



Research to Practice eBrownbag Webinar Series



Fall 2007

Ground Rupture Effects on Critical Lifelines: Strengthening Buried Pipelines and Utility Conduits to Avoid Post-Quake Disruption

The Earthquake Engineering Research Institute, the American Society of Civil Engineers Technical Council on Earthquake Engineering, and the Network for Earthquake Engineering Simulation are pleased to present a 90-minute online webinar that outlines key findings and implications from new research on how to improve the design and construction of buried pipelines and conduits used for water, natural gas, liquid fuel, electricity, and telecommunications.

- Cornell professor Thomas O'Rourke will alert you to how high density polyethylene (HDPE) pipes compare with steel pipelines and outline implications for mitigating extreme loads associated with floods, landslides, tunneling, deep excavations, mining, and oil production.
- Brian Sadden of the San Francisco Public Utilities Commission will provide a practitioner's perspective on how research results are being transformed into practice in the Los Angeles and San Francisco water supplies.
- Thomas Rooney, President and CEO of Insituform Technologies, Inc., will describe how existing pipelines can be retrofitted.

You can participate in this training session live via WebEx on **Tuesday, October 9 at noon EDT and again at noon PDT, or download the broadcast** at any point after that date.



Researchers buried 35-foot-long conventional steel and high-density polyethylene (HDPE) pipelines in a test basin filled with 100 tons of soil.

“Test results have already confirmed that use of HDPE in earthquake-prone areas would help prevent quake-induced pipeline ruptures and their potentially catastrophic consequences. HDPE, a type of plastic, has demonstrated that it can stretch and deform without breaking when strained by extreme forces.”

*- excerpted from article in
NEHRP's Seismic Waves,
May 2007*

Register for the webinar at
www.nees.org/ebrownbag

For more information, contact
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