



IPCE 2026

16TH INTERNATIONAL PIPELINE
CONFERENCE & EXPO

PROGRAM

CONFERENCE
SEPTEMBER 21-25, 2026

EXPOSITION
SEPTEMBER 22-24, 2026

BMO CENTRE
CALGARY, AB, CANADA

<https://event.asme.org/IPC>



The American Society of Mechanical Engineers®
ASME®





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MESSAGE FROM THE PREMIER OF ALBERTA

On behalf of the Government of Alberta, it is my pleasure to welcome delegates to the 2026 International Pipeline Conference and Expo in Calgary.

You may notice a renewed sense of optimism in Alberta this year. After a decade of missed opportunities, pipelines have gone from being viewed as impossible to a national imperative. Our agreement with the federal government is helping create the certainty industry needs to invest, grow production and reduce emissions. In addition to the million-barrel-per-day west coast oil pipeline, we want to build pipelines in every direction – without delay and without hesitation – to supply global markets with safe, reliable and responsibly produced Alberta energy.

Your expertise is essential to the development of resilient energy corridors, here and around the world. I hope this event is a welcome opportunity to learn with colleagues and engage in critical conversations about the future of global pipeline infrastructure – fuelling the innovation that will drive the industry forward.

Please enjoy your time in Alberta. Best wishes for a productive conference.



Honourable Danielle Smith, Premier of Alberta



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Welcome from the Chair and Vice Chair

On behalf of the International Pipeline Conference and Exhibition (IPCE) Organizing Committee, we are excited to invite you to join us at IPCE 2026 on September 21 – 25, 2026 in Calgary, Alberta, Canada.

For 30 years, IPC has been known as the premier technical conference focused on pipeline systems. We are excited to have the event at the BMO Centre at Stampede Park for the second time. As always, delegates will have the opportunity to learn about the latest technical research that drives innovation and change in the pipeline industry around the world, as well as unparalleled networking opportunities. IPCE 2026 features around 380 papers technical papers from 27 countries, nine interactive topical panels, and nearly 25 tutorials led by experts in their field.

IPCE 2026 is proud to continue its partnership with DMG Events who organize the pipeline exhibition which complements the technical content of IPC. The concurrent International Pipeline Exhibition features products and services from more than 300 companies in an exhibit area of more than 8,400 square meters (90,000 square feet).

This year's theme is Connecting Technology, People, and the Future and includes continued collaboration with young pipeline professionals, industry executives, research organizations such as Pipeline Research Council International (PRCI), standards development organizations, and government regulators. PRCI serves as the Technical Partner of IPCE for the second year.

The attendees of IPCE 2026 have the responsibility to lead the industry forward by Our Keynote Speaker is Anand Sethupathy is Chief Strategy Officer at the American Society of Mechanical Engineers (ASME), where he leads the organization's global strategy, innovation, international growth, sustainability, and government relations efforts. With more than 25 years of experience across the nonprofit and private sectors, he is recognized as a strategy, technology, and social impact leader focused on driving growth and long-term value creation.

Connecting Technology, People, and the Future. The Plenary Session speakers will link this responsibility to the content of the conference and set the tone for the event. We will



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open the session with a land acknowledgement and a blessing performed by a local First Nations Elder.

We will continue IPCE's support of women and early career professionals with their respective panels and networking events. There will also be an executive panel with senior executives from the leading pipeline organizations and regulators.

Since its inception in 1996, IPC has relied on the vision and initiative of many individuals. These dedicated industry champions in turn are supported by the coordinated and dedicated efforts of numerous industry stakeholders and we wish to thank them for their continued support to help make IPCE 2026 a success.:

- Industry leaders' commitment to fostering technical advancements and supporting their employees who participate in the various committees that make the conference possible, and supporting continued development of the pipeline industry by sending their employees and executives
- Regulators who engage with IPCE and reinforce a commitment to continuous improvement of pipeline safety
- Professionals who actively create and present content for this conference
- Researchers and research organizations that produce the cutting-edge information that fuels innovation
- Delegates who travel from around the world to participate with their peers; and
- IPCE corporate sponsorship partners, who have demonstrated their continued commitment to this important conference.

Thank you to everyone for your commitment to building on the success of previous conferences to ensure that IPCE 2026 offers the unparalleled learning, networking and knowledge-sharing experience that delegates have come to expect during this biennial event. On behalf of the IPCE 2026 Organizing Committee, we look forward to your participation at IPCE 2026.

Taylor Shie, Shell

IPCE 2026 Conference Chair

Jennifer Klementis, TC Energy

IPCE 2026 Conference Vice Chair



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Organizing Committee

2026 IPCE Organizing Committee

- **Leadership** – Taylor Shie (Shell) – Chair, Jennifer Klementis (TC Energy) – Vice Chair, Joe Paviglianiti (CER) – Immediate Past Chair
- **Best Paper** - Kim Maddin (D2 Integrity), Nikki Padgett (DNV), David Shanks (FortisBC)
- **Communications** - Katiana Caridad (Mistras), Anita Vigilante (PRCI), Carla Rocha (Novitech)
- **Events** - Tracey Murray (NDT Global), Stefania Pederson (Dynamic Risk)
- **Industry Poster Session** - Jon Jennings (EWI), Michael Zhou (Gibson Energy), Stefania Pederson (Dynamic Risk)
- **Honors and Recognition** - Tran Mah Paulson (Enbridge), Josh Wilson (Allan Edwards), Danny Aronson (Petrobras), Mike Kirkwood (TDW) – International Advisor
- **Pipeline Systems Division** - Erika Santana (Rosen), Kevin Tsang (Enbridge), Tran Mah Paulson (Enbridge)
- **Special Sessions** - Jialin Sun (Enbridge), Justin Nesbitt (BC ER), Gemma Brown (TC Energy)
- **Sponsorship** - Steve Irving (Self), Shawn Laughlin (Pipe Spring), Raythatha Niraj (Stantec)
- **Student Best Paper** - Patrick Adamski (TC Energy), Ron Hugo (University of Calgary), Nicki Robertson (D2I), Kshama Roy (MUN) - Advisor
- **Technical** - Sean Keane (Enbridge), Stephen Westwood (Novitech), Joesph Bratton (DNV), Richard Espiner (Espiner Consulting) – International Advisor
- **Tutorials** - Kshama Roy (MUN), Amanda Bai (Enbridge), Ryan Miller (CER)



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- **Young Engineer Engagement** - Ishrat Oishee (TC Energy), Jerome Ang (Enbridge), Vinshie Chiew (Valard Construction)

Track Leadership

Pipeline Safety Management Systems

Track Chair: Jenny Been, Canada Energy Regulator (CER)

Track Co-Chair: Karen Lynch, U.S. Department of Transportation (U.S. DOT)

Track Co-Chair: Usman Alam, TC Energy

Project Management, Design, Construction, and Environment

Track Chair: Tara Kern, Enbridge

Track Co-Chair: Michelle Caren, TC Energy

Track Co-Chair: Jerome Bonnal, Canada Energy Regulator (CER)

Pipeline and Facilities Integrity

Track Chair: Rob Zmud, Dynamic Risk

Track Co-Chair: Nicki Robertson, D2 Integrity

Track Co-Chair: Stefan Klein, Gascade

Track Co-Chair: Aleksandar Tomic, Integral Engineering

Track Co-Chair: Jing Ma, DNV

Track Co-Chair: Yvanna Ireland, TransMountain

Track Co-Chair: Justin Harkrader, Shell

Track Co-Chair: McKenzie Kissel, Onstream Pipeline Inspection



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Operations, Monitoring, and Maintenance

Track Chair: Marzie Derakhshesh, Enbridge

Track Co-Chair: Jesse Kilgour, TC Energy

Track Co-Chair: Kent Schoenroth, SaskEnergy

Materials and Joining

Track Chair: Fateh Fazeli, NRCan, CanmetMATERIALS

Track Co-Chair: Muhammad Rashid, Interpro Pipe and Steel

Track Co-Chair: Greg Lehnhoff, Orion Steel Companies

Track Co-Chair: Mark Cuglietta, C-FER Technologies

Geohazards Management and Strain-Based Design and Assessment

Track Chair: Yong-Yi Wang, CRES

Track Co-Chair: Doug Dewar, Pembina

Track Co-Chair: Nader Yoosef-Ghodsi, Enbridge

Risk and Reliability

Track Chair: Smitha Koduru, University of Alberta

Track Co-Chair: Graham Goodfellow, Pipeline Integrity Engineers

Track Co-Chair: Richard Espiner, Espiner Consulting Limited

Track Co-Chair: Dongliang Lu, South Bow

Northern, Offshore, Upstream and Production Pipelines



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Track Chair: Kenneth Macdonald, Equinor

Track Co-Chair: Andrew Cosham, Ninth Planet Engineering

Track Co-Chair: Hamid Bidmus, DNV

Emerging Fuels and Greenhouse Gas Emissions

Track Chair: Simon Slater, Rosen

Track Co-Chair: Gary Choquette, PRCI

Track Co-Chair: Chris Blackwell, TC Energy

Track Co-Chair: Jake Abes, DNV

Conference Advisory Board

Member: Marcelino Gomes, Pipeline Brasil

Member: Cliff Johnson, Pipeline Research Council International

Member: Husain Al-Muslim, Saudi Aramco

Member: Roland Palmer-Jones, Rosen

Member: Jonathan Timlin, Canada Energy Regulator

Member: Scott Arndt, Enbridge

Member: Carlos Vergara, OCENSA Pipeline

Member: Joe Zhou, TC Energy

Member: Lance Radke, ATCO Energy Systems

Member: Linda Daugherty, US Department of Transportation

Member: Bill Caram, Pipeline Safety Trust



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Keynotes

Anand Sethupathy, Chief Strategy Officer ASME

Title: Engineering for the Intelligence Age: AI, Trust, and the Future of Industrial Knowledge

General Conference Information

Registration

Badge Pick up and Onsite Registration

All onsite registration will take place at first floor of BMO Centre as follows:

Monday, September 21 07:00 – 17:30

Tuesday, September 22 07:00 – 18:00

Wednesday, September 23 07:30 – 18:00

Thursday, September 24 07:30 – 18:00

Friday, September 30 07:30 – 12:00

* Please note early registration from 07:00 to 08:00 is for Monday Tutorial attendees only! General registration will open at 08:00.

Conference and Exposition Badges

Your badge must be worn for all sessions and events. For security purposes, at times you may be asked for picture identification while onsite at the Conference and Exposition.



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Full Technical Conference Registration Badge

A Full Registration Badge (Black Band) will provide:

- Admittance to all four days of technical tracks
- Distinguished Lecture Series and the Executive Panel Session
- One electronic copy of the Conference Papers
- Admission to all three days of the Exposition
- And entry to the following social activities:
 - Monday – ASME Pipeline Systems Division Ice Breaker Reception
 - Tuesday – Opening Plenary Session
 - Tuesday – Luncheon
 - Wednesday – Luncheon
 - Wednesday – IPCE. Networking Reception, 2nd Floor Exchange
 - Thursday – Luncheon
 - Friday – Closing Event

Tutorials are not included as they are optional. If you have not pre-registered for a Tutorial you may be able to purchase them at the onsite Conference Registration Desk if there is space available.

One Day Registration Badge

A One Day Registration Badge will provide:

- Admittance to the technical tracks only for the day specified on your registration form
- The luncheon on that day
- Any Receptions on that day
- Admission to all three days of the Exposition

Student Registration Badge

A Student Registration Badge – ASME Student Member or Non-Member – will provide:

- The same inclusions as the **Full Technical Conference Registration Badge**



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Access to Papers

Free ASME Membership

For delegates who register at the Non Member Rate, ASME is providing a four month ASME membership. You must respond to an email received post conference on this topic to opt in to the membership.

Please expect to receive an email from the ASME membership department within six weeks post conference.

The Conference Papers* for the International Pipeline Conference

Full Registrants and Students will receive the Conference Papers*, as part of their registration package.

Access To Online Papers

To access the online papers, please go to the URL that was emailed to you (for pre-registrants), click on a Track and then login and create a user name and password using the ID provided in the email. For subsequent access you will only need to enter the user name and password that you created. For onsite registrations, please allow 48 hours for the Paper Download email.

Please take note of the email header under which your paper access instructions will arrive. Please contact conferencepubs@asme.org with any questions or concerns regarding paper access.

Conference Administration

Track Room Protocol Conference representatives will check delegate badges at the entrance to tracks and all events. Every effort will be made to ensure that all sessions start and end on time. Presenters and conference registrants are all asked to work together to achieve this. Discussions may have to be cut short and conference organizers request your cooperation for the benefit of all participants.

Speakers' Ready Room – 227 and 233

The **227 and 233** rooms, will be utilized as the Speakers' Ready Room. Presenters are welcome to use this facility to test their audio visual materials.



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- Monday, September 21 through Thursday, September 24 – 07:00 to 17:00
- Friday, September 25 – 07:00 to 12:00

IPC Conference Offices

This year's Conference offices in room 208, located on the 2nd floor of the BMO Centre. Conference staff may or may not be at the office during open hours.

Monday 7:00am – 5:00pm

Tuesday 7:00am – 5:00pm

Wednesday 7:00am – 5:00pm

Thursday 7:00am – 5:00pm

Friday 7:00am – 2:00pm

General Conference Information

Authors' Briefings – 07:00 am - Tuesday / 07:15am Wednesday - Friday

Presenters and Session Chairs are required to attend a briefing on the **day of their session**. Session arrangements will be outlined and participants will have the opportunity to become better acquainted. The briefings will include a Continental Breakfast and will be held in these rooms.

Authors and session chairs will have received detailed information on the authors breakfast from conference leadership.



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Facility Map





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Special Sessions

Please note that the conference application will have the most recent version of the technical program and events schedule.

Tuesday, September 22

Harnessing Experimental and State-of-the-Art Practices and Technologies: A Geohazard Discussion Panel

Time: 1:30 – 3:00 pm

Audience: Geohazard SMEs

As technologies and approaches for understanding geological and hydrotechnical hazards continue to evolve, the pipeline industry faces an important challenge: how do innovative research and emerging practices transition into operational applications, industry standards, and regulatory expectations?

This Special Session brings together pipeline operators and regulators from Canada and the United States to discuss the future of geohazard management, exploring the challenges, opportunities, and pathways for broader adoption of leading practices.

Wednesday, September 23

Understanding and Managing Complex Interacting Threats: Discussion Panel

Time: 8:30 – 10:00 am

Audience: Integrity professionals, threat management SMEs, risk practitioners

Interacting threats are among the most complex challenges in pipeline integrity management. Unlike isolated anomalies, interacting threats occur when multiple conditions (such as dents, cracks, corrosion, gouging, or weld-related features) combine in ways that can increase risk and complicate detection, assessment, and mitigation decisions.

This special session will bring together operator perspectives to discuss practical approaches for identifying, assessing, and managing interacting threats. The goal is to provide attendees with actionable insight into when to monitor, when to investigate further, and when to escalate to excavation or repair.

Global Perspectives on Hydrogen and CO₂ Pipeline Development

Time: 10:30 am – 12:00 pm

Audience: Emerging fuels SMEs



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This special session brings together global perspectives on the development of hydrogen and CO₂ pipeline infrastructure, highlighting emerging projects, technical challenges, and evolving industry guidance.

The first presentation will provide an overview of hydrogen pipeline development in China and discuss the challenges of gaseous hydrogen embrittlement in steel pipelines, including its mechanisms and practical mitigation strategies.

The second presentation will focus on DNV-RP-F104 for CO₂ pipelines and the ongoing Joint Industry Project to update the recommended practice, including technical work underway to address the challenges associated with CO₂ pipeline transportation.

Together, the presentations will offer insight into how engineering solutions and industry practices are evolving to support safe and reliable hydrogen and CO₂ pipeline systems.

Operational Excellence in Pipeline Data Management: From TVC to Defensible Integrity Decisions

Time: 3:30 – 5:00 pm

Audience: Integrity practitioners, data management professionals, decision makers

Pipeline integrity depends on the quality, traceability, and reliability of data. In this Special Session at IPC 2026, industry leaders will explore how Traceable, Verifiable, and Complete (TVC) data management practices can transform pipeline information into a trusted foundation for risk-based and integrity decision-making.

Thursday, September 24

From Prescriptive to Performance-Based: The Future of Pipeline Safety Regulation?

Time: 8:30 – 10:00 am*

Audience: Directors, VPs, regulators, integrity professionals

This panel is intended as a leadership-level conversation bringing together regulatory authorities and industry leaders to discuss how regulatory systems can evolve while maintaining or improving pipeline safety performance.

The audience will leave with a clearer understanding of:

- The differences between prescriptive, performance-based, and goal-based regulatory models
- Lessons learned from regulatory approaches used in North America and internationally
- How innovation can be enabled while preserving public trust and accountability
- What capabilities operators and regulators require to succeed under a more outcome-focused framework
- Practical opportunities and challenges associated with implementing goal-based regulation in the pipeline industry



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The Role of AI in the Pipeline Industry

Time: 10:30 am – 12:00 pm

Audience: AI, data analytics, and digital transformation practitioners and decision makers

Many industries have improved performance by using data, technologies, and expertise to be more evidence-based. The Nuclear, Avian, and Formula One industries have clearly demonstrated the powerful role of collective data in improving performance and, consequently, public confidence and operational efficiency.

A thoughtful scientific basis leads us to consider all data, technologies, and expertise appropriately to see the blind spots of each other and improve processes, leading to decision making that tangibly improves safety performance.

In the pipeline industry, we have understood the importance of data, and in select areas have harnessed its power. PRCI is establishing a Data Institute to enable collective data sharing and meaningful use of the latest technologies, with broad international and specific analytics to identify how we can accelerate performance improvement and communicate critical safety-related developments.

AI adoption is a salient topic for us all, and many of us are working on how best to use AI in our jobs and industry.

In this panel we will share great examples of how expertise with critical thinking, data, and AI complement each other appropriately to improve performance. We will discuss related pitfalls and opportunities in the current industry.

Women in Energy Panel: "Women Powering Innovation, Leadership and the Future of Pipelines"

Time: 3:30 – 5:00 pm*

Audience: Women engineers, allies, mentors, invited guests, industry leaders

Join the 2026 IPC special session panel "Women Powering Innovation, Leadership and the Future of Pipelines." This highly anticipated session will bring together influential voices who are driving meaningful change across the industry while fostering inclusive, high-performing teams and sparking innovative thinking.

Panelists:

- Andrea Jalbert, VP of Regulatory for Canada Gas, TC Energy
- Arti Bhatia, VP Engineering, TransMountain
- Chioma Izugbokwe, Director for Research & Innovation, CER
- Maria Marcano, Sr. PM, Kinder Morgan

Host: Jasmen Atwal, Supervisor, TIS & FEMINEN Chair, Enbridge

Moderator: Claudia Soriano Vazquez, Specialist Engineer & FEMINEN Member, Enbridge



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Executive Panel - Wednesday, September 23, 1:30 - 3:00PM

Connecting the Dots: The Next Era of Pipeline Infrastructure

The global energy landscape is evolving in complex and often competing ways, requiring industry leaders to balance energy security, affordability, reliability, and decarbonization. As pipelines continue to play a critical role in connecting supply and demand, the decisions made today around investment, operations, technology, regulation, and workforce development will shape the industry's performance, resilience, and public trust for decades to come.

This executive leadership panel will bring together senior leaders from industry and government to discuss how today's strategic choices will influence tomorrow's outcomes. Through perspectives spanning the United States, Canada, and Mexico, panelists will explore the future of pipeline infrastructure, operational excellence, regulatory frameworks, innovation, and talent development in an increasingly dynamic energy system.

Panelists:

- **Tracy Sletto**, Chief Executive Officer, Canada Energy Regulator (CER)
- **Paul Roberti**, Administrator, Pipeline and Hazardous Materials Safety Administration (PHMSA)
- **Hidalgo J. Martinez**, Vice President, Mexico Gas Operations, TC Energy
- **Jason Smith**, Vice President, Asset Integrity, ONEOK
- **Luke Skaarup**, Director, Pipeline Integrity Programs & Engineering, Enbridge Liquids Pipelines

Moderator:

- **Bailey Sartori**, ROSEN and Young Pipeline Professionals (YPP) USA

Tutorials

MONDAY: FULL DAY

Tutorial 1: Pipeline Integrity Evaluations & Engineering Assessments

Theme: Integrity

Presenter: Andrew Cosham

An introduction to the assessment of defects in pipelines. Defect types will be discussed, with emphasis on their potential to result in failure. The background to the commonly applied defect assessment methods will be presented, ranging from workmanship acceptance levels to fitness-for-service assessments.



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- Why do pipelines fail?
- The assessment of defects in pipelines
- How to assess corrosion defects
- How to assess mechanical damage (dents and gouges)
- Pipeline integrity

Tutorial 2: Pipeline Defect and Threat Interaction in Pipeline Integrity Management: Industry Practices on Assessment

Theme: Integrity

Presenters: Chris Holliday, Rebecca Senior

Pipeline failures commonly involve more than one threat and so an effective integrity management program must anticipate the interaction of threats and introduce robust mitigation to minimise the associated likelihood of failure. This one-day tutorial will address a range of interacting pipeline threats, covering both interacting defects and the effects of multiple load sources on common pipeline anomalies. Case studies are used throughout to demonstrate practical application of the theory.

Tutorial 3: Pipeline Risk Management

Theme: Risk & Reliability

Presenters: Smitha Koduru, Alex Tomic

Pipeline risk management tutorial will focus on the introduction to risk and reliability methodologies used in pipeline integrity management. The focus will be on the approaches for quantitative risk assessment and the related issues for real-world pipeline integrity management such as hazards and threats, risk acceptance, risk communication and on-going developments in the industry. The tutorial will include concrete examples of pipeline risk management through case studies in real-world implementations.

Tutorial 4: Pipeline Design and Construction

Theme: Design

Presenter: Alan Murray

Overview of the following fundamentals:

- Concept development
- Hydraulic design considerations for gas, liquid, and two-phase systems
- Route selection, water crossings, and geotechnical issues
- Criteria for materials and coating selection
- Design loads on buried pipe
- Working Stress and Limit States Design Principles
- Construction methods, bending, welding, trenching, directional drilling
- Pressure testing

Tutorial 5: Pipeline In-Line Inspection: Validation and Use of Results & Effective ILI-Based Program with Improved Performance and Economy



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Theme: Integrity

Presenters: Yanping Li, Lyndon Lamborn, Matt Ellinger

This tutorial will address what companies need to do after the data is received from the ILI vendor in order to ensure appropriate excavations and repairs are performed. The checks that should be done to evaluate whether the right excavations are done at the right time:

1. Data quality meet the expectation based on ILI tool specifications and whether there are significant outliers that will trigger additional integrity actions.
2. Different API 1163 validation levels and metrics such as probability of detection (POD), probability of identification (POI) and sizing accuracy will be covered.
3. Decisions based on the validation results will be discussed.

Tutorial 6: Pipeline Dent Assessment & Management

Theme: Mechanical Damage

Presenters: Joe Bratton, Shanshan Wu, Rick Wang

This course trains engineers to evaluate dent features found during in-line pipeline inspections using API RP 1183, which supports regulatory compliance and pipeline integrity. It explains how API 1183 aligns with regulatory requirements for dent engineering critical assessments. Students learn practical dent assessment techniques, regulatory compliant ECA methods, and advanced finite element analysis approaches. The course also covers case studies, indenter profile matching, model setup, post processing, and mitigation or repair strategies.

Tutorial 7: Fracture Mechanics for Pipeline Engineers

Theme: Integrity

Presenters: Steven J Polasik, Jing Ma, Yohann Miglis

What is fracture mechanics and why should you care? The Fracture Mechanics for Pipeline Engineers tutorial will review fracture mechanics, toughness and typical crack-like anomalies in pipelines. Additional topics include: managing cracks, a review of fracture mechanics models, and crack types and growth. Example problems and solutions are also included.

Tutorial 8: CSA Z662 and ASME B31.4/8: A Comparison of Approaches to Pipeline Design and Integrity

Theme: Design

Presenters: Michael Rosenfeld, William (Bill) Simpson

A coordinated, high-level overview of pipeline design using CSA Z662 and ASME B31.4 / B31.8. Each presenter will address the same core design topics within their respective session, enabling participants to directly compare how the two code systems approach similar engineering challenges.

The objective is to provide a practical understanding of both the common foundational elements, and the key differences in design philosophy, structure, and application.

The following areas will be addressed in both sessions:



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- Code structure and overall design philosophy
- Scope, applicability, and key definitions
- Design basis and system classification
- Pressure design concepts and safety factors
- Materials and specification approach
- Design for loads and environmental considerations
- Treatment of special conditions and emerging technologies
- Practical application considerations and common challenges

MONDAY: HALF DAY AM

Tutorial 9: Horizontal Directional Drilling, Risk and Data

Theme: Integrity

Presenters: Dr. Ali Bayat, Urso Campos, Anthony Payoe, Ali Ebrahimi, Jeffrey Schneider

This tutorial provides a comprehensive overview of Horizontal Directional Drilling (HDD) with a specific focus on risk management and data utilization. Industry experts will cover design considerations, geotechnical hazard management, and the owner's perspective on project risk. The session also highlights the critical role of Electronic Data Recorder (EDR) data and digital monitoring in mitigating risks, concluding with an interactive open panel discussion.

Tutorial 10: Machine Learning for Pipelines: Basics, Best Practices, and Projects

Theme: Machine Learning/AI

Presenters: Daryl Bandstra, Shawn Smith

Join us for a tutorial designed specifically for professionals in the pipeline industry who are new to machine learning or are looking to enhance their knowledge of how to apply ML models in practice. Participants will gain an understanding of the latest advancements in machine learning research and development, explore various problem and model types, and learn the essential steps involved in executing a machine learning project.

Key topics covered:

1. Fundamentals of Learning: Grasp the basic concepts and terminology essential for understanding machine learning.
2. Modelling Workflow: Walk through the end-to-end process of using machine learning models, from data strategy and the importance of domain expertise to model application, visualization, and effective communication.
3. Pipeline Industry Case Studies: Examine real-world examples showcasing the successful application of machine learning in the pipeline industry.
4. Best Practices and Recommendations: Receive practical guidance on how to effectively utilize machine learning in your modelling projects.



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Tutorial 11: CO2 Pipelines

Theme: Emerging Fuel

Presenters: Shari Davis, Kenneth Havens, Daniel Sandana

An introduction to the design of CO2 pipelines. This tutorial will focus on the following questions:

- Is there a CO2 industry standard used in engineering and design?
- What technologies are available for producing CO2 and how expensive are they?
- How is a CO2 pipeline different than an oil or gas pipeline?
- What material should be used for CO2 pipelines?
- What are the environmental concerns?
- What are best practices for operation?

Tutorial 12: Linepipe Materials, Welding and Pipeline Construction

Theme: Design

Presenters: Russell Scoles, Steve Rapp

This tutorial will provide the fundamentals of linepipe specifications and manufacturing, field welding, and pipeline construction. Linepipe areas will focus upon alloy systems, steel processing methods, and fracture control. Welding and construction will focus on process overview, procedure, and welder qualification, NDE inspection methods and general construction quality issues.

Tutorial 13: Geohazards in Pipeline Design and Operation

Theme: Geohazard

Presenters: Alex Baumgard, Pete Barlow, Casey Dowling

The purpose of this tutorial is to emphasize the importance of identifying and managing the impact of geohazards, such as landslides and river erosion, on pipeline feasibility and operations. This course is intended for engineers and project managers involved in pipeline routing, design, operations and pipeline integrity. Content will be based around case histories to illustrate how to identify, manage and mitigate geohazards. Major themes will include:

- Introduction to geohazards and their significance on pipeline integrity
- Case histories of geotechnical geohazards including landslides, flow slides, and subsidence
- Overview of seismic hazards including faulting, liquefaction/lateral spreading and induced seismicity
- Case histories of hydrotechnical hazards including exposures and failures from scour and flooding
- How to prioritize and manage geohazards:
 - Development of a geohazard management program
 - Use of tools such as Lidar and IMU to assess sites
 - Monitoring strategies: determining when and how to monitor a site
 - Mitigation strategies: how to protect the pipeline against geohazards

Tutorial 14: Machine Learning in Pipeline Risk Management

Theme: Machine Learning/AI

Presenters: DongLiang Lu, Francois Ayello



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This workshop introduces the fundamentals of Machine Learning (ML) in the context of pipeline integrity and risk assessment, with a focus on how data-driven models can forecast failure modes, quantify uncertainties, and optimize inspections. In the first session, participants will gain a practical understanding of two key ML approaches used in pipeline risk modeling: Artificial Neural Networks (ANN) and Bayesian Networks (BN). We will explore how these methods can uncover hidden patterns and dependencies often missed by traditional rule-based or deterministic techniques. Common challenges, such as overfitting, data limitations, and lack of model transparency, will also be addressed.

The second session bridges theory to application. We will first show how simple ANN and BN models learn, then move to real-world examples: ANNs estimating risk indicators from environmental and operational parameters, and BNs modeling cause-and-effect relationships across multiple threats. These case studies demonstrate how ML enhances traditional engineering analysis and enables more robust, probabilistic, risk-based decision-making. Attendees will leave with a strong foundation in ML methods relevant to pipeline risk management and a practical roadmap for integrating these tools into existing integrity programs.

MONDAY: HALF DAY PM

Tutorial 15: Recommended Practices for Pipeline Repair

Theme: Integrity

Presenters: Pushpendra Tomar, Keith G Leewis, Braden Spitzmacher

This course provides a comprehensive overview of pipeline repairs from anomaly discovery and assessment to repair selection, timing, and execution, supporting technically defensible decisions that are executed right the first time.

Designed for integrity professionals, it covers regulations, industry standards, best practices, and engineering design to strengthen repair reliability, optimize outcomes, and enhance confidence across a range of repair scenarios.

Major themes will include:

- Identification and assessment of anomalies, including required data and assessment methods
- Repair decision-making and timing in accordance with regulations and best practice
- Overview of available repair methods (e.g., cut-out, welded steel sleeves, type C sleeves (PETROSLEEVE®), composite repairs, adhesive bonded steel sleeve, mechanical bolted repairs, and direct weld deposit repairs)
- Repair classification and selection logic: temporary vs permanent, intrusive vs non-intrusive
- Engineering design and execution planning for each repair type
- Operator considerations and field execution, including economics, scheduling, QA/QC, documentation, and safety
- Quality assurance, documentation, and post-repair monitoring
- Overview of regulations, guidance documents and research on repair technologies

Tutorial 16: Cancelled



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Tutorial 17: The Evolution of Thought: From Human Error to Human and Organizational Factors

Theme: Human Factor

Presenter: Dylan Smibert

This tutorial session will trace the development of thinking on human error, from early person-centered views to the broader evolution of human factors and ergonomics, and more recent Human and Organizational Factors/Performance approaches. Using case studies, we will explore how these perspectives help explain operational success and failure in complex, high-hazard industries such as pipelines. The session will also examine how HOF is being understood and applied through the perspectives of the Canada Energy Regulator (CER), Energy Safety Canada, and, ideally, a pipeline company that has begun exploring HOF/HOP in practice (TBD). Together, these perspectives will help ground the discussion in both theory and real-world industry application.

Tutorial 18: Pipeline Integrity (PIMS) Internal Audits: One Step Toward Pipeline Safety Management Systems (PSMS)

Theme: Audit

Presenters: Rafa G. Mora, Kathryn Milne

This tutorial provides a structured and practical approach for conducting Pipeline Integrity Management System (PIMS) internal audits with the strategic objective of supporting the implementation of Pipeline Safety Management Systems (PSMS).

Pipeline integrity management is essential and can become a strong foundation for PSMS maturity. Participants will learn how to assess whether integrity programs are adequate, implemented, and effective; evaluate strengths, compliance, conformance, and areas for improvement; and translate audit findings into a practical PSMS roadmap using a Plan–Do–Check–Act approach.

Key learning themes will include:

- Assessing adequacy, implementation, and effectiveness of pipeline integrity programs
- Connecting probability of failure, consequences, risk tolerability, mitigation measures, barriers and controls, and risk-reduction metrics
- Mapping integrity audit findings into PSMS elements such as leadership, risk management, operational controls, management of change, incident learning, emergency preparedness, competence, assurance, and management review
- Converting audit observations into a phased PSMS implementation roadmap using the Plan–Do–Check–Act cycle

By the end of the tutorial, participants will understand how PIMS internal audits can be conducted and used as one strategic step toward PSMS implementation.

Tutorial 19: IMU ILI Analysis

Theme: Geohazard

Presenter: Doug Dewar



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In-line inspection internal measurement unit technology (ILI IMU) has been used effectively since the turn of the millennium to monitor and manage soil to pipeline interactions due to landslides, settlement/subsidence, and other external/internal forces. The course will detail the technology focusing on vendor analysis and how to apply to geohazard/pipeline integrity programs including a discussion of geo-mechanical strain limits. The course will spend a significant amount of time reviewing actual examples of ILI IMU features.

Tutorial 20: Pipeline Stress Analysis

Theme: Design

Presenters: Kenny Farrow, Bobby Viridi, Justin Bekker

Stress analysis plays a crucial role in ensuring the safety, reliability, and longevity of buried pipelines. This tutorial provides a high-level overview of the fundamentals and applications of buried pipeline stress analysis, covering key topics such as:

1. Purpose of Pipeline Stress Analysis: Understanding the significance of stress analysis in assessing the structural integrity and performance of buried pipelines under various operating conditions and environmental factors.
2. Typical Inputs Required for Stress Analysis: Exploring the essential data and parameters needed to conduct a thorough stress analysis, including pipeline geometry, material properties, operating conditions, and external loads.
3. Typical Loads Acting on a Buried Pipeline: Identifying the distinct types of loads that can affect buried pipelines, such as internal pressure, soil weight, thermal expansion, and external forces.
4. Stresses Generated by Loads: Analyzing the stress distributions and magnitudes induced by several types of loads acting on the pipeline, including axial, bending, and hoop stresses.
5. Pipe-Soil Interaction Modeling: Investigating the complex interaction between pipelines and surrounding soil, including soil properties, trench conditions, and the effects of soil settlement on pipeline stress behavior.
6. Case Studies: Illustrative examples and real-world applications demonstrating the practical implementation of pipeline stress analysis techniques in addressing usual challenges and scenarios.

This tutorial serves as a valuable resource for engineers, researchers, and practitioners involved in the design, operation, and maintenance of buried pipelines, offering insights into the principles, techniques, and best practices of pipeline stress analysis.

WEDNESDAY: HALF DAY PM

Tutorial 21: Role of Pipe-Soil Interaction Analysis in Pipeline Integrity Management

Theme: Geohazard

Presenters: Dr. Kshama Roy, Dr. Ali Fathi

Within this tutorial, we'll delve into the fundamental principles, methodologies, and pragmatic factors concerning pipe-soil interaction analysis. Expect a thorough examination of pipe-soil interaction and its pertinent real-world implementations, especially in the operator's pipeline integrity management plan, catering to engineers, project managers, and individuals engaged in the domains of buried pipeline.



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The tutorial will cover the following topics:

- Fundamentals of soil mechanics & structural mechanics related to pipe-soil interaction analysis
- Role of pipe-soil interaction in the geohazard integrity management plan
- Overview of pipe-soil interaction analysis including calculation of soil spring forces and associated displacements using the design guidelines and limitations of the design guidelines
- Pipe-soil interaction analysis from strain-based design perspective
- Real-life case studies

Tutorial 22: Mastering Root Cause Analysis: Unveiling the Secrets of Pipeline Failure Prevention

Theme: Integrity

Presenters: Phillip Nidd, Lorna Harron

Root cause analysis depends less on the model and more on how it is applied under real conditions, where human performance is the defining variable through bias, pressure, and fragmented ownership of data and decisions. This session focuses on how to recognize and manage those influences within established RCA models, and how AI can support that effort by structuring data, identifying patterns, and exposing gaps in the evidence base. The outcome can define a more disciplined, transparent, and defensible approach to RCA that strengthens human judgment and reduces variability in results.

Tutorial 23: Updates in Industry Practice and Standards Revisions for Enhanced Resilience of Girth Welds Supported by Further Incidents Analysis

Theme: Geohazard

Presenter: Yong-Yi Wang

This tutorial is a follow-up to the tutorial on "Enhanced Welding Practice and Linepipe Specifications to Improve Strain Resistance of Newly Constructed Pipelines" given at IPC 2022. In the 2022 tutorial, mitigative measures were recommended to reduce the risk of low strain failure of girth welds in newly constructed pipelines. This tutorial continues the scheme developed in the 2022 tutorial with updates on new developments. The lessons learnt are further applied to emerging new pipelines, such as hydrogen and CO₂ pipelines, by integrating new material degradation mechanisms with the failure mechanism of traditional pipelines.

The scope of this tutorial is as follows:

1. Recap of the major recommendations of the 2022 tutorial including a brief background information/data that supported the recommendations
2. New development in technical understanding and implementation of the recommendations since the 2022 tutorial
3. Material degradation mechanisms of hydrogen and CO₂ pipelines
4. Recommendations for improved welding practice, including welding procedure qualifications, for traditional and emerging new pipelines
5. Recommendations for enhanced linepipe specifications, including associated test methods, for traditional and emerging new pipelines
6. Holistic risk assessment with the integration of fundamental causes of past incidents and material degradation mechanisms of emerging new pipelines



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7. Systemic and technical gaps that require further attention

Tutorial 24: Hydrogen Pipeline Integrity

Theme: Emerging Fuel

Presenters: Neil Gallon, Otto Jan Huising

- What is the Energy Transition?
- Background to Hydrogen and Introduction to the Differences Between Hydrogen and Natural Gas
- Hydrogen Embrittlement
- H2 Pipeline Codes, Developments and Requirements
- Industry Approach
- Integrity Assessment and Management

Tutorial 25: Pipeline Assessment Methods: Selection of Appropriate Technology on a Threat-by-Threat Basis

Theme: Integrity

Presenter: Matt E... (cut off in source)

This tutorial introduces and discusses three common pipeline integrity assessment methods: direct assessment, in-line inspection, and hydrotesting. The applicability of each method will be compared to typical pipeline threats on a threat-by-threat basis. The pros and cons of each method will be discussed; the impact of recent changes to industry standards and regulations is also covered.

Following this tutorial, attendees will understand the key factors that make direct assessment, in-line inspection, and hydrotesting effective, as well as be able to identify which threats (defects) are best addressed by each integrity assessment method. This tutorial will provide a broad overview of how each integrity assessment method is used, their histories, and potential future improvements based on current technology levels.

Technical Program Tracks

1. **Pipeline Safety Management Systems**

- Safety and Loss Management , Safety Culture, Regulations and Standards, Leadership Accountability and Policy, Management Review and Audits, Training and Competency, Lifecycle Regulatory Frameworks, Quality Management, Risk Management, Management of Change, Process and Personal Safety, Incident Investigation and Lessons Learned, Stakeholder Engagement, Comparison of Regulations and Standards, Integrating Safety, Environment and Emergency Management Programs, Industry Recommended or Best Practices



2. **Project Management, Design, Construction, and Environment**

- Team Leadership, Effective Communication, Collaboration, High Value Engineering, System Planning (Flow Modelling and Hydraulic Simulations as part of Design), Design, Routing, Survey, Logistics, Construction, Quality Control and Quality Assurance, Testing, Commissioning, Coatings, Compressor and Pump Stations, Terminals, Pigging Facilities, Valves, Piping Stress Analysis, Change of Service, Abandonment, Satellite Imaging and Remote Sensing as Part of Design, Field and Inspection Data Management, Geomatics, Global Positioning System Applications, Environmental Case Studies, Socioeconomic Studies, Community Involvement, Permitting Strategies, Reclamation, Mitigation, Abandonment, Land Issues, Emissions, Low-Carbon Transition, Hydrotesting Fluids, Remediation, Environmental Impact Assessments, Cumulative Effects Assessment, Route Selection, Monitoring, Security

3. **Pipeline and Facilities Integrity**

- Pipeline and Facilities Integrity Management (e.g., program development and implementation, lessons learned, and items not covered by other tracks:
 - Hazard and Threat Identification (not including geohazard management – See Track 6)
 - Inspection Methods and Inspection Technologies including:
 - Inline Inspection Technologies (e.g., crack, MFL, UT, tethered tools, geometry, etc.)
 - Inspection Intervals & Scheduling
 - External Corrosion & Control (e.g., Coatings, Cathodic Protection, direct assessment)
 - Internal Corrosion & Control, (e.g., Coatings, coupons, flushing, sampling, inhibitors, direct assessment)
 - Environmental Stress Corrosion & Fatigue Cracking,
 - Mechanical Damage
 - Field and Inspection Data Management,
 - Geographical Information Systems,
 - Inspection data management



- Data Process Reliability
- Defect Assessment and Repair (not including defect assessment and repair of girth welds – See Track 5)
 - Field NDE for ILI Data Validation
 - Corrosion assessment models
 - Cracking flaw assessment models
 - Defect Growth Rates

4. **Operations, Monitoring and Maintenance**

- Applications of Technology, Operating Experience, Preventative-Maintenance Techniques, Lifecycle Engineering, Operating Equipment Optimization, Useful Life Extensions, Operating Cost Reductions, Vendor Alliances, Communications, Automation, Control Devices, Instrumentation, Sensor Technology, Measurement and Metering, Hydraulic Simulations, Leak Detection, Simulation and Trainers, Field and Inspection Data and Records Management, Hydrostatic Testing., Operations reliability and resiliency, ROW Management, Surveillance and monitoring, Emergency planning zones.

5. **Materials and Joining**

- Materials Design, Materials for Alternative Energy, Thermo-mechanically Controlled processing (TMCP), Microstructure-property Relationship, High Strength Steels, Fracture Toughness Requirements, Welding Metallurgy, Properties of Girth Welds, Flaw Acceptance Criteria, Hot Tapping, Mechanical Joining, Joining Alternative Materials, Quality Control and Quality Assurance, Pipe Manufacture, Fittings, Nondestructive Examination

6. **Geohazards Management and Strain-Based Design and Assessment**

- This track focuses on the management of outside force threats that may impose high axial/longitudinal strain/stress, potentially contributing to an undesirable event, such as a leak or rupture. Some of the typical threats are landslides, settlement/subsidence, and hydrotechnical (watercourse/erosion) hazards.
- All aspects of threat management are covered, including the site conditions outside pipes and the responses of the pipes. The management of the threats outside pipes includes



geotechnical aspects of pipeline engineering, geohazard identification/assessment/characterization, characterization of impact on pipelines, scouring analysis, geohazard and hydrotechnical hazards management (e.g., mitigation). The responses of the pipes include characterization of strain/stress demand on pipelines through ILI and other means (e.g., soil/pipe interaction modeling), and the determination of pipelines' resilience/capacity. Holistic approach to threat management that includes all phases of a pipeline's life is encouraged. This approach may include design and construction of strain-resistant pipelines (through purposeful linepipe specifications, welding practice, construction methods, etc.), integrity assessment of existing pipelines through the determination of strain demand and strain capacity under deterministic or risk-based frameworks. This track also covers tools and procedures for threat management, including emerging remote sensing technologies, new ILI technology, new material testing procedures, new construction methods, software tools for fitness-for-service assessment, and industry standards and best practices.

7. **Risk and Reliability**

- Risk and Reliability Assessments, Qualitative and Quantitative Risk Modelling, Risk Based Maintenance Planning, Reliability Based Design and Assessment, Failure Data Analysis and Failure Rate Estimation, Failure Consequence Modelling, Risk Tolerance Criteria and Reliability Targets, Case studies in application of reliability and risk criteria, Case studies in reliability and risk assessments (threat-specific or system-wide), Reliability assessment methodology, Novel risk and reliability assessment frameworks, Uncertainty modelling, Uncertainty propagation in risk and reliability analysis, Data analysis for statistical distribution modelling, Data analysis for likelihood predictions, Statistical analysis of inspection uncertainties for ILI and Field NDE.

8. **Northern, Offshore, Upstream, and Production or Gathering Pipelines**

- Design, operation and maintenance of transmission and upstream (gathering) pipelines, located offshore or in Northern regions, including newbuild, lifetime extension and change-of use-assessment for transmission of hydrogen and carbon dioxide.



- Northern pipeline topics: working in permafrost, stability of frozen slopes, frost heave, thaw settlement, thermal modelling, engineering in cold regions, rapid lake drainage, satellite imaging and remote sensing, GPS applications, effects of climate change on northern pipelines, ice scour, infrastructure/logistics, and carbon capture utilisation and storage.
- Offshore pipeline and flow-line topics: innovative design and analysis of offshore pipelines for installation, in-place analysis, mechanics of pipelines, freespans, lateral and upheaval buckling, pipe-soil interaction, anchor and dropped object damage, corrosion, weld flaws, fatigue design and fracture control, rigid and flexible pipes, pipe-in-pipe, clad and lined pipe and umbilicals. Novel inspection, monitoring, integrity assessment and repair techniques. Innovative technologies for economical deepwater development and production.

9. **Emerging Fuels and Greenhouse Gas Emissions**

- Emerging fuels include renewable natural gas (RNG), Bio-Methane, Hydrogen, Ethanol, Bio-diesel, Ammonia, Carbon Dioxide (CO₂) and others. Innovative solutions for emerging fuels as they relate to: offset of greenhouse gas emissions, conversion of service, new pipeline construction, threat analysis, gathering of biogas, safety considerations, dilution impacts to gas transmission or distribution, impact of conversion on equipment, measurement of emerging fuels, storage, inspection and maintenance, effects on end users, preventative maintenance.
- Greenhouse Gas Emissions includes reduction in methane emissions, and optimization of combustion and efficiency. Methods to improve compressor/pump efficiency. Regulatory considerations for greenhouse gas reductions, portable capture and recovery, methods for reforming greenhouse gases, continuous monitoring of facilities, field repair techniques to avoid blowdowns.



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Tutorials

Monday & Wednesday Tutorial Sessions

MONDAY

FULL DAY

Tutorial 1 — Pipeline Integrity Evaluations & Engineering Assessments

Theme: Integrity | Presenter: Andrew Cosham

An introduction to the assessment of defects in pipelines. Defect types will be discussed, with emphasis on their potential to result in failure. The background to the commonly applied defect assessment methods will be presented, ranging from workmanship acceptance levels to fitness-for-service assessments.

- Why do pipelines fail?
- The assessment of defects in pipelines.
- How to assess corrosion defects.
- How to assess mechanical damage (dents and gouges).
- Pipeline integrity.

Tutorial 2 — Pipeline Defect and Threat Interaction in Pipeline Integrity Management - Industry Practices on Assessment and Mitigation

Theme: Integrity | Presenters: Chris Holliday, Rebecca Senior

Pipeline failures commonly involve more than one threat and so an effective integrity management program must anticipate the interaction of threats and introduce robust mitigation to minimise the associated likelihood of failure. This one-day tutorial will address a range of interacting pipeline threats, covering both interacting defects and the effects of multiple load sources on common pipeline anomalies. Case studies are used throughout to demonstrate practical application of the theory.

Tutorial 3 — Pipeline Risk Management

Theme: Risk & Reliability | Presenters: Smitha Koduru, Alex Tomic

Pipeline risk management tutorial will focus on the introduction to risk and reliability methodologies used in pipeline integrity management. The focus will be on the approaches for quantitative risk assessment and the related issues for real-world pipeline integrity management such as hazards and threats, risk acceptance, risk communication and on-going developments in the industry. The tutorial will include concrete examples of pipeline risk management through case studies in real-world implementations.

Tutorial 4 — Pipeline Design and Construction

Theme: Design | Presenter: Alan Murray

Overview of the following fundamentals:

- Concept development.
- Hydraulic design considerations for gas, liquid, and two-phase systems.



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- Route selection, water crossings, and geotechnical issues.
- Criteria for materials and coating selection.
- Design loads on buried pipe.
- Working Stress and Limit States Design Principles.
- Construction methods, bending, welding, trenching directional drilling.
- Pressure testing.

Tutorial 5 — Pipeline In-Line Inspection – Validation and Use of Results & Effective ILI Based Program with Improved Performance and Economy

Theme: Integrity | Presenters: Yanping Li, Lyndon Lamborn, Matt Ellinger

This tutorial will address what companies need to do after the data is received from the ILI vendor in order to ensure appropriate excavations and repairs are performed. The checks that should be done to evaluate whether the right excavations are done at the right time:

- Data quality meet the expectation based on ILI tool specifications and whether there are significant outliers that will trigger additional integrity actions.
- Different API 1163 validation levels and metrics such as probability of detection (POD), probability of identification (POI) and sizing accuracy will be covered.
- Decisions based on the validation results will be discussed.

Tutorial 6 — Pipeline Dent Assessment & Management

Theme: Mechanical Damage | Presenters: Joe Bratton, Shanshan Wu, Rick Wang

This course trains engineers to evaluate dent features found during in-line pipeline inspections using API RP 1183, which supports regulatory compliance and pipeline integrity. It explains how API 1183 aligns with regulatory requirements for dent engineering critical assessments. Students learn practical dent assessment techniques, regulatory compliant ECA methods, and advanced finite element analysis approaches. The course also covers case studies, indenter profile matching, model setup, post processing, and mitigation or repair strategies.

Tutorial 7 — Fracture Mechanics for Pipeline Engineers

Theme: Integrity | Presenters: Steven J Polasik, Jing Ma, Yohann Miglis

What is fracture mechanics and why should you care? The Fracture mechanics for pipeline engineers tutorial will review fracture mechanics, toughness and typical crack-like anomalies in pipelines. Additional topics include: managing cracks, a review of fracture mechanics models, and crack types and growth. Example problems and solutions are also included.

Tutorial 8 — CSA Z662 and ASME B31.4/8: A Comparison of Approaches to Pipeline Design and Integrity

Theme: Design | Presenters: Michael Rosenfeld, William (Bill) Simpson

A coordinated, high-level overview of pipeline design using CSA Z662 and ASME B31.4 / B31.8. Each presenter will address the same core design topics within their respective session, enabling participants to directly compare how the two code systems approach similar engineering challenges. The objective is to provide a practical understanding of both the common foundational elements, and the key differences in design philosophy, structure, and application. The following areas will be addressed in both sessions:



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- Code structure and overall design philosophy
- Scope, applicability, and key definitions
- Design basis and system classification
- Pressure design concepts and safety factors
- Materials and specification approach
- Design for loads and environmental considerations
- Treatment of special conditions and emerging technologies
- Practical application considerations and common challenges

HALF DAY – AM

Tutorial 9 — Horizontal Directional Drilling, Risk and Data

Theme: Integrity | *Presenters: Dr. Ali Bayat, Urso Campos, Anthony Payoe, Ali Ebrahimi, Jeffrey Schneider*

This tutorial provides a comprehensive overview of Horizontal Directional Drilling (HDD) with a specific focus on risk management and data utilization. Industry experts will cover design considerations, geotechnical hazard management, and the owner's perspective on project risk. The session also highlights the critical role of Electronic Data Recorder (EDR) data and digital monitoring in mitigating risks, concluding with an interactive open panel discussion.

Tutorial 10 — Machine Learning for Pipelines: Basics, Best Practices, and Projects

Theme: Machine Learning / AI | *Presenters: Daryl Bandstra, Shawn Smith*

Join us for a tutorial designed specifically for professionals in the pipeline industry who are new to machine learning or are looking to enhance their knowledge of how to apply ML models in practice. Participants will gain an understanding of the latest advancements in machine learning research and development, explore various problem and model types, and learn the essential steps involved in executing a machine learning project.

Key Topics Covered:

- **Fundamentals of Learning:** Grasp the basic concepts and terminology essential for understanding machine learning.
- **Modelling Workflow:** Walk through the end-to-end process of using machine learning models, from data strategy and the importance of domain expertise to model application, visualization, and effective communication.
- **Pipeline Industry Case Studies:** Examine real-world examples showcasing the successful application of machine learning in the pipeline industry.
- **Best Practices and Recommendations:** Receive practical guidance on how to effectively utilize machine learning in your modelling projects.

Tutorial 11 — CO2 Pipelines

Theme: Emerging Fuel | *Presenters: Shari Davis, Kenneth Havens, Daniel Sandana*

An introduction to the design of CO2 pipelines. This tutorial will focus on the following questions:

- Is there a CO2 industry standard used in engineering and design?



- What technologies are available for producing CO₂ and how expensive are they?
- How is a CO₂ pipeline different than an oil or gas pipeline?
- What material should be used for CO₂ Pipelines?
- What are the environmental concerns?
- What are best practices for Operation?

Tutorial 12 — Linepipe Materials, Welding and Pipeline Construction

Theme: Design | Presenters: Russell Scoles, Steve Rapp

This tutorial will provide the fundamentals of linepipe specifications and manufacturing, field welding, and pipeline construction. Linepipe areas will focus upon alloy systems, steel processing methods, and fracture control. Welding and construction will focus on process overview, procedure, and welder qualification, NDE inspection methods and general construction quality issues.

Tutorial 13 — Geohazards In Pipeline Design and Operation

Theme: Geohazard | Presenters: Alex Baumgard, Pete Barlow, Casey Dowling

The purpose of this tutorial is to emphasize the importance of identifying and managing the impact of geohazards, such as landslides and river erosion on pipeline feasibility and operations. This course is intended for engineers and project managers involved in pipeline routing, design, operations and pipeline integrity. Content will be based around case-histories to illustrate how to identify, manage and mitigate geohazards. Major themes will include:

- Introduction to geohazards and their significance on pipeline integrity.
- Case histories of geotechnical geohazards including landslides, flow slides, and subsidence.
- Overview of seismic hazards including faulting, liquefaction/lateral spreading and induced seismicity.
- Case histories of hydrotechnical hazards including exposures and failures from scour and flooding.

How to prioritize and manage geohazards:

- Development of a geohazard management program.
- Use of tools such as Lidar and IMU to assess sites.
- Monitoring Strategies – Determining when and how to monitor a site.
- Mitigation Strategies – How to protect the pipeline against geohazards.

Tutorial 14 — Machine Learning in Pipeline Risk Management

Theme: Machine Learning / AI | Presenters: DongLiang Lu, Francois Ayello

This workshop introduces the fundamentals of Machine Learning (ML) in the context of pipeline integrity and risk assessment, with a focus on how data-driven models can forecast failure modes, quantify uncertainties, and optimize inspections. In the first session, participants will gain a practical understanding of two key ML approaches used in pipeline risk modeling: Artificial Neural Networks (ANN) and Bayesian Networks (BN). We will explore how these methods can uncover hidden patterns and dependencies often missed by traditional rule-based or deterministic techniques. Common



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challenges — such as overfitting, data limitations, and lack of model transparency — will also be addressed.

The second session bridges theory to application. We will first show how simple ANN and BN models learn, then move to real-world examples: ANNs estimating risk indicators from environmental and operational parameters, and BNs modeling cause-and-effect relationships across multiple threats. These case studies demonstrate how ML enhances traditional engineering analysis and enables more robust, probabilistic, risk-based decision-making. Attendees will leave with a strong foundation in ML methods relevant to pipeline risk management and a practical roadmap for integrating these tools into existing integrity programs.

HALF DAY – PM

Tutorial 15 — Recommended Practices for Pipeline Repair

Theme: Integrity | Presenters: Pushpendra Tomar, Keith G Leewis, Braden Spitzmacher

This course provides a comprehensive overview of pipeline repairs from anomaly discovery and assessment to repair selection, timing, and execution — supporting technically defensible decisions that are executed right the first time.

Designed for integrity professionals, it covers regulations, industry standards, best practices, and engineering design to strengthen repair reliability, optimize outcomes, and enhance confidence across a range of repair scenarios.

Major themes will include:

- Identification and assessment of anomalies, including required data and assessment methods
- Repair decision-making and timing in accordance with regulations and best practice
- Overview of available repair methods (e.g., cut-out, welded steel sleeves, type C sleeves (PETROSLEEVE®), composite repairs, adhesive bonded steel sleeve, mechanical bolted repairs, and direct weld deposit repairs)
- Repair classification and selection logic: temporary vs permanent, intrusive vs non-intrusive
- Engineering design and execution planning for each repair type
- Operator considerations and field execution, including economics, scheduling, QA/QC, documentation, and safety
- Quality assurance, documentation, and post-repair monitoring
- Overview of regulations, guidance documents and research on repair technologies

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Theme: Human Factor | Presenter: Dylan Smibert

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company that has begun exploring HOF/HOP in practice (TBD). Together, these perspectives will help ground the discussion in both theory and real-world industry application.

Tutorial 18 — Pipeline Integrity (PIMS) Internal Audits: One Step Toward Pipeline Safety Management Systems (PSMS)

Theme: Audit | Presenter: Rafa G. Mora

This tutorial provides a structured and practical approach for conducting Pipeline Integrity Management System (PIMS) internal audits with the strategic objective of supporting the implementation of Pipeline Safety Management Systems (PSMS).

Pipeline integrity management is essential and can become a strong foundation for PSMS maturity. Participants will learn how to assess whether integrity programs are adequate, implemented, and effective; evaluate strengths, compliance, conformance, and areas for improvement; and translate audit findings into a practical PSMS roadmap using a Plan–Do–Check–Act approach.

Key learning themes will include:

- Assessing adequacy, implementation, and effectiveness of pipeline integrity programs.
- Connecting probability of failure, consequences, risk tolerability, mitigation measures, barriers and controls, and risk-reduction metrics.
- Mapping integrity audit findings into PSMS elements such as leadership, risk management, operational controls, management of change, incident learning, emergency preparedness, competence, assurance, and management review.
- Converting audit observations into a phased PSMS implementation roadmap using the Plan–Do–Check–Act cycle.

By the end of the tutorial, participants will understand how PIMS internal audits can be conducted and used as one strategic step toward PSMS implementation.

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Theme: Geohazard | Presenter: Doug Dewar

In-line inspection internal measurement unit technology (ILI IMU) has been used effectively since the turn of the millennium to monitor and manage soil-to-pipeline interactions due to landslides, settlement/subsidence, and other external/internal forces. The course will detail the technology, focusing on vendor analysis and how to apply it to geohazard/pipeline integrity programs, including a discussion of geo-mechanical strain limits. The course will spend a significant amount of time reviewing actual examples of ILI IMU features.

Tutorial 20 — Pipeline Stress Analysis

Theme: Design | Presenters: Kenny Farrow, Bobby Virdi, Justin Bekker

Stress analysis plays a crucial role in ensuring the safety, reliability, and longevity of buried pipelines. This tutorial provides a high-level overview of the fundamentals and applications of buried pipeline stress analysis, covering key topics such as:

- Purpose of Pipeline Stress Analysis: Understanding the significance of stress analysis in assessing the structural integrity and performance of buried pipelines under various operating conditions and environmental factors.



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- **Typical Inputs Required for Stress Analysis:** Exploring the essential data and parameters needed to conduct a thorough stress analysis, including pipeline geometry, material properties, operating conditions, and external loads.
- **Typical Loads Acting on a Buried Pipeline:** Identifying the distinct types of loads that can affect buried pipelines, such as internal pressure, soil weight, thermal expansion, and external forces.
- **Stresses Generated by Loads:** Analyzing the stress distributions and magnitudes induced by several types of loads acting on the pipeline, including axial, bending, and hoop stresses.
- **Pipe-Soil Interaction Modeling:** Investigating the complex interaction between pipelines and surrounding soil, including soil properties, trench conditions, and the effects of soil settlement on pipeline stress behavior.
- **Case Studies:** Illustrative examples and real-world applications demonstrating the practical implementation of pipeline stress analysis techniques in addressing usual challenges and scenarios.

This tutorial serves as a valuable resource for engineers, researchers, and practitioners involved in the design, operation, and maintenance of buried pipelines, offering insights into the principles, techniques, and best practices of pipeline stress analysis.

WEDNESDAY

HALF DAY – PM

Tutorial 21 — Role of Pipe-Soil Interaction Analysis in Pipeline Integrity Management

Theme: Geohazard | *Presenters: Dr. Kshama Roy, Dr. Ali Fathi*

Within this tutorial, we'll delve into the fundamental principles, methodologies, and pragmatic factors concerning pipe-soil interaction analysis. Expect a thorough examination of pipe-soil interaction and its pertinent real-world implementations, especially in the operator's pipeline integrity management plan, catering to engineers, project managers, and individuals engaged in the domain of buried pipelines. The tutorial will cover the following topics:

- Fundamentals of soil mechanics & structural mechanics related to pipe-soil interaction analysis.
- Role of pipe-soil interaction in the geohazard integrity management plan.
- Overview of pipe-soil interaction analysis including calculation of soil spring forces and associated displacements using the design guidelines and limitations of the design guidelines.
- Pipe-soil interaction analysis from a strain-based design perspective.
- Real-life case studies.

Tutorial 22 — Mastering Root Cause Analysis: Unveiling the Secrets of Pipeline Failure Prevention

Theme: Integrity | *Presenters: Phillip Nidd, Lorna Harron*

Root cause analysis depends less on the model and more on how it is applied under real conditions, where human performance is the defining variable through bias, pressure, and fragmented ownership of data and decisions. This session focuses on how to recognize and manage those influences within established RCA models, and how AI can support that effort by structuring data, identifying patterns, and exposing gaps in the evidence base. The outcome can define a more disciplined, transparent, and defensible approach to RCA that strengthens human judgment and reduces variability in results.



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Tutorial 23 — Updates in Industry Practice and Standards Revisions for Enhanced Resilience of Girth Welds Supported by Further Incidents Analysis

Theme: Geohazard | Presenter: Yong-Yi Wang

This tutorial is a follow-up to the tutorial on “Enhanced Welding Practice and Linepipe Specifications to Improve Strain Resistance of Newly Constructed Pipelines” given at IPC 2022. In the 2022 tutorial, mitigative measures were recommended to reduce the risk of low strain failure of girth welds in newly constructed pipelines. This tutorial continues the scheme developed in the 2022 tutorial with updates on new developments. The lessons learnt are further applied to emerging new pipelines, such as hydrogen and CO₂ pipelines, by integrating new material degradation mechanisms with the failure mechanism of traditional pipelines. The scope of this tutorial is as follows:

- Recap of the major recommendations of the 2022 tutorial, including brief background information/data that supported the recommendations
- New developments in technical understanding and implementation of the recommendations since the 2022 tutorial
- Material degradation mechanisms of hydrogen and CO₂ pipelines
- Recommendations for improved welding practice, including welding procedure qualifications, for traditional and emerging new pipelines
- Recommendations for enhanced linepipe specifications, including associated test methods, for traditional and emerging new pipelines
- Holistic risk assessment with the integration of fundamental causes of past incidents and material degradation mechanisms of emerging new pipelines
- Systemic and technical gaps that require further attention

Tutorial 24 — Hydrogen Pipeline Integrity

Theme: Emerging Fuel | Presenters: Neil Gallon, Otto Jan Huising

- What is the Energy Transition?
- Background to Hydrogen and Introduction to the Differences Between Hydrogen and Natural Gas
- Hydrogen Embrittlement
- H₂ Pipeline Codes, Developments and Requirements
- Industry Approach
- Integrity Assessment and Management

Tutorial 25 — Pipeline Assessment Methods: Selection of Appropriate Technology on a Threat-by-Threat Basis

Theme: Integrity | Presenter: Matt Ellinger

This tutorial introduces and discusses three common pipeline integrity assessment methods: direct assessment, in-line inspection, and hydrotesting. The applicability of each method will be compared to typical pipeline threats on a threat-by-threat basis. The pros and cons of each method will be discussed; the impact of recent changes to industry standards and regulations is also covered.



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Following this tutorial, attendees will understand the key factors that make direct assessment, in-line inspection, and hydrotesting effective, as well as be able to identify which threats (defects) are best addressed by each integrity assessment method. This tutorial will provide a broad overview of how each integrity assessment method is used, their histories, and potential future improvements based on current technology levels.

Awards

Global Pipeline Award (GPA)

A project, product, device, system, service, approach, or other can receive the award.

The GPA recognizes the pipeline technology innovation process in all phases: from the research laboratory through field applications; from technology incubators to development of markets for new products; from government agencies to private companies; and from individual projects to the consolidation of research and development results.

The PSD intends that the Award:

- Promotes progress and international cooperation in the field of Pipeline Systems engineering
- Supports achievements in pipeline engineering education
- Encourages the timely exchange of information among researchers and engineers
- Promotes technical activities, including conferences, in the field of Pipeline Technology
- Promotes safety and the public welfare
- Promotes global environment preservation
- Promotes public recognition of the pipeline industry

Distinguished Lecturer

Objective

To recognize the technical contributions of individuals that have stood the test of time.

Criteria

- A person or group that has demonstrated through their work and actions that the safety and economy of pipeline systems has been advanced. This demonstration could include a combination of long service, mentoring, research, applying research, and/or the development of new technologies or processes.



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- The goal of the Distinguished Lecture Series is to present papers published over the past several decades that have provided a foundation for modern pipeline technology.
- Significant weight will be given to how the potential honoree's work evolved through their own work and also by serving as the foundation for other work.
- This honor will consider published work and presentations, with significant weight given to contributions to the International Pipeline Conference.
- The individual to be honored will be selected from the nominations based on a considered assessment of the merits (relative comparison) of their work and actions.

Award and Honors

The successful nominee will receive a letter from the current IPC Chair and Vice Chair that recognizes their contribution to the pipeline industry, and they will also receive a plaque. Honorees may also be profiled in various industry publications.

The honoree is to be invited to the Pipeline Systems Division dinner and recognized at the event.

This honor is to be given officially as part of the ceremonies on Wednesday of the conference.

The honoree has the option to provide a lecture on their work and how it has evolved over time as a special session on Wednesday afternoon of the conference. The honoree's decision shall be provided to the Organizing Committee for planning purposes as soon as practical.

Lifetime Achievement Honor

Objective

The Lifetime Achievement Honor was created to recognize long-time contributors to the pipeline industry. The key criterion is a person or group that has demonstrated through their work and actions that the safety and economy of pipeline systems has been advanced. This demonstration could include a combination of long service, mentoring, industry leadership, or the development of new technologies or processes.

The inspiration for the award was to recognize long-time contributors to the pipeline industry such as the 2016 winner Mr. Henry Yamauchi. Mr. Yamauchi continuously provided mentoring and guidance to young pipeline professionals and peers, and contributed to pipeline standards development and the advancement of pipeline technologies and practices. Henry recently retired at the age of 90 after starting his career in the oil and gas industry in 1947, which included almost 60 years of employment at Westcoast Energy (acquired by Duke Energy, later known as Spectra Energy, and later Enbridge).

Criteria



- A person or group that has demonstrated through their work and actions that the safety and economy of pipeline systems has been advanced. This demonstration could include a combination of long service, mentoring, development of new technologies, or processes.
- This award will consider published work and presentations; however, these will not be the primary consideration in making the award.
- The individual to be honored will be selected from the nominations based on a considered assessment of the merits (relative comparison) of their work and actions.

Award and Honors

The successful nominee will receive a letter from the current IPC Chair and Vice Chair that recognizes their contribution to the pipeline industry, and they will also receive a plaque. Honorees may also be profiled in various industry publications.

The honoree is to be invited to the Pipeline Systems Division dinner and recognized at the event.

This honor is to be given officially as part of the closing ceremonies on Friday of the conference.

Young Pipeline Professional Honor

Objective

This honor recognizes young pipeline professionals who have made a significant contribution to the energy pipeline industry by addressing challenges related to social, safety, integrity, operational excellence, or engineering issues. These future leaders have demonstrated an ability and willingness to influence the future of the energy pipeline industry in the 21st century.

Criteria

- The honor is limited to pipeline professionals who are 35 or under before the first day (Monday) of the conference.
- Must have a minimum of three years of experience in the pipeline industry.
 - Student co-op placements and internships are not to be included in the three years.
 - PhD-level research specific to pipelines may count toward the three years and may be weighted differently than industry experience.
- Applicants must work at a pipeline company, pipeline-related service provider, regulator, or other pipeline industry organization.
 - University professorships may also count, but research and/or lecture topics must be related to pipelines.
- Made a substantial contribution toward the betterment of the pipeline industry (e.g., development or application of a new technology, significant involvement in an industry organization, or leadership of a significant initiative for company improvement).



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- Leveraged experience and knowledge to create opportunities for and enhance the development of other young pipeline professionals.
- Led the promotion of the value and trustworthiness of the pipeline industry in a public manner (e.g., innovative technical presentations, other presentations, social media, etc.).
- Demonstrated an ability and willingness toward continuous improvement for themselves, their company, and the industry as a whole.

Nominations / Applications

- References: Candidates must include two written references:
 - One reference from an existing employer or client (max 500 words) highlighting exceptional leadership abilities and contributions to the industry.
 - One peer reference (max 500 words) highlighting current or previous work or volunteer experience.
- Personal statement: A personal statement (max 500 words) describing career aspirations related to the energy pipeline industry.
- Current resume

Award and Honors

The successful nominee will receive a letter from the current IPC Chair and Vice Chair that recognizes their contribution to the pipeline industry, and they will also receive a memento. Honorees may also be profiled in various industry publications.

The honoree is to be invited to the Pipeline Systems Division dinner and recognized at the event.

This honor is to be given officially as part of the closing ceremonies on Friday of the conference.

Business Innovation Excellence Honor

Objective

This honor recognizes pipeline professionals who have grown and developed businesses through innovation (translating research into action) and who are responsible, over their lifetime, for helping create the modern 21st-century energy pipeline industry. These individuals have identified and developed research opportunities, transformed research into viable and successful business ventures, and demonstrated that technical research and development can translate into business success.

The inspiration for the award was to recognize long-time contributors to the pipeline industry with a history of both business innovation excellence and strong industry contribution. Dick Williamson received the Lifetime Achievement Honor in 2020, though it was later argued in 2022 that his life's work with T.D. Williamson aligned more closely with the spirit of the Business Innovation Excellence Honor. A comparison with Daryl Ronsky led to the decision to establish this new award. Both candidates have



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demonstrated a long history of philanthropic contributions and business innovation excellence within the pipeline industry.

Criteria

- A person or group that has demonstrated through their work and actions that the safety and economy of pipeline systems has been advanced, primarily through a life's work of developing research opportunities and converting them into successful business ventures.
- A key factor is the consistent demonstration of converting research into outstanding business success.
- Other factors may include long service, mentoring, and development of new technologies or processes.
- Published work and presentations may be considered but will not be the primary basis for the award.
- The individual to be honored will be selected from the nominations based on a considered assessment of the merits (relative comparison) of their work and actions.

Award and Honors

The successful nominee will receive a letter from the current IPC Chair and Vice Chair that recognizes their contribution to the pipeline industry, and they will also receive a memento. Honorees may also be profiled in various industry publications.

The honoree is to be invited to the Pipeline Systems Division dinner and recognized at the event.

This honor is to be given officially as part of the closing ceremonies on Friday of the conference.

ASME PSD Emeritus Poster Recognition Program

The ASME PSD Emeritus Poster Recognition Program, part of the International Pipeline Conference 2026, recognizes individuals who have made outstanding contributions to the pipeline industry through technical excellence, leadership, and dedication to advancing our profession.

We invite our pipeline community to submit nominations for professionals whose legacy deserves to be recognized and celebrated.

Candidates may be recognized for:

- Significant technical contributions to the pipeline industry
- Leadership and long-term support of the International Pipeline Conference or ASME Pipeline Systems Division
- Impactful participation in ASME Codes and Standards Committees



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This recognition includes a commemorative poster honoring the individual's career achievements, which will also become a meaningful keepsake for their family.

Exposition

Exhibition Hours

Tuesday, 22 September 2026 | 10:00 - 17:00

Wednesday, 23 September 2026 | 10:00 - 17:00

Thursday, 24 September 2026 | 10:00 - 14:00

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