CONFERENCE PROGRAM

Tuesday, February 19

5:00 Exhibition open, Welcome reception sponsored by ROSEN USA

1.0 Plenary opening session Chair: George Williamson, BP, Houston, TX, USA		
[1] Managing complexity through collaboration will need the industry to move from a proactive to a predictive mindset		
by Chris Yoxall, ROSEN USA, Houston, TX, USA		
[2] Achieving and demonstrating pipeline engineering capability: the role of competency standards, and their use for qualifications and registration by Chris Harvey, Chris Harvey Consulting, Australia		
[3] Assessing the competence of staff by Michelle Unger, ROSEN Group, Stans, Switzerland, and Dr Phil Hopkins, Phil Hopkins Ltd, Whitley Bay, UK		
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CONFERENCE PROGRAM (cont'd)

5:00	[11] Challenges associated with pit-to-pit matching (or how to know when corrosion is taking place) by Dr Tom Bubenik, Steven Polasik, and Zach Booth, DNV GL, Dublin, OH, USA, and Justin Harkrader, Colonial Pipeline Company, USA	[32] Risk-based approach to inspection interval optimization by David Joyal, Dr Ken Oliphant, and Patrick Vibien, Jana Corporation, Aurora, ON, Canada	API 1183 Upcoming dent assessment and management recommended practice by Mark Piazza, Colonial Pipeline Co, Alpharetta, GA, USA Q&A
5:30	End of day, Exhibition Reception sponsored by Intero Integrity Services		

Thursday, February 21			
	5.2 ILI analysis <i>(cont'd)</i> Chair: Roland Palmer-Jones, ROSEN Group, Newcastle upon Tyne, UK	6.1 Engineering assessment Chair: Ian Smith, ID Smith Pipeline Engineering, London, ON, Canada	7.1 Materials Chair: Dr Phil Hopkins, Phil Hopkins Ltd, Whitley Bay, UK
8:00	[12] Analysis of factors which reduce MFL sizing accuracy of pinholes by Guy Desjardins and Joel Falk, Desjardins Integrity Ltd, Calgary, AB, Canada	[33] Realistic burst pressure predictions in pipelines with non-ideal crack profiles by Dr Ted Anderson, TL Anderson Consulting, Longmont, CO, USA	[50] Nondestructive testing of pipeline materials: Analysis of chemical composition from metal filings by Mary Louie, Dr Monty Liong and Nathan Switzner Exponent, Menlo Park, CA, USA, Dr Peter Veloo, Exponent, Los Angeles, CA, USA, Bill Amend and Melissa Gould, DNV GL USA (Inc.), Dublin, OH, USA and Troy Rovella and Dr Peter Martin, PG&E, Walnut Creek, CA, USA
8:30	[13] Advancing ILI technology and pipeline risk management through advanced analytics of big data by Geoff Hurd, Jeff Sutherland, and John Elliott, BHGE, Calgary, AB, Canada, and Steve Farnie, BHGE, Houston, TX, USA	[34] Evaluation of limitations and applicability of stress concentration factors for use in engineering critical assessments of dents by Shanshan Wu, Dr Tom Bubenik, Joe Bratton, and David Kemp, DNV GL USA (Inc.), Dublin, OH, USA	[51] Nondestructive classification of LF, HF, and HF-normalized electric-resistance-welded (ERW) longitudinal seams by Dr Steven Palkovic, Parth Patel, Soheil Safari Loaliyan, Mohammad Islam, and Dr Simon Bellemare, MMT, Cambridge, MA, USA
9:00	[14] The good the bad and the ugly: Categorizing pipelines using big data techniques by Roland Palmer-Jones, Erika Santana, Konstantinos Pesinis, Matthew Capewell and Michael Smith, ROSEN Group, Newcastle upon Tyne, UK	[35] Nondestructive examination protocols for MAOP verification of station pipe by Simon Lockyer-Bratton, Dr Peter Veloo, Exponent, Los Angeles, CA, Mary Louie, Exponent, Menlo Park, CA, USA, Mark Ryan, Michael Rosenfeld, Kiefner & Associates, Columbus, OH, USA, and Troy Rovella, PG&E, Walnut Creek, CA, USA	[52] Bayesian inference approach to establish sample size for material verification by Troy Rovella, PG&E, Walnut Creek, CA, USA, Joel Anderson, Enable Midstream, Oklahoma City, OK, USA, Kofi Inkabi, Exponent, Oakland, CA, USA, and Dr Peter Veloo, Exponent, Los Angeles, CA, USA
9:30	Coffee		
	5.3 ILI verification Chair: Bryan Melan, Tide Water Integrity LLC, Houston, TX, USA	6.2 Engineering assessment <i>(cont'd)</i> Chair: Garry Matocha, Enbridge, Houston, TX, USA	8.1 Cracks & seam welds Chair: Tom Bubenik, DNV GL, Dublin, OH, USA
10:30	[15] Validation of computed tomography technology for pipeline inspection by Mark Piazza, Colonial Pipeline Co, Alpharetta, GA, USA, Timothy Burns and Taylor Shie, Shell Pipeline Co, Houston, TX, USA, and James Medford, Inspection Associates, Inc., Cypress, TX, USA	[36] Leveraging ILI data to support ancillary asset integrity tasks by Lisa Barkdull, Quest Integrity, Houston, TX, USA and LeeAnn Escobar, Shell Pipeline Co., Houston, TX, USA	[53] Improved system for the detection, sizing and prioritization of seam weld corrosion by Matthew Romney, T.D. Williamson, Salt Lake City, UT, USA and J Bruce Nestleroth and Dr Barry Hindin, Kiefner & Associates, Columbus, OH, USA
11:00	[16] Guidance for interacting corrosion features reported by ILI by Lucinda Smart, Kiefner & Associates, Inc., Ames, IO, USA, Yanping Li, Enbridge, Edmonton, AB, Canada, J Bruce Nestleroth, Kiefner & Associates, Inc. Columbus, OH, USA, and Suzanne Ward, Enbridge, Edmonton, AB, Canada	[37] Reliability-based criteria for corrosion assessment by Riski Adianto, Maher Nessim, and Dongliang Lu, C-FER Technologies, Edmonton, AB, Canada, and Shahani Kariyawasam, and Terry Huang, TransCanada PipeLines, Calgary, AB, Canada	[54] High resolution inspections for crack detection: The next level of accuracy by Rogelio Jesus Guajardo Rodriguez and Thomas Hennig, NDT Global GmbH & Co KG, Stutensee, Germany
11:30	[17] Use of NDE data in correlation with MFL data to refine neural network sizing algorithms by Jenny Jing Chen, Ron Ostafichuk and Dr Stephen Westwood, Onstream Pipeline Inspection, Inc., Calgary, AB, CANADA	[38] Equivalent load fatigue: An efficient modification to the familiar Paris equation by Stephen Wood and Alfonso Garcia, Enbridge, Edmonton, AB, Canada	[55] EMAT device for small diameter unpiggable gas pipelines by Clay Goudy, Q-Inline, Houston, TX, USA and Harprasad Kannajosyula, Milton Altenberg and Phil Bondurant, Quest Integrated, Kent WA, USA

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12:00	[18] Location and validation of metal loss defects identified by ILI by Dr Michael Beller, ROSEN Group, Lingen, Germany, Gordon Reid, Sonomatic, Abu Dhabi, UAE, and Dr Roger King, International Corrosion Services, Manchester, UK	[39] Technical background of a simplified process for conducting ECA of indicated pipeline indentations with metal loss by Dr Fan Zhang, Michael J Rosenfield, Kiefner & Associates, Columbus, OH, USA	[56] Common pitfalls to avoid when managing seam-weld integrity by Michael Turnquist, Quest Integrity, Boulder, CO, USA
12:30	Lunch		
	5.4 ILI verification <i>(cont'd)</i> Chair: Tara McMahan, DNV GL, Dublin, OH, USA	9.1 Hydrostatic testing <i>(cont'd)</i> Chair: Gary Zunkel, BlueFin, New Iberia, LA, USA	8.2 Cracks & seam welds (cont'd) Chair: Rick Wang, TransCanada, Calgary, AB, Canada
2:00	[19] A comprehensive approach to inline inspection verification using API Standard 1163 by Chad Haegelin and Joel Lindstrom, Integrity Solutions Ltd, San Antonio, TX, USA	[40] Hydrotesting and ILI: Now and in the future by Dr Mike Kirkwood, TD Williamson, Dubai, UAE, and Jerry Rau, RCP, Houston, TX, USA	[57] An investigation into the impacts of integrity assessment efforts for pipelines with cracking threats by Tara McMahan, Eric Graf, and Dr Thomas Bubenik, DNV GL, Dublin, OH, USA
2:30	[20] Run comparison as a solution to incomplete ILI data and as an alternative to re-inspection of a challenging pipeline by Toh Kai Xin, Quest Integrity, Cheras, Malaysia	[41] A practicum on pressure testing: Compilation of best practices by Sheri Baucom and Jerry Rau, RCP, Houston, TX, USA	[58] Screening for long seam anomalies in ERW pipe using ultrasonic crack ILI data: a method for pipeline operators to unlock the value of their data by Bernardo Cuervo and Mark McQueen, G2 Integrated Solutions, Houston, TX, USA
3:00	Coffee (Marriott)		
	11.1 Repair Chair: Bill Bruce, DNV GL, Columbus, Ohio, USA	12.1 Leak Detection I Chair: Everett Johnson, Marathon Oil Co, Houston, TX, USA	13.1 Mechanical damage Chair: Jerry Rau, RCP, Houston, TX, USA
3:30	[21] Composite repairs – what does 'permanent' mean? by Casey Whalen and Aleese Post, Milliken Pipe Wrap, Houston, TX, USA	[42] The challenge of implementing and maintaining CPM leak detection on gathering networks by Peter Han, Atmos International, San Antonio, TX, USA	[59] Assessment of mechanical damage within dented pipe using multi-data ILI technology by Luis Torres and Neil Hodson, Enbridge Pipelines, Edmonton, AB, Canada, Kaitlyn Korol, Imperial Oil, Canada, and James Simek, T.D. Williamson, USA
4:00	[22] Full-scale finite element analysis and field success prove composite reinforcement is a viable repair for girth weld joint defects on vintage pipelines by Buddy Powers, Tim Mally, and Mahdi Kiani, ClockSpring, Houston, TX, USA	[43] Pipeline leak detection using tracer compounds and sledding techniques by lan Harris, Praxair Services, Inc., Tucson, AZ, USA	[60] An evaluation of instrumented indentation testing to estimate yield and tensile strength by Mary Louie, Exponent, Menlo Park, CA, USA, Dr Jeffrey A Kornuta, Exponent, Houston, TX, USA, Dr Peter Veloo, Exponent, Los Angeles, CA, USA, Troy Rovella, and Dr Peter Martin PG&E, Walnut Creek, CA, USA
4:30	End of day	1	<u> </u>

Friday, F	Friday, February 22			
	11.2 Repair <i>(cont'd)</i> Chair: Bill Bruce, DNV GL, Columbus, OH, USA	14.1 Data management Chair: Trevor MacFarlane, Dynamic Risk Assessment Systems, Calgary, AB, Canada	13.2 Mechanical damage <i>(cont'd)</i> Chair: Andrew Cosham, Ninth Planet Engineering, Newcastle, UK	
8:00	[23] Evaluating the performance of composite systems for reinforcing non-leaking crack-like defects in transmission pipelines by Colton Sheets and Chantz Denowh, Stress Engineering Services, Houston, TX, USA	[44] Practical application of machine learning methods to ILI data by Michael Gloven, Expert Infrastructure Solutions, Inc., Denver, CO, USA		
8:30	[24] Predictive modeling for shrink sleeve failure using machine learning by Matthew Brown, Lake Superior Consulting, Duluth, MN, USA	[45] Enhanced utilization of ILI inertial measurement data by Dane Burden, T.D. Williamson, Salt Lake City, UT, USA	[62] Gouge detection on dents below 1% depth with multiple data set technologies on an ILI tool by Timothy Goller and Adrian Belanger, T.D. Williamson, Salt Lake City, UT, USA	
9:00	[25] Steel sleeves: a new look at a widely-used repair method by Dr Chris Alexander, ADV Integrity, Inc., Magnolia, TX, Tommy Precht, Allan Edwards, Lake Charles, LA, and Chip Edwards, Allan Edwards, Tulsa, OK	[46] Enabling the digital pipeline by Steve Banks and Richard Smith, i2i Pipelines, Manchester, UK	[63] Detailed dent assessment: Avoiding the pitfalls by Aaron Lockey, Tim Turner, and Susannah Turner, Highgrade Associates Ltd, Newcastle upon Tyne, UK	
9:30	Coffee			

CONFERENCE PROGRAM (cont'd)

	12.2 Leak detection II Chair: Garry Matocha, Enbridge, Houston, TX, USA	14.2 Data management <i>(cont'd)</i> Chair: Everett Johnson, Marathon Oil Co, Houston, TX, USA	15.1 SCC Chair: Tom Bubenik, DNV GL, Dublin, OH, USA
10:00	[26] Leak detection and prevention using free-floating in-line sensors by Joel Smith, David Ham, Anouk van Pol and John van Pol, Ingu Solutions, Calgary, AB, Canada	[47] The challenges of keeping integrity management systems relevant by Dr Sonny Llave, Pradeep Dhoorjaty, and Danny Golczynski, Wood Group, Houston, TX, USA	[64] The detection and sizing of circumferentially oriented stress corrosion cracking using axially oriented magnetic flux leakage inspection by Ron Thompson and Jim Hare, Novitech, Inc., Vaughan, ON, Canada, and Ray Gardner and Katrina Dwyer, Xcel Energy, CO, USA
10:30	[27] Development of a framework for evaluating and verifying external leak detection systems for pipelines by Mathew Bussiere, C-FER Technologies Inc., Edmonton, AB, Canada	[48] Swimming in the data lake: Efficient pipeline data records discrepancy analysis and management by Michael Smith, Sam Acheson and Simon Slater, ROSEN USA, Houston, TX, USA and Ollie Burkinshaw, ROSEN Group, Newcastle, UK	[65] An approach for evaluating the susceptibility of a pipeline to circumferential SCC by Jane Dawson and Ian Murray, BHGE, Cramlington, UK
11:00		[49] Leveraging machine learning techniques to improve corrosion risk prediction in pipelines by Ramnath Easwar, Abhinav Priyadarshi, Andreas Gaarder, Jay Karen William, and Vijaytha Balaji, Wood Group, Houston, TX, USA	[66] Full-scale testing of SCC in high frequency-ERW pipe with comparisons of inspection techniques to actual flaw measurements by Colton Sheets, Stress Engineering Services, Houston, TX, USA
11:30	End of conference		