

**Pipeline Pigging & Integrity Management Conference
Technical Program – March 1-2, 2017**

| Wednesday, March 1 | | | |
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| | <i>Chairman: Pat Vieth, Past-Chair, ASME Pipeline Systems Division, and Board Chair, Young Pipeline Professionals USA, Inc.</i> | | |
| 8:00 | Introduction | | |
| 8:30 | [1] The American pipeline dilemma: how we got there and a partial prescription for moving forward, by Jeff Wiese , TRC Solutions, Reston, VA, USA | | |
| 9:00 | [2] A qualification route map for the pipeline industry, by Michelle Unger , Rosen Group, Newcastle upon Tyne, UK, and Dr Phil Hopkins , PHL, Whitley Bay, UK | | |
| 9:30 | [3] Closing the generational gap, by Jerry Rau , RCP, Inc., Houston, TX, USA, and Jane Rau , JTrain Inc., Houston, TX, USA | | |
| 10:00 | Coffee | | |
| 11:00 | [4] Preparing to transfer and accept the duty of care, by Chris Yoxall , Rosen Group, Houston, TX, USA, and Eric Lang , Enbridge Energy Partners, Houston, TX, USA | | |
| 11:30 | [5] Developing a new pipeline management system from scratch, by James Kenny , Stantec Consulting, Calgary, AB, Canada | | |
| 12:00 | [6] ALARP and zero leak tolerance - applications for the pipeline industry, by Phillip Nidd , Dynamic Risk, The Woodlands, TX, USA | | |
| 12:30 | Lunch | | |
| | SESSION 1 | SESSION 2 | SESSION 3 |
| | <i>Chairman: Everett Johnson, Marathon Oil Company, Kenedy, TX, USA</i> | <i>Chairman: George Williamson, BP, Houston, TX, USA</i> | <i>Chairman: Terry Shamblin, EQT Midstream, Pittsburgh, PA, USA</i> |
| | Materials & testing | Regulations & best practice | Integrity assessment & management |
| 2:00 | [7] Human-centric approach to improve pipeline NDE, by Patrick McCormack , Battelle Memorial Institute, Columbus, OH, USA | [21] The Liquid and Gas Mega Rules - pigs in a poke?, by John Jacobi , G2 Integrated Solutions, Houston, TX, USA | [36] Pipeline integrity management: program or system? The key to success, by Enrique Acuña , Dandilion Ingeniería Ltda, Santiago, Chile |
| 2:30 | [8] | [22] A change in paradigm.... TVC will be process and not a project in the future, by Amy Jo McKean , TRC, Kansas City, MO, USA, and Rich Henry , TRC, Englewood, CO, USA | [37] A review of pipeline defectassessment methods: <i>Pipeline DefectAssessment Manual</i> , 2nd Edition, by Susannah Turner , Penspen Ltd, Newcastle upon Tyne, UK |

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| 3:00 | [9] Comprehensive NDE technology assessment for LFERW seam anomalies, by Jennifer O'Brien , Battelle Memorial Institute, Columbus, OH, USA, and Pushendra Tomar and J. Bruce Nestleroth , Kiefner & Assocs, Columbus, OH, USA | [23] Effectively assessing the piggability of pipelines – an innovative approach, by Stefan Vages , Rosen Group, Calgary, AB, Canada | [38] Probabilistic determination of pipe grade, by Michael Rosenfeld and Dr Jing Ma , Kiefner & Assocs, Columbus, OH, USA |
| 3:30 | Coffee | | |
| 4:30 | [10] ILI and NDE characterization of pipeline manufacturing flaws and confirmation through full-scale testing, by David Futch , Ronald W. Scrivner , and Rhett L. Dotson , Stress Engineering, Houston, TX, USA, and Andrew Pulsifer , Enable Midstream Partners, Houston, TX, USA | <p style="text-align: center;">Cracks & leaks</p> [24] Managing the seam-weld crack threat: common pitfalls and recent progress, by Dr Ted Anderson , TL Anderson Consulting, Longmont, CO, USA, and Gregory Brown , Quest Integrity, USA, Boulder, CO, USA | [39] On-site visits provide proven costreduction and value for uninspected pipelines, by Geert Bontekoe and Laurie Todd , Quest Integrity Group, Stafford, TX, USA |
| 5:00 | [11] In-ditch materials verification methods and equipment for steel strength and toughness, by Dr Simon C. Bellemare , Steven D. Palkovic , and Kotaro Taniguchi , Massachusetts Materials Technologies, Cambridge, MA, USA | [25] A case study on circumferentialcrack detection, by Dr Thomas Hennig , NDT Global Corporate Ltd, Dublin, Ireland, Mark Brimacombe , Pembina Pipeline Corporation, Calgary, AB, Canada, and Cory Wargacky , NDT Global Corporate Ltd, Dublin, Ireland | [40] The use of PGS ILI technology and <i>Pipeline DNA</i> process to determine the populations of undocumented pipeline sections, by Christopher De Leon , Simon Slater , Thomas Eiken , and Daniel Molenda , Rosen Group, Houston, TX, USA |
| 5:30 | End of day, Exhibition reception | | |

| Thursday, March 2 | | | |
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| | SESSION 4 | SESSION 5 | SESSION 6 |
| | <i>Chairman: Roland Palmer-Jones</i> , Rosen Group, Newcastle upon Tyne, UK | <i>Chairman: Dr Tom Bubenik</i> , DNV GL, Dublin, OH, USA | <i>Chairman: Jerry Rau</i> , RCP, Inc, Houston, TX, USA |
| 8:00 | [12] Non-destructive testing to meet materials verification requirements, by Hamood Rehman , G2 Integrated Solutions, Houston, TX, USA | [26] Engineering-critical assessment for cracks in pipelines, by Andrew Russell , Dr Bob Andrews , Angus Patterson , and Michael Palmer , Rosen Group, Newcastle upon Tyne, UK | [41] Velocity independent sizing of axial planar anomalies using oblique magnetization, by Adrian Belanger , James Simek , and Dane Burden , TD Williamson, Inc., Houston, TX, USA |
| 8:30 | [13] Collective effects of leakage, temperature changes, and entrapped air during hydrostatic testing, by Dr Lawrence Matta , Stress Engineering Services, Houston, TX, USA | [27] The impact of crack profiles on pipeline integrity: advancing assessments with new ILI capabilities, by Jennifer O'Brien , Battelle Memorial Institute, Columbus, OH, USA, Sean Moran , TD Williamson, Tulsa, OK, USA, and Dr Mike Kirkwood , TD Williamson, Dubai, UAE | [42] Inspecting and managing a pipeline with internal surface roughness due to top-of-the-line CO ₂ corrosion: a case study, by Kai Xin Toh , Quest Integrity Group, Stafford, TX, USA |
| 9:00 | [14] Practical considerations for minimizing hydrostatic-test failures, by Gary Zunkel , Rachel Sorrentino , and Megan Halver , Lake Superior Consulting, Bloomington, MN, USA | [28] The need for pinhole leak detection: a comparison of different technologies and the professional approach with ATEX-certified leak detection pigs, by Rene Landstorfer , Gottsberg Leak Detection GmbH & Co KG, Oststeinbek, Germany | [43] Managing the threat from weather and outside force using ILI, by Jane Dawson and Ian Murray , PII Pipeline Solutions, Cramlington, UK |
| 9:30 | Coffee | | |

| | Hardware | ILI tool performance | |
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| 10:30 | [15] Multiple functions of automated pigging systems, by David Wint , Audubon Field Solutions, and Roxy Mounter , WeldFit Energy Group, Houston, TX, USA | [29] Evaluating ILI tool performance using a validation process, by Dr Yanping Li , Gordon Fredine , Yvan Hubert , Vasily Vorontsov , Janine Woo , and Sherif Hassanien , Enbridge Pipelines, Inc., Edmonton, AB, Canada | [44] Avoiding future pipeline failures by detecting, identifying, and prioritizing mechanical damage, by Chuck Harris , TD Williamson, Inc., Houston, TX, USA |
| 11:00 | [16] Quick-opening closures, by Jack Lollis , Kyle Corriveau , Jesse Green , and Larry Payne , Pipeline Equipment, Inc., Tulsa, OK, USA | [30] Automated signal comparison and normalization - an advanced method of comparing repeat ILI data, by Johannes Palmer , Artur Miller , and John Knudsen , Rosen Group, Lingen, Germany | [45] Risk-based mitigation of mechanical damage, by Dr Jing Ma and Fan Zhang , Kiefner & Assocs, Columbus, OH, USA, and Guy Desjardins , Desjardins Integrity, Calgary, AB, Canada |
| 11:30 | [17] Performance of a low-drag seal assembly for pipeline pigging and a novel corrosion-pit cleaning brush, by Dr Dan Fletcher , Vincent Foong , and Michael Hooper , Fiberbuilt Manufacturing, Calgary, AB, Canada | [31] ILI of a 1950s vintage pipeline using multi-technology tool, by Andrew Greig , Kinder Morgan Canada, Calgary, AB, Canada | [46] Fatigue performance characterization of a manufacturing seam defect in high-frequency electricresistance-welded pipe, by Dr Chantz Denowh and Chris Alexander , Stress Engineering Services, Houston, TX, USA, and Travis Schott , Phillips 66, Houston, TX, USA |
| 12:00 | [18] A primer on isolating pipe-in-pipe hot-oil pipelines: a Northern Alberta case study, by Stephen Rawlinson and Doug Krokosz , STATS Group, Houston, TX, USA | [32] Robotic inspection of deep well booster pumps, by Jonathan Minder , Diakont, San Diego, CA, USA | [47] A seam-weld-condition model for assessing the general integrity of pipeline segments, by J. Bruce Nestleroth and Stephanie Flamberg , Kiefner & Assocs, Columbus, OH, USA |

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| 12:30 | Lunch | | |
| | SESSION 7 | SESSION 8 | SESSION 9 |
| | <i>Chairman: Scot Rohleder</i> , BP America, Houston, TX, USA | <i>Chairman: Jim Marr</i> , Marr & Assocs, Calgary, AB, Canada | <i>Chairman: Matt Hastings</i> , Williams, Houston, TX, USA |
| 2:00 | [19] Advances in pig detection and assurance, by Andy Marwood , Online Electronics, Aberdeen, UK | [33] Latest improvements of ultrasonic ILI, by Stefan Klein, Gerhard Kopp, Thomas Meinzer , and Herbert Willems , NDT Global Ltd, Stutensee, Germany | [48] Application of an advanced method of comparing repeat ILI data to improve pipeline integrity management, by Andrew Wilde and Michael Smith , Rosen Group, Newcastle upon Tyne, UK |
| 2:30 | [20] Integrity inspection - identifying and locating leaks on buried terminal piping, by Ian Harris , Praxair Services Inc., The Woodlands, TX, USA | [34] Techniques for the enhanced assessment of pipeline dents, by Jane Dawson, Julie Hedger , and Ian Murray , PII Pipeline Solutions, Cramlington, UK | [49] Pipeline integrity and data integrity: the critical role of data in the enterprise, by Dr Otto Huisman and Sebastian Ruik Beyhaut , Rosen Group, Lingen, Germany, and Daniel Falabella , Transportadora de Gas del Sur S.A., Buenos Aires, Argentina |
| 3:00 | [20a] Development of an industry test facility and qualification process for ILI technology evaluation and enhancement, by Hans Deeb , PRCI, Houston, TX, USA, and Pablo Cazenave , Blade Energy Partners, Houston, TX, USA | [35] Investigating 16-in EMAT tool performance for a low-frequency ERW seam inspection, by Sean Moran , TD Williamson, Salt Lake City, UT, USA, and Dr Mike Kirkwood , TD Williamson, Dubai, UAE | [50] ILI of axial strain: technique, case studies, and best practices, by Dr Mohamed ElSeify and Stuart Clouston , Baker Hughes Canada, Calgary, AB, Canada, and Doug Dewar , Spectra Energy Transmission, Prince George, BC, Canada, <i>and presented by Dennis Janda</i> , Baker Hughes, Houston, TX, USA |
| 3:30 | Coffee, End of conference | | |