

National Conference on Water System Optimization

October 18-20, 2010

Hershey Lodge

Hershey, Pennsylvania

Preliminary Technical Program

Monday, October 18

9:30a.m. - 12 noon

Opening General Session

- Welcome
- Section Officers
- Award Presentations

- ***Partnership for Safe Water - The Optimization Vision***
 - Steve Hubbs
Past Steering Committee Chair
Partnership for Safe Water
 - Nick Pizzi
Past PEAC Chair

- Keynote: ***What Has the Partnership for Safe Water Done for Me Lately?***
 - Kevin Linder, Water Treatment Plant Supervisor
Aurora Water, Colorado
Phase IV Award Treatment Plant

Mr. Linder led the team effort to achieve the Partnership for Safe Water Phase IV Excellence in Water Treatment Award for Aurora Water's Wemlinger WTP. He has led treatment and optimization efforts for more than 15 years and received the Ralph R. Leidholt Operator of the Year award in 2007. Mr. Linder is a Colorado certified Class A treatment plant operator and distribution operator IV.

Monday, October 18
1:00 p.m. - 4:00 p.m.

SESSION 1: Optimization Tools and Strategies (CEU)

- ***Partnership for Safe Water-Program Status and Results***
Bill Lauer
Partnership for Safe Water
Program Manager
- ***Training, the Most Important Tool in Treatment Plant Optimization.
“An Ounce of Prevention is Worth a Pound of Cure”***
David Hardy
Central Utah Water Conservancy District
Phase IV Treatment Plant
- ***A Catalyst for Filter Operation Optimization***
Bill Soucie
Central Lake County Joint Action Water Agency
Phase IV Treatment Plant
- ***10 Years of the Partnership Program in Quebec***
Alain Lalumiere
Coordinator
Quebec Section of AWWA, Canada
- ***EPA’s National Optimization Program: Key Findings in Distribution
System Optimization Development***
Paul Handke
PA DEP
- ***Criteria for Distribution System Optimization***
Greg Kirmeyer
HDR Engineering
Water Research Foundation Project 4109 Principal Investigator

Tuesday, October 19, 2010
9:00 a.m. -12 noon
Two Concurrent Sessions (CEU)

SESSION 2: A Focus on Distribution Systems

- ***You Can't Manage It If You Don't Measure It: Instituting Standardized Water Audit Reporting as a Foundation of Distribution System Management***
George Kunkel
Philadelphia Water Department
- ***Assessment of Historical Main Break Data to Address Non-Revenue Water***
Michael Brown
Gannett Fleming, Inc.
- ***Water Quality and Temperature Analysis of Drinking Water Storage Tanks to Evaluate Effectiveness of Mixing Devices***
Jason Heberling
Birmingham Water Works Board
- ***The Impact of Disinfectant Selection, Storage, and Use on Perchlorate, Chlorate, and Bromate Formation***
Benjamin Stanford
Hazen and Sawyer, P.C.
- ***Introducing District Metered Areas (DMA) and Pressure Management in Philadelphia***
George Kunkel
Philadelphia Water Department
- ***Aeration Technology for TTHM Compliance***
Stephanie Posse
Gannett Fleming

SESSION 3: Operator Focus: Optimization Applications

- ***Connecticut's Experience with Optimization and Invertebrates***
Tom Chyra
State of Connecticut Dept. of Public Health- Drinking Water Section
- ***Finished Water Quality Should be World Class***
Andrew Weiss
Stearns & Wheeler GHD
- ***Effects Various Coagulants and Coagulation Conditions Have on Floc Formation and Settled Turbidity Performance and Organics Removal***
Jeff Cochran
Birmingham Water Works Board
- ***Filter Inspection and Operational Techniques***
Nick Pizzi
ET&T Inc.
- ***The Little Pumps that Could***
David Garland
Greenville Water System
- ***Water Distribution System Valve Operability Keys to Success in Your System***
Mike Funk
Wachs Water Services

Tuesday, October 19, 2010
1:00 p.m. - 5:00 p.m.
Two Concurrent Sessions (CEU)

SESSION 4: Treatment Plant Optimization - Phase III and Beyond

- ***Phase IV- Starting with the End in Mind***
Kevin Linder
Aurora Water, Colorado
- ***Operational Modifications & Pumped Backwash System Improve Filter Performance***
Jim McVeigh
City of San Diego, Public Utilities Department
- ***Chemical Feed Optimization at the Three Rivers Water Filtration Plant, Fort Wayne, IN***
Alex Yavich
Optimization Solutions Environmental, LLC
- ***Benefits of a Mobile Pilot Plant to Advance Optimization Efforts in Drinking Water Treatment Plants***
April Nabors
Birmingham Water Works Board
- ***How Different Filter Medias Perform with Different Coagulation Conditions***
Jeff Cochran
Birmingham Water Works Board
- ***What Effect Does Acid Washing Have on Filter Media Performance***
Jeff Cochran
Birmingham Water Works Board
- ***Making What You've Got the Best- Optimizing a Military Water System for Consistent Turbidity & Additional Cryptosporidium Removal***
Steven Clarke
U.S. Army Public Health Command, Maryland
- ***Why Should Surface Water Treatment Plants Monitor UV254 in Source Water?***
Alex Yavich
Optimization Solutions Environmental, LLC

SESSION 5: Products and Services for System Optimization

- ***Filter Media Selection***
William Allis
Black & Veatch
- ***Instrumental Monitoring of Backwash***
Terry Engelhardt
HACH Company
- ***Benefits of Upgrading to an Optimization Simulation Model:
Improvements in Water Age, Energy Savings, ROI***
Michael Canning
Optimatics LLC
- ***Digital Revolution for Water/Wastewater Utility Management***
Gary Lassin
BirdNest Services, Inc.
- ***Application of Simplified Process Variance Techniques***
Mike Sadar
HACH Company
- ***Advanced Coagulant Control Techniques***
Charles Veal
Micrometrix Corp.
- ***Managing Coagulation through Understanding of Key Inter-Relationships***
George Budd
Black & Veatch
- ***Plant Optimization- A Plant-Wide Treatment Profile Approach***
Paul Hargette
Black & Veatch

Wednesday, October 20, 2010
9:00 a.m. - 12 noon (CEU)

SESSION 6: Optimization Recommendations and Award Advice

- ***Partnership for Safe Water***
Treatment Plant Program Effectiveness Assessment Committee (PEAC):
Phase III and Phase IV report suggestions
Questions from the Audience
- ***Partnership for Safe Water***
Distribution System Program:
Self-Assessment Guide and Program Development Committee
Self-Assessment Description: Disinfectant Residual, Pressure
Management, Main Break Frequency
Questions from the Audience
- ***Close of the Conference-***