Water System Optimization Conference
Draft Conference Program
March 2015

Wednesday – October 28, 2015 - Morning

Opening General Session
TBD

Wednesday – October 28, 2015 – Afternoon

Partnership for Safe Water – 20 Years of Optimization

1:00 – 1:30pm Got Buy-In?
Kevin Linder (Aurora Water)

1:30 – 2:15pm Three Keys to Success
David Hardy (Central Utah Water Conservancy District)

2:15 – 2:45pm Turbidity Data Integrity – Overview and Real-World Implications
Alison Dugan (USEPA)

2:45 – 3:00pm Networking Break

3:00 – 3:30pm Case Study – Success Stories from the Self-Assessment at Denver Water’s Moffat Water Treatment Plant
Andrea Song (Denver Water)

3:30 – 4:00pm Our Utility is a New Partnership Award Winner – Now What?
Tom Schippert (AWWA) and Amy Wilson (Beaver Water District)

4:00 – 4:30pm PEXEP – 15 Years of Excellence
Alain Lalumiere (Reseau Environnement)

4:30 – 5:00pm The Value of the Partnership for Safe Water to Pennsylvania Department of Environmental Protection
Kevin Anderson (PA DEP)
Thursday – October 29, 2015 – Morning/Treatment Track
Operational Excellence – Case Studies and Lessons Learned from Phase IV Utilities

8:30 – 9:00am Starting with the End in Mind
Kevin Linder (Aurora Water)

9:30 – 10:00am Creating Treatment Optimization Framework and Culture
Chris Bobay (Louisville Water Company)

9:30 – 10:00am 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 Overcoming Complacency using Optimization Goal Setting
Michael Barsotti (Champlain Water District)

11:00 – 11:30am Water Treatment Forensics to meet your Full Zeta Potential
Michael Rau (Central Utah Water Conservancy District)

11:30am – 12:00pm 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 Surviving Fire, Flood, and the Partnership for Safe Water Self-Assessment
Andrea Schweitzer (Fort Collins Utilities)

9:30 – 10:00am THM Removal by Water Spray – Tank Top Results
Thomas Clark (Monroe County Water Authority)

9:30 – 10:00am Distribution Optimization – Achieving Professional Operations
Jeffrey Maccarella and Aaron Balliet (American Water Military Services)

10:00 – 10:30am Networking Break

10:30 – 11:00am Maintaining Louisville Water Company’s Best Tasting Tap Water
Vincent Monks (Louisville Water Company)

11:00 – 11:30am Free Chlorine and Chloramine Optimization in a Consecutive System: A Lesson in the Multi-Parameter Approach
Laura Blood (PA DEP)

11:30am – 12:00pm 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”

<table>
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<tr>
<th>Time</th>
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<th>Speaker</th>
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<tr>
<td>1:30 – 2:00pm</td>
<td>Improving Water Treatment Plant Performance – Tools for Water Treatment Plants to Achieve Optimization</td>
<td>Michael Grimm (Aquamize)</td>
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<td>2:00 – 2:30pm</td>
<td>Pre-Oxidation to Improve Filter Performance</td>
<td>Brad Zachman (Aurora Water)</td>
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<td>2:30 – 3:00pm</td>
<td>ESTW: Applications and Lessons Learned</td>
<td>Tom Waters (USEPA)</td>
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<td>3:00 – 3:30pm</td>
<td>Networking Break</td>
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#### Part II – Innovations in Treatment Optimization

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<tr>
<td>3:30 – 4:00pm</td>
<td>Optimizing Membrane Filtration Using the Revised Self-Assessment Guide</td>
<td>Ed Chescattie (PA DEP)</td>
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<td>4:00 – 4:30pm</td>
<td>The Integration of Smart Device Technology into Instrumentation to Optimize Plant Performance</td>
<td>Michael Sadar (Tintometer)</td>
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<td>4:30 – 5:00pm</td>
<td>Floc Characterization: The Missing Link</td>
<td>Tyson Ingels (CDPHE)</td>
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Thursday – October 29, 2015 – Afternoon/Distribution Track

Part I – Tools and Techniques for Distribution System Optimization

1:30 – 2:00pm  Distribution System Tank Monitoring and Water Quality
                Paul Handke (Red Valve)

2:00 – 2:30pm  Water Quality Monitoring and Nitrification Control in Chloraminated Distribution Systems
                Matthew Alexander (USEPA)

2:30 – 3:00pm  Aligning System Performance, Energy Efficiency, and Water Quality: Case Studies in Optimization
                Rob Sowby (Hansen, Allen & Luce)

3:00 – 3:30pm  Networking Break

Part II – Distribution Systems: A Look Ahead

3:30 – 4:00pm  Preparing for Revisions to the Revised Total Coliform Rule
                Keith Cartnick (United Water)

4:00 – 4:30pm  Control of *Naegleria fowleri* in Drinking Water Distribution Systems
                Jennifer Clancy (Corona Environmental)

4:30 – 5:00pm  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  
Online Monitoring of Dissolved Oxygen for Manganese Control in Water Treatment  
Vadim Malkov (Hach Company)

8:30 – 9:00am  
Optimizing the Operation of Gravity Media Filters  
Tom Getting (Xylem)

9:00 – 9:30am  
Fluorescence Enhanced Treatment Process Optimization  
Christopher Miller (University of Akron)

9:30 – 10:00am  
Process Optimization using Online Continuous Zeta Potential Monitoring  
Ana Morfesis (Malvern Instruments)

10:00 – 10:30am  
Real World Applications of Using Dynamic Simulation Software to Optimize Water Treatment Plant Process Operations  
Matthew Ridens (CH2M HILL)

**Friday – October 30, 2015 – Morning/Distribution Track**

*Distribution System Optimization Tools*

8:00 – 8:30am  
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  
Use of Main Break Data for Better System Management and Operation  
Michael Brown (Gannett Fleming)

9:00 – 9:30am  
Mixers and Aeration Systems: Do these Affect my Tanks?  
Christine Gunsaulus (MBA)

9:30 – 10:00am  
DBP Removal and Control in Distribution Systems  
Dr. Yuefeng Xie (Pennsylvania State University, Harrisburg)

10:00 – 10:30am  
Planning a Flushing Program  
Tom Walski (Bentley Systems)

10:00 – 10:30am  
Networking Break (Both Tracks)

*Closing Session: The Optimization Journey Continues*

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