

## REGISTRATION FORM

For multiple registrations, please copy this form.

Registration	Before March 26	After March 26
One Day	\$50	\$75
Two Days	\$75	\$90
Day of Workshop		\$100
<b>Total Enclosed:</b>		

### About the Trainers:

**Mr. Steve Allbee** – US EPA Project Director, Gap Analysis; primary author, USEPA's The Clean Water and Drinking Water Infrastructure Gap Analysis; 33 years EPA – development of financing programs; BA, MA, MPA.

**Mr. Duncan Rose** – Technical Director & Principal Consultant – GHD, former city/county manager, co-author of WEF's textbook, **Managing the Water and Wastewater Utility**; co-author (US Team), **International Infrastructure management Manual** (sixth edition); 30 years state and local government management, Adjunct Faculty, Florida State University, Askew School of Public policy; BA, MSP, MAPA.

# The Fundamentals of Asset Management A "Hands On" Approach

U.S. EPA Asset Management Workshop



Name: \_\_\_\_\_ Operator #: \_\_\_\_\_

Title: \_\_\_\_\_

Agency or Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

**Tuesday and Wednesday  
April 3 – 4, 2012**

**Eugene T. Mahoney State Park  
Riverside Group Lodge  
28500 West Park Hwy  
Ashland, NE 68003**

### METHOD OF PAYMENT & POLICIES

**Only checks for amount of registration will be accepted**

Send Registration Form with Payment to:

**CITY OF LINCOLN WATER SYSTEM**

Attention: John Keith  
P.O. Box 144  
Ashland, NE 68003

Phone: (402) 323-3863

Fax: (402) 944-3478

Email: [jkeith@lincoln.ne.gov](mailto:jkeith@lincoln.ne.gov)

Make checks payable to "NSAWWA"  
Workshop will begin promptly at 8:30 a.m. each day.

Registration Forms may be faxed with purchase order # included and payment mailed prior to workshop.

Seats are limited; please register early to reserve your seat.

Course fee includes: Course, breaks, lunch, and entrance fee into Mahoney State Park.

**CANCELLATION POLICY:** Refunds will be given, minus \$5 handling fee. If registrant cancels in writing 10 days before workshop begins.

Presented by



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## ABOUT THE WORKSHOP

**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 (AAM) 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.

### OPERATOR CERTIFICATION

14 Water and Wastewater Certification hours have been requested through NDHHS and NDEQ. To obtain certification hours, attendees must sign roster each day. All attendees will receive a certificate upon completion

### SPONSORS ARE WELCOME

For more information, email to [jkeith@lincoln.ne.gov](mailto:jkeith@lincoln.ne.gov)

## AGENDA

**Tuesday, April 3**

8:00 - 8:30 a.m.

Registration and Coffee

<b>Introductions, background and context</b>	<b>8:30 - 9:30 am</b>
<ul style="list-style-type: none"> <li>▪ The changing utility industry</li> <li>▪ The emerging utility of Tomorrow</li> </ul>	
<b>Introduction of Storyline, Overview of Fundamental Concepts and Core Practices</b>	<b>9:30 - 10:00 am</b>
<ul style="list-style-type: none"> <li>▪ Introduction of Storyline</li> <li>▪ A definition of AM</li> <li>▪ A “Meta View” of AM Paradigm</li> <li>▪ Managing the Assets “Potential to Fail”</li> <li>▪ Payoffs, Benefits and Downsides</li> <li>▪ “Five Core Questions” / A “10 Step Process</li> </ul>	
<b>Break</b>	<b>10:00 - 10:15 am</b>
<b>Tom’s Very Bad Day</b>	
<b>Core Question 1: What Is The Current State of My Assets?</b>	<b>10:15 - 12:15 am</b>
<ul style="list-style-type: none"> <li>▪ What is an Asset?</li> <li>▪ Building a “Process Layout” Schematic</li> <li>▪ Creating the “Asset Hierarchy”</li> <li>▪ Defining the “Data Standard”</li> <li>▪ Initial Condition Analysis Remaining Physical Life</li> </ul>	
<b>Lunch</b>	<b>12:15 - 1:00 pm</b>
<b>Core Question 1: (Continued)</b>	<b>1:00 - 2:30 pm</b>
<ul style="list-style-type: none"> <li>▪ The Four Major Failure Modes</li> </ul>	
<b>Break</b>	<b>2:30 - 2:45 pm</b>
<ul style="list-style-type: none"> <li>▪ Financial vs Managerial Accounting</li> </ul>	<b>2:45 – 3:30 pm</b>
<b>Core Question 2: What Is My Required “Sustainable” Level of Service</b>	<b>3:30 - 4:00 pm</b>
<ul style="list-style-type: none"> <li>▪ What is “LOS” Why Do It?</li> <li>▪ How It Works (Strategic vs Operational Levels</li> </ul>	
<b>Discussion, Q&amp;A, Feedback</b>	<b>4:00 - 5:00 pm</b>

## AGENDA

**Wednesday, April 4**

8:00 - 8:30 a.m.

Registration and Coffee

<b>Summary Day 1/ Outline Day 2 Core Question 3: Which Assets Are Critical to Sustained Performance</b>	<b>8:30 - 10:00 am</b>
<ul style="list-style-type: none"> <li>▪ Understanding How My Assets Can Fail?</li> <li>▪ Determining the “Likelihood of Failure”</li> <li>▪ Determining the “Consequences of Failure”</li> <li>▪ How to Measure “Business Risk Exposure.</li> </ul>	
<b>Break</b>	<b>10:00 - 10:15 am</b>
<b>Core Question 4: What Are My Best Minimum Life-Cycle Cost, CIP and O&amp;M Strategies</b>	<b>10:15 - 11:00 am</b>
<ul style="list-style-type: none"> <li>▪ What Alternative “Treatment” Management Options are Feasible</li> <li>▪ Which Is the Best Strategy “Optimal Renewal Decision Making”?</li> </ul>	
<b>Core Question 4: (Continued)</b>	<b>11:00 – 12-15 am</b>
<ul style="list-style-type: none"> <li>▪ Using AAM to Drive Operations / Maintenance</li> <li>▪ Moving Systematically Into Reliability Centered and Condition-Based Maintenance</li> </ul>	
<b>Lunch</b>	<b>12:15 - 1:00 pm</b>
<b>Core Question 4: (Continued)</b>	<b>1:00 – 2-45 pm</b>
<ul style="list-style-type: none"> <li>▪ Using AAM to Drive the CIP</li> <li>▪ The Strategic Valuation Process</li> </ul>	
<b>Break</b>	<b>2:45-3:00 pm</b>
<b>Core Question 5: Long Term Funding</b>	<b>1:00- 2:30 pm</b>
<ul style="list-style-type: none"> <li>▪ Determining Sustainable Renewal Funding</li> <li>▪ Effectively Telling the Funding Story</li> <li>▪ The “Whole of Business” Perspective</li> <li>▪ Using AAM for Rate Setting and Budgeting</li> </ul>	
<b>Break</b>	<b>2:30 - 2:45 pm</b>
<b>Deploying An AAM Program; Building Your First Asset Management Plan, The Human Side, The Political Side.</b>	<b>2:45 - 4:00 pm</b>
<b>Panel Discussion of Utility Representative, Q&amp;A, Evaluations</b>	<b>4:00 - 5:00 pm</b>

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### OVERNIGHT ACCOMMODATIONS

Each participant is responsible for arranging travel and lodging accommodations as needed. Here is some information of hotels near Mahoney State Park:

Mahoney State Park  
Peter Kiewit Lodge  
28500 West Park Hwy  
Ashland, NE 68003  
402-944-2523

(off-season lodging discounts available)

Super 8 Gretna  
14355 Highway 31  
I-80 at Exit 432  
Gretna, NE  
402-332-5188

Holiday Inn Express  
16175 Stevens Pointe  
I-80 at Exit 439  
Gretna, NE 68028  
402-504-3716

E.T. Mahoney State Park is located between Omaha & Lincoln Nebraska on Interstate I-80, Exit 426

The USEPA Asset Management Workshop is being organized by the Nebraska Section of the American Water Works Association and the Nebraska Water Environment Association.

Nebraska Section American Water Works Association  
<http://awwaneb.org/>

Nebraska Water Environment Association  
<http://www.ne-wea.org/>

### QUESTIONS

Call (402) 323-3863