



**Advanced Asset Management
A “Hands-On” Approach
USEPA Asset Management Workshop**



March 24th -25th, 2009

Location:

Crowne Plaza Hotel Hartford:
Downtown
50 Morgan St.
Hartford, CT 06120
PH: (860)-549-2400

Sponsored by:

United States Environmental Protection Agency

Connecticut Department of Public Health

New England Interstate Water Pollution Control

Registration Deadline: March 13, 2009 (Register Early – Space is Limited)

The Challenge: Over the past half century, America has spent trillions of dollars building some of the finest infrastructure that history has ever seen. This investment has played a substantial role in the sustained prosperity and quality of life of our country. But in many communities, this infrastructure is severely stressed from overuse, under funding of maintenance and renewal, and aging.

A comprehensive approach to managing our capital assets is overdue – one that brings “state of the practice” advanced asset management (AM) concepts, tools, techniques, and technologies to bear on managing for cost-effective performance. This approach focuses relentlessly on providing **sustained performance to the customer at the lowest life-cycle cost and at an acceptable level of risk to the organization.**

The Focus: Public sector managers have been managing assets for decades. However, it is clear that what we have been doing in the past will not be sufficient to address the growing and increasingly complex challenges that lie ahead. Practical, advanced techniques for better management of assets have been developed and refined in both the private sector in the US and in water and wastewater agencies around the world. Management thinking is centered on long-term effectiveness, service sustainability, and effective environmental management. *How can these advanced asset management concepts, tools and techniques be most effectively transferred into the water and wastewater industry, more specifically, into your agency? Where to start? How to proceed? How to select appropriate tools?*

The Workshops: The AM challenge for US agency officials is one of “knowledge transfer.” **For that reason, these workshops have been designed as an extensive hands-on experience.** Each workshop:

- ◆ **Incorporates a real-world storyline** to realistically demonstrate an advanced asset management way of approaching difficult asset-driven problems.
- ◆ Is built around **participant exercises** that demonstrate the concepts, techniques and tools of advanced asset management.
- ◆ Is centered on **case-based mentoring** by expert asset management practitioners.

The agenda is built around five core AM questions. **The workshops focus on demonstrating, step-by-step, how an agency would select and deploy “Best Appropriate AM Practices” that are best suited to that agency.**



Agenda Highlights

Day One

7:30 am – 8:00 am Registration and Name Badge Pickup

8:00 am – 4:30 pm Duration of the Workshop

Introductions

Background and Context (8:00 – 10:00)

- The Changing Utility Industry
- The Emerging Utility Of Tomorrow

Break: (10:00 – 10:15)

Introduction of Storyline, Overview of Fundamental Concepts and Core Practices (10:15 – 12:00)

- Introduction Of Storyline
- A Definition Of AM
- A “Meta View” of the AM Paradigm
- Managing The Asset Base’s “Potential To Fail”
- Payoffs And Benefits, Downsides
- The “Five Core Questions” and the “10-Step AM Process”

Storyline and Worksheets - Tom’s Bad Day

Lunch Break (12:00– 12:30)

Core Question 1: What Is The Current State

Of My Assets? (12:30 – 3:30) [Break (2:15 – 2:30)]

- What is an Asset?
- Building a “Process Layout” Schematic
- Creating The “Asset Hierarchy”
- Defining The “Data Standard”
- Initial Condition Analysis, Remaining Physical Life
- The Four Major Failure Modes
- Determining Replacement Value
- Financial Accounting versus Managerial Accounting

Core Question 2: What Is My Required “Sustainable” Level Of Service (LOS)? (3:30 – 4:00)

- What Is “LOS”? Why Do It?
- How It Works (Strategic Level Versus Operations Level)

Discussion, Q & A and Feedback

Day Two

8:00 am – 3:30 pm Duration of Workshop

Summary of Day 1, Outline Of Day 2

Core Question 3: Which Assets Are Critical To Sustained Performance? (8:15 – 10:00)

- Understanding How My Assets Can Fail - the Four Major Failure Modes
- Determining The “Likelihood Of Failure”
- Determining The “Consequences of Failure”
- How to Measure Our Agency’s “Business Risk Exposure”?

Break: (10:00 – 10:15)

Core Question 4: What Are My Best Minimum Life-Cycle-Cost CIP And O&M Strategies? (10:15 – 11:30)

- What Alternative (Management) Options Are Feasible?
- Which Is The Best Option? – The Basics of “Optimized Renewal Decision Making”

Lunch Break (11:30 – 12:00)

Core Question 4: O&M (Continued) (12:00 – 1:45)

- Using AM To Drive Operations And Maintenance
- Moving Systematically Into Reliability Centered And Condition-Based Maintenance

Core Question 4: CIP

- Using AAM To Drive CIP
- Strategic CIP Validation

Break: (1:45– 2:00)

Core Question 5: What is my best Long-Term Funding Strategy (Continued) (2:00 – 2:45)

- Determining A Sustainable Renewal Funding level
- Building Your First Asset Management Plan

Discussion, Closing Summary, Questions (2:45 – 3:30)

- Focus Topic: Deploying an Asset Management Program

About Our Trainers:

Mr. Steve Allbee – USEPA Project Director, Gap Analysis; primary author, USEPA’s **The Clean Water and Drinking Water Infrastructure Gap Analysis**; 30 years EPA – development of financing programs; BA, MA, MPA.

Mr. Doug Stewart, P.E. – Technical Director & Principal Consultant – GHD; editor, **International Infrastructure Management Manual** (sixth edition); former Asset Management Program Director, Orange County Sanitation District; 30 years engineering experience, 10 years utility management; BS, MSCE.

Overnight Hotel Accommodations

Attendees are required to make their own hotel arrangements. A limited number of rooms have been reserved at the rate of \$112 per night plus tax. Reservations must be made by calling hotel directly and referencing “NEIWPC/EPA Asset Management Workshop” or online at www.cphartford.com with the code “NEI.”

Cut off date to book overnight rooms = Monday, March 2, 2009. Overnight Parking rate is \$15 per car per night for guests

More information about the workshop and asset management is available at www.epa.gov/owm/assetmanage/assets_training.htm

Registration: \$275 (includes workshop, coffee breaks and lunch daily) per person if register by March 13, 2009. Registrations received after March 13, 2009 will incur a late fee of \$25.

Cancellations: Seven days notice is required IN WRITING for you to cancel at no cost. Cancellations received after this time will be charged \$50. Registrants who do not cancel and who fail to show are responsible for full payment. A confirmation will be sent to all registered attendees.



Registration Form

Name (First name, Last name) _____

Badge _____
Name on ID badge, such as nickname, if desired

Organization _____

Mailing Address _____

City, State, Zip Code _____

Daytime Phone _____ Email _____

Registration Fee _____ \$275 (includes workshop, coffee breaks and lunch daily) if registered by March 13, 2009. Registrations received after March 13, 2009 will incur a late fee of \$25.

____ Check enclosed (mail registration form & check, make checks payable to NEIWPC Training)

____ Charge my credit card (mail, fax or email registration form)

Visa MasterCard Discover

Credit Card No. _____

Expiration Date _____

Card Holder Name (Please Print) _____

Card Holder Signature _____

Credit Card Billing Address:

Mailing Address _____

City, State, Zip Code _____

Please mail registration with a check made out to NEIWPC:

NEIWPC
116 John Street
Lowell, MA 01852
Phone: (978)323-7929
Fax: (978)323-7919

You may register online (Credit Cards Only): <http://www.neiwpc.org/conference/conference.asp>