Collection Systems 2016 Conference

Collections Down South – Go With the Flow

May 1-4, 2016
Atlanta, Georgia

This conference is held by the Water Environment Federation in cooperation with the Georgia Association Water Professionals (GAWP) and the National Association of Sewer Service Companies (NASSCO).
More information on this featured Opening General Session will become available in the coming weeks.
Session 1: Infiltration and Inflow

Monday, May 2, 2016
10:45 AM – 11:45AM

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
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</thead>
<tbody>
<tr>
<td>01A</td>
<td>10:45 AM Rapid Partitioning of Sewer System Infiltration and Inflow</td>
<td>Zachary Eichenwald, CDM Smith; Mitch Heineman; Ajay Prasad; Cindy Huang; Scott Craig</td>
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<tr>
<td>01B</td>
<td>11:15 AM Long Term Infiltration/Inflow Control and Management: A Case Study from Monroe County, New York</td>
<td>David A. Barnes, CDM Smith</td>
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<td>11:45 AM Session Adjouned</td>
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<tr>
<td>Alternate</td>
<td>An Innovative Way to Detect and Quantify Combined Sewer Overflows in Tidal or Free Discharge Conditions</td>
<td>Patrick L. Stevens, Idex Corp; Michael Armes</td>
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</tbody>
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Featured Mobile Session

Monday, May 2, 2016
10:45 AM – 11:45 AM

This featured mobile session will take place on the exhibit floor and will highlight equipment and technologies from conference exhibitors.

More details will be provided shortly
Session 2: Invited Local Session

Monday, May 2, 2016
1:30 PM - 4:45 PM

02A  1:30PM    Doing The Same Thing Over and Over Again and Expecting Different Result: Definition of Insanity or Local Government?
            Jarrod Milligan, City of Tuscaloosa Water and Sewer Department

02B  2:00PM    Requirements of the MNGWPD’s Wastewater Management Plan
            Danny Johnson, Metropolitan North Georgia Water Planning District

02C  2:30PM    Jefferson County Consent Decree – 20 Years and Counting
            Daniel White, Jefferson County Commission

            3:00PM    Networking Break

02D  3:45PM    Chattanooga Consent Decree Program: Unique Strategies and Positive Results
            Jeffrey A. Rose, City of Chattanooga

02E  4:15PM    Avoiding A Consent Decree, How Gwinnett County Water Resources Makes Proactive Maintenance A Priority
            Rebecca Shelton, Gwinnett County Water Resources

            4:45PM    Session Adjourns
Session 3: Modeling

Monday, May 2, 2016
1:30 PM - 4:45 PM

03A 1:30 PM  Hydrologic and Hydraulic Modeling Methods Developed for Philadelphia’s Long-Term CSO Control Program - Green City, Clean Waters
Gary Martens. Rajesh Rajan, CDM Smith; Julie Midgette, Philadelphia Water Department; Henry Fan, Dwayne Myers, CDM Smith

03B 2:00 PM  Using Neural Networks for Advanced Data Analytics and Operational Improvements
Luis Montestruque, Melissa Davidson; Missy Gatterdam; Biju George; Ali Partovi

03C 2:30 PM  Inflow and Infiltration Analysis Innovations - Evaluating Actual Reduction Of Rainfall Derived Inflow and Infiltration Using Control Basin and Hydraulic Modeling Methods
William A. Barrack II; John Paul Travis; James Shelton; Eric Harold

3:00 PM  Networking Break

03D 3:45 PM  Dynamic Modeling of the City of Atlanta’s South River Water Reclamation Center Linked with Collection System
Rasheed Ahmad; Giny Jacob; Alberto Bechara; Steve Bupp; Tim O’Brien; Ann Blissit

03E 4:15 PM  Multi-scale Collection System Performance Assessment using the Hampton Roads Regional Hydraulic Model
Michael Morgan; Phillip Hubbard; Robert Martz; Charles Moore; Matthias Wittenberg; Benjamin Sherman

4:45 PM  Session Adjourns

Alternate
A Middle Way to Major Storage Facility Design Using Long Term Continuous Simulation
Jeff Shiner; Todd Williams,
Session 4: Rehab

Monday, May 2, 2016
1:30 PM - 4:45 PM

04A 1:30 PM Alternative Project Deliver for Sewer Collections Systems - Developing and Implementing the Sullivan’s Island Turnkey Sewer Rehab Construction Program
James Shelton ; Greg Gress

04B 2:00 PM DeKalb County’s Department of Watershed Management Leverages Technological Tools to Enhance Delivery of Its CMOM Condition Assessment and Rehabilitation Activities
LaCresha Johnson, Darren Eastall, DeKalb County Department of Watershed Management; Reggie Rowe; Andy Rankin, R2T

04C 2:30 PM The Power of Robust Relationships: Easement Acquisition in the Backyards of Dallas wealthiest
Thomas Harris; Joselito Felipe; James Ryan

3:00 PM Networking Break

04D 3:45 PM Flexible Approach to Repair Aging Infrastructure: How Steubenville, Ohio Was Able to Stretch its Dollar for Pipeline Rehabilitation
Michael Dupont, MWH Global

04E 4:15 PM When Engineers, Contractors, And Manufacturers Collaborate – Improvements In Chemical Grouting Practices From The Sullivan Island Construction Management At Risk Project
James Shelton; Emily Sadowsky; Don Rigby; Marc Antcl; Pete Fleetwood; Jon Peigler; James Brown ; Jason Hemphill ; Wes Hepler

4:45 PM Session Adjourns

Alternate 1 Not Enough Space, Now What?- Rehabilitation Of The 65 Mgd Krause Pumping Station in Downtown Tampa
Freddy Betancourt

Alternate 2 Implementing a Proactive Asset Renewal Program Through the Use of a Time and Materials Contract
Kyle Boyle
## TECHNICAL PROGRAM

Session 5: Integrated/Master Plan

**Tuesday, May 3, 2016**  
8:30 AM - 11:45 AM

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>05A</td>
<td>8:30 AM</td>
<td>Northeast Ohio Regional Sewer District Approach to Clean Water Act</td>
<td>Imad Salim, Wade Trim Associates; Devona Marshall, Northeast Ohio Regional</td>
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<td>Integrated Planning</td>
<td>Sewer District; Andrea Remias, Northeast Ohio Regional Sewer District;</td>
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<td>Anthony Igwe, Wade Trim Associates; Joe Pavlick, Water Resources and Coastal</td>
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<td>Engineering</td>
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<td>05B</td>
<td>9:00 AM</td>
<td>Reframing Impact to Opportunity: Adapting Collection System Infrastructure for High-Density Strategic Growth</td>
<td>Martin Malone; Andrew Kubek</td>
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<tr>
<td>05C</td>
<td>9:30 AM</td>
<td>Estimating And Minimizing Both CSO And WRRF Discharge Impact By Water Quality Based Control</td>
<td>Sovanna Tik, Université Laval; Thibaud Maruéjouls, Suez Environnement; Paul</td>
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<td>Lessard, Université Laval; Peter Vanrolleghem, Université Laval</td>
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<td>10:00 AM</td>
<td>Networking Break</td>
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<td>05D</td>
<td>10:45 AM</td>
<td>Using An Integrated Modeling Approach to Better Understand Wet Weather Dynamics And Deliver Environmental Outcomes at Least Cost.</td>
<td>Elliot Gill, CH2M; Per Henrik Nielsen, VCS Denmark; Susan Moisio, CH2M;</td>
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<td>Lorenzo Benedetti, Waterways</td>
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<td>05E</td>
<td>11:15 AM</td>
<td>When You Fail to Plan, You Plan to Fail: Workforce Planning for Public Utilities</td>
<td>Rich McGillis, SD1 of Northern Kentucky; ames Turner, Coldwater Consulting</td>
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<td></td>
<td>11:45 AM</td>
<td>Session Adjourns</td>
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**Alternate 1**  
Consent Decree Modification Requires Investment in Solid Data and Modeling  
Shannon Conway; Douglas Reichlin

**Alternate 2**  
Re-Planning the Plan - A New Master Planning Approach for Capital Savings  
Christopher Ranck, ARCADIS; Bill Grout, Citizens Energy Group; Aaron Goslee, MS Consultants
Session 6: Combined Sewer Overflows

Tuesday, May 3, 2016
8:30 AM - 11:45 AM

06A 8:30 AM  Hydraulic Design for the South Hartford Conveyance and Storage Tunnel
Kate Mignone; Gregory Heath; Scott Craig; James Sullivan,

06B 9:00 AM  The Need for Speed: Design Build Delivery of the Media Lot CSO Storage Vault
Steve Bupp

06C 9:30 AM  The Southeast Atlanta Green Infrastructure Initiative
Ann Blissit

06D 10:45 AM  Compliance Strategies for Your CSO Long-term Control Program: A Case Study of the Citizens Energy Group (Indianapolis, IN) Approach
Olivia Hawbaker; Rebecca Schaefer

06E 11:15 AM  Northeast Ohio Regional Sewer District (NEORSD) Combined Sewer Overflow Control/Project Clean Lake Advanced Facilities Planning (AFP) - Optimize Before Design
Kevin Vander Tuig

11:45 AM  Session Adjourns

Alternate 1  Southwestern Parkway CSO Storage Basin: Designing a 20 MG Underground Storage Basin in a Historic Olmsted Park
Katie Nolan

Alternate 2  Green Infrastructure Reduces CSO Flows and Saves Money
Rick Besancon; Ned Tramp
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<tr>
<td>07A</td>
<td><strong>Addressing Problematic Sewer Laterals In The City Of Baltimore: Program Implementation, Challenges, And Initial Findings</strong></td>
<td>Diego Calderon ; Madeleine Driscoll</td>
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<tr>
<td>07B</td>
<td><strong>Building an Asset Inventory Using Mobile Scanning Technology in Sylvan Lake, Michigan</strong></td>
<td>Keith McCormack, Hubbell Roth &amp; Clark Inc.</td>
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<td>07C</td>
<td><strong>Inspecting Large Diameter Sanitary Sewers: Challenges and Successes</strong></td>
<td>Richard Underhill</td>
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<td>07D</td>
<td><strong>Incorporating Forensic Evaluation Into Asset Management Of Forcemains</strong></td>
<td>Bryon Livingston</td>
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<td>07E</td>
<td><strong>The New Normal: More Contract Services for the Maintenance and Management of the Sewer Collection System in Nashville</strong></td>
<td>Hal Balthrop</td>
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<td>07D</td>
<td><strong>Session Adjourns</strong></td>
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<td>07E</td>
<td><strong>Alternate 1</strong></td>
<td><strong>Determining the Best Approaches and Field Tools for Pressure Pipe Condition Assessment</strong></td>
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<tr>
<td>07F</td>
<td><strong>Alternate 2</strong></td>
<td><strong>Our 20-mile Long Sewer Stinks. Why Isn't There A Panacea For The Fix?</strong></td>
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</tbody>
</table>
Session 8: Sulfides & Odor

Tuesday, May 3, 2015
1:30 PM - 3:00 PM

08A  1:30 PM  An Odor Analysis For a Deep Tunnel Ventilation Issue
Philip Wolstenholme, Rachel Revis, Brown and Caldwell; Rob Bocarro, Magloire Akpo-Sanni, City of Atlanta

08B  2:00 PM  The Cloevis Biofilm Removal Technology for Collection System Sulfide Control: Results from Early US Commercial Applications
Lam Nguyen; Vince Marano

08C  2:30 PM  Controlling Force Main Gas Emissions Including Methane and Hydrogen Sulfide: Modeling Gas Generation, Emissions and Control Strategies for a Wastewater Force Main Network
Chris Easter Greeley and Hansen; Matthew Ward, CH2M; Matt Poe, Charles Bott, Hampton Roads Sanitation District

3:00 PM  Session Adjourns

Alternate  Forced-air Ventilation For Sanitary Sewer Odor Control: What's My Zone Of Influence Going To Be?
Mark Smith
Session 9: Metering

Tuesday, May 3, 2016
1:30 PM - 3:00 PM

9A  1:30 PM  SSO PREVENTION Using an Advanced Alert System
     Christopher Parrish

9B  2:00PM   One Little Paragraph...One Complicated Program: Monitoring Flows from a
             Separate Sanitary Sewer System to a Combined Sewer System
             Angela Martin

9C  2:30PM   Two-Stage Mini-Basin Metering Quickly Isolates Sources of RDII in Bear
             Brook
             Patrick Stevens ; Howard Carter

3:00PM  Session Adjourns

Alternate  The Influence of Record Rains on Sanitary Sewer Collection Systems
           Elizabeth Aguin, RJN Group Inc.; Margaret Fryer
Session 10: Trenchless Technology

Tuesday, May 3, 2016
1:30 PM – 3:00PM

10A  1:30 PM  Dense Urban Area Sewer Replacement - A Jack and Bore Success Story
     Neepa Shah, Greeley and Hansen

10B  2:00 PM  Fully Structural Renewal of 39-inch PCCP Water Transmission Main with
             Swagelining and HDPE
             Todd Grafenauer; Tom Hayes

10C  2:30 PM  Managing Risk for Trenchless Construction of Water & Wastewater
             Infrastructure: A Scalable Approach to Risk Management of the Trenchless
             Project
             Joshua Farmer, Hazen and Sawyer

3:00 PM  Session Adjourns

Alternate  A Revolutionary City’s Multi-Faceted Emergency Repair Under the
          Governor’s Avenue
          Jonathan Kunay, CDM Smith; Nicholas Rystrom, City of Revere
Session 11: Sanitary Sewer Overflow

Wednesday, May 4, 2016
8:30 AM – 11:45AM

11A  8:30AM  Tell Me Don't Sell Me: Creating Meaningful Community Outreach for Your Wet Weather Program
      Terry Cole

11B  9:00AM  Protecting the Florida Keys with a Hybrid Collection System Using An Alternative Project Delivery Method
      Daniel Burden; Gregg Tindle, Islamorada, Village of Islands; David Mullen, Wade Trim Inc.

11C  9:30AM  Miami-Dade’s Root Cause Analysis Reduces SSO’s
      Jane McLamarrah; Rod Lovette, Juan Bedoya, Eduardo Baez, Miami-Dade Water & Sewer Department

      10:00 AM  Networking Break

11D  10:15AM  Reedy Creek, The Project Unique
      Anthony Crist, Gresham Smith and Partners

11E  10:45AM  Creating a Sustainable Utility - A Glimpse Into MDWASD’s CMOM Program
      Juan Bedoya; William Sukenik

11F  11:15AM  Impact of Collaboratively Developed Voluntary Consent Agreement in Reducing SSO’s: Georgia’s Ten Year Experience
      Mary Beth Jacques, CH2M; Ernest Earn, Cobb County Water System; Heather Veal, Macon Water Authority; Srinivas Jalla, CH2M

      11:45AM  Conference Adjourns

Alternate  Springfield, TN: In EPA’s Crosshairs
          Ken Stewart
<table>
<thead>
<tr>
<th>Session 12: Operation &amp; Maintenance</th>
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</thead>
<tbody>
<tr>
<td>Wednesday, May 4, 2016</td>
<td>8:30 AM - 11:45 AM</td>
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<tr>
<td>12A 8:30 AM Emergency Repairs to Buttrey Street Storm Sewer Outfall in Niagara Falls, Ontario</td>
<td>Mark Stirrup, Hatch Mott MacDonald</td>
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<tr>
<td>12B 9:00 AM Flow Through A Bottom Rack Slot At A Combined Sewer Diversion Structure: Field And Numerical Investigations</td>
<td>Yovanni Catano, Shanno Conway, Nicholas Anderson, MWH</td>
</tr>
<tr>
<td>12C 9:30 AM Get Your Collections System Out of the Dark! A Cloud-based SCADA System Sheds Light on Wet Weather Operations</td>
<td>Melissa Gatterdam, Metropolitan Sewer District of Greater Cincinnati; Reese Johnson, CH2M</td>
</tr>
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<td>12D 10:15 AM Getting Better Results with Simpler Controls at the MSDGC SSO 700 High Rate Treatment Facility</td>
<td>Timothy Ruggaber; Emnet LLC; Ruben Kertesz; Melissa Gatterdam, Metropolitan Sewer District of Greater Cincinnati; Shirish Agarwal</td>
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<tr>
<td>12E 10:45 AM An Environmental Management System and ISO 14001 Certification: How One City’s Sewer Maintenance Division Optimized Operations</td>
<td>Matthew Vessie, Dustin Tripp, Kenneth Neal, City of Raleigh</td>
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<td>12F 11:15 AM Intelligent Sewer Operations; Putting Theory Into Practice In Atlanta</td>
<td>Nicholas Anderson, MWH Global; Kai Iaukea</td>
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<td>11:45 AM Conference Adjourns</td>
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