Asbestos Cement Pipe Condition Assessment and Optimum Replacement Methodology

LIVE AUDIO CONFERENCE
May 17, 2012
1:00 PM – 2:30 PM EST

Thousands of miles of asbestos cement pipe mains in North America water distribution systems are reaching the end of their anticipated service life. With costs for replacement in the multi-million dollars per mile, distribution system managers must determine where to focus limited funds and how to optimize mainline replacement. This live audio conference provides distribution system operators with tools to determine the actual remaining service life of the asbestos cement pipes within their specific system. The two major engineering aspects to evaluation of remaining service life, system physical condition assessment and predictive leak rate modeling, will be explained.

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“Achieving lower costs through greater efficiency and productivity is the only sustainable competitive advantage.”
— Arie de Geus

AUDIO CONFERENCE AGENDA
AC Pipe Degradation
- Material Characterization
- Degradation Mechanisms
- Failure Modes
- Factors Influencing Degradation

System Condition Assessment
- Sample Selection
- Methods of Testing Physical and Chemical Properties of Pipe Samples
- Interpretation of Test Results

Prediction of Remaining Service Life
- Modeling Based on Pipe Condition
- Modeling Based on System Leak Rates
- Application of Predictive Model to System Wide Replacement Plan
- Economic Analysis of Replacement Plan

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Meet The Presenters:

Nathan J. Harris, Ph.D., P.E.
Exponent Failure Analysis Associates

- Senior engineer at Exponent Failure Analysis Associates
- Practice emphasizes on all aspects of concrete and cement based materials used in modern infrastructure
- Presented on asbestos cement pipe condition assessment for American Water Works Association
- Writer of publications related to cementitious materials testing
- Associate member of American Society of Civil Engineers, member of American Concrete Institute

- Ph.D. degree in civil and environmental engineering, Cornell University, Ithaca, New York
- Can be contacted at 650-688-7043 or nharris@exponent.com

Mateusz Radlinski, Ph.D., P.E.
Exponent Failure Analysis Associates

- Senior engineer at Exponent Failure Analysis Associates
- Practice emphasizes on all aspects of concrete and cement based materials used in modern infrastructure
- Presented on durability and failures of concrete materials
- Writer of publications related to material characterization, performance evaluation and development of testing methods for concrete
- Associate member of American Society of Civil Engineers, member of American Concrete Institute

- Ph.D. degree in civil engineering, Purdue University, West Lafayette, Indiana
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Who Will Be There?

This live audio conference is designed for engineers, public works directors, hydrology professionals, environmental professionals, project managers, consultants, planners, government officials, contractors and subcontractors.

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