

Monday, August 17, 2009						
7:00 am - 5:00 pm 7:00 am – 5:00 pm 7:30 am – 9:30 am 9:30 am – 10:00 am 9:30 am – 7:30 pm 10:00 am – 11:30 pm	Registration Speaker Ready Room Plenary Breakfast & Order of the Engineer Ceremony AM Networking Break Exhibit Hall Hours Technical Sessions					
	Track A Infrastructure Assessment/ Monitoring	Track B Infrastructure Assessment/Monitoring	Track C Construction	Track D Construction	Track E Design	Track F Planning
	Chair: Nathan Faber	Chair: Graham Bell	Chair: Rafael Ortega	Chair: Tim Kennedy	Chair: Steve Shumaker	Chair: Dave Chamberlain
	Session A-1	Session B-1	Session C-1	Session D-1	Session E-1	Session F-1
	Moderator: Nathan Faber	Moderator: Andy Romer	Moderator: Rafael Ortega	Moderator: Jason DeLaet	Moderator: Robert Card	Moderator: Ramiro Ojeda
	Acoustic Fiber Optic Monitoring, How it is Changing the Remaining Service Life of the Water Authority's Pipelines John Galleher Continuity Testing of the Rampart 54-Inch PCCP Raw Water Pipeline Lawrence Catalano Use of Acoustic Monitoring Data for PCCP Condition Assessment Graham Bell	Managing and Monitoring Internal Corrosion on Ductile Iron Pipe Force Mains Victoria Pilko Getting the Most Out of a Test Pit Program for the Preliminary Investigation on the Puerto Nuevo Effluent Pipeline Martha Santana Unique Cathodic Protection Design for the Expansion of the 500 Million Gallon per Day Trinity River Pump Station Jose Villalobos	A 144-inch-Diameter Composite Steel-and-Concrete Tunnel Liner Designed For External Heads Up to 1200 Feet Henry Bardakjian Lessons Learned from a 72-Inch Pipeline Reline in San Diego Jose Martinez Lake Tawakoni Water Supply Project, Engineer as Resident Representative— Learning the Differences Between Design and Construction David Bennett	Productivity Analysis of Horizontal Directional Drilling Tarek Zayed Advanced Horizontal Directional Drilling Technology for On-Grade Sewer Construction Projects David Jeong Pipe Ramming for Oil & Gas Pipeline Applications Collins Orton	Directional Drilling the World's Third Largest Airport Robert Fissel Improving Operations of Inoperable Valves Callie Patton An Asset Management Definition of Pipe Rehabilitation Success or Failure Wei Zhao	Pipeline Network Infrastructure: Will Technology Revolutionize the Water and Wastewater Industry? Dr. Jey Jeyapalan Comprehensive Approach to Facility Planning in San Diego County Scott Williams Choice of Pipeline Material: PVC or DI Using a Life Cycle Cost Analysis David McPherson
11:30 am – 1:00 pm 1:00 pm – 2:30 pm	Lunch Technical Sessions					
	Track A Infrastructure Assessment/ Monitoring	Track B Infrastructure Assessment/Monitoring	Track C Construction	Track D Construction	Track E Design	Track F Planning
	Session A-2	Session B-2	Session C-2	Session D-2	Session E-2	Session F-2

	Moderator: Doug Biglen	Moderator: Andy Romer	Moderator: Lindsey McAdams	Moderator: Kevin Brown	Moderator: Michael Middleton	Moderator: Christine Waters
	<p>Assessing 380km of PCCP Using Acoustic Monitoring—A Comparison of Technologies Adel Lenghi</p> <p>Unmanned RFTC Inspection of Large Diameter Pipe Allison Psutka</p> <p>Comparison of REF/TC and P-Wave Tests Performed on the Rampart 54-Inch PCCP Raw Water Pipeline Lawrence Catalano</p>	<p>New Findings in Hydrogen Sulfide Related Corrosion of Concrete Sewers Asbjørn Nielsen</p> <p>Phased and Focused Approach for Water Pipeline Corrosion Assessment Alison Ratliff</p> <p>Economic Considerations for Corrosion Control Strategies For Water Transmission Pipelines Ronald Bianchetti</p>	<p>SCOP—Managing Multiple Projects with Varying Project Elements & Conditions Maria Stosich</p> <p>Challenges in Designing and Constructing Water Importation Projects Roy Johnson</p> <p>Conflict Resolution: Unique Design Solves a Complex Sewer Issue in Phoenix Douglas Patriquin</p>	<p>Phoenix is bursting with More Capacity Blaine Robinson</p> <p>A New Approach to Trenchless Renewal of Culverts Diego Calderon</p> <p>Large-Diameter Static Pipe Bursting Solution for Replacement of Lined, Large-Diameter Ductile Iron Force Main Collins Orton</p>	<p>Nacimiento Water Project—Design and Hydraulics John Hollenbeck</p> <p>Eastern Municipal Water District—Water Facilities Master Plan Jessica Prince</p> <p>Predicting the Location and Duration of Transient Induced Low or Negative Pressures within a Large Water Distribution System Richard Svinland</p>	<p>Working Together—Case Study: Replacement of a Combined Force Main Serving Multiple Municipalities Joseph Strauch</p> <p>Planning—Baton Rouge, LA, Sanitary Sewer Overflow Program Charles Jenkins</p> <p>The Rail is Coming, The Rail is Coming: Shutting Down a City’s Lifeline Melissa Henderson</p>
2:30 pm – 3:00 pm	Break					
3:00 pm – 4:30 pm	Technical Sessions					
	Track A Infrastructure Assessment/Monitoring	Track B Infrastructure Assessment/Monitoring	Track C Construction	Track D Construction	Track E Design	Track F Planning
	Chair: Nathan Faber	Chair: Graham Bell	Chair: Rafael Ortega	Chair: Tim Kennedy	Chair: Steve Shumaker	Chair: Dave Chamberlain
	Session A-3	Session B-3	Session C-3	Session D-3	Session E-3	Session F-3
	Moderator: Brent Fountain	Moderator: Mark Holley	Moderator: Randy Randolph	Moderator: Kevin Brown	Moderator: Craig White	Moderator: Shirley Stodden
	<p>Large Scope PCCP Reliability Management Rudy Loera</p> <p>Insitu Strength and Condition Assessment</p>	<p>Comparison and analysis of water main performance models Hesham Osman</p> <p>Identifying Appropriate Means and Methods to</p>	<p>Application of Controlled Low Strength Materials for National Enrichment Facility, New Mexico Nash Hasan</p> <p>Design and Construction</p>	<p>Design of a Drop Shaft Pressurized Steel Liner to Connect Pipeline and Tunnel Segments of the Clean Water Coalition’s System Conveyance and Operations Program</p>	<p>Innovative Engineering of a Pipeline Through an Active Landslip Sandra Rolfe-Dickinson</p> <p>Pipeline Failure and Replacement in</p>	<p>Little Rock Wastewater Asset Valuation and Asset Management Development Project Elise DeGeorge</p> <p>Achieving Balanced</p>

	<p>of PCCP Pipe Concrete Paul Fisk</p> <p>Phased Condition Assessment Program for a Challenging Condition Assessment Project on a 13 mile, 36-inch PCCP Effluent Main Michael Higgins</p>	<p>Locate Subsurface Utilities during the Planning Phase of Transportation Projects Lewis Hutchins</p> <p>48-Inch Plant Effluent Pipeline: 12 Miles in 26 Days Bill Cheyne</p>	<p>of the Cat to Miller Reservoir Interconnect Pipeline Jessica Barbier</p> <p>Uniform Soil Groups for Pipe Installation Amster Howard</p>	<p>Effluent Interceptor Jerry Waugh</p> <p>Pipeline Network for Maximizing Sustainability of Buried Cable Infrastructure Lawrence Slavin</p> <p>Air Valve Sizing and Location: A Different Prospective David McPerson</p>	<p>Kazakhstan James Smith</p> <p>ASCE Transient Analysis Task Committee Scott Williams</p>	<p>Sustainable Triple Bottom Line Benefits In Pipeline Conveyance Projects David Conner</p> <p>Manufacturing Processes and Prototype Test Results for PressureCast™ Steel Pipe Qizhong Sheng</p>
5:00 pm – 7:00 pm	Welcome Reception					

Tuesday, August 18, 2009						
7:00 am – 5:00 pm	Registration					
7:00 am – 5:00 pm	Speaker Ready Room					
8:00 am – 9:30 am	Technical Sessions					
	Track A Infrastructure Assessment/ Monitoring	Track B Infrastructure Assessment/Monitoring	Track C Construction	Track D Construction	Track E Design	Track F Planning
	Chair: Nathan Faber	Chair: Graham Bell	Chair: Rafael Ortega	Chair: Tim Kennedy	Chair: Steve Shumaker	Chair: Dave Chamberlain
	Session A-4	Session B-4	Session C-4	Session D-4	Session E-4	Session F-4
	Moderator: John Plattsmier	Moderator: Mark Holley	Moderator: Rafael Ortega	Moderator: Jim Tully	Moderator: Tom Charles	Moderator: Rika Evans
	Video and Sonar Inspection Guides Rehabilitation of the Coronado Transbay Sewer Force Main Carina Theissen Coming Down the Pipeline: Asset Management of PCCP Conveyance Systems Roberts McMullin Liquid Assets: The Story of Our Water Infrastructure System Sunil Sinha	Simplified GIS for Water Pipeline Management Mike Garaci Wastewater System Data Conversion and Update, City of La Mesa Melisa Caric Web-Based Standard GIS Data Model for Water and Wastewater Utilities Rahul Vemulapally	The Emerging Use of Plastic (HDPE) Pipe in Dynamic Municipal Water Systems and Trenchless Technologies for Improved Infrastructure Performance Bruce Kuffer O'Hare Hot Tap Robert Lewis Keeping Water and Traffic Flowing During Replacement of a Critical Regional Pipeline Aneld Anub	Improved Design Approach for Buried Flexible Pipe Teruhisa Masada Line Stopping for Line Valve Installations on 55 Year Old Aqueduct Brett Gray Design and Application of Steel Ring Flanges J. Green	New Construction Verification by Measured Ovality Wayne Brown One Agency's Perspective on a Change from Steel to Plastic Pipe Robert Beamer Do the Math—Spiral Welded Pipe is a Good Bet Christian Sundberg	Long-Range Planning: Key to Successful Pipeline Capital Programs, Maintenance, and Regulatory Karyn Keese Enhanced Condition Assessment Methodologies of Buried Sewerage Infrastructure Ahad Ali Rehabilitation of a 100 Year Old Non-Circular Brick Sewer for City of Los Angeles, CA—Challenges and Lessons Learned Vamsi Seeta
9:30 am – 10:00 am	AM Networking Break					
9:30 am – 3:30 pm	Exhibit Hall Hours					
10:00 am – 11:30 am	Technical Session					
	Track A Infrastructure Assessment/ Monitoring	Track B Infrastructure Assessment/Monitoring	Track C Construction	Track D Construction	Track E Design	Track F Planning
	Chair: Nathan Faber	Chair: Graham Bell	Chair: Rafael Ortega	Chair: Tim Kennedy	Chair: Steve Shumaker	Chair: Dave Chamberlain

	Session A-5	Session B-5	Session C-5	Session D-5	Session E-5	Session F-5
	Moderator: Miguel Valenzuela	Moderator: Eric Frechette	Moderator: Brad Richards	Moderator: Jim Tully	Moderator: Sri Rajah	Moderator: Todd Engstrand
	<p>The Need to Proceed <i>James Crook</i></p> <p>96-Inch Sewer Replacement or Renewal—A Case History <i>Terry McArthur</i></p> <p>San Juan, Miramar, and Baldorioty Trunk Sewer Inspection and Cleaning and Assessment <i>Martha Santana</i></p>	<p>Condition Assessment Challenges in a Mountain Canyon <i>Bryon Livingston</i></p> <p>Condition Assessment and Repair of a 40 Year Old Aqueduct <i>Rasko Ojdrovic</i></p> <p>Force Main Assessment in Dallas Water Utilities <i>Chris Kaakaty</i></p>	<p>Solid Can Slip Lining of Phoenix’s Superior Waterline <i>Michael Ambroziak</i></p> <p>Cured-in-Place Piping: The Question of External Point Repairs <i>Barbara Melcher</i></p> <p>Implementing a Successful I&I Removal Program in Fort Lauderdale <i>Walt Schwarz</i></p>	<p>Determining the Economic Viability of Horizontal Directional Drilling <i>Collins Orton</i></p> <p>Composite E Prime <i>Amster Howard</i></p> <p>Designing a Successful Trenchless Underground Construction Project <i>Arvid III Veidmark</i></p>	<p>Welded Steel Pipe Lap Joints—An Evolution <i>John Bambei</i></p> <p>Corrosion Control Characteristics of Low Density Cellular Concrete Grout for Final Steel Liners for Tunnels <i>Graham Bell</i></p> <p>Performance of Pipes During Earthquakes <i>Camille Rubeiz</i></p>	<p>Water Main Rehabilitation and Replacement: Developing and Using a Dynamic Prioritization Tool <i>Larry Mitchell</i></p> <p>Case Study of the Mountain Creek Interceptor: How Slope Recovery and Bold Realignment Saved the Trinity River Authority Millions <i>Mark Mihm</i></p> <p>Working Under Pressure <i>Cyril Rajan</i></p>
11:30 am – 1:00 pm	Awards Lunch/ Bechtel Lecture					
1:00 pm – 2:30 pm	Technical Sessions					
	Track A Infrastructure Assessment/Monitoring	Track B Infrastructure Assessment/Monitoring	Track C Construction	Track D Construction	Track E Design	Track F Planning
	Chair: Nathan Faber	Chair: Graham Bell	Chair: Rafael Ortega	Chair: Tim Kennedy	Chair: Steve Shumaker	Chair: Dave Chamberlain
	Session A-6	Session B-6	Session C-6	Session D-6	Session E-6	Session F-6
	Moderator: Joe Castronovo	Moderator: Eric Frechette	Moderator: Dean Estoll	Moderator: Rick Deremiah	Moderator: David Yankovich	Moderator: Steve Simon
	<p>Proper Inspection Prevents Pipeline Failures <i>Kenneth Kienow</i></p> <p>Several Failures of a 16-inch PVC Transmission Main within 12 Years <i>Robert Beamer</i></p> <p>Lessons from Condition Assessment Tools and Transporters toward a</p>	<p>Precise Leak Detection Technology for Assessing the Condition of Bulk Water Pipelines in South Africa <i>Mark Webb</i></p> <p>Strategic Leak Detection Program Implemented by the Sewerage and Water Board of New Orleans <i>Rudy August</i></p>	<p>Annular Flow in Lined Pipelines <i>Veyssel Sever</i></p> <p>Experimental and Numerical Examination of Polyurethane Spray-On Coating in Pressure Pipe Applications <i>Erez Allouche</i></p> <p>Horizontal Directional Drilling Pipeline Design</p>	<p>White Paper on Thrust Restraint Design of Buried Pipelines Part 1—Current Practice <i>Stephen Shumaker</i></p> <p>White Paper on Thrust Restraint Design of Buried Pipelines, Part 2—Historical Development <i>K. Sri Rajah</i></p> <p>White Paper on Thrust</p>	<p>Successfully Addressing Regulatory Requirements for Linear Projects: Highlights from the Aurora Water Prairie Waters Project <i>Tara Corbett</i></p> <p>Assessment of Economic Risk in the Repair and Replacement of Prestressed Concrete Cylinder Pipe Used in the</p>	<p>Level of Service Based Methodology for Municipal Corridor Rehabilitation <i>Zafar Khan</i></p> <p>Feasibility Study of a Regional Concentrate Conveyance Facility in San Diego <i>Carla Duncan</i></p> <p>Bidding Strategies Help</p>

	Better Future for Pipeline Asset Management <i>Dr. Jey Jeyapalan</i>	Application of Advanced Leak Detection Technologies in Portugal <i>Andrew Donnelly</i>	and QA/QC using the BOREAID Software Program <i>Mark Knight</i>	Restraint Design of Buried Pipelines, Part 3—Roadmap for Unified Approach <i>Michael Fleury</i>	Circulating Water System at Great River Energy's Coal Creek Station <i>Jacob Sauer</i> Assessing the Risk of Water Utility Pipeline Failures Using Spatial Risk Analysis <i>Robin Magelky</i>	Manage Construction Budgets: A Case Study of the Nacimiento Water Project <i>Thomas Trott</i>
2:30 pm – 3:00 pm 3:00 pm – 4:30 pm	PM Networking Break Technical Sessions					
	Track A Infrastructure Assessment/Monitoring	Track B Infrastructure Assessment/Monitoring	Track C Construction	Track D Construction	Track E Design	Track F Planning
	Chair: Nathan Faber	Chair: Graham Bell	Chair: Rafael Ortega	Chair: Tim Kennedy	Chair: Steve Shumaker	Chair: Dave Chamberlain
	Session A-7	Session B-7	Session C-7	Session D-7	Session E-7	Session F-7
	Moderator: Miguel Valenzuela	Moderator: Steve Fox	Moderator: Darrin Francom	Moderator: Rick Deremiah	Moderator: Bill Landin	Moderator: James Strayer
	Integrated Conveyance Condition Assessment Techniques Support Asset Management and Capacity Driven Projects <i>Reggie Rowe</i> Condition Assessment for Aging Water Transmission Pipeline and Implementation of Replacement Priorities <i>Stephen Romney</i> Evaluation of Non-Destructive Methods for Condition Assessment of Culverts and Their Embedment <i>Chenguang Yang</i>	Evaluating In-Service Force Mains with Air Pocket and Leak Detection Technology <i>Christine Carroll</i> Acoustic Correlation Methods for Locating Leaks in Trunk Mains <i>Marc Bracken</i> Leak Detection Survey for a Large Diameter Water Transmission Main—City of Calgary <i>Blair Dancer</i>	Use of Plastic (HDPE) Pipe for Water Main Projects is Growing....Solving Problems, Changing Attitudes, Saving Money, and Even Creating Local Heroes!!! <i>Bruce Kuffer</i> Trenchless Rehabilitation of a 16-Inch PVC Recycled Pipeline <i>Shonna Sommer</i> Field Validation of Installation Loads on Horizontal Directionally Drilled Fusible PVC Pipe <i>Samuel Ariaratnam</i>	Carmel Valley Trunk Sewer—Overcoming Obstacles in Infrastructure Replacement <i>James Strayer</i> Effectiveness of Thermal Stress Control Practices in the Performance of Buried Welded Steel Pipelines <i>K. Sri Rajah</i> A Review on Scouring Modeling below Pipelines <i>Jie Zhang</i>	Strategy for Protecting Aqueducts in the Sacramento-San Joaquin Delta <i>William Cain</i> Return on Experience on Tucson's Pipe Risk Management System <i>Benoit Kroely</i> East Bay Municipal Utility Districts Aqueduct System in the Sacramento San-Joaquin Delta: A Hazard Evaluation and Risk Assessment <i>Yogesh Prashar</i>	Improving Project Cost Estimates: A Key to Budgeting <i>Lindsey McAdams</i> Planning a Sanitary Sewer Trunk Line While Trying to Protect a Forest Preserve <i>Adam Maughn</i> Introducing PressureCast™ Steel Pipe—A New Combination of Proven Materials and Designs <i>Richard Mueller</i>
6:00 pm – 10:00 pm	Special Event: USS Midway					

Wednesday, August 19, 2009						
7:00 am – 12:00 pm 7:00 am – 12:00 pm	Registration Speaker Ready Room					
8:00 am – 9:30 am	Technical Session					
	Track A Infrastructure Assessment/ Monitoring	Track B Infrastructure Assessment/Monitoring	Track C Construction	Track D Construction	Track E Design	Track F Planning
	Chair: Nathan Faber	Chair: Graham Bell	Chair: Rafael Ortega	Chair: Tim Kennedy	Chair: Steve Shumaker	Chair: Dave Chamberlain
	Session A-8	Session B-8	Session C-8	Session D-8	Session E-8	Session F-8
	Moderator: Mike Fleury	Moderator: Steve Fox	Moderator: Bob Card	Moderator: Tim Kennedy	Moderator: Luis Leon	Moderator: Scott Williams
	Key Elements in a Successful Sewer and Inspection Assessment Program, City of La Mesa Jennifer Chen In-Service Inspection of Wastewater Force Mains Henry Derr Assessment of Buried Pipeline Performance During the 1999 Duzce Earthquake, Turkey Ali Anil Yunatci	Leak Detection Management of Allentown's 100 Year-Old Transmission Main Christine Carroll Permanent Leak Detection on Pipes using a Fiber Optic Based Continuous Sensor Technology Marc Bracken Condition Assessment of Existing 35 Year Old 54 and 78 Inch Steel Suction Piping at the 500 Million Gallon per Day Trinity River Pump Station Jose Villalobos	Rehabilitation of Existing 120-inch Corrugated Metal Storm Sewer Trunk Line Temple Williamson Collapse of an 8-Foot Diameter Sewer in Leeds John Borwick Construction Challenges for an 84-Inch Pipeline Alan Hutson	The Weber River Outfall: A Case Study in Concrete Pipe with Custom Cross Sections William Elledge Pipelines Hanging From Bridges—Unique Problems to Overcome, Unique Solutions to Construct Robert Carley New Haven Harbor's Twin Force Main Crossing Mario Rizzozi	Active Pipeline Encroachment Detector Using Wireless Sensor Networks Leslie Olson Development of Predictability and Preventability Indices for Pipe Failure Rajyalakshmi Kola Risk Management Contract Strategies for Large Diameter Deep Pipelines Michael Schultz	OUC Project RENEW—A Reuse Pipeline Routing Analysis Glen Partlow TTWorld: A Web-Portal for Assessing the Suitability of Trenchless Construction Methods for Utility Projects and Associated Social Cost Savings John Matthews Vacuum Sewer Systems—A Viable Alternative for Wastewater Collection? Jorge Camacho
8:00 am – 5:00 pm 9:30 am – 10:00 am 10:00 am – 11:30 am	EXCOM & Committee Meetings AM Networking Break Technical Session					
	Track A Infrastructure	Track B Infrastructure	Track C Construction	Track D Construction	Track E Design	Track F Planning

	Assessment/ Monitoring	Assessment/Monitoring				
	Chair: Nathan Faber	Chair: Graham Bell	Chair: Rafael Ortega	Chair: Tim Kennedy	Chair: Steve Shumaker	Chair: Dave Chamberlain
	Session A-9	Session B-9	Session C-9	Session D-9	Session E-9	Session F-9
	Moderator: Mike Fleury	Moderator: Myron Shenkiryk	Moderator: John Hair	Moderator: Tim Kennedy	Moderator: Bruce Corwin	Moderator: LuAnn McVicker
	Acoustic Methods for Determining Remaining Pipe Wall Thickness in Asbestos Cement, and Ferrous Pipes Marc Bracken Asbestos Cement Water Main in North America Yafei Hu Sewer Sociology—San Diego Metropolitan Area Kevin Enfinger				Community Empowerment Through Development of Locally Sustainable Drinking Water Sources Gerard Dalziel Refurbishment of the Thirlmere Aqueduct Ian Armitage Asset Valuation Methodology for Water and Wastewater Pipes Taeil Park	
11:30 am	Conclusion of the Conference					
12:00 pm – 6:00 pm	Riverwalk – Golf Club Outing (Optional)					