

# PIPELINES 2006

## *Service to the Owner*

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PROCEEDINGS OF THE PIPELINE DIVISION  
SPECIALTY CONFERENCE

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July 30 to August 2, 2006  
Chicago, Illinois

SPONSORED BY  
The Pipeline Division of the American Society of Civil Engineers

EDITED BY  
Alan Atalah, Ph.D., P.E.  
Armand Tremblay, P.E.

**ASCE** *American Society  
of Civil Engineers*

1801 ALEXANDER BELL DRIVE  
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# Preface

Pipelines provide a vital service in transporting water, wastewater, drainage, natural gas, petroleum and other products. Owners have the largest stake in the whole design, construction and operation process. After the construction is completed, the owner's stake goes on for decades. The papers in this proceeding assist the owners in managing the design, construction, and operation of their most vital assets-pipelines.

Conference papers cover topics of seismic effect on pipelines, asset management, infrastructure renewal, pipeline planning and route selection, hydraulic design, security and safety, soil structure interaction, durability considerations, pipelines construction management, and trenchless technology construction.

The editors would like to thank the authors for their cooperation in developing clear and technologically challenging presentations.

The Editors also extend a hearty thank you to Melinda A. Shockey, Eric Ampadu, and John Meena for their many hours of administrative assistance.

## Editors

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