

WEF/AWWA Utility Management Conference 2020

Technical Program

(Updated January 8, 2020)

February 25 – 28, 2020

Hyatt Regency Orange County

Anaheim, California

Pre-Conference Workshops

(Additional fees apply)

Workshop A: A Utility Guide to Cyber Security: What Executives Need to Know and Practical Solutions to Achieve It Tuesday, February 25
8:30 AM – 5:00 PM

This workshop will help today's leader formulate practical and implementable approaches to systematically address the threats inherent in operating a utility. Designed for utilities of all sizes, the workshop will combine presentations, panel discussion, and hands-on exercises to address four critical objectives:

- What can IT learn from OT and vice-versa?
- What does an actual attack on a US utility look like and how can I respond when it does happen?
- What should I really be spending?
- Where is my support in all this?

<u>Corey Williams</u>, Optimatics; Biju George, DC Water; David St Pierre, Westin; Lisa McFadden, Water Environment Federation; Kevin Morely, American Water Works Association

Workshop B: The Digital Worker: Workforce Implications of Digital Tools Tuesday, February 25 8:30 AM – 5:00 PM

This workshop will provide participants with very thorough grounding on the wide array of digital tools available; factors to consider (such as staff preparedness and the organization's preparedness to invest in staff training and/or staff with new skills) in selection of digital tools; implications of digital tools for key positions in the organization (e.g., water and wastewater treatment operators); lessons learned by utilities in their implementation of a wide array of digital tools (e.g., automated meter reading infrastructure, asset management systems, automated system control systems; drones, and artificial intelligence); implications for staff development (e.g., support of new kinds of technical training in community college to adequately prepare skilled crafts workers to use digital tools); and approaches to staff training at both the agency and regional level.

<u>Cheryl Davis</u>, CKD Consulting; Ting Lu, Clean Water Services; Sharon Peters, EMA Canada Inc., Heather Pohl, San Francisco Public Utilities Commission; Curt Rayer, San Jose Water; Ted Lam, East Bay Municipal Utilities District; Robert Scott, Santa Clara Valley Water District; Stephen Miksis, RVSD; Jeff Oxenford, Stratus Consulting

Pre-Conference Workshops

(Additional fees apply)

Workshop C: Using Management Standards as Leadership Tools to Optimize Utility Performance
Tuesday, February 25
8:30 AM – 12:00 PM

This interactive hands on workshop focuses on the use of the AWWA Utility Management Standards to optimize utility performance. This will include:

- Water treatment Plant Operations
- Distribution Systems Operation
 - Replacement and Flushing of Lead Service Lines
- Source Water Protection

Participants will use the standards and self-assessment checklists to identify gaps in specific programs that are used at their utilities. Participants will be encouraged to bring details of their programs to evaluate at the workshop. Participants will be encouraged to select programs at their utilities that they would conduct a self-assessment and gap analysis in the next year. Speakers will be available throughout the year to answer questions offer guidance.

<u>David Purkiss</u>, NSF; Eva Nieminski, Utah Division of Drinking Water; Gerard Yates, Central Utah Conservancy District; Kan Oberoi, Charleston Water System; Chi Ho Sham, Eastern Research Group; Clyde Dugan, East Lansing - Meridian Water & Sewer Authority

Workshop D: Leveraging the AWWA M5 Manual with Effective Utility Management (EUM) Practices
Tuesday, February 25
8:30 AM – 12:00 PM

Today, increasing customer demands, uncertain finances and aging infrastructure complicate every Utility manager's role. Successful utility management requires optimizing operations, replacing critical infrastructure, implementing mobile workforce enhancements, leveraging the Utility's full workforce capabilities, and effectively communicating outcomes with stakeholders.

The recently updated AWWA M-5 Manual – Water Utility Management and the Effective Utility Management (EUM) publications deliver practical advice and experiences in each of these areas. This interactive workshop will focus on the water's industry's guiding transformation strategies embedded in these documents with actual utility case studies to help both seasoned and new managers embrace and leverage these modern practices.

<u>Doug Spiers</u>, Westin Technology Solutions; Seth Garrison, Raftelis Financial Consultants, Inc.; Kara Shuror, City of Fort Worth Water Dept; Ryan Nagel, Hazen and Sawyer; James Courchaine; James Ginley, Jim Ginley Consulting; Jay Madigan

Pre-Conference Workshops

(Additional fees apply)

Workshop E: Principles and Best Practices for Collaborative Delivery for Water Infrastructure Projects
Tuesday, February 25
1:30 PM – 5:00 PM

The use of collaborative-delivery methods for water and wastewater projects continues to steadily increase. Over the past decade, research conducted annually for the Water Design-Build Council (WDBC) on using these delivery methods reports that more and more owners are using them for their ability to achieve quality projects on schedule and within budget. More importantly, owners also agree on the continuing need to educate industry professionals about how to maximize success with these methods.

This half-day workshop, conducted by WDBC Education Committee members, addresses the essential steps that originate in the planning process and continues through the procurement, management and implementation of a water design-build project. It provides city and county officials; managers and staff of municipal, private, and governmental organizations; and private industry with essential knowledge needed to have a successful project.

<u>Linda Hanifin Bonner</u>, Leofwin S. Clark, Water Design Build Council; David Kinchen, Burns & McDonnell; Chitra Foster, Water Design Build Council; Justin Sobol; Tommy Brennan, Ulliman Schutte Construction; Pieter Van Ry, South Platte Water Renewal Partners

Workshop F: Business Intelligence-Driven Utility Tuesday, February 25 1:30 PM – 5:00 PM

Business intelligence tools are disrupting industries by enabling the effective use of data – a widely underutilized asset – at a surprisingly low cost. The water industry is no different from other fields. In fact, we are a historically data rich industry that has arguably made a limited use of this asset. This workshop will introduce the industry to the effective use of business intelligence tools to address business problems. How can the industry better leverage their existing data with no need to make a major IT investment? What are the underlying concepts that can enable the use of analytics? What are the implications of this digital disruption to our workforce? Outcomes will include applicable examples crafted through an interactive learning experience.

<u>Esteban Azagra</u>, Arcadis; Rachel Crawley, Tarrant Regional Water District; Frank Roth, Albuquerque Bernalillo County Water Utility Authority; Brian Butscher, City of Sugar Land; Christopher Heltzel, Celine Hyer, Kevin Slaven, Arcadis

Session 01: Technology Whirlwind - Strategies for Technology Adoption and Integration Wednesday, February 26
10:30 AM - 12:00 PM

10:30 AM CMMS Design Guide: How San Juan Water District Built a Bulletproof CMMS

Steven Gunsch, HDR; Tony Barela, San Juan Water District

11:00 AM DC Water and Houston Water Perspective on CMMS, Condition Assessment, System Hydraulics, System Inventory and GIS Data

Integration Challenges, Lesson Learned

Alireza Parhami, DC Water; Fazle Rabbi, City of Houston; Salil Kharkar, DC Water; Shannon Dunne, City of Houston

11:30 AM Leveraging Innovative Cloud Technology at a Municipal Authority

<u>Julie Quigley</u>, The Pittsburgh Water and Sewer Authority; Ryan Cawley,

Sprypoint

12:00 PM Session Adjourns for Networking Lunch

Alternate Bridging the Gap Between BIM data and CMMS for an Advanced Water

Treatment Research Center

<u>Dwayne Amos</u>, Hazen and Sawyer; Katherine Linares, Hampton Roads

Sanitation District; Scott Hakonson, Hazen and Sawyer

Session 02: Leadership / Workforce Support and Development I

Wednesday, February 26 10:30 AM - 12:00 PM

10:30 AM Deep Diving into the Water Sector – Using Algorithms and Web Scans to

Gain Insights on Current Workforce Needs

Zakiya Seymour, Arcadis; Melissa Meeker, Gwinnett County - Department of

Water Resources; Joanna Brunner, Jason Carter, Arcadis

11:00 AM Targeted Recruitment 101: Finding the Best & Brightest Engineers

Evelyn Cortez-Davis, Greg Reed, LADWP

11:30 AM 2020's Vision: Building Tomorrow's Utility Staff -- How the Alderwood

Water & Wastewater District is Attracting Quality Candidates, Selecting the Right People, Training Them for Challenging Work, and Retaining Them for

the Long Term

Jeff Clarke, Alderwood Water & Wastewater District

12:00 PM Session Adjourns for Networking Lunch

Alternate Putting Employee Diversity and Inclusion to Work

Ed Kerwin, Orange Water & Sewer Authority

Session 03: Risk-Based Approaches to Waterline Assessment and Replacement Planning Wednesday, February 26 10:30 AM - 12:00 PM

Main to Meter: An Asset Management Replacement Strategy for 125K Lead Service Lines
 Palencia Mobley, Detroit Water and Sewerage Department; Samuel Smalley, City of Dearborn; Garnet Conerway, Detroit Water and Sewerage Department

 How to Catch a Break with Risk-Based Main Replacement Planning Allan Scott, HDR; Jill Mosley, Contra Costa Water District; David Spencer, HDR
 Next Generation Non-Revenue Water Information Management and Assessment System (NextGen NRW IMAS)
 Gary Trachtman, Arcadis; James Siriano, AWWA; Ertan Akbas, Caroline Caglioni, Arcadis; Alan Wyatt, Independent Consultant

Session Adjourns for Networking Lunch

12:00 PM

Session 04: Innovative Rates and Charges to Achieve Multiple Benefits Wednesday, February 26 10:30 AM - 12:00 PM

10:30 AM Where Engineering and Finance Meet: Leveraging Your Master Plan for a Better SDC

<u>Mark Panny</u>, Carollo Engineers; Jeffery Tucker, Napa Sanitation District; Jennifer Ivey, Carollo Engineers

10:30 AM Alternative Methodologies for Assessing Sewer Charges at The

Metropolitan District

<u>Dave Fox</u>, Raftelis; John Mirtle, The Metropolitan District

11:00 AM Optimizing Nontraditional Customer Assistance Programs at a Low Cost

Utility

<u>Benjamin Stewart</u>, Stantec; Michael Sweeney, Toho Water Authority; Carol Malesky, Stantec

12:00 PM Session Adjourns for Networking Lunch

Session 05: The Paperless Path to the Future

Wednesday, February 26

1:30 PM - 3:00 PM

1:30 PM Electronic SOP, Policy, and Knowledge Capture Management for

Wastewater Utility Operations

Brian Owsenek, UOSA

2:00 PM It's All About the Digital Baby: Detroit's Paperless GIS Centric Work Order

Management System

Palencia Mobley, Anil Gosine, Detroit Water and Sewerage Department

2:30 PM Using Satellite Radar Imaging to Detect Pipeline Leaks New Braunfels, TX –

A Case Study

James Perry, Paul Gagliardo, Utilis

3:00 PM Session Adjourns for Networking Break

Alternate Getting on Board with Asset Infrastructure in Albuquerque

Ganesh Pai, EMA, Inc.; <u>Tim Payne</u>; Stan Allred, Albuquerque Bernalillo County

Water Utility

1:30 PM Leadership Training From Within lan Morgan, Gina Hillary, Moulton Niguel Water District
 2:00 PM What to Expect When You're Expecting... PUC Regulations Catherine Carter, Seth Garrison, Raftelis Financial Consultants, Inc.; Robert Weimar, PWSA
 2:30 PM Changing a Culture and Improving Morale Through Employee Engagement Jarred Jones, Phillip Sexton, North Charleston Sewer District

Session 06: Leadership / Workforce Support and Development II

Session Adjourns for Networking Break

Wednesday, February 26

1:30 PM - 3:00 PM

3:00 PM

Session 07: Risk and Managing Risk

Wednesday, February 26

1:30 PM - 3:00 PM

1:30 PM Risk Management: The Value of Applying a Common Framework and

Taking Account of the Risk Consequences

Robert Raucher, Corona Environmental Consulting; Kurt Vause; Shonnie Cline, Watersuite; James Henderson, Corona Environmental Consulting; Frank Blaha

2:00 PM The AWWA Cybersecurity Tool: A User-Friendly Way to Build AWIA 2018

Compliance and Your Cyber-Resilience

Andrew Ohrt, West Yost Associates; Kevin Morley, AWWA; Daniel Groves; Joel

Cox, West Yost Associates

2:30 PM Doing it Right the First Time – Engineering Secure Water/Wastewater

Systems in Our Hyper-connected World

Andrew Ohrt, West Yost Associates; Daniel Groves; Joel Cox, West Yost

Associates; Andy Bochman, Idaho National Laboratory

3:00 PM Session Adjourns for Networking Break

Alternate Assessing Cybersecurity for the AWIA: How to Develop and Implement

Your Mitigation Strategy

Bob Reilly, EMA Inc.; Jeff Coulson, EMA Canada, Inc.

Session 08: Effectively Leveraging Available Funding Sources to Finance Infrastructure

Investment

Wednesday, February 26

1:30 PM - 3:00 PM

1:30 PM Let's Save Money! How Utilities Use WIFIA to Fund Projects

Jorianne Jernberg, Arielle Gerstein, <u>Danusha Chandy</u>, Environmental Protection

Agency

2:00 PM Working Together to Demonstrate Strength and Obtain WIFIA Funding

Amy Broughton, Stantec; Paul Matthews, Tualatin Valley Water District; Bill

VanderVeer, Willamette Water Supply System

2:30 PM When Facing a \$795 Million Master Plan, We Need More than Just Rate

Increases: The Mobile Area Water and Sewer System's Quest for a Creative

Solution

Bud McCrory, Mobile Area Water and Sewer System; Carol Malesky, Stantec;

Dedra Cassidey, Mobile Area Water and Sewer System

3:00 PM Session Adjourns for Networking Break

Alternate Stormwater Funding – The Golden State's Perspective

Benjamin Stewart, Andrew Burnham, Stantec

Session 09: Innovative Approaches to Optimizing Business Practices Wednesday, February 26

3:30 PM - 5:00 PM

3:30 PM	We're Agile! - Owner Delivery Improves Agility of an Asset Management Project Michael McGrath, Fairfax County Wastewater Management Program; Ronald Taylor, Hazen and Sawyer; Keith Chase, County of Fairfax
4:00 PM	City of Hamilton - Water Distribution & Wastewater Collection - Process Improvement Initiative Dave Alberton, City of Hamilton
4:30 PM	Leveraging Enterprise Program Management at DC Water to Improve Strategic Alignment and Collaborative Decision-Making Francis Cooper, Yvette Judge, DC Water
5:00 PM	Session Adjourns for Networking Reception
Alternate	I AM San Diego – Large Scale SAP EAM Implementation Michael Rotunno, Arcadis; Susan Bowman, City of San Diego

Session 10: Strengthening and Diversifying the Water Quality Workforce: Examining Real-World Pathway Programs into Sustainable Infrastructure Careers Wednesday, February 26 3:30 PM - 5:00 PM

Building the talent pipeline in the water, wastewater and wider infrastructure/utilities industry is an ongoing challenge facing utilities nationwide. It is a multi-faceted endeavor that includes:

- Recruiting and training entry-level employees.
- Building and supporting career advancement pathways for workers with missioncritical technical expertise and skills.
- Leadership development and succession planning.
- Increasing industry diversity and inclusiveness to enhance access to the water and utility industries for women and minorities, and for people from communities across the socio-economic spectrum.

This interactive session will address each of these topics head-on. In pursuit of a unifying model that can guide industry investment, we've enlisted a diverse panel of leaders from across the country who are actively implementing a broad range of relevant workforce development strategies and programs. Individually, the efforts they lead are impressive and notable for their innovation and effectiveness. By pulling these leaders together into a single, focused, discussion, we'll will explore how their individual strategies fit together as integral pieces of the broader workforce puzzle.

Program presentations from each of our esteemed panelists will be followed by a roundtable/panel discussion facilitated by Steven Currie, Drew Lehman, and Ifetayo Venner.

<u>Drew Lehman</u>, <u>Steven Currie</u>, Environment and Education; DJ Brooker, Young Community Developers; Trinh Nguyen, Office of Workforce Development; <u>Ifetayo Venner</u>, Arcadis; Beverly Scott, Introducing Youth to American Infrastructure; Srini Vallabhaneni, Stantec

Session 11: Utility-Utility Collaboration Wednesday, February 26 3:30 PM - 5:00 PM

3:30 PM	Pipes Know No Boundaries - The Need for Collaboration Sherri Gee, Madison Mezlyakov, Great Lakes Water Authority
4:00 PM	The Leading Role: Utilities as Primary Drivers for Water Sector Innovation Jason Carter, Joanna Brunner, Arcadis
4:30 PM	Regional Collaborative is Making a Big SPLASH in Northeastern Wisconsin Seth Garrison, Raftelis Financial Consultants, Inc.; Nancy Quirk, Green Bay Water Utilty; John Mastracchio; Nicolas Sparacio, Central Brown County Water Authority
5:00 PM	Session Adjourns for Networking Reception

Session 12: Affordability, Equity, and Rising Costs Wednesday, February 26 3:30 PM - 5:00 PM

3:30 PM	Austin Water Affordability Assessment Grant Rabon, Newgen Strategies & Solutions; Manny Teodoro, Texas A&M University; David Anders, Austin Water
4:00 PM	Affordability and the True Price of Water Valdis Krumins, Susan Woolard, Nicole Schindler, Marty Norton, USDA
4:30 PM	Increasing Rates, Decreasing Affordability: Addressing Equity in a Time of Rising Costs Margaret Schneemann, Illinois-Indiana Sea Grant; Danielle Gallet, Metropolitan Planning Council; Caroline Pakenham, Elevate Energy
5:00 PM	Session Adjourns for Networking Reception

Session 13: Journey to the Center of Continuous Process Improvements Thursday, February 27

8:30 AM - 10:00 AM

8:30 AM Taming the Three Headed Beast: People, Processes, and Information in

Asset Management

Elizabeth Lowell, Rachel King, HDR; Alden Wyma, Samayyah Williams, King

County

9:00 AM Equipping Teams to Accelerate Business Process Improvements

Tera Fong, William Elledge, Nina Love, DC Water

9:30 AM Mirror, Mirror on the Wall... HCWA's Story of Self Reflection

Tony Carnell, Tara Brown, Henry County Water Authority; John Evans, Blue

Cypress Consulting

10:00 AM Session Adjourns for Networking Break

Alternate BWWB Exploring Opportunities for Innovation through Human-Centered

Design

Zakiya Seymour, Arcadis; Michael Johnson, Birmingham Water Works Board;

Jason Carter, Padraic Flannelly, Arcadis

Session 14: Optimizing Data Management to Deliver Better Asset Management Results Thursday, February 27 8:30 AM - 10:00 AM

8:30 AM Lemons to Lemonade: How Kansas City Water Is Using Asset Management

Principles to Assure the Quality of Its Data

Scott Parker, Joel Mendoza, Kansas City Water; Amanda Griffin, Burns and

McDonnell

9:00 AM Of the People, By the People, For the People – Data Democratization at

Newport News Waterworks

Yann Le Gouellec, Newport News Waterworks; Russ Dalton, Aditya

Ramamurthy, Hazen and Sawyer

9:30 AM The Center Can Hold: Sustaining Diverse Data through GIS- and CAD-

Based Schematics and CMMS Alignment

Tim Walsh, Portland Water District

10:00 AM Session Adjourns for Networking Break

Alternate Truth or Consequences in New Mexico: Using Consolidated Real Asset

Data for Better CIP Decision-Making

Ganesh Pai, EMA, Inc.; Tim Payne; John Stomp, Albuquerque Bernalillo County

Water Authority

Session 15: Sustainable Capital Planning

Thursday, February 27 8:30 AM - 10:00 AM

8:30 AM Sustainable and Cost Effective Biosolids Management Planning at Orange

County Sanitation District

<u>James Clark</u>, Black & Veatch; <u>Sharon Yin</u>, Orange County Sanitation District; Thomas Chapman, Brown and Caldwell

9:00 AM Strategic Energy and Biosolids Planning - Small Utilities Can Dream Big

Too

<u>Derya Balci</u>, Bryan Lisk, Hazen and Sawyer; Steve Wagner, Goleta Sanitary District

9:30 AM ISIP: Boca Raton's Resilient Infrastructure Program

Lauren Burack, Chris Helfrich, City of Boca Raton; <u>James Carolan</u>, Jonathan Goldman, CDM Smith

10:00 AM Session Adjourns for Networking Break

Alternate How We Met Our Promise To Spend \$260 Million Dollars In 5 Years Using

Lean Transformation

<u>Rich McGillis</u>, Raftelis Financial; Matt Hilliard, Montgomery County (OH) Environmental Services **Session 16: We Need to Change How We Communicate**

Thursday, February 27 8:30 AM - 10:00 AM

8:30 AM Enhancing Customer Service via Customer Journey Mapping and

Transactional Surveys

Jonathan Leung, Los Angeles DWP

9:00 AM Shake It Up Shake It Up – A Story of Reorganization and Process

Improvements

Melissa Josey-White, HRSD

9:30 AM The Color of Water

Cathy Bernardino-Bailey, Greater Cincinnati Water Works

10:00 AM Session Adjourns for Networking Break

Alternate Management Commitment and Research-Based Decisions Lead to CIS

Implementation Success for Central Arkansas Water

Bill Rivers, EMA, Inc.; Jeff Mascagni, Central Arkansas Water

Session 17: Information Technology Transformation I

Thursday, February 27 10:30 AM - 12:00 PM

10:30 AM	Unlocking the Potential of IT-OT Convergence: What's Your Technology Organization of the Future? Bob Reilly, EMA Inc.
11:00 AM	Smart City-Operations and Maintenance: The Effect of "The Internet of Things" IoT on Operations and Maintenance Vince Turner, City Of Houston Texas; Shannon Dunne, City of Houston
11:30 AM	The Art of Change: Austin Water's Asset Management Story Martin Tower, Austin Water
12:00 PM	Session Adjourns for Lunch (on your own)

Session 18: Asset Management Strategy Development

Thursday, February 27 10:30 AM - 12:00 PM

10:30 AM A Framework and Guidance for Incorporating Natural Assets into Asset Management Practices for Built Systems: Overview, Utility Pilot Projects,

and Future Directions

Robert Raucher, Corona Environmental Consulting; Kurt Vause; Todd Helgeson,

Liberty Economics; Jan Cassin, Forest Trends; Mark Lorie, Corona

Environmental Consulting

11:00 AM A Strategic Step in Fort Worth Water's Asset Management Journey

Wendy Chi-Babulal, Fort Worth Water Department; Mazen Kawasmi, Jessica

Brown, Thomas Haster, Freese and Nichols Inc

11:30 AM A SAMP Journey: How Charleston Water System Developed a Strategic

Asset Management Plan

Earl Dupriest, Charleston Water System

12:00 PM Session Adjourns for Lunch (on your own)

Alternate Strategic Asset Management Plan (SAMP) Development from the Ground

Up: A People Focused Approach to Asset Management at Great Lakes

Water Authority

Steven Dutschke, Great Lakes Water Authority; James Decker; Elizabeth Kelly,

Seattle Public Utilities

Session 19: Importance of Community Support for Your CIP

Thursday, February 27 10:30 AM - 12:00 PM

10:30 AM Importance of Branding Your Project: It's What People Say About You

Behind Your Back

Sarah Rossetto, Katz & Associates

11:00 AM Financing Your Integrated Resource Plan

Fletcher Davis, Angela Bricmont, Denver Water

11:30 AM Planning and Funding 2030 Capital Needs in 2020 Through Community

Engagement

Andrew MacDonald, Harris & Associates; Melissa Pieri, Citrus Heights Water

District

12:00 PM Session Adjourns for Lunch (on your own)

Session 20: Understanding How to Communicate with Customers in Today's Media

Environment

Thursday, February 27 10:30 AM - 12:00 PM

10:30 AM Get Social and Build Ambassadors – How to Get Customers to Do PR for

You

Chelsea Odle, Central Arkansas Water

11:00 AM Improving the Customer Communication Experience

Guy Fittje, Parker Water & Sanitation District

11:30 AM From Mandate to Tunnel System in 7 Years: Communicating the Value of

RiverRenew, Alexandria, VA's Largest Public Works Project to Date

Caitlin Feehan, Liliana Maldonado, Alexandria Renew

12:00 PM Session Adjourns for Lunch (on your own)

Alternate Innovative Public Involvement in Strategic Planning

<u>Michael Comeskey</u>, City of Boise Public Works Department; Matthew Gregg, Brown and Caldwell; Amanda Watson, Atlas Strategic Communications

Session 21: Information Technology Transformation II

Thursday, February 27 1:30 PM - 3:00 PM

1:30 PM How Digital Water Revolutionizes Source Water Monitoring to Ensure Safe

Drinking Water for the Public – Experience and Lessons Learned from

American Water

Jianfeng Wen, American Water; Angelita Fasnacht; Aaron McGarvey, Laura

Underwood, Matt Csik, Kevin Keane, American Water

2:00 PM AMI - Are You Ready?

Billie Owens, Nikki Hoyt, Parker Water & Sanitation District

2:30 PM Planning your AMI Journey – Feasibility, Strategy, and Vendor Selection

Tricia Anklan, West Monroe Partners; Kyle Okamura, Vicki White, City of

Henderson; Mike Wayman, West Monroe Partners

3:00 PM Session Adjourns for Networking Break

Alternate Looking at 3D BIM Beyond Design

Chris Heltzel, Suman Bopaiah, Dan Seider, Arcadis

Session 22: Effective Pipeline Assessment and Maintenance Optimization Thursday, February 27 1:30 PM - 3:00 PM

1:30 PM	A Half a Decade of Lessons Learned from the Implementation of Fairfax County's Asset Management System Paul Longo, Dewberry; Junaid Malik, Magdalena Springer, Fairfax County
2:00 PM	Putting the 'P' in Predictive: Adding Predictive Maintenance to Your Collection System Maintenance Program Alexander Palmatier, HDR; Matthew Whitman, Winston-Salem/Forsyth County Utilities; Jacob Mueller, HDR
2:30 PM	A Phased, State of The Art Technology Based Approach to Assessing KC Water's Missouri Valley Tunnel Charles Stevens, KC Water; William Barloon, Xylem / Pure Technologies
3:00 PM	Session Adjourns for Networking Break
Alternate	Inland Empire Utilities Agency - Sewer System: Enhancing Condition Assessment Program & Maintenance Optimization Joel Ignacio, Inland Empire Utilities Agency; Hector Ruiz, GHD Advisory; Kenneth

Awad, GHD; Gary Te, Inland Empire Utitlies Agency

Monfore, Chander Letulle, Shaun Stone, Inland Empire Utilties Agency; Jamal

Session 23: Innovative Capital Planning Tools

Thursday, February 27 1:30 PM - 3:00 PM

1:30 PM Fairfax County's Trigger Based Planning Using a Capital Timing Analysis Tool

<u>Timothy Devine</u>, Kelly Landry, Ronald Taylor, Janice Carroll, Hazen & Sawyer; Sarah Motsch; Michael McGrath, Fairfax County Wastewater Management Program; Mujahid Ali, Fairfax County Government; Sajana Chitrakar, Noman M Cole Jr Pollution Control Center

2:00 PM Success in Capital Tracking – Looking Back at Gwinnett County's Improvements to their CIP Process and Adoption of their Tracking System

Daniel Scrutchfield, Arcadis; Michael Lanfreschi, Gwinnett County

2:30 PM Forget Me, Remember We: How the City of Long Beach Departments Worked Together to Implement a Robust Project Portfolio Management System

<u>Ertan Akbas</u>, Arcadis; Stephanie Gunawan-Piraner, Long Beach - Airport; Angelina Castellanos, City of Long Beach - Public Works

3:00 PM Session Adjourns for Networking Break

Alternate Adopting an Asset Management Mindset for Capital Planning

Phillip Sexton, North Charleston Sewer District

Session 24: How to Tell Your Success Story

Thursday, February 27 1:30 PM - 3:00 PM

1:30 PM Tucson Water Turnaround: Crisis to Success

Marie Pearthree, Retired, Central Arizona Project; Michael McGuire, MJM, Inc.

2:00 PM Communicating PFAS: How to Handle the Impacts of New Discoveries and

the Political Developments Caused by the EPA's Action Plan

Michael McGill, WaterPIO

2:30 PM You'll Miss Me When I'm Gone: Consequences of Losing Customer Trust

and Strategies to Earn, Maintain and Rebuild Customer Trust in Your

Drinking Water System

Shonnie Cline, Corona Environmental Consulting; <u>Jeff Biggs</u>

3:00 PM Session Adjourns for Networking Break

Alternate Unregulated Contaminant Roulette – Navigating the Minefield for Public

Utilities

Paul Calamita, Aqua Law PLC

Session 25: Utility Collaboration for Innovation and Development of Best Practices Thursday, February 27 3:30 PM - 5:00 PM

3:30 PM	Introduction to L4M Collaborative Development of Best Practices Fidan Karimova, Water Research Foundation
3:40 PM	Business Case Evaluation and CIP Prioritization Getachew Melsew, DC Water
3:52 PM	Development of Asset Management Plans Craig Edlund, Metropolitan Council Environment Services- Twin Cities
4:04 PM	Managing Enterprise Risk Douglas Stewart, Portland Water Bureau
4:16 PM	CIP Delivery Helena Manao-Fernandez, Environment Agency (UK)
4:28 PM	Q & A for Panel (facilitated interaction with audience) Mark Poling, Clean Water Services, Co-Principal Investigator and Strategic Plan Chair for Future Development

Session 26: Key Aspects of Successful Asset Management Programs

Thursday, February 27 3:30 PM - 5:00 PM

3:30 PM Take Your Asset Management Culture "To Infinity and Beyond!"

<u>Jillian Hostenske</u>, Kyle Wong, Sammamish Plateau Water & Sewer District

4:00 PM Benefits of Every Part of Asset Management: The More You Do, The More

You Benefit

Heather Himmelberger, Southwest Environmental Finance Center

4:30 PM Risk Prioritization Beyond Utility Silos – Utility Collaboration and Planning

in Rochester, MN

Douglas Klamerus, Rochester Public Utilities; Derek Gardels, Kathryn Jones,

HDR

5:00 PM Session Adjourns

Alternate Seven Guiding Practices for Getting the Most and Best from Your Asset

Management Program

Rich McGillis, Raftelis Financial; Brandon Vatter

Session 27: Latest Trends in Capital Projects

Thursday, February 27 3:30 PM - 5:00 PM

3:30 PM Project & Program Management in Capital Project Delivery – State of the

Water and Wastewater Industry

Aditya Ramamurthy, Hazen and Sawyer; Michael Martin, Milwaukee Metropolitan

Sewerage District

4:00 PM Using a Business Case Evaluation to Improve you CIP

Tracy Jarrett, John Page, Sarah Doherty, City of Olathe

4:30 PM One Water Alexandria: A Public-Private Outreach Partnership to Help

Alexandrians Know their H2O

Lisa Van Riper, Alexandria Renew Enterprise; Alison Bibb-Carson, Virginia

American Water; Christina Melvin-Dewees, City of Alexandria

5:00 PM Session Adjourns

Alternate Vista Ridge Regional Water Supply Design Build for New 45-MGD San

Antonio Water Source

Carissa Shelley, Pape-Dawson Engineers, Inc.; Marisa Vergara, CP&Y; Alissa

Lockett, San Antonio Water System; Bill Williams, Garney Construction

Session 28: Sustainability: Ideas, Options, and Actions

Thursday, February 27 3:30 PM - 5:00 PM

3:30 PM	Developing an Enterprise-Wide Sustainability Strategy at DC Water Matthew Ries, DC Water; Tristen Townsend, Duke University
4:00 PM	Incorporating UN Sustainable Development Goals into the Daily Routine at a One Water Utility Per Henrik Nielsen, VCS Denmark
4:30 PM	Electric Vehicle (EV) Fleet Conversion – Is Your Utility Fleet Ready? Margaret Oloriz, Mark Barmasse, Michael DeVuono, Arcadis
5:00 PM	Session Adjourns
Alternate	City of Phoenix Biogas-to-Renewable Natural Gas Plant: Innovative Use of a Previously Wasted Resource Patty Kennedy, City of Phoenix

Session 29: Utility Collaboration for Resilience

Friday, February 28 8:30 AM - 10:00 AM

8:30 AM	Innovative Flood Control Emerging from Collaborations - Evolution of Yokohama Green Infrastructures Accommodating Climate Change Horita Seiji, City of Yokohama
9:00 AM	Gilbert & Queen Creek, AZ: Two Communities Sharing Resources for Resiliency Sake <u>Eric Braun</u> , Town of Gilbert
9:30 AM	Tarrant Regional Water District: A Case Study on Collaboration and Resilience Poonam Dagli, Arcadis; Norman Ashton, Tarrant Regional Water District
10:00 AM	Session Adjourns for Networking Break
Alternate	One Water - Bringing Utilities Together in Denver Abigail Antolovich, Phillip Segura, Denver Water Dept

Session 30: Communicating in the Spotlight: A Risk Communication Training for Water Professionals

Friday, February 28 8:30 AM - 10:00 AM

8:30 AM Overview of Risk Communication Guide (landscape of today's media and

advocacy situations, social science on risk communications, strategies for risk communication in social media, customer communication advocacy groups and mainstream media)

Samantha Villegas, Raftelis Consulting; Karen Raucher, Corona Environmental

9:00 AM Risk Communication Applied: Case Study Examples from Utilities

Kelley Dearing Smith, Louisville Water Company

9:30 AM Facilitated Panel Discussion

Kelley Dearing Smith, Louisville Water Company; Karen Snyder, Katz & Associates; Mary Gugliuzza, City of Fort Worth; Karen Raucher, Corona Environmental

Session 31: EUM: Effective or Not? Reflections and Recommendations from Utility Managers Who Used the Framework

Friday, February 28 8:30 AM - 10:00 AM

8:30 AM Introduction of Utility Managers and Co-Facilitators

Liz Kelly, Jacobs Engineering and SMPC member

8:35 AM Overview of Effective Utility Management Framework

Jim Ginley, Jim Ginley Consulting and SMPC member

8:45 AM Overview of EUM Efforts from Three Utility Managers

Tammy Whipple, Assistant to General Manager, Sammamish Plateau Water (Seattle area) and SMPC member; David Irish, General Manager, Southgate Water & Sanitation Districts (Denver area); Anna Bryan-Borja, Chief Support Services, Offices, Austin (TX) Water

9:15 AM Facilitated Panel Discussion and Interactive Discussion/Q&A

Liz Kelly, Jacobs; Jim Ginley, Jim Ginley Consulting; Tammy Whipple, Sammamish Plateau Water; David Irish, Southgate Water & Sanitation Districts; Anna Bryan-Borja, Austin Water; Jim Horne, USEPA Session 32: Successful Facility-Focused Asset Management Approaches Friday, February 28
8:30 AM - 10:00 AM

Environmental Services

8:30 AM Reliability Centered Maintenance: From Development to Implementation Monica Gasca, Los Angeles County Sanitation Districts **Comprehensive Condition Assessment for 39 Wastewater Treatment Plants** 9:00 AM and 383 Lift Stations in less than a Year – Houston's Unique Approach Fazle Rabbi, Shannon Dunne, Pratistha Pradhan, Amirhossein Shokouhi, City of Houston 9:30 AM Yorba Linda Water District's Transition to a Progressive Asset Management **Program** <u>Danielle Logsdon</u>, Yorba Linda Water District; Rosanne Weston; Dan Baker, Carollo Engineers **Session Adjourns for Networking Break** 10:00 AM Alternate Montgomery County, Ohio's Vertical Asset Management Program **Implementation** <u>Jeff Macomber</u>, Hazen and Sawyer; Marill Clay, Montgomery County

Session 33: Creating a Smart Distribution System

Friday, February 28 10:30 AM - 12:00 PM

10:30 AM WRF Project #4917 Update: Utilizing Smart Water Networks to Manage

Pressure and Flow for Reduction of Water Loss and Pipe Breaks

Michael Karl, Brown and Caldwell; Robert Janke, EPA; John Abrera, United

Water Services Indiana; Erin Culbertson, Brown and Caldwell

11:00 AM Pipeline Break Forecasting for Rate Justification and Extending Pipe Useful

Life Without Pipe Replacement

Steve Strapac, Rainbow Municipal Water District; Eric Scherch, David Spencer,

HDR Inc.

11:30 AM What Exactly Does 95% Accurate Mean? How to Interpret the Results of

Your Machine Learning Pipe Failure Model

Karl Ivan San Luis, Xylem Inc.; Craig Daly

12:00 PM Conference Adjourns

Alternate Next Generation Non-Revenue Water Performance Indicators

Steve Cavanaugh, Cavanaugh & Associates PA; George Kunkel, Philadelphia

Water Department

Session 34: Strategic Planning: Data, Technology, and Application Friday, February 28

10:30 AM - 12:00 PM

10:30 AM Demystifying Intelligent Water: Actionable Insights & Strategies for Utility

Leaders

Eric Bindler, Bluefield Research; <u>James Cooper</u>, Arcadis

11:00 AM Technology Silos: Are They in Your Organization's Cultural DNA?

Zdenko Vitasovic, Metropolitan Water District So. Cal.; Fidan Karimova, The

Water Research Foundation

11:30 AM From a Trickle to a Big Wave of Funding: How to Develop and Ramp Up a

Stormwater Program

Matthieu Roussillon, Carollo Engineers; Hubertus Cox, LASAN

12:00 PM Conference Adjourns

Alternate The CDD Roadmap

Elinor Buchen, San Francisco Public Utilities Commission; Katie Miller

Session 35: Water Supply Resilience

Friday, February 28 10:30 AM - 12:00 PM

10:30 AM 100% Reuse Design Approach for Los Angeles

<u>Azya Jackson</u>, Joline Munoz, Fernando Gonzalez, Timeyin Dafeta, City of Los Angeles Sanitation Agency; Regidia Voong; Kwasi Berko; Lenise Marrero; Ali Poosti, City of Los Angeles CA

11:00 AM Implementing Groundwater Replenishment in LA

Yoshiko Tsunehara, Los Angeles Department of Water and Power; Joline Munoz, City of Los Angeles; <u>Madeline Kelsch</u>, Los Angeles Department of Water and Power

11:30 AM Strategic Planning to Improve Water Supply Resilience in the Nation's

Capital

Getachew Melsew, Biju George, DC Water; Syam Nayer, Mott MacDonald

12:00 PM Conference Adjourns

Alternate How Water Supply Risk and Drought Can Affect Utility Credit Ratings

John Mastracchio; Luke Eastman, Raftelis Financial Consultants Inc

Session 36: Integrating Climate Change into Enterprise Risk Management Friday, February 28 10:30 AM - 12:00 PM

10:30 AM	Introductions Usha Sharma, Denver Water
10:35 AM	How Markets May Reward Cities (Utilities) Who Plan for Climate Changes Paul Fuller, Allied Public Risk LLC
10:50 AM	Why Is Climate Risk Relevant to a Utility's Credit Rating Ted Chapman, Standard & Poors
11:05 AM	How Water Supply Risk and Drought Can Affect Utility Credit Ratings John Mastracchio, Luke Eastman, Raftelis
11:20 AM	Climate Change – How Do You Integrate It in Your Organization's Comprehensive Risk Management Framework? Laurna Kaatz, Denver Water
11:45 AM	Panel Discussion Paul Fuller, Allied Public Risk LLC; Ted Chapman, Standard & Poors; John Mastracchio, Luke Eastman, Raftelis; Laurna Kaatz, Usha Sharma Denver Water