekhalil, City of Los Angeles Bureau of Sanitation; Karen Johnson, Water Resources Planning; Manikandan Mohandas, Lycos; Ali Poost, City of Los Angeles CA; Venkatraman Radhakrishnan, Arcadis/ Malcolm Pirnie Inc.; Christopher Ranck, Malcolm Pirnie Inc.

9:00 AM
Stretching Capital Dollars through Prioritization and Synergies in San Francisco
Vi Lam, AECOM; Mira Chokshi, SFPUC; Daniel Donahue, AECOM; Stefani Harrison, Sarah Minick, Saed Toloui, SFPUC

9:30 AM
City of Airdrie Utility Master Planning: Integrating Overarching Inter-municipal Government Policies, Network Modelling and Asset Management to Ensure Sustainable and Sound Infrastructure for Short- and Long-Term Planning Needs
Rafal Jadzinski, Sarah Barbosa, Geoffrey Schulmeister, ISL Engineering & Land Services LTD

10:45 AM
Taking the Labels Off: Collaborative Approach to Regional Project Planning Yields District-Wide Benefits
Jim Mallorey, Metropolitan Water Reclamation District of Greater Chicago; Erica Corbett, John Rehring, Carollo Engineers

11:15 AM
Challenges and Successful Strategies in Developing & Implementing a Capacity Assurance Program
Joe Herman, Stantec; Craig Prater, Lexington-Fayette Urban County Government

Alternate 1
Evaluating alternative binder materials for Sewer Collection System Concrete Structures to reduce FOG related SSOs
Samrin Ahmed Kusum, Joel Ducoste, Mohammad Pour-Ghaz, North Carolina State University
Session 06: SSO/CSO  
Tue, 4/10 8:30 AM – 11:45 AM

8:30 AM  
A representative design storm for the City of Houston Texas; Where heavy rainfall meets a sanitary sewer collection system  
  Baxter Vieux, Vieux & Associates Inc.; Pratistha Pradhan, City of Houston, Public Works and Engineering; Fazle Rabbi, Houston Texas

9:00 AM  
Basic Hydraulics Alleviates a Thirty-Year-Old Overflow  
  Taylor Turner, Arcadis; Matthew Easterbrook, City of Chesterfield

9:30 AM  
Developing Solutions to Meet Regulatory Constraints and Long-Term Goals  
  Ted Bluver, Greeley and Hansen, LLC; Tim Leach, Greater Peoria Sanitary District

10:45 AM  
Innovative Business Case Evaluation Guides Portland, Maine Through Tough Choices Among CSO Alternatives  
  Kate Mignone, AECOM; Nancy Gallinaro, City of Portland; Greg Heath, AECOM; Owens McCullough, Sebago Technics; Jason Weiss, AECOM

11:15 AM  
A Tale of Two Green Giants: Factors for Achieving Cost-Effective CSO Control through Green Stormwater Infrastructure  
  Edward St John, John Aldrich, Jocelyn Anleitner, CDM Smith

Alternate 1  
There and Back Again – The EBMUD Journey Towards Achieving I/I Reduction Targets  
  Christopher Dinsmore, EBMUD; Eric Fontenot, DHI

Alternate 2  
The Wastewater Tsunami Is Coming – How Do We Stop It?  
  Tarlton Smith, Freese & Nichols; Jennifer Baldwin, HNTB Corporation; Alissa Lockett, San Antonio Water System
Session 07: Potpourri
Tue 4/10 08:30 AM- 11:45 AM

8:30 AM
Pilot Flow Monitoring Program Tests Meter Capabilities
   Kelly Loyd, Black & Veatch; Amy Atwater, Jim Mallorey, Metro Wastewater Reclamation District Derek Wurst, Black & Veatch

9:00 AM
Using Remote Sensors in the Collection System to Protect Treatment Processes
   Paul Bixel, Floyd Koder, Anthony Kurkowski, Dewayne McAllister, City of Olathe; Heather Phillips, Black & Veatch; Tonya Roberts, City of Olathe

9:30 AM
The City Beautiful H₂O Program Plan: An Integrated Wet Weather Plan for Pennsylvania’s Capital City
   John Aldrich, CDM Smith; Claire Maulhardt, Capital Region Water

10:45 AM
Ground Truthing Oakland Wastewater Treatment Plant and Pump Station Flow Meters for Improved Peak Wet Weather Flow Management and Process Control, City of Topeka, Kansas
   Michael Lorenzo, Bartlett & West; Eric Carman, Sylvia Davis, James Dodds, Deedric Hagans, City of Topeka; Gregory Meyer, Ethan Meyer, Bartlett & West; Michelle Neiswender, Kyle Salmon, Zachary Stueve, City of Topeka; Andrew Wright, Bartlett & West, Inc.

11:15 AM
Solving Flooding Challenges in a Highly Transited Urban Area using 2D hydraulic Modeling Techniques
   Yovanni Catano, David Bedoya, Stantec

Alternate 1
Managing Sewer Rehabilitation Design With the Push of a Button
   Kai Iaukea, Stantec

Alternate 2
Integrated Plan Combining House-Level I/I Mitigation Program and GI Technology to Avoid Street Flooding – Case Study: Newton-Bedford Blueprint Columbus
   Hazem Gheith, Arcadis; Fang Cheng, City of Columbus
Session 08: Pump Stations
Tue, 4/10 1:30 PM – 3:00 PM

1:30 PM
Preparing for the Unexpected During Design and Construction
    Sierra McCreary, Black & Veatch; Juli Springer, Timothy Weaver, City of Springfield, OH

2:00 PM
Difficult Run – It’s More than Just a Name: Best Practices from Restoring a 36” Wastewater Force Main and Pump Station
    Buser Xavier, Hazen and Sawyer; John Royce, Fairfax County, VA, Wastewater Design and Construction Division, Wastewater Collections Branch; Matt Van Horn, Hazen and Sawyer

2:30 PM
Cost-Effectively Upgrading an Old, Combined Sewer Pump Station
    Jennie Celik, HDR; Rich Atoulikian, MWH Global; Alison Schreiber, Northeast Ohio Regional Sewer District

Alternate 1
No One Wants It, but Everyone Needs it: Building an 8.5 MGD Wastewater System for the 5-Billion Dollar Mile
    Arthur Hartle, City of Frisco, Texas; Clayton Barnard, Mazen Kawasmi, Jacob Pannell, Freese and Nichols, Inc.
Session 09: Lessons Learned
Tue, 4/10 1:30 PM – 3:00 PM

1:30 PM
Unexpected History Lesson and Contractual Deal Making: Lessons Learned from a Large-Diameter Force Main Replacement Project in Downtown Norfolk; Home to Historical Landmarks, High-Rise Buildings, Critical Stakeholders and Innovative Contractors
   William Gibson, AECOM; Timothy Marsh, HRSD

2:00 PM
Reducing CSO and Pollutant Loading into the Detroit River: Application of a Chemically Enhanced Retention Treatment Basin
   Jian Li, Stantec Consulting; Paul Drca, City of Windsor

2:30PM
$450 Million Asset Management Grant Program in Michigan: What Have We Learned?
   Gregory Kacvinsky, Kyle Curie, OHM Advisors

Alternate 1
Little Cuyahoga Interceptor Slip Line Replacement
   James Shelton, Arcadis; Michelle DiFiore, City of Akron; Dave Frank, Arcadis;
   Christopher Ryman, Arcadis

Session 10: O&M
Tue, 4/10 1:30 PM – 3:00 PM

1:30 PM
Wastewater Collection System Evaluations and Recommendations for Improvements
   Rusty Nezat, Nezat Training and Consulting, Inc.; Rod Thornhill, White Rock Consultants

2:00 PM
Use of Data Analytics Platform to Track and Predict the Location of Spills in the City of Atlanta
   Robert Bocarro, City of Atlanta Department of Watershed Management

2:30 PM
Risk Based Predictive Maintenance Solutions for Sewer Main Cleaning - Schedules? We Do Need a Stinking Schedule!
   Alexander Palmatier, HDR Inc.; Kim Duncan, City/County Utilities

Alternate 1
Electronic Motor Protection Saves Plant from Spills & Equipment Damage
   Regina Higgins, Grundfos Water Utility; Brendan Watson, Grundfos Pumps
Session 11: Asset Management
Wed, 4/11 8:30 AM – 11:45 AM

8:30 AM
Smart City Analytics: Empowering Decision Making Through Big Data Analysis and Living Models in Hartford, CT
Scott Craig, Matthew Gamache, Ajay Prasad, Jason Waterbury, CDM Smith

9:00 AM
The Importance of Design Criteria Standards for the Construction and Operation of a Centralized Wastewater Collection System in the Florida Keys
Daniel Burden, David Mullen, Wade Trim; Greg Tindle, Islamorada, Village of Islands

9:30 AM
City of Ottawa Waste Water Services High Level Condition Assessment Operator Perspective Asset Management – Information System Integration & Effective use of Mobile Technology
Michael Thivierge, Steven Fritsch, Chris Mountenay, Gus Sukkurwala, Stantec Consulting Ltd.

10:15 AM
Condition & Criticality – How Fort Wayne built their asset management risk model
Ben Groeneweg, City Utilities - City of Fort Wayne

10:45 AM
Integration of Sewer Tunnel System into Enterprise Asset Management – benefits & challenges
Prasad Manthena, Greeley and Hansen; Monica Outland, DC Water

11:15 AM
Failure Analysis Helps Sanitation District No. 1 of Northern Kentucky Improve Its Continuous Sewer Assessment Program
Bo Copeland, Greg Ahlberg, Hazen and Sawyer; Matthew Van Doren, Sanitation District

Alternate 1
Establishing Pipe-by-Pipe Rehabilitation and Re-inspection Schedules using Years Remaining Service Life
Andrew Filippi, Arcadis; Greg Gress, Town of Sullivans Island Water Works Department; James Shelton, Arcadis
Session 12: Project Delivery
Wed, 4/11 8:30 AM – 11:45 AM

8:30 AM
Taming the Multi-stakeholder Hydra: A case study in planning, permitting, design and construction of a gravity sewer meeting Federal, State, and Private Stakeholder constraints.
Chris Belk, Aaron Duke, Joshua Farmer, Felicia Glapion, Hazen & Sawyer; Brian Stone Loudoun Water

9:00 AM
Case Study: Designing a 11MG CSO Control Tunnel with Operations in Mind
Stephane DAoust, Stantec; Scott Laberge, Erika McEachran, City of Ottawa; Nancy Schultz, CH2M

9:30 AM
Greenfield Road Force Main Failure. Responding to a high profile catastrophic forcemain failure in the Town of Gilbert, Arizona.
Ken Snow, Mark Horn, Town of Gilbert

10:15 AM
Charlottesville Utilizes System-Wide Find-and-Fix Program to Address Consent Order and Streamline Comprehensive Rehabilitation of their Collection System
Jason McIlwee, Lauren Hildebrand, City of Charlottesville

10:45 AM
Don't Wait Until it Becomes an Emergency Repair: Sewers in Streams
Colleen Block, Matthew Doyle, Fairfax County Government

11:15 AM
Life as a Watershed Consultant Delivering on a Consent Decree Program
Stuart Haw, AMEC; Sarita Melendez, Amec Foster Wheeler

Alternate 1
Sewer Superhighway: Fast Track for Large Diameter Consent Decree Pipeline
Jeff Farnsworth, Kimley-Horn & Associates

Alternate 2
River Trunk Realignment Project - 90 foot Deep Wastewater Pump Station and Collection System Improvements Increase System Reliability
Darren Baune, Carollo Engineers; Jesse Franco, City of Modesto; Tim Taylor, Mike Zappone, Carollo Engineers
Session 13: Local II  
Wed, 4/11 8:30 AM – 11:45 AM

8:30 AM  
Guaranteed Outcome Project Delivery for Sewer Rehabilitation - The HRSD Collaborative  
Design/Build Sewer Rehabilitation Pilot Project  
James Shelton, Arcadis

9:00 AM  
Managing a Million Data Points: A How-To-Guide  
Kimberly Peterson, HRSD

9:30 AM  
Force Main Calibration: A Signature Accomplishment  
Paul Wilson, Brown and Caldwell; Robert Radspinner, HRSD; Carlos Toro-Escobar,  
Brown and Caldwell

10:15 AM  
A Balancing Act; Replacing a 40 year old Sanitary Sewer FM through one of the original  
Colonial Settlements in America and impact of CNET’s founder on the project.  
Eddie Abisaab, Jeremiah Burford, HRSD; Alan Edwards, AECOM

10:45 AM  
The Neighbor on Norchester - A complex project becomes a showcase for integrating  
stakeholders  
Jessica Hou, Gannett Fleming; Karen Russo, HRSD

11:15 AM  
Integrated Planning Meets Adaptive Management  
Richard Stahr, Brown and Caldwell; Phillip Hubbard, HRSD

Alternate 1  
Save Your Pipes – Respect Cathodic Protection  
Christene Mitchell, HRSD

Alternate 2  
The Invisible Modernization of Aging Infrastructure  
Jason Kerns, Chris Painter, HDR; Lauren Zuravnsky, Greeley and Hansen LLC