AN INVITATION

We are proud to announce the 29th annual Pipeline Pigging & Integrity Management (PPIM) Conference and Exhibition to be held in Houston, Texas, USA.

Pipeline pigging and integrity management are integral in the proper maintenance of pipeline infrastructure at any stage of the asset’s life, from design and construction to operation, maintenance and decommissioning.

More than 2,200 pipeline operators and engineers, manufacturers and suppliers from around the globe will converge on the George R. Brown Convention Center and adjoining Marriott Marquis Hotel to hear the latest in technology and field experience presented by industry leaders; to update their knowledge and skills at one of the training courses preceding the conference; and to learn about the latest innovations in integrity-management technology and practices from the industry’s biggest names at the exhibition – all while making and renewing important business contacts.

As the one-stop event for those interested in pipeline pigging and integrity management, PPIM offers an unparalleled opportunity for those wishing to highlight their support of and services to the pipeline pigging and integrity management sector.

We look forward to seeing you there.
Wednesday 1 March

Chairman: Pat Vieth, Fast-Chat, ASME Pipeline Systems Division, and Board Chair, Young Pipeline Professionals USA, Inc.

9:00 Introduction

2:00 The American pipeline dilemma: how we got there and a partial prescription for moving forward, by Jeff Wise, TFR, Solutions, Boston, MA, USA

9:00 A qualification route for the pipeline industry, by Michelle Unger, Rosgan, Newcastle upon Tyne, UK, and Dr Phil Hopkins, PHL, Whitby Bay, UK

10:30 Closing the generational gap, by Jerry Rau, RCIC, Inc., Houston, TX, USA, and Jane Rau, TransInt, Houston, TX, USA

11:00 Coffee

11:00 Preparing to transfer and accept the duty of leadership, by Chris Tossell, Rosgan Group, Houston, TX, USA, and Eric Lang, Enduris Engineering Partners, Houston, TX, USA

11:30 Developing a new pipeline management system from scratch, by James Kenny, Stantec Consulting, Calgary, AB, Canada

12:00 ALARP and zero leak tolerance - applications for the pipeline industry, by Philip Nidd, Dynamic Risk, The Woodlands, TX, USA

12:30 Lunch

SESSION 1 SESSION 2 SESSION 3

Chairman: Everett Johnson, Marathon Oil Company, Southfield, MI, USA
Chairman: George Williamsom, BP, Houston, TX, USA, and Pittsburgh, PA, USA
Chairman: Terry Shamblin, EQ Midstream, Houston, TX, USA

Materials & testing

Regulations & best practice

Integrity assessment & management

2:00 (1) Human-centric approach to improve pipeline safety, by Patrick McCormack, Battle Memorial Institute, Columbus, OH, USA

(2) The Liquid and Gas Mega Rules - pig in a poke?, by John Jacob, G2 Integrated Solutions, Houston, TX, USA

(3) Pipeline integrity management: program or system? The key to success, by Enrico Acuita, Dandelion Ingenieria Ltda, Santiago, Chile

(4) Effective assessing the probability of failure for UL-ERW seam anomalies, by Jennifer O’Brian, Battle Memorial Institute, Columbus, OH, USA, and Pushpendra Tomar and J.B. Bruce Nestleroth, Kiewit & Associates, Columbus, OH, USA

(5) Predictive determination of pipe grades, by Michael Rosenfeld and Dr Jin Ma, Kiewit & Associates, Columbus, OH, USA

(6) On-site visits provide proven cost-reduction and value for unexpected pipelines, by Geert Rontekoe and Laurie Todd, Quest Integrity Group, Stafford, TX, USA

(7) Managing the steam-weld crack threat: common pitfalls and recent progress, by Dr Ted Anderson, TI Anderson Consulting, Longmont, CO, USA, and Gregory Brown, Quest Integrity, Englewood, CO, USA

(8) A case study on circumferential crack detection, by Dr Thomas Hennig, NDT Global Corporate Ltd, Dublin, Ireland, Mark Grimacomb, Pembina Pipeline Corporation, Calgary, AB, Canada, and Cory Warzlyck, NDT Global Corporate Ltd, Dublin, Ireland

(9) The use of PIGs & technology and DNA process to determine the populations of undocumented pipeline sections, by Christopher De Leon, Simon Slater, Thomas Eken, and Daniel Molenda, Rosgan Group, Houston, TX, USA

(10) Development of an industry test facility and qualification and qualification and assessment of EC-2 to use in Canada, by Sean Moran, TD Williamson, Salt Lake City, UT, USA, and Dr Mike Kirkwood, TD Williamson, Dubai, UAE

(11) Investigating 16” EMAT tool performance for a low frequency EC-2 test, by Sean Moran, TD Williamson, Salt Lake City, UT, USA, and Dr Mike Kirkwood, TD Williamson, Dubai, UAE

3:00 Coffee

3:00 Analysis of data integrity, by Stephan Nolte and Christopher Hagen, ALPI, Munich, Germany

3:00 Pipeline integrity and data integrity: an advanced approach for comparing repeat ILI data, by Johannes Palmers, J. Bruce Nestleroth, Kiewit & Associates, Columbus, OH, USA, and Megan Halwer, Gary Zunkal, Ronald Scrivner, and Jennifer O'Brien, Battelle Memorial Institute, Columbus, OH, USA

3:00 The need for pit leak detection: a comparison of different technologies and the professional approach with ATEX-certified leak detection pumps, by Rene Landstorfer, Neutral Leak Detection GmbH & Co KG, Oststeinbek, Germany

Thursday 2 March
NEW IN 2017

PIPECLINE PIGGING & INTEGRITY IN NON-TECHNICAL LANGUAGE

No prior knowledge required!

A bewildering display of technology and tools will be on display at the PPM 2017 Conference and Exhibition. This new class is designed to familiarize you with all of it in an easy-to-understand way without a lot of the technical jargon that can be so confusing.

The one-day class (Feb. 27, 3:00 - 6:00) will be in three parts:

• "Utility" pigs and pigging activities: cleaning pigs. Which ones do what? How they are launched and run inside a pipeline, how they are retrieved. All about chemical cleaning and pigging.

• "Smart" pigs: also known as in-line inspection (ILI) tools for internal inspection. Which ones do what? What do they tell us?

• What is “pipeline integrity” anyway? Why companies need an integrity program. What are the basic parts of an integrity program? How do they fit together?

If you don’t have a technical background but your job exposes you to any of these technical activities, if you are new to the industry – or you just want to become more familiar with it all, you can’t spend a day any better than this.

Only $595! – see page 11.

Instructors:

Tom Miesner, Pipeline Knowledge & Development LLC
Pamela Moreno, DNV GL
Randy Roberts, N-SPEC Pipeline Services / Coastal Chemical Co.

TECHNICAL TRAINING COURSES

Course A 1.2 Continuing Education Units

ADVANCED PIPELINE RISK MANAGEMENT

From the National Transportation Safety Board Safety Study Integrity Management of Gas Transmission Pipelines in High Consequence Areas, January 27, 2013:

"The study did find that IM programs... require expert knowledge and integration of multiple technical disciplines including... probability and statistics, and risk management... The study found that aspects of the operators’ threat identification and risk assessment processes require improvement.”

In 2017 PHMSA will implement a wide range of stricter regulations for improving pipeline safety. At the top of the list are:

• Requirements for conducting risk assessment for integrity management, including seismic risk.

• Expanded mandatory data collection and integration requirements for integrity management, including data validation and seismicity.

• Increased focus on a data- and risk-informed approach to safety by requiring integration of available data, including data on the operating environment, pipeline condition, and known manufacturing and construction defects.

• Required annual evaluation of protective measures in High Consequence Areas (HCA), with established deadlines for internal inspections where possible for any new or replaced pipeline that could affect an HCA.

Are you ready for these new rules? The Advanced Risk Management course will equip you with the information and the know-how to set up and implement a comprehensive risk management program for pipelines. It will go into considerable depth in explaining the latest quantitative and qualitative methods for risk profiling and assessments. The focus will be on the establishment of a program that not only fulfills regulatory requirements, but also gives the pipeline owner/operator a long-term decision support tool.

LECTURER

W. Kent Muhlbaue, WKM Consultancy

Course B 1.2 Continuing Education Units

NEW PIPELINE REGULATIONS: IMPACTS & GUIDELINES FOR COMPLIANCE

The course will bring you up to speed on these sweeping changes in the regulations affecting gas and hazardous liquids pipelines, expected in 2017:

• Pipelines built before 1970 must now be tested.

• New repair and replacement criteria for pipelines inside and outside of High Consequence Areas (HCA).

• Tightened standards for pressure tests

• PHMSA guidance on how to evaluate internal inspection results to identify anomalies.

• Requirements for conducting risk assessment for integrity management, including seismic risk.

• Expanded mandatory data collection and integration requirements for integrity management, including data validation and seismicity.

• Additional post-construction quality inspections to address coating integrity and cathodic protection issues.

• Required new safety features for pipeline launchers and receivers.

• Required systematic approach to verify maximum allowable operating pressure and report exceedances.

• Required leak-detection systems, and timelines for inspections of affected pipelines following an extreme weather event or natural disaster.

• Required annual evaluation of protective measures in HCA, with established deadlines for internal inspections where possible for any new or replaced pipeline that could affect an HCA.

• Increased focus on a data- and risk-informed approach to safety by requiring integration of available data, including data on the operating environment, pipeline condition, and known manufacturing and construction defects.

Special attention will be given to requirements for Operator Qualification and Integrity Management Plans.

LECTURERS

David Bull, ViaData
George Williamson, BP

Course C 1.2 Continuing Education Units

INTRODUCTION TO EXCAVATION INSPECTION & APPLIED NDE FOR PIPELINE INTEGRITY ASSESSMENT

This course will review both in-line (direct) and indirect inspection methods for pipelines, and the ways in which the results of these inspections are reported. Participants will then learn the correct procedures for conducting investigative digs based on these inspections, and how to use the latest NDE technologies to perform conclusive direct examinations for final integrity assessment and maintenance decisions.

LECTURERS

Jim Marc, Marr Associates
Rick Desaulniers, Lake Superior Consulting

Course D 1.2 Continuing Education Units

PIGGING & IN-LINE INSPECTION

The use of in-line tools for inspection and cleaning is accepted as essential for the safe and profitable operation of all pipelines. Now, regulations require internal inspections using geometry pigs for detecting changes in circumference, and the use of MFL or ultrasonic pigs for determining wall anomalies or wall loss due to corrosion in onshore pipelines in the US. Offshore, pipeline operators wage a constant battle for flow assurance against paraffin, hydrate, and asphaltene formation in deepwater lines, and pigging technology combined with chemical treatment is their primary weapon. The Pigging and In-line Inspection course is designed to provide a comprehensive introduction to all aspects of utility and in-line inspection pigging. Led by four of the most experienced, independent experts in this field today, the course will be conducted as a workshop, and attendees will be actively encouraged to participate. The course content will be fully illustrated, with actual pigs and models being used to aid understanding and help overcome any language difficulties.

Comprehensive course notes will be provided, which will form a valuable source of reference afterward.

LECTURERS

Dr Tom Bubenik, DNV GL
Pam Moreno, DNV GL
George Williamson, BP
Chris Yoxall, Rosen Group
Course E 1.2 Continuing Education Units
PI Pipeline DEFECT ASSESSMENT WORKSHOP
This course is a follow-on to the famous Defect Assessment in Pipelines course. It takes those who want to take their defect assessment knowledge to the next level; it goes into greater depth on the various defect assessment methodologies and provides participants with hands-on practical experience performing calculations based on them.
Participants will become comfortable performing and reviewing a wide variety of anomaly assessment methodologies and will understand when to best apply them within an Integrity Management Program. Cases and problems worked in class will be based on actual inspections of working pipeline systems. The course addresses both traditional pipeline methodologies as well as recent innovations, including the API 579 Fitness-for-Service Standard.

LECTURER
Dr Phil Hopkins, Phil Hopkins Ltd

Course F 1.2 Continuing Education Units
DEFECT ASSESSMENT IN PIPELINES
Many transmission pipelines are now over 50 years old. This is “middle aged” in pipeline terms, and even the best designed and maintained pipeline will become defective as it progresses through its design life. Therefore, operators need to be aware of the effects of these defects will have on their pipeline, and – more importantly – be able to assess their significance in terms of the continuing integrity of the pipeline. The increasing use of high-technology maintenance (for example, intelligent pigs) is helping pipeline owners to assess the condition of their lines, and if these modern maintenance methods are combined with modern defect-assessment methods, they can provide a very powerful, and cost-effective, tool. Organized in association with Penspen Ltd, this course will present the latest defect-assessment methods to pipeline engineers and managers. These methods will range from simple, quick, assessment methods, to the more-detailed – fitness for purpose – analysis. The course is highly interactive and takes the form of lectures, workshops, and case studies.

LECTURER
Dr Phil Hopkins, Phil Hopkins Ltd

Course G 1.2 Continuing Education Units
PI Pipeline INTERIETY MANAGEMENT
The course provides a sound review of Pipeline Integrity Management strategies, in compliance with regulatory requirements, including self-assessment. It is highly interactive and takes the form of lectures and case studies. On completion of the course, participants will have a solid understanding of the procedures, strengths, limitations, and applicability of the main issues that comprise a Pipeline Integrity Management Program.

LECTURER
Dr Alan Murray, Principia Consulting

Course H 1.2 Continuing Education Units
PIPELINE REPAIR METHODS, HOT TAPPING, AND IN-SERVICE WELDING
The various aspects of pipeline repair using weld and non-weld methods will be covered, as will the concerns for welding onto in-service pipelines and the approaches used to address them. In particular:
- Defect assessment prior to repair. Selecting an appropriate repair method.
- Hot-tap branch connections.

LECTURERS
Ian Smith, ID Smith Pipeline Engineering

Course I 1.2 Continuing Education Units
MANAGING CRACKS AND SEAM-WELD ANOMALIES ON PIPELINES
“...if the operator has reason to believe any pipeline segment contains or may be susceptible to cracks or crack-like defects... the operator must perform fracture mechanics modeling for failure stress pressure and crack growth analysis to determine the remaining life of the pipeline...” – PHMSA Notice of Proposed Rulemaking
The typical forms of cracking and its derivatives are environment-, manufacturing-, or operations-related, such as stress-corrosion cracking, corrosion-fatigue cracking, hydrogen-induced cracking, hook cracking, and seam-weld anomalies (such as those related to ERW/flash-welded pipe). This course will provide an integrated, data-driven approach for addressing these forms of cracking and seam-weld anomalies. It covers in greater depth the formation of these types of anomaly and the conditions that drive their growth until they become unstable, leading to leaks or ruptures. The appropriate assessment methods such as ILI crack tools, pressure-testing and direct assessments will be presented as well as traditional and current engineering approaches for establishing crack severity and determining future integrity.

LECTURER
Megan Weichel, DNV GL

Course J 1.2 Continuing Education Units
PIPELINE SAFETY MANAGEMENT SYSTEMS: API RP 1173
Recent incidents in the pipeline industry have led to recommendations that pipeline operators adopt safety management systems as a means of containing a goal of zero incidents. The American Petroleum Institute’s (API) Recommended Practice (RP) 1173 – Pipeline Safety Management System Requirements is the result of a substantial industry effort to provide guidance for the development and maintenance of a pipeline safety management system. The RP is set to be released early this year and has been supported by the regulatory agencies and has been developed with input gathered from two workshops in 2014, as well as a public hearing.

LECTURER
Gary Zunkel, Lake Superior Consulting

NEW!
Course K 1.2 Continuing Education Units
HYDROSTATIC TESTING OF PIPELINES
This course is designed for pipeline personnel in engineering, integrity management, operations, and regulatory compliance roles. This course will cover a wide range of topics related to hydrostatic testing of pipelines for gas and hazardous liquid service for both in-service and new construction according to CFR 49 Parts 192 and 193. The course will provide attendees with necessary information for planning and conducting a successful hydrostatic test, whether it’s for initial service or retesting existing lines. Planning will cover review of integrity prior to testing through evaluation of test results. The course will focus on testing with water but testing with other medium will be discussed.

LECTURER
Gary Zunkel, Lake Superior Consulting

LECTURER
Bryan Melan, Tide Water Integrity Services

LECTURER
Dr Chris Alexander, Stress Engineering Services

LECTURER
Bryan Melan, Tide Water Integrity Services

LECTURER
Dr Chris Alexander, Stress Engineering Services

LECTURER
Megan Weichel, DNV GL

LECTURER
Bryan Melan, Tide Water Integrity Services

LECTURER
Bill Bruce, DNV GL

LECTURER
Dr Chris Alexander, Stress Engineering Services

LECTURER
Bill Bruce, DNV GL

LECTURER
Dr Chris Alexander, Stress Engineering Services

LECTURER
Sergio Limon, LIMON Pipeline Analytics

LECTURER
Gary Zunkel, Lake Superior Consulting

LECTURER
Bryan Melan, Tide Water Integrity Services

LECTURER
Dr Chris Alexander, Stress Engineering Services

LECTURER
Sergio Limon, LIMON Pipeline Analytics

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Bill Bruce, DNV GL

LECTURER
Dr Chris Alexander, Stress Engineering Services

LECTURER
Bryan Melan, Tide Water Integrity Services
NEW!
1.2 Continuing Education Units

INSPECTION OF CHALLENGING PIPELINES

The course will provide an in-depth introduction into the inspection of challenging pipelines, i.e. pipelines that cannot be inspected in a straightforward manner using traditional free-swimming in-line inspection tools. The course will introduce typical flaws and anomalies found in challenging assets, including a wide range of metal loss and crack features. Assets covered in the course include difficult-to-inspect onshore and offshore pipelines in the up-, mid- and downstream sectors, including gathering and distribution lines, loading lines, storage lines, risers, flexible pipe and risers, laterals. The course examines all relevant inspection technologies and related non-destructive testing principles as well as operational procedures, data analysis and reporting.

LECTURERS
Dr Michael Beller, Rosen Group
Dr Konrad Reber, Innospection

EXHIBITION FLOORPLAN

View the complete syllabus and more details at www.ppimhouston.com

EXHIBITION FLOORPLAN

CAN'T ATTEND THE CONFERENCE? DON'T MISS THE EXHIBITION ...

A key feature of the event is the opportunity to visit one-on-one with the leading technology suppliers in this fast evolving field. Exhibiting company representatives will be available to discuss the latest technologies for pipeline integrity management, including ILI, pigging for cleaning, geometry, sealing, LIU prep, and other utility applications. Also, validation digs, NDE and direct assessment, hydrotesting, data management, leak detection, mapping, emergency response, and repair methods will be showcased.

TO VISIT THE EXHIBITION
It’s included free if you are attending the conference and/or courses. If you are unable to attend the conference programme, visit the exhibition for only $75 (one day) or $150 (three days). FREE PARKING INCLUDED! See page 11 for more details.

Exhibition Hours
Tuesday, February 28, 9:00am to 2:00pm
Wednesday, March 1, 9:00am to 7:00pm
Thursday, March 2, 9:00am to 2:00pm
**EXHIBITING COMPANIES (AT PRESS TIME) - EXHIBITORS**

3X Engineering 241
GeoFields 440
GeoCorr Pipeline Inspection Technologies 524
G2 Integrated Solutions 1018
Expro 845, 847
Engineered Power 1046
Energy Rental Solutions - CAT 436
Enercon Services, Inc. 407, 409
EN Engineering 846
DL&PS Energy Services 1014
Cylo Technologies, Inc. 923
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Clean Combustion, Inc. 300
Champion Process, Inc. 724, 726
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KTN AS 325
KMax 713
JP Pipeline Services 245
Integral Pipeline Technologies 439
Inline Services 917, 919
Global Nitrogen Services 547
501, 503, 534
3D Visualization, Inc. 436
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**EXHIBITION’S VENUE & ACCOMMODATION**

**VENUE**

Marriott Marquis Hotel
1600 George R. Brown Boulevard
Suite 110, Houston, TX 77002
TEL. +1 713 449 3222  |  FAX +1 713 521 9255

**EXHIBITION HOURS**

EXHIBITION HOURS

Wednesday, March 1 - 9:00am to 7:00pm
Thursday, March 2 - 9:00am to 2:00pm

VENUE & ACCOMMODATION

Exhibition General Enquiries: 1001 Avenida De Las Americas, Houston, TX 77010
Conference, courses and overnight accommodation: Marriott Marquis Hotel 1777 Walker St, Houston, TX 77010. Tel: +1 713 654 1777.
Mention the PPM Group Rate of $225.

**FOR FASTEST REGISTRATION, REGISTER ONLINE NOW at www.clarion.org**

(secure server) OR fax or mail this form to:

CLARION Technical Conferences 3401 Louisiana Street
Suite 10, Houston, TX 77002
TEL. +1 713 449 3222  |  FAX +1 713 521 9255
email: sales@clarion.org

**EXHIBITION HOURS**

Wednesday, February 28 - 9:30 to 10:00
Wednesday, March 1 - 9:30am to 7:00pm
Thursday, March 2 - 9:00am to 2:00pm

**TECHNICAL COURSE**

(Area + CONFERENCE) ($3390)

A B C D E F G H I J K L M

Platinum Pipeline & Integrity in Non-Technical Language + Conference $1690

NOTE: If you decide to register for an additional event (course or conference) separately, or at a later date, the combined rate will apply.

**VENDOR REGISTRATION (EXHIBIT)**

I have a promotional coupon for the conference or course.

Enter coupon #:  _______________________________________

**PAYMENT OPTIONS (check as appropriate)**

I will mail a check payable to Clarion Technical Conferences

**BILLING AND CONTACT INFORMATION**

Name Title Company Office Building Address City State Zip Phone Country Telephone

**CANCELLATIONS/SUBSTITUTIONS**

Cancellations must be made in writing at least 10 days prior to the event, to receive a 50% refund of fees already paid. In the event an exhibitor is unable to participate at the time of the event, all fees paid will be refunded. No refunds will be given for any promotional materials that have been shipped to the organizers. If an exhibitor is unable to participate, the information on the registration form will be used to create an exhibit space for another exhibitor. If the organizers are not able to fill the space, there will be no refunds for promotional materials shipped to the event site.

**NOTE:** If you decide to register for an additional event (course or conference) separately, or at a later date, the combined rate will apply.

**TECHNICAL COURSE (Area + CONFERENCE) ($3390)**

A B C D E F G H I J K L M

Platinum Pipeline & Integrity in Non-Technical Language + Conference $1690

NOTE: If you decide to register for an additional event (course or conference) separately, or at a later date, the combined rate will apply.
February 27 - March 2, 2017, Houston
George R. Brown Convention Center and the Marriott Marquis Hotel

NEW COURSES!
- Pigging & Integrity in Non-Technical Language, page 6
- Gathering Systems Assessment & Integrity, page 7
- Corrosion Prevention, page 8
- Inspection of Challenging Pipelines, page 9

www.ppimhouston.com