

PIPELINES 2018

Condition Assessment, Construction, and Rehabilitation

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CONFERENCE

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Preface

Pipelines are the arteries of the modern world that convey the essence of what drives quality of life, commerce, and public health for all of society. Whether conveying drinking water, collecting wastewater, storage and conveyance of storm water, or transport of petroleum or other fluids – pipelines are one of the most essential elements of modern infrastructure that impacts the way we live and ability to improve the world around us.

This year's conference theme is *Revitalizing Global Underground Utility Infrastructure*. It focuses on the awareness that pipelines are a global topic essential to our quality of life; that we have common issues and concerns independent of our nationality; and that our industry can work together to truly develop solutions without borders. This is an exciting realization that holds hope and promise for our future.

In coordination with the American Society of Civil Engineers, the technical program and this publication were planned and implemented by the Technical Program Committee, led by the Technical Co-Chairs. A call for abstracts was made for the first Pipelines conference outside of the United States, from which well over 300 abstracts were submitted. These abstracts were then sorted into tracks based on the general topic areas of Condition Assessment, Planning and Design, Construction and Rehabilitation, Utility Engineering and Survey, Multi-discipline, and Technical Posters. In addition, 5 panel sessions were included with topics from Women in Engineering to Ethics to Emergency Response as well as other specialized technical topics. This resulted in an extraordinarily high-quality program containing 175 papers and 15 poster presentations.

For publication purposes, technical papers from the eight presentation tracks were consolidated into the following three subjects: 1- *Pipelines 2018: Planning & Design*, 2- *Pipelines 2018: Condition Assessment and Construction & Rehabilitation*, and 3- *Pipelines 2018: Multidiscipline Topics and Utility Engineering and Survey*.

On behalf of the Technical Program Committee, we are pleased to offer you the Proceedings of ASCE Pipelines 2018 “*Revitalizing Global Underground Utility Infrastructure*”.

Yours truly,

Chris Macey, P.Eng., M.ASCE and Jason Lueke, Ph.D., P.Eng., M.ASCE

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Acknowledgments

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Jerry Colburn - Right-of-Way Considerations in Pipeline Routing

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The Technical Program Co-Chairs and the Steering Committee would like to thank the over 80 individuals which participated as part of the 2018 Technical Committee. Everyone worked as a team to review abstracts, papers, and posters, and continued to collaborate throughout the construction of this year's technical program. Most of the below technical committee members also served as moderators for the conference.

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The Technical Program Co-Chairs also thank the authors and exhibitors for their dedication to the industry in presenting at this conference. Without your contributions, the conference would not be possible.

And lastly, the Technical Program Co-Chairs express special thanks to Tennyson Muindi and William Fernandes, Conference Co-Chairs, and the Steering Committee for their efforts and leadership during the planning and execution of Pipelines 2018 Conference.

Contents

Asset Management

Defect Based Risk Assessment Model for Prioritizing Inspection of Sewer Pipelines.....	1
M. Elmasry, A. Hawari, and T. Zayed	
An Innovative Approach to Prioritization of the Miami-Dade Water and Sewer Department Water Transmission Mains	10
Olena Lytvyn and Robert J. Card	
Asset Renewal Forecasting for Water Main Replacement Program	24
Derek Gardels, Nathan Casey, Dan Klopfer, Dave Spencer, and Mark Duben	
Calgary Feedermain Inspection Program	32
Joanna M. Line and Mike Wrigglesworth	
Mitigating the Hidden Costs of Pipeline Sediment Deposition	40
Jason Ward, Eric Engelskirchen, Nick Landes, Travis Markham, and Travis Williams	
Advanced Asset Management for Force Main and Gravity Pipe Infrastructure Systems	48
Berk Uslu, Sunil K. Sinha, and Walter L. Graf	
Remaining Life Determination and Risk Management Decision Support for Wastewater Pipes with External Inspections	57
Berk Uslu and Robert Abernethy	
City of Hamilton Approach to the Management of Critical Watermain Infrastructure	65
Mike Zantingh	
Criticality Model to Prioritize Pipeline Rehabilitation Decisions	75
Khalid Kaddoura and Tarek Zayed	
Integrated Asset Management Planning of Wastewater Collection and Treatment Systems	86
H. Mohammadifardi, M. A. Knight, and A. J. A. Unger	
Consequence of Failure of Sewers (COFS) Model for Risk-Based Asset Management Using Analytical Hierarchy Process	95
Greta J. Vladeanu and John Matthews	

Using Probabilistic and Deterministic Modeling Techniques to Relate Funding to Service Levels to Drive a Water Main Rehabilitation Program in Toronto, Canada.....	105
Chris Macey, James Davidson, and Matthew Coleman	

Proactive Management Strategy for Critical Buried Infrastructure.....	116
Glen White and Heather Edwards	

Water Main Criticality Scoring and GIS Centric Risk Mitigation: Applying GIS Spatial Analysis Tools and Apps for Greater Insight for High Risk Underground Infrastructure	124
Gregory M. Baird, Dinorah G. Sanchez, and Becky Tamashasky	

Coatings

Long-Term Weathering Effects of Pipeline Coatings.....	133
Jeff Giddings, Jose Pena, Matt Gaughan, and Ed Weaver	

Gloss and Color Changes during Exposure of Polyurethane Coatings for Steel Water Pipes and Their Possible Link to Long-Term Corrosion Protection	144
Stuart Croll, Chunju Gu, Vinod Upadhyay, and Brent Keil	

Accelerated Degradation Test on Coating Materials for Steel Pipes	154
Johnnatan Garcia-Ruiz, Shad Sargand, and Teruhisa Masada	

Condition Assessment

Condition Assessment of Concrete Bar-Wrapped Cylinder Pipe, the Next Phase of San Diego County Water Authority's Asset Management Program.....	163
Martin R. Coghill, Nathan D. Faber, Andi Corrao, and Chris Garrett	

Howard County Pilots Condition Assessment Technology for Critical Metallic Mains.....	172
Paul DiMarco, Jorge Rodriguez, Grant McDaniel, and Allison Stroebele	

Application of Pipe Penetrating Radar for Asbestos Cement Pipe Condition Assessment.....	183
Csaba Ékes	

Assessing the Effectiveness of Acoustic Wall Thickness Technology through Meta-Analysis	191
Balvant Rajani, Fred Pfeifer, and Donald Shields	

Condition Assessment of Wastewater Treatment Plant Piping: Risk Based Planning for Cost Effective Decisions	200
Jose L. Villalobos, Clinton McAdams, and Noy Phannavong	
Hot Tapping Facilitates 36-Inch PCCP Condition Assessment as a Sustainable Approach to Save \$15 Million in Immediate Maintenance Expenditures.....	207
Charles Herckis	
The City of Ottawa’s Approach to Minimizing Risk through Its Condition Assessment Program.....	220
Amanda Shane and Hamid Goorkani	
North Fork Siphon Condition Evaluation	230
M. Gibbons, B. Buehler, A. E. Romer, C. Macey, and D. Champenois	
A Comprehensive Condition Assessment of a High Risk Coastal Force Main: Comox Valley Regional District Case Study	239
Kris La Rose, Vasilis Sagiannos, and Justin Hebner	
A Comparison of Technologies for a “One of a Kind” Pipeline: Condition Assessment of the 46” Transmission Main in Grand Rapids, MI.....	249
Britton Evans, Bryon Livingston, and Alex Fleet	
Investigation of Acoustic Wave Propagation and Attenuation in a Damaged Buried Pipe	259
Ashkan Khalili, Alavinasab, Marshall Kennedy, and Cameron White	
River Crossing Inspections—Balancing Risk with the Need to Obtain Advanced Pipeline Condition Assessment Data.....	269
Chris Macey, Adam Braun, Mike Gaudreau, Marv McDonald, and Jordan Thompson	
Condition Assessment and Asset Preservation Rationalization for the St. Paul Regional Water Services (SPRWS) in St. Paul, MN	280
Chris Macey, Marshall Gibbons, Tom Degen, Rich Hibbard, and David Wagner	
Air Pocket Detection in Water and Wastewater Conveyance Pipelines Using Inverse Transient Analysis	294
Ahmad Malekpour and Yuntong She	

Corrosion

Twenty Years of Protecting Concrete in Sewers.....	303
William E. Shook	

Pilot Study—Biogenic Corrosion Mitigation Alternatives for Trunk Sanitary Sewers in the Region of Peel.....	312
Graeme Henderson, Kevin Waher, David Mutombo, Ajay Puri, and Simon Hopton	

Design

An Unexpected Reducer: Engineering a Pipe Connection Solution in the Field	321
R. Pierce Smith, Justin C. Reeves, and J. Warren Green	

Evaluation of Structural Design Methodologies for Large Diameter Pipeline Renewal Design.....	327
Zahra Kohankar Kouchesfehiani, Kimberly Paggioli, Mohammad Najafi, and Antonio Miglio	

Emergency Repair

Design Build Emergency Repair of 72-Inch Aerial Sewer	333
Jeff Heidrick, Karine Papikian, David Oshel, and Shawn Wilson	

Emergency Pipeline Rehabilitation Ensures Raw Water Supply to Domtar Paper Mill.....	343
Robert Cullwell, Mike Fleury, Jonathan Herrboldt, and Steve Nipper	

Emergency Stabilization of 84-Inch Chapman Raw Water Pipeline Crossing the South Sulphur River, Greenville, Texas.....	352
Jeff Hogan, Sam Marston, David Burkhardt, and Ben Stephens	

Failure Evaluation

Forensic Evaluation of PCCP Failures: Green Bay Water Utilities Case Study	362
Bryon Livingston, Rasko Ojdrovic, and Brian Powell	

Forensic Study of a 16-Inch PVC Water Pipe Failure during Tapping	371
Shaoqing Ge, Suzanne Chiavari, and David Hughes	

When Reliability Fails: Emergency Repairs to a 50-Year-Old Aqueduct.....	382
Nick Lester and Michael McBee	

“Large and Critical Valve” Maintenance Strategies for Establishing System Control and Reliability.....	391
Britt Klein	

Leakage

Leakage Rate Uncertainty in Water Distribution Systems with Uncertain Demands: Impacts on Delivery Pressures	399
V. Ghorbanian and L. Ramezani	

Benchmarking Your Break Rates: A Review of New Findings and Trends from North American Water Main Break Studies	408
Gregory M. Baird and Steven Folkman	

Lining

Spray in Place Pipe (SIPP): Materials Composite and Implementation Methodology for Surviving Pressure Pipe Failure	417
Kent Weisenberg, Tom Iseley, and Lin Li	

Coating Rehabilitation of Large Diameter Water Line above Grade Crossings	423
Christine H. Kirby, Eric I. Hernandez, and Venus Price	

A Rational Approach to Designing Spray Applied Polymeric Manhole Rehabilitation Products	433
Chris Macey and Adam Braun	

Pressure Testing of CIPP Liners to Failure	444
Mark A. Knight and George Bontus	

Qualitative Assessment of Mechanical and Adhesive Service Connections for CIPP	454
George Bontus, Robert Kodadek, Michael J. Caputi, Rick Baxter, and Ian A. Lancaster	

Materials

When Transit Expansions Requires You to Really Understand Your Water System	464
Arthur E. Sinclair and Ali Ahmadi	

New Installation

A Case Study on Design, Testing, and Installation of Two Large Diameter Tunnel Liner Projects for the City of Los Angeles	472
Henry H. Bardakjian and Joel Olmos	

The Horizontal Directionally Drilled Installation of Dual Parallel 3,220-Foot Fusible PVC Pipelines	481
George Triebel, Janet Atkinson, Gayleen Darting, Jose Ramirez, and Scott Hutcheson	

From Pipe Ram to Microtunnel—How Owner and Contractor Worked Together	490
Erik Waligorski, Ron Speer, Ken Van Den Bergh, and Gregory G. Hill	
Trains to Mains: How to Relocate Three Kilometers of Water Main in Preparation for Light Rail in Downtown Tacoma, WA	501
A. Polda	
Muskingum River Sanitary Sewer Force Main Project—Key Concepts for a Successful HDD River Crossing Project from the Owner’s Perspective	509
Joseph R. Tucker and Martin Scanlan	
Avoiding Rush Hour with Utilizing Horizontal Directional Drilling	517
Clayton C. Barnard, Arthur Hartle, David Reuter, and Marvin Lee	
Pure Water Branched Subaqueous Diffuser Pipeline	526
Badri Badriyha, Kathy Haynes, and Jeff Soriano	
LADWP City Trunk Line Sequential Excavation Method Tunnel underneath the Tujunga Wash	532
Ruwanka P. Purasinghe, Philip K. Lau, Jianping Hu, Wolfgang Roth, S. Nesarajah, and Wolfgang Pichler	
DigIndy Tunnel System Fall Creek CCS Phase IA.....	539
Maceo R. Lewis IV, Nick J. Maynard, and Jeff A. Glover	
Large Diameter Tunnel, to Expedite Consent Decree Pipeline	546
Jeff Farnsworth and David Bennett	
Crossing an 8,800-Foot Wide Body of Water to Get Long-Term Water Supply to Limestone County	555
Jeff Seal and Alton Hethcoat	
Microtunnel Crossing of Alberta’s Busiest Highway	565
Duane Strayer and Craig Pass	
Evaluating ArrowBore—An Engineers Perspective.....	574
Michelle Macauley and David Landing	

Pipeline Inspection

Automated Sewer Pipeline Inspection Using Computer Vision Techniques	582
Saeed Moradi, Tarek Zayed, and Farzaneh Golkhoo	

Impact of Pipeline Inspections on New Jersey American Water's Cleaning and Lining Program	588
Michael Wolan, Kevin Laven, and Asha Budhlall	

An Updated Guide for Construction Inspection of Large Diameter Water Pipelines	593
Russell Gibson, Charles Erwin, and Edward Weaver	

Underwater Inspection and Imaging Technologies for Pipelines	608
Roy A. Forsyth, Christopher S. Hartzell, Shanon A. Chader, and Terence M. Browne	

Design of a Physical and Electronic Inspection of a 66-Inch (168-cm) Steel Water Main in Washington, DC.....	618
Louis Ragazzino, Chelsea Gress, and Mandy LeBlanc	

Rehabilitation

Deployment of an Airborne Polymeric Liner for Water Main Renewal.....	627
M. A. Knight, B. D. Thorogood, and R. J. Cooper	

Hurricanes, Conquistadors, and Endangered Species—The Unique Challenges of Under-Bridge Pipe Replacement on Florida's Historic Coast.....	637
Grant Misterly, Christine Ellenberger, and Scott Trigg	

Eastern Parkway Water Transmission Main Rehabilitation—Sliplining Renews Critical 48-Inch Cast Iron Main along Historic Olmstead Parkway in Louisville, Kentucky	648
Jim Watterson and Jordan Carrier	

City of Taylor Rehabilitates 60-Year-Old Cast Iron Mains via Pre-Chlorinated Pipe Bursting	658
Greg Mayhew and June Baterina	

Rehabilitation Design for Old Brick Conduits	664
V. Firat Sever, Zach Neukam, and Jeremy Cawley	

Benefits of Performance Based Large Diameter Pipeline Rehabilitation	671
Samantha La Hée, Mark Mihm, Jeremy Koch, and Art Tillberg	

Considerations for Management of a Large-Scale Watermain Relining Program.....	678
Anthony Sinaguglia, Stewart Dickson, Mike Klipina, and Garry Boychuk	

Rehabilitation of the Burrungubugge Intake Shaft to Help Maintain One of the Civil Engineering Wonders of the Modern World.....	685
Scott F. Arnold, John de Groote, and Brad Doudican	
Baltimore Siphon Rehabilitation: Changing Conditions, Dynamic Solutions.....	695
Cecilia Nguyen, Jessica Weron, and Pono Hanson	
Cast Iron Trunk Watermains in the City of Toronto.....	701
Jackie Siu	
North Charleston Sewer District's Ashley Interceptor Sewer Rehabilitation by Cured-in-Place Pipe Methodology	708
James C. Reigart and Phillip T. Sexton	
Strike While the Iron is Hot—An “All of the Above” Approach Blends Rehabilitation and Renovation with Reactive Replacement	717
Peter J. Pfister and Michael J. Mitchell	
Rehabilitation of the Orange County Feeder	727
Michael McReynolds, Amir Bidgoli, and Carl Allen	
Old Pipe, New Tricks: A Pragmatic Approach to Partially Deteriorated Pipeline Rehab Design	736
Daniel Buonadonna, Briant Jacobs, and Adam Murdock	
Execution of Data-Driven Surgical Rehabilitation on a 36-Inch Concrete-Lined Steel Pipe	743
Tim Ross, Eric Fockler, and Ad Shatat	
Middlesex Water Company 30-Inch Pipeline Upgrade under U.S. Route 1	753
Jan Chwiedosiuk, David J. Tanzi, Anna B. Pridmore, and Rasko P. Ojdrovic	
Enid Water Treatment Plant Addresses Challenging Repair of 30-Inch Pipeline	761
Anna B. Pridmore, Mike Larsen, Murat Engindeniz, Rasko P. Ojdrovic, and Murali Katta	

Research

Qualitative Investigation of Microbially Induced Corrosion of Concrete in Sanitary Sewer Pipe and Manholes.....	768
Vinayak Kaushal, Mohammad Najafi, and Johnny Love	
Experimental Study and Numerical Simulation of Three-Edge Bearing Test of Large Diameter Prestressed Concrete Cylinder Pipes.....	776
Mehdi S. Zarghamee and Mohammadreza Moharrami	