

Sponsored by



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American Water, NJ

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Major event sponsored by **ESRI, USEPA** and leading technology firms
will explore the power of tomorrow's technology today

A powerful two-day program featuring presentations and case studies from
leading experts to help the modeling community understand

How To:

- Conduct vulnerability assessment and consequence management
- Protect and secure infrastructure systems
- Efficiently operate and manage water distribution and sewer collection systems
- Maintain and improve water quality in the distribution system
- Use network modeling for CMOM planning and IDSE compliance
- Conduct surge analysis for water quality management
- Use surge analysis for optimum system design and protection
- Interface network models with GIS and SCADA systems
- Optimize Capital Improvement Programs
- Maximize energy cost savings
- Effectively plan system design, rehabilitation and expansion
- Implement asset management to optimize efficiency
- Deploy enterprise-wide GIS
- Improve overflow management

August 27-28, 2007
Broomfield, Colorado

Discover. Learn. Network. Succeed.



Day 1

Monday August 27, 2007

07:00 am Coffee and Registration

07:45 am Welcome

Paul F. Boulos, Ph.D., President and COO
MWH Soft (CO)

08:00 am Keynote Speaker: A New Era of Geospatial Water Distribution Modeling and Management

J. Erick Heath, P.E., Vice President
MWH Soft (CA)

Session I - Effectively Plan System Design, Rehabilitation, and Expansion

08:30 am Modeling Techniques to Improve the Analysis of Water Systems

Brian J. Powell, P.E., Senior Technologist/Senior Project Manager
Nathan Faber, Associate Engineer
CH2M Hill (CA)

09:00 am When Providing a New Source Just Is Not Enough

Douglas Howie, P.E., Senior Project Manager
HDR (WA)

09:30 am Developing a More Effective Water Distribution Model

Jessica L. Brown, P.E., Manager of Water and Wastewater Master Planning
Freese and Nichols, Inc. (TX)

10:00 am Coffee Break

10:15 am Unique Challenges Inherent in All-Pipe Water Distribution Models Containing Hydropneumatic Tanks

Brian Raines, P.E., Civil Engineer
Eastern Municipal Water District (CA)
Jeff Kirshberg, Ph.D., P.E., Senior Project Engineer
Infrastructure Engineering Corporation (CA)

10:45 am Geospatially Based EPS Modeling Solutions: An Abilene Case Study

Melissa R. Waltzer, E.I.T., Project Engineer
Scott Cole, P.E., Project Manager
Freese and Nichols, Inc. (TX)

Session II - Use Network Modeling for Regulatory Compliance

11:15 am Developing and Calibrating Water Quality Models for Use in Compliance with the Stage 2 Disinfection Byproduct Rule

Kevin Gustorf, P.E., Project Manager
Karl Meier, Design Engineer
RBF Consulting (CA)

11:45 am Using Hydraulic Models to Drive Closure on Regulatory Decisions

Thomas E. Dumm, P.E., Technical Director
O'Brien and Gere (MD)

12:15 pm Lunch

01:15 pm Keynote Speaker: Realizing the Full Potential of Water Distribution Models: Processes and Tools

Laura Jacobsen, P.E., Manager of Planning Division
Las Vegas Valley Water District (NV)

Session III - Optimize Capital Improvement Programs

01:45 pm Hydraulic Modeling Techniques used to Optimize CIPs for 34 Water Systems Owned by Golden State Water Company Over an 18-month Period

Brian J. Powell, P.E., Senior Technologist/Senior Project Manager
Nathan Faber, Associate Engineer
CH2M Hill (CA)

02:15 pm Jefferson Parish Water Master Plan

Emery Myers, P.E., Senior Engineer
MWH Americas (LA)

02:45 pm The Benefits of Integrating Water, Sewer, and Recycled Water Master Plans

Inge Wiersema, P.E., Project Manager
Carollo Engineers (CA)

03:15 pm City of Suffolk, Virginia, Sewer Master Plan Update

Dan Graber, P.E., Project Manager
City of Suffolk
William Walker, P.E., CFM, Senior Water Resources Manager
URS Corp. (VA)

03:45 pm Coffee Break

04:00 pm Keynote Speaker: Methodology for Land Use-based Water Demand Projections

William R. Kirkpatrick, P.E., Manager of Water Distribution Planning
East Bay Municipal Utility District (CA)

Session IV - Interface Network Models with GIS and SCADA Systems

04:30 pm Developing, Preserving, and Enhancing Your GIS-based Hydraulic Model

Tony Akel, P.E., President
Akel Engineering Group, Inc. (CA)

05:00 pm A New Evolution in Building and Displaying 3D Geospatial Wastewater Models and Pond Design

Kedric Szana, Director of Engineering Education
MWH Soft (CO)

06:00 pm Reception

07:00 am Coffee and Registration

07:45 am **Keynote Speaker: Latest Advances in Urban Drainage Modeling**

Trent Schade, P.E., Senior Client Service Manager
MWH Soft (OH)

Session V - Develop, Calibrate, and Validate Rigorous Network Models

08:15 am **Fire Flow Testing and Calibration of Hydraulic Models**

Kevin Gustorf, P.E., Project Manager
Robert Young, P.E., Design Engineer
RBF Consulting (CA)

08:45 am **The Model T: Revolutionizing the Way Hydraulic Models are Developed, Calibrated and Maintained**

Patrick Moore, P.E., Technical Solutions Director
Akshaya Niraula, Project Engineer
ID Modeling (NM)

09:15 am **Water and Sewer Hydraulic Model Software Selection - Some Thoughts to Consider**

Charles T. Duncan, P.E., Vice President
West Yost & Associates (CA)

09:45 am **The Key to Calibration in the Keys**

Mark B. Elliot, P.E., Project Manager
PBS&J (CA)

10:15 am Break

10:30 am **Development & Practical Application of Water Quality Models to the LVVWD Distribution System**

Mao Fang, P.E., Senior Civil Engineer
Laura Jacobsen, P.E.
John Chan, P.E.
Las Vegas Valley Water District (NV)

11:00 am **Validating a Large Scale Water System in H2OMAP Using Telemetry Charts**

Irene Suruso, P.E., Project Engineer
West Yost Associates (CA)
Jim Simunovich, P.E., Engineering Manager of Operations
California Water Service Company (CA)

Session VI – Realizing Full Potential of Surge Analysis

11:30 am **Glen Mill Pumping Station Surge Analysis**

Paul West, P.E., Project Manager
Hazen and Sawyer (GA)

12:00 pm Lunch

01:15 pm **Keynote Speaker: Improving Water Distribution System Hydraulic Integrity with Surge Modeling**

Kala Fleming, Ph.D, Environmental Engineer
American Water (NJ)

Session VII – Advanced Modeling Technology

01:45 pm **Revolutionizing Pressure Zone Design and Management**

J. Erick Heath, P.E., Vice President
MWH Soft (CA)

02:15 pm **EPS Model Calibration Accuracies**

Jerry Edwards, P.E., Director of Infrastructure Planning
Black and Veatch (MO)

02:45 pm **Calibrating a GIS-based All-pipes EPS Model: A City of Denton Case Study**

Scott Cole, P.E., Project Manager
Freese and Nichols, Inc. (TX)

03:15 pm Break

03:30 pm **Unidirectional Flushing Program Development Using Water Quality Models for Implementation Effectiveness and Efficiency**

Kelcia D. Mazana, Project Engineer
Reiss Environmental (FL)

04:00 pm **Efficient Calibration by Understanding the Fundamentals and Utilizing Sophisticated Tools**

David L. McPherson, P.E., Supervising Engineer
MWH Americas (OH)

04:30 pm Award Ceremony

"This was the most relevant conference that I've attended. The presentations at most conferences are too generalized, however, almost every presentation at this conference included useful information, such as approaches to correct the topology and allocate demands, number of field calibration tests, and typical duration of water age models. It's also good to know that everyone else is facing the issues that we are with the development of an all-pipe model and integrating databases. Thanks."

City of Longmont, CO

"The conference was well coordinated/ organized and was an excellent learning opportunity with exceptional coverage of modeling technologies."

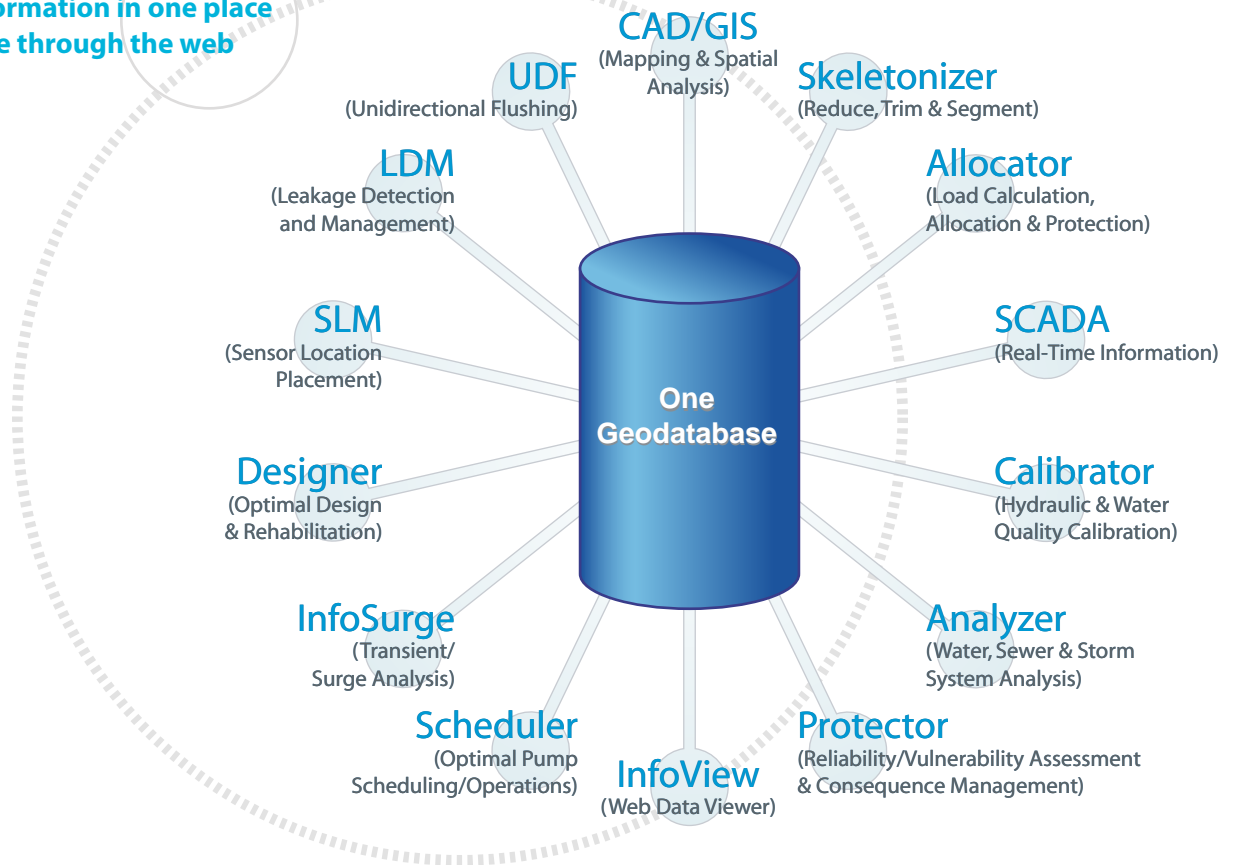
Las Vegas Valley Water District, NV

"I want to congratulate MWH Soft for organizing a very successful meeting. We deeply appreciate the effort by MWH Soft to provide us such chance to commute with other engineers. All the presentations are really impressive. I had a great time and enjoyed conversation with people there."

Flow Science Inc., VA

One Modeling Geodatabase, Seamless Geospatial Applications

All modeling applications working together
All modeling information in one place
Always accessible through the web



You Will:

- Attend a highly interactive conference that is geared specifically toward practicing engineers, GIS/IT professionals and industry executives
- Hear compelling presentations from industry leaders
- Learn from an experienced platform of international and innovative speakers on cutting edge issues
- Discover proven tools and technologies
- Network on a global scale and create valuable relationships with your peers



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