



**Water System Optimization Conference
Technical Program
August 2015**

**Wednesday – October 28, 2015 – Morning
Opening General Session**

9:30 – 9:40am	Welcoming Remarks Robert Cheng (Coachella Valley Water District) and Barb Martin (AWWA)
9:40 – 10:00am	Partner Organizations – Recognition and Address
10:00 – 10:30am	Pennsylvania Welcome and DEP Address Michael Brown (PA-AWWA Chair), Gene Koontz (AWWA President), PA DEP
10:30 – 10:55am	Volunteer Recognition and Partnership Awards Presentation Robert Cheng (Coachella Valley Water District)
10:55 – 11:25am	Keynote Address Lon Couillard (Milwaukee Water Works)
11:25 – 11:30am	Conference Announcements
11:30am – 1:00pm	Partnership for Safe Water Award Recognition Lunch

Wednesday – October 28, 2015 – Afternoon
Partnership for Safe Water – 20 Years of Optimization

- 1:00 – 1:30pm (WED01) Got Buy-In?
Kevin Linder (Aurora Water)
- 1:30 – 2:15pm (WED02) Three Keys to Success
David Hardy (Central Utah Water Conservancy District)
- 2:15 – 2:45pm (WED03) Turbidity Data Integrity – Overview and Real-World Implications
Alison Dugan (USEPA) and Bill David (Process Applications, Inc.)
- 2:45 – 3:00pm Networking Break
- 3:00 – 3:30pm (WED04) Case Study – Success Stories from the Self-Assessment at Denver Water’s Moffat Water Treatment Plant
Jason Fast (Speaker) and Andrea Song (both from Denver Water)
- 3:30 – 4:00pm (WED05) Our Utility is a New Partnership Award Winner – Now What?
Tom Schippert (AWWA) and Amy Wilson (Beaver Water District)
- 4:00 – 4:30pm (WED06) PEXEP – 15 Years of Excellence
Barb Martin (Speaker – AWWA) and Alain Lalumiere (Réseau Environnement)
- 4:30 – 5:00pm (WED07) The Value of the Partnership for Safe Water to Pennsylvania Department of Environmental Protection
Kevin Anderson (Pennsylvania Department of Environmental Protection)

Thursday – October 29, 2015 – Morning/Treatment Track
Operational Excellence – Case Studies and Lessons Learned from Phase IV Utilities

8:30 – 9:00am (THT01)	Starting with the End in Mind Kevin Linder (Aurora Water)
9:00 – 9:30am (THT02)	Creating Treatment Optimization Framework and Culture Chris Bobay (Louisville Water Company)
9:30 – 10:00am (THT03)	Using a Pilot Plant to Perform Treatment Optimization April Nabors (Water Works Board of the City of Birmingham)
10:00 – 10:30am	Networking Break
10:30 – 11:00am (THT04)	Overcoming Complacency using Optimization Goal Setting Michael Barsotti (Champlain Water District)
11:00 – 11:30am (THT05)	Water Treatment Forensics to meet your Full Zeta Potential Michael Rau (Central Utah Water Conservancy District)
11:30am – 12:00pm (THT06)	Maintaining a Culture of Excellence David Miller (Manchester Water Works)

Thursday – October 29, 2015 – Morning/Distribution Track
Field Reports from the Distribution System

8:30 – 9:00am (THD01)	Surviving Fire, Flood, and the Partnership for Safe Water Self-Assessment Andrea Schweitzer (Fort Collins Utilities)
9:00 – 9:30am (THD02)	THM Removal by Water Spray – Tank Top Results Thomas Clark (Monroe County Water Authority)
9:30 – 10:00am (THD03)	Distribution Optimization – Achieving Professional Operations Jeffrey Maccarella and Aaron Balliet (both from American Water Military Svcs.)
10:00 – 10:30am	Networking Break
10:30 – 11:00am (THD04)	Maintaining Louisville Water Company’s Best Tasting Tap Water Chris Bobay (Speaker) and Vincent Monks (both from Louisville Water Co.)
11:00 – 11:30am (THD05)	Free Chlorine and Chloramine Optimization in a Consecutive System: A Lesson in the Multi-Parameter Approach Laura Blood (PA DEP)
11:30am – 12:00pm (THD06)	Philadelphia Water Department’s Non-Traditional Self-Assessment Dennis O’Connor (Philadelphia Water Department)

Thursday – October 29, 2015 – Afternoon/Treatment Track

Part I – “Doing the Simple Exceedingly Well”

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| 1:30 – 2:00pm (THT07) | Improving Water Treatment Plant Performance – Tools for Water Treatment Plants to Achieve Optimization
Michael Grimm (West Slope Water District) |
| 2:00 – 2:30pm (THT08) | Pre-Oxidation to Improve Filter Performance
Kevin Linder (Speaker – Aurora Water) and Brad Zachman (City of Glenwood Springs) |
| 2:30 – 3:00pm (THT09) | ESTW: Applications and Lessons Learned
Tom Waters (USEPA) |
| 3:00 – 3:30pm | Networking Break |

Part II – Innovations in Treatment Optimization

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| 3:30 – 4:00pm (THT10) | Optimizing Membrane Filtration Using the Revised Self-Assessment Guide
Ed Chescattie (Pennsylvania Department of Environmental Protection) |
| 4:00 – 4:30pm (THT11) | The Integration of Smart Device Technology into Instrumentation to Optimize Plant Performance
Michael Sadar (Tintometer) |
| 4:30 – 5:00pm (THT12) | Floc Characterization: The Missing Link
Tyson Ingels (Colorado Department of Public Health and Environment) |

Thursday – October 29, 2015 – Afternoon/Distribution Track

Part I – Tools and Techniques for Distribution System Optimization

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|-----------------------|---|
| 1:30 – 2:00pm (THD07) | Distribution System Tank Monitoring and Water Quality
Paul Handke (Red Valve) |
| 2:00 – 2:30pm (THD08) | Water Quality Monitoring and Nitrification Control in Chloraminated
Distribution Systems
Matthew Alexander (USEPA) |
| 2:30 – 3:00pm (THD09) | Aligning System Performance, Energy Efficiency, and Water Quality: Case
Studies in Optimization
Steven Jones (Speaker) and Rob Sowby (both from Hansen, Allen & Luce) |
| 3:00 – 3:30pm | Networking Break |

Part II – Distribution Systems: A Look Ahead

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| 3:30 – 4:00pm (THD10) | Preparing for Revisions to the Revised Total Coliform Rule
Keith Cartnick (United Water) |
| 4:00 – 4:30pm (THD11) | Control of <i>Naegleria fowleri</i> in Drinking Water Distribution Systems
Tim Bartrand (Speaker) and Jennifer Clancy (both from Corona Environmental) |
| 4:30 – 5:00pm (THD12) | Premise Plumbing: Research Issues for Utilities
Kim Linton (Water Research Foundation) |

Friday – October 30, 2015 – Morning/Treatment Track
Treatment Plant Optimization Tools

- 8:00 – 8:30am (FRIT01) Online Monitoring of Dissolved Oxygen for Manganese Control in Water Treatment
Vadim Malkov (Hach Company)
- 8:30 – 9:00am (FRIT02) Optimizing the Operation of Gravity Media Filters
Tom Getting (Xylem)
- 9:00 – 9:30am (FRIT03) Fluorescence Enhanced Treatment Process Optimization
Dr. Christopher Miller (Speaker) and Marla Kennedy (both from Univ. of Akron)
- 9:30 – 10:00am (FRIT04) Process Optimization using Online Continuous Zeta Potential Monitoring
Ana Morfesis (Malvern Instruments)
- 10:00 – 10:30am (FRIT05) Real World Applications of Using Dynamic Simulation Software to Optimize Water Treatment Plant Process Operations
Matthew Ridens (CH2M)

Friday – October 30, 2015 – Morning/Distribution Track
Distribution System Optimization Tools

- 8:00 – 8:30am (FRID01) High Frequency Real Time Data from Online THM Monitors Lead to More Cost Effective THM Remediation Solutions
Tom Williams (Aqua Metrology)
- 8:30 – 9:00am (FRID02) Use of Main Break Data for Better System Management and Operation
Michael Brown (Gannett Fleming)
- 9:00 – 9:30am (FRID03) Mixers and Aeration Systems: Do these Affect my Tanks?
Andy Mumford (MBA Tanks)
- 9:30 – 10:00am (FRID04) DBP Removal and Control in Distribution Systems
Dr. Yuefeng Xie (Pennsylvania State University, Harrisburg)
- 10:00 – 10:30am (FRID05) Planning a Flushing Program
Tom Walski (Bentley Systems)
- 10:30 – 11:00am Networking Break (Both Tracks)

Closing Session: The Optimization Journey Continues

- 11:00am – 12:00pm (CS) Panel Discussion with Partnership Staff and Subscribers (Both Tracks)