



19TH PIPELINE TECHNOLOGY CONFERENCE

8-11 APRIL 2024, BERLIN

AN EVENT BY



EVENT GUIDE

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The background of the slide is a high-quality photograph of a large industrial machine, likely a pipe welding or inspection equipment. It features a large, metallic, cylindrical body with various mechanical components, including gears, bolts, and a central circular opening. The lighting is bright, highlighting the metallic surfaces and the intricate details of the machinery.

Welcome to the 19th Pipeline Technology Conference!

8 - 11 April 2024
Estrel Congress Center
Berlin, Germany

#ptcBerlin

Topic Overview

Table of Contents

Page 04 //

Introduction

Page 06 //

ptc Advisory Committee

Page 08 //

Conference Agenda

Page 10 //

Social Program & ptc Seminars

Page 12 //

Global Women in Pipeline

Page 14 //

Conference Program

Page 32 //

Floor Plan & Exhibitor List

Page 38 //

YPI Adward & Young Pipeliners



Get involved now and join the **flagship European conference & exhibition** for the international pipeline community.

Introduction

Shaping the Future of Pipelines on a Global Stage in Berlin

The 19th Pipeline Technology Conference (ptc 2024) takes place in Berlin from 8 - 11 April 2024. Europe's premier conference and exhibition for pipeline industry professionals offers a look into the pipeline future. With a broad range of 1-day seminars, panel discussions, technical sessions, operator round-tables, award ceremonies and social events, attendees will have a comprehensive experience.

The pipeline industry is currently navigating a dynamic landscape fraught with an array of unique political, economic and technical challenges across different continents, including Europe, North America, Latin America, Asia, and Africa. Against this backdrop, ptc 2024 provides a vital platform for the international pipeline community to share invaluable experiences, technical advancements, and lessons learned.

The ptc is much more than an annual gathering. It is an opportunity for the industry elite – pipeline operators, industry leaders, experts, and young talent – to come together and shape the future of the industry. We will delve deep into political challenges, explore cutting-edge technological developments, and present real-world case studies that demonstrate our commitment to a net-zero emissions future in Germany, Europe and the rest of the world.

I would like to take this opportunity to thank our dedicated ptc Advisory Committee, as well as the entire pipeline community for their ongoing support and contributions to the industry.

Welcome to Berlin!!

A handwritten signature in cursive script that reads "Dennis Fandrich".

Dennis Fandrich, Pipeline Technology Conference Chairman

Join the pipeline community in Berlin

Global Exchange and Collaboration

The premier global platform for [pipeline operators](#), technology and service providers, researchers and public services.

Global Audience of Pipeline Operators

The much-anticipated conference and exhibition will once again serve as the epicenter of knowledge exchange, innovation, and collaboration for the global pipeline community. With 80+ exhibiting companies and 1,000+ participants from 50+ different countries, the ptc is a truly global event.

More than 80 pipeline operating companies send delegations, and one out of three participants in Berlin comes from a pipeline operator.

Technological Excellence

ptc's core lies in its comprehensive technical program, encompassing more than 120 presentations across 34 technical sessions. These sessions, conducted in six concurrent tracks, provide a deep insight into the latest developments and advancements in pipeline technology. The selection of papers is based on a quality review by the members of the ptc Advisory Committee. All papers are published after the event on an open access basis via the ptc Pipeline Open Knowledge Base.

Promotion of Young Talent

The Pipeline Technology Conference features a variety of opportunities for young people to get involved into the organization of the event and it will host different awards ceremonies for both students and young professionals. The EITEP Institute is committed to fostering the next generation of pipeline professionals and cooperates with different young pipeline professional communities from around the world.

A dedicated ptc Young Pipeliners Engagement Committee (YPEC) assists in engaging, inspiring, and empowering young pipeliners to succeed and drive innovation in the industry.

Europe's Biggest Pipeline Event

After starting as a small side event of the huge Hannover Messe trade show in 2006, the ptc rapidly evolved into Europe's premier pipeline conference and exhibition. Over the years, the conference has garnered significant attention and participation from industry leaders, experts, and professionals from around the world, and the exhibition has similarly grown in scale and prominence.

Since 2014 the ptc takes place in Berlin. From the very beginning, all technical papers are published on an open access basis via the unique ptc Pipeline Open Knowledge Base.

Chair & Members

ptc Advisory Committee

Central to the ptc, the **Advisory Committee** provides **invaluable guidance and expertise**, steering the conference's direction and ensuring its content remains cutting-edge and relevant.

Chair



Dirk Strack
Senior Advisor, EITEP
Institute

Members

	Ulrich Adriany Senior Technical Expert, ARCADIS Deutschland		Pawan Agarwal Vice President, HPCL-Mittal Pipelines		Jameel Banoo Facilities Planning Consultant, Saudi Aramco
	Boris Böhm Business Develop- ment & Equipment, MAX STREICHER		Michael W. Cech Head of Pipeline JV's and Shipping, OMV Refining & Marketing		Andreas Cieslik Vice President - Head of Pipelines, Evonik Operations
	Massimiliano (Max) Cimmino New Units Growth Leader – Pipeline & Gas Storage, Baker Hughes		Sönke Deppe Head of Network De- partment, GASCADE Gastransport		Cindy Dirkx Independent Pipeline Professional, Dirkx PM&S
	Dr. Marion Erdelen-Peppler President, EPRG - European Pipeline Research Group		Jens Focke Senior Account Executive, Esri Deutschland		Carles Giro Business Area Man- ager, ILF Consulting Engineers
	Marcelino Guedes Gomes Partner & Co-found- er, PIPELINEBRAZIL		Georges Hage Executive Secretary, IPLOCA		Andreas Haskamp, Pipeline Joint Ven- ture Management, BP Europa SE

	Dr. Thomas Hennig Vice President Technology, NDT Global		Simon Herrenknecht Head of Business Division Pipeline, Herrenknecht AG		Jörg Himmerich Managing Director / Technical Expert, Dr.-Ing. Veenker Ing.-ges.
	Dr. Thomas Hüwener Managing Director Technical Services, Open Grid Europe		Mark David Iden Chief Executive Officer, SkyData Air&Space		Barbara Jinks Consultant
	Cliff Johnson President, PRCI - Pipeline Research Council International		Dr. Mike Kirkwood Director - Integrity Engineering, T.D. Williamson		Mike Liepe Technical Sales and Global Projects, Siemens Energy
	Martin Mans Managing Director, LIWACOM		Brigham McCown CEO, Nouveau		Danny Molyneux Technical Advisor, Quest Integrity
	Julia Möller Senior Consultant Oil & Gas, Siemens		Sameera Naib Chair, YPP Europe		Mohd Nazmi Napiah Custodian/Head/ Group Technical Authority (Pipeline Eng.), PETRONAS
	Steffen Paeper Consultant		Bruno Pomaré Business Development Director, Spiecapag		Dr. Prodromos Psarropoulos Structural & Geotechnical Engineer, National Technical University of Athens
	Frank Rathlev Manager of Network Operations, Thys-sengas		Erik Cornelissen Co-Chief Executive Officer, ROSEN Group		Prof. Dr. Jürgen Schmidt Managing Director, CSE Center of Safety Excellence
	Ulrich Schneider Consultant		Guntram Schnotz Expert / Pipeline, TÜV SÜD Industrie Service		Asle Venas Senior Principal Pipeline Specialist, DNV
	Roger Vogel Consultant		Rienk de Vries CEO, Intero Integrity		Paul Waanders Int. Sales Manager, Maats Pipeline Professionals
	Heinz Watzka Senior Advisor, EITEP Institute		Max Wedekind Managing Director, DENSO Group		

Program Overview

Exploring ptc: Latest Topics and Agenda Highlights!



Media

Bio Methane • District Heating • Cooling • Electricity • Hydrogen • Natural Gas • Oil • Petrochemicals • Slurry • Wastewater • Water • Others

Fields of Work

Cathodic Protection • Climate Impact • CO2 Transportation • Coating • Construction • Corrosion • Difficult to Inspect • Digitalization • Geohazards • Hydrogen Transportation • Illegal Tapping • Inline Inspection • Integrity Management • Laws and Regulations • Leak Detection • Management & Safety • Materials • Methane Emissions • Monitoring • Offshore Technologies • Pump & Compressor Stations • Risk Assessment • Simulation • Welding

ptc Conference

Tue. 9 April: 09:00-17:45
Wed. 10 April: 09:00-17:45
Thu. 11 April: 09:00-13:30

ptc Exhibition

Tue. 9 April: 08:00-19:30
Wed. 10 April: 09:00-17:45
Thu. 11 April: 09:00-14:00

ptc Seminars

Mon. 8 April: 09:00-17:00

Global Women in Pipeline

Mon. 8 April: 10:00-18:00

ptc Workshops

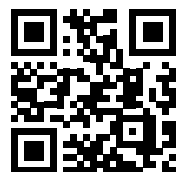
Thu. 11 April: 14:00-17:00

ptc Operator Round Tables

Thu. 11 April: 14:00-16:00

Visitor figures for the 19th Pipeline Technology Conference are independently collected and certified by the FKM (Society of Voluntary Control of Fair and Exhibition Statistics) and published in the AUMA exhibition catalogue.

➔ **AUMA catalogue:** <https://s.eitep.de/auma>



SCAN ME

MONDAY, 08 APRIL 2024

ptc Seminars

Global Women in Pipeline

ptc Advisory Committee Meeting

ptc Meetup

TUESDAY, 09 APRIL 2024

ptc Exhibition	ptc Conference	Opening / Welcome					
		Keynote Speech: "Safeguarding Energy Supplies in a Complex Geopolitical Landscape: The Key Role of Pipeline Infrastructures"					
		Panel Discussion: "Pipeline Resilience: Ensuring a Safe and Secure Energy Supply"					
		Panel Discussion: "Innovation and Collaboration: Tackling Methane Emissions in Pipeline Systems"					
		Keynote Speech: "The German Hydrogen Core Network - Status of Planning"					
		Panel Discussion: "Standards & Regulatory Framework and Special Requirements for Hydrogen Transportation"					
	1.1 Inline Inspection & Integrity Management	2.1 Hydrogen	3.1 Materials	4.1 Leak Detection	5.1 Offshore Technologies	6.1 Management & Safety	
Get together							

WEDNESDAY, 10 APRIL 2024

ptc Exhibition	ptc Conference	1.2 Inline Inspection & Integrity Management	2.2 Hydrogen	3.2 CO ₂ Transportation	4.2 Monitoring	5.2 Offshore Technologies	6.2 Construction
		1.3 Inline Inspection & Integrity Management	2.3 Hydrogen	3.3 CO ₂ Transportation	4.3 Methane Emissions	5.3 Offshore Technologies	6.3 Coating
		1.4 Inline Inspection & Integrity Management	2.4 Hydrogen	3.4 Difficult to Inspect	4.4 Geohazards	5.4 Pump & Compressor Stations	6.4 Corrosion
		1.5 Inline Inspection & Integrity Management	2.5 Hydrogen	3.5 Difficult to Inspect	4.5 Geohazards	5.5 Pump & Compressor Stations	6.5 Cathodic Protection
Dinner Invitation							

THURSDAY, 11 APRIL 2024

ptc Exhibition	ptc Conference	1.6 Inline Inspection & Integrity Management	2.6 Simulation	3.6 Digitalization	4.6 Welding
		Panel Discussion: “Digital Transformation and AI: Shaping the Future of Pipeline Operations”			
		Plenary Session: “World Pipeline Outlook”			
		Award Ceremony: “Dr. Klaus Ritter Award for Best Young Pipeliner Paper”			
		Award Ceremony ptc Photo Contest: “Working in the pipeline industry”			
		Closing Remarks			
ptc Workshops (free access for all delegates)				ptc Operator Round Tables (free access / for pipeline operators only)	

Overview

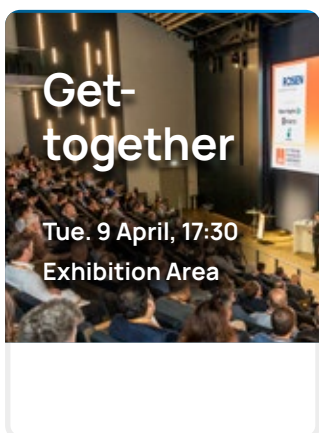
Social Program



Background: Before the ptc conference's official opening, EITEP Institute invites speakers, exhibitors, and Advisory Committee members for a pre-event gathering.

Participants: Invitation only: conference speakers, session chairs, exhibitors, sponsors and the members of the ptc Advisory Committee

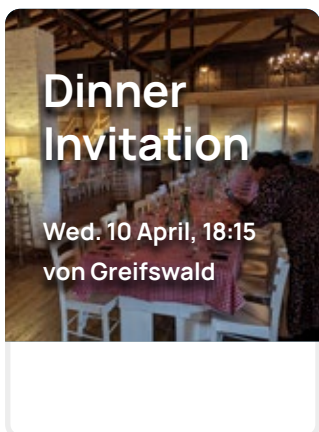
Dress code: Smart casual



Background: The ptc's Get-together is the main party, held in the exhibition hall with diverse food and beverage stations. It's a fantastic evening for networking, quality catering, and the YPI Awards Ceremony.

Participants: All participants of ptc on Tuesday, 9 April 2024

Dress code: Business casual



Background: On Wednesday evening, ptc 2024 culminates with an exquisite dinner invitation at the renowned "von Greifswald". The evening celebrates not just the culinary arts, but the stories that each dish holds. As we partake in this evening, we are not merely eating; we are tracing the roots of the regional and seasonal dishes that grace our plates.

Participants: Additional registration required (first come first serve). Spouses / partners are cordially invited as well.

Dress code: Smart casual

ptc Seminars Overview

Monday, 08 April 24: ptc Seminars

The 1-day ptc Seminars are scheduled for 08 April 2024. These seminars are set to occur just one day before the ptc Conference and the ptc Exhibition open. This timing allows participants to engage in these intensive seminars right before diving into the broader events of the conference and exhibition.



Microbiologically-Influenced Corrosion (MIC) in Pipelines, Detection and Prevention

Dr. Tony Rizk



Difficult to Inspect Pipelines

Dr. Konrad Reber



Risk Assessment and Management of Pipeline Projects subjected to Geohazards

Dr. Andreas Antoniou
Dr. Prodromos Psarropoulos



Fundamentals of Hydrogen Pipeline Integrity

Neil Gallon



US Pipeline Safety Laws and Regulations

Keith Coyle



In-Line Inspection of Pipelines

Dr. Michael Beller

➤ More information about the ptc Seminars:
www.pipeline-conference.com/seminars



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Some seminars are recognized as training session for engineers and consulting engineers within the German Chambers of Engineers.

Global Women Forum (♀ **Venue:** Room 15)

Monday, 08 April 24: Global Women in Pipeline

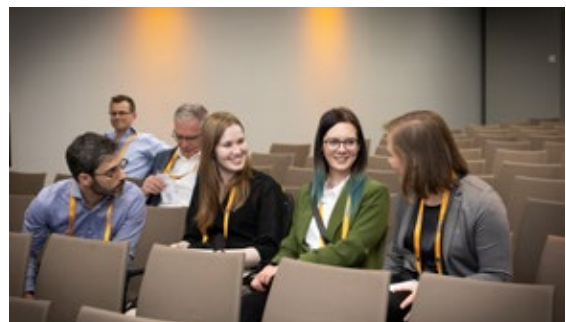


Welcome to Global Women in Pipeline – a dynamic gathering aimed at connecting and inspiring women in the pipeline industry worldwide.

In an era where diversity and inclusion are critical components of success, this event serves as a powerful platform to highlight the significance of women's contributions to the pipeline business.

Discussing an array of engaging activities, importance of empowering, mentoring programs etc, we emphasize the pivotal role women play in fostering business diversity and driving innovation in this sector. The importance of the Global Women in Pipeline event lies in its ability to create

a space for collaboration, knowledge sharing, and empowerment. Women bring unique perspectives and insights to the pipeline industry, enriching its capabilities for innovation and progress. By recognizing and amplifying their role, we pave the way for a more inclusive and equitable business environment that benefits everyone.



MONDAY, 08 APRIL 24	
10:00-10:30	Registration and Welcome coffee Start the day by checking in, and networking with fellow attendees.
10:30-11:00	Event Opening and Keynote Session: “Empowering Diversity in Pipeline Business” Engaging talk by a trailblazing female leader in the industry.
11:00-11:45	Panel Discussion: “Navigating Challenges: Women’s Experiences in the Pipeline Sector” <ul style="list-style-type: none"> • Session Chair: Cindy Dirkx, Independent Pipeline Professional, Dirkx PM&S, Netherlands • Dr. Kelly Bailey, Owner / President, Cooper Resources LLC, United States • Edna Michelle Bisso Bi Mba, Head of Reservoir Services I SPE Germany Section Treasurer I Co-Chair Wintershall Dea Women’s Network, Germany • Deepak Gupta, Director Projects, GAIL (India), India
11:45-12:30	Panel Discussion: “Empowering Women in Pipeline: A Global Perspective on Workplace Development” <ul style="list-style-type: none"> • Session Chair: Julia Moeller, Senior Consultant Oil & Gas, Siemens, Germany • Renata Lins Reis, Planning and Scheduling Engineer na, NTS - Nova Transportadora do Sudeste, Brazil • Diana Junquera Curriel, Director Energy Industry and Just Transition, IndustriALL Global Union, Switzerland • Reena Sahney, President, jiva consulting, Canada
12:30-13:45	Lunch break
13:45-14:30	Interactive Workshop: “Leadership Skills for Success” Participate in hands-on activities and group discussions focusing on key leadership skills and strategies
14:30-15:15	Coffee break
15:15-15:45	Fireside Chat: “Innovation and the Future of Pipeline Business” Candid conversation with an industry visionary about trends and opportunities. <ul style="list-style-type: none"> • Session Chair: Yvonne van den Berg, Co-founder & Chief of Staff, INGU, Canada • Lena Muscillo, Presidente, LogIC sas, France
15:45-16:45	Diversity Mentoring Sessions One-on-one and group mentoring sessions for personal guidance.
16:45-18:00	Closing Remarks and Interactive Networking Reflect on the day’s insights and engage in a creative networking activity designed to connect attendees in a fun and memorable way.

➤ More information about Global Women in Pipeline:
www.pipeline-conference.com/global-women-pipeline



SCAN ME

ptc Program

Conference Program

MONDAY, 08 APRIL 24	
09:00-17:00	<p>ptc Seminar Seminar: Difficult to Inspect Pipelines (♀ Venue: Room 10)</p> <p>Additional registration required. For details please visit: → www.pipeline-conference.com/seminars</p>
	<p>ptc Seminar Seminar: Fundamentals of Hydrogen Pipeline Integrity (♀ Venue: Room 9)</p> <p>Additional registration required. For details please visit: → www.pipeline-conference.com/seminars</p>
	<p>ptc Seminar Seminar: In-Line Inspection of Pipelines (♀ Venue: Room 8)</p> <p>Additional registration required. For details please visit: → www.pipeline-conference.com/seminars</p>
	<p>ptc Seminar Seminar: Microbiologically-Influenced Corrosion (MIC) in Pipelines, Detection and Prevention (♀ Venue: Room 6)</p> <p>Additional registration required. For details please visit: → www.pipeline-conference.com/seminars</p>
	<p>ptc Seminar Seminar: Risk Assessment and Management of Pipeline Projects subjected to Geohazards (♀ Venue: Room 7)</p> <p>Additional registration required. For details please visit: → www.pipeline-conference.com/seminars</p>
	<p>ptc Seminar Seminar: US Pipeline Safety Laws and Regulations (♀ Venue: Room 14)</p> <p>Additional registration required. For details please visit: → www.pipeline-conference.com/seminars</p>
10:00-18:00	<p>Global Women in Pipeline Global Women in Pipeline (♀ Venue: Room 15)</p> <p>Additional registration required. For details please visit: → www.pipeline-conference.com/global-women-pipeline</p>
19:30-22:00	<p>Social Gathering ptc Meetup (on invitation only) ♀ Venue: La Terrasse, Estrel Hotel</p>

TUESDAY, 09 APRIL 24

08:00-
09:00**Social Gathering** **Welcome Coffee**(📍 **Venue:** Exhibition Hall)09:00-
09:15**Oral** **Opening**(📍 **Venue:** Auditorium)**Speaker:** Dennis Fandrich, EITEP Institute, Germany09:15-
10:00**Keynote Speech** **Safeguarding Energy Supplies in a Complex Geopolitical Landscape: The Key Role of Pipeline Infrastructures**(📍 **Venue:** Auditorium)

Once considered separate from broader national and global affairs, energy now intricately intersects with geopolitics, shaping agendas like never before. Whether in abundance or scarcity, energy availability is a key determinant of geopolitical strength. Ensuring reliable, affordable energy delivery has become paramount for governments and corporations alike, alongside the imperative to protect critical infrastructure. Incidents such as those affecting energy networks and pipeline systems signal a new reality, highlighting the need for heightened vigilance amid evolving energy dynamics.

Speaker: Brigham McCown, Hudson Institute, United States10:00-
11:00**Panel Discussion** **Pipeline Resilience: Ensuring a Safe and Secure Energy Supply**(📍 **Venue:** Auditorium)

This panel brings together global pipeline operators in a vital discussion on fortifying the industry against external threats. Pipeline resilience is not just a technical issue; it is a critical aspect of global energy security. Attendees can expect to gain valuable insights into the intricate challenges posed by cyber threats, emergency events, blackouts, and terrorism in the context of pipeline operations. The panel discussion aims to provide a holistic understanding of pipeline resilience in the context of promoting a safe, secure, and sustainable energy future.

Session Chair: Mike Kirkwood, T.D. Williamson, United Kingdom**Panelist:** Jameel Banoo, Saudi Aramco, Saudi Arabia**Panelist:** Simon Joyce, UKOPA / SGN, United Kingdom**Panelist:** Deepak Gupta, GAIL (India), India**Panelist:** Benjamin Schmitt, University of Pennsylvania, United States**Panelist:** Christian Heinz, ILF Consulting Engineers, Germany

➤ All abstracts, papers and latest updates:
www.pipeline-conference.com/program



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TUESDAY, 09 APRIL 24

11:00-
12:00**Panel Discussion** **Innovation and Collaboration: Tackling Methane Emissions in Pipeline Systems**(📍 **Venue:** Auditorium)

The panel brings together global pipeline experts to address critical issues surrounding methane emissions.

The discussion focuses on pioneering solutions and collaborative strategies to mitigate environmental impact, enhance operational efficiency, and promote sustainable practices within the industry. Participants will explore cutting-edge technologies, best practices, and collaborative approaches aimed at minimizing methane emissions in pipeline systems, fostering a united effort to address environmental challenges on a global scale.

Session Chair: Cliff Johnson, PRCI - Pipeline Research Council International, United States

Panelist: Linda Daugherty, PHMSA - Pipeline and Hazardous Materials Safety Administration, United States

Panelist: Michael Kleemiß, Gasunie Deutschland Transport Services GmbH, Germany

Panelist: Mures Zarea, GERG - European Gas Research Group / ENGIE, Belgium

12:00-
14:00**Social Gathering** **Lunch Break**(📍 **Venue:** Exhibition Hall)14:00-
14:15**Keynote Speech** **The German Hydrogen Core Network - Status of Planning**(📍 **Venue:** Auditorium)

The hydrogen core network forms the basic framework for the development of the hydrogen infrastructure in Germany. The core network will connect key hydrogen locations throughout Germany, such as large industrial centers, storage facilities, power plants and import corridors. This makes the hydrogen core network a central infrastructure for the future, without which the further decarbonization of our energy supply and important branches of the industry cannot succeed. The rapid and efficient implementation of the core network is a basic prerequisite for the successful market ramp-up of the hydrogen economy.

Speaker: Stefan Wenzel, Federal Ministry for Economic Affairs and Climate Action (BMWK), Germany

➤ All abstracts, papers and latest updates:
www.pipeline-conference.com/program



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TUESDAY, 09 APRIL 24

14:15-
15:15**Panel Discussion** Standards & Regulatory Framework and Special Requirements for Hydrogen Transportation

(Venue: Auditorium)

In this pivotal panel discussion, industry experts will examine the critical considerations surrounding the transportation of hydrogen through pipelines. The focus will be on the regulatory framework that governs hydrogen pipeline safety and addressing the unique requirements associated with handling this versatile energy carrier. Pipeline operators from around the world will gain valuable insights into regulatory compliance, risk mitigation strategies, and best practices for ensuring the safe operation of hydrogen pipelines.

Session Chair: Barbara Jinks, Advisor - green gases, Germany**Panelist:** Sebastian Belz, CMS Hasche Sigle, Germany**Panelist:** Bruno Pomaré, IPLOCA - International Pipe Line & Offshore Contractors Association / Spiecapag, Switzerland / France**Panelist:** Alan K. Mayberry, PHMSA - Pipeline and Hazardous Materials Safety Administration, United States**Panelist:** Peter van de Camp, POF - Pipeline Operators Forum / Shell Global Solutions International, Netherlands**Panelist:** Björn Munko, DVGW - German Technical and Scientific Association for Gas and Water, Germany15:15-
16:00**Social Gathering** Coffee Break

(Venue: Exhibition Hall)

Sponsored by:

Pipeline & Gas Journal16:00-
17:45**Oral-Session 1.1** (Venue: Room 15)**1.1 Inline Inspection & Integrity Management****Session Chair:** Katherine Hartl, NDT Global, Germany

16:00 Innovative Pipeline Inspection Technique: Tackling Complex Manifold Challenges with a Dual-Tool Assembly
Speaker: Manuel Alonso, Intero Integrity, Spain

16:25 Innovative and Accurate Time-Based Crack Sizing ILI Tool for Greater Pipeline Reliability
Speaker: Joseph Krynicki, ExxonMobil, United States / Levi Porter, Dexon Technology, Thailand

Oral-Session 2.1 (Venue: Auditorium)**2.1 Hydrogen****Session Chair:** Guntram Schnotz, TÜV SÜD Industrie Service GmbH, Germany

16:00 Challenges with Hydrogen Blending in Natural Gas
Speaker: Michael Kasch, ILF Consulting Engineers, Germany

16:25 State of the art of the integrity assessments in Hydrogen pipelines
Speaker: Sameera Naib, SafeH2pipe consortium (ROSEN Europe), Netherlands

There are 6 parallel sessions at this time!

TUESDAY, 09 APRIL 24		
cont. 16:00-17:45 There are 6 parallel sessions at this time!	Oral-Session 1.1 (♀ Venue: Room 15) 1.1 Inline Inspection & Integrity Management	Oral-Session 2.1 (♀ Venue: Auditorium) 2.1 Hydrogen
	16:50 ILI Axial Strain Measurement - sharing of over 10 years of operational experience and technology advances for the future Speaker: Mohamed ElSeify, Baker Hughes, Canada	16:50 Risk Assessment of Hydrogen and Natural Gas Pipelines Speaker: Jack Rowell, Penspen, United Kingdom
	17:15 Optimizing Pipeline Integrity: Pig and Dig Lessons Learned Speaker: Matina Papadopoulou, DESFA, Greece	17:15 Assessment of oil & gas pipelines for de-carbonization Speaker: Gundula Stadie, TÜV Rheinland Industrie Service GmbH, Germany
	Oral-Session 3.1 (♀ Venue: Room 12/13) 3.1 Materials	Oral-Session 4.1 (♀ Venue: Room 6/7) 4.1 Leak Detection
	Session Chair: Neil Gallon, ROSEN UK, United Kingdom	Session Chair: Martin Mans, LIWACOM, Germany
	16:00 Acceptability of Pipeline Carbon Steel flanges with yield strength lower than ASTM A694 tensile strength requirement for service. Speaker: Kean Leong Chee, Sarawak Shell Berhad, Malaysia / Andrew Tuong Thai Ling, Sarawak Shell Berhad, Malaysia	16:00 How to select the right leak detection methods to cover legal and operational requirements Speaker: Max Ihring, KROHNE, Germany
	16:25 XFEM-Based Investigation of Fracture Properties of X52 Steel Using SENT Geometry Speaker: Mohammad Kheirkhah Gild, University of Alberta, Canada	16:25 Updates on leak detection improvements in challenging pipeline monitoring scenarios Speaker: Harry Smith, Atmos International, United Kingdom
	16:50 Defect Prevalence in Fiberglass Pipes: A Comprehensive Review Speaker: Luai M. AlHems, King Fahd University of Petroleum and Minerals, Saudi Arabia	16:50 DFOS: What type of fiber optic sensing is most appropriate for leak detection on my pipeline? Speaker: Alasdair Murray, Luna, United Kingdom
		17:15 Optimizing leak detection strategies Speaker: Joachim Frank Klein, GOTTSBERG Leak Detection GmbH & Co. KG, Germany

TUESDAY, 09 APRIL 24

cont.
16:00-
17:45

There are
6 parallel
sessions
at this
time!

Oral-Session 5.1 (♀ **Venue:** Room 9)

5.1 Offshore Technologies

Session Chair: Asle Venas, DNV, Norway

16:00 Inspection strategy for optimizing subsea pipeline integrity management

Speaker: Manuelle Corbani Romero, Petrobras, Brazil

16:25 Safety assessment offshore hydrogen pipelines

Speaker: Jan Fredrik Helgaker, DNV, Norway

16:50 An Integrated Approach in Managing Challenges of Material Selection for Subsea CO2 Pipelines

Speaker: Siti Aishah Ali Noor Razak, PETRONAS, Malaysia / M Anuar Desa, PETRONAS, Malaysia

17:15 Unlocking Trans Adriatic Pipeline Subsea Data Through an Innovative Approach in Utilising Offshore Survey Video Recordings for a Fuller, more Reliable Pipeline Assessment

Speaker: Dmitry Gramoteyev, Associated Technology Pipeline Ltd, United Kingdom

Oral Session 6.1 (♀ **Venue:** Room 14)

6.1 Management & Safety

Session Chair: Keith J. Coyle, Babst Colland, United States

16:00 Failure Pressure: The Impact of Significant Incidents on Pipeline Safety Policy in the United States

Speaker: Keith J. Coyle, Babst Calland, United States

16:25 Spatial communication as an accelerator of the German energy transition

Speaker: Markus Heinrich, BIL eG / Wolter Hoppenberg - Rechtsanwälte Partnerschaft mbB, Germany / Tomas Matela, Rhein-Main-Rohrleitungstransportgesellschaft mbH (RMR), Germany

16:50 Leveraging the transformative role of technology and data utilization within the United States oil and gas pipeline industry to bolster safety and mitigate risks.

Speaker: Erin McKay, That Compliance Lady, United States / Dennis Kuhn, Astar Inc., United States

17:15 Pipeline ROW & Geohazard Management for a Safe Operation of the 1,811 km TANAP Pipeline System

Speaker: Suleyman Suleymanov, TANAP Natural Gas Transmission Co, Turkey / Mustafa Mutlu, TANAP Natural Gas Transmission Co, Turkey

17:45-
19:30

Social Gathering Get together

(♀ **Venue:** Exhibition Hall)

The get-together is the big party of the ptc which takes place in the whole exhibition hall with all participants of both conference and exhibition. There will be a rich selection of different food and beverage stations. Enjoy a great evening of meeting and reuniting and quality catering.

The **Young Pipeline Professional Awards** Ceremony will take place during the Get-together party from 18:30 - 18:45. Dress code: Business casual

➔ All abstracts, papers and latest updates:
www.pipeline-conference.com/program



SCAN ME

WEDNESDAY, 10 APRIL 24		
09:00-10:15 There are 6 parallel sessions at this time!	Oral-Session 1.2 (♀ Venue: Room 15) 1.2 Inline Inspection & Integrity Management	Oral-Session 2.2 (♀ Venue: Auditorium) 2.2 Hydrogen
	Session Chair: Igor Orynyak, National Technical University of Ukraine, Ukraine	Session Chair: Danny Molyneux, Quest Integrity, United Kingdom
	09:00 Successful Detection and Sizing of Girth Weld Metal Loss Features Speaker: Christoph Seeber, NDT Global, Germany	09:00 Organizational readiness. Integration of H ₂ /CO ₂ pipelines into existing organization Speaker: Victoria Monsma, DNV, Netherlands
	09:25 Evaluating the Technological Output of MTM-G in Relation to the Findings of Pipeline Inline Inspection Speaker: Igor Kolesnikov, IGSAT (M) Sdn Bhd, Malaysia	09:25 Management of Change When Repurposing Existing Infrastructure to Hydrogen Speaker: Neil Gallon, ROSEN UK, United Kingdom / Hannah Shaw, ROSEN UK, United Kingdom
	09:50 Heavy wall natural gas lines inspection by inline inspection tools Speaker: Karem Akcha, Intero Integrity, France	09:50 Complying with pressure safety regulations for natural gas systems and the implications for a repurposed hydrogen system – a Pipeline Operator and Competent Person perspective Speaker: Gary Senior, Pipeline Integrity Engineers, United Kingdom
	Oral-Session 3.2 (♀ Venue: Room 12/13) 3.2 CO₂ Transportation	Oral-Session 4.2 (♀ Venue: Room 6/7) 4.2 Monitoring
	Session Chair: Carles Giro, ILF Consulting Engineers, Germany	Session Chair: Bruno Amorim, TAG, Brazil
	09:00 CO ₂ SafePipe: Design and Operation of CO ₂ pipelines Speaker: Bente Leinum, DNV, Norway	09:00 Gasunie and Orbital Eye - Operational assessment of satellite-based right-of-way inspections Speaker: Arnaud van den Berg, Orbital Eye, Netherlands / Bas Schoonbeek, Gasunie, Netherlands
	09:25 Carbon dioxide pipelines: Addressing the challenges using pipeline simulation tools Speaker: Garry Hanmer, Atmos International, United Kingdom	09:25 Air-based pipeline survey in cultivated fields Speaker: Edvards Likovskis, EMPIT, Germany

WEDNESDAY, 10 APRIL 24		
cont. 09:00-10:15 There are 6 parallel sessions at this time!	Oral-Session 3.2 (♀ Venue: Room 12/13) 3.2 CO₂ Transportation	Oral-Session 4.2 (♀ Venue: Room 6/7) 4.2 Monitoring
	09:50 Development of a CO ₂ gas quality and pipeline design standard Speaker: Neil Hodson, Enbridge, Canada	09:50 Modernizing Aerial Patrol - Real Life Remote Sensing for Liquid Leak and Threat Detection Along the Right-of-Way - First Detection Demonstrations of a Real Pipeline Seep Leak, Encroachments, and Exposed Pipes using a Traditional Aerial Patrol Plane Speaker: Eric Bergeron, Flyscan Systems Inc., Canada
	Oral-Session 5.2 (♀ Venue: Room 9) 5.2 Offshore Technologies	Oral Session 6.2 (♀ Venue: Room 14) 6.2 Construction
	Session Chair: Steffen Paeper, Consultant, Netherlands	Session Chair: Toon de Bruyne, PIPELINK NV, Belgium
	09:00 Digital free span assessment method for subsea pipeline integrity Speaker: Linlin Jiao, DNV, Norway	09:00 Trenchless solutions for small-diameter pipeline and cable installations Speaker: Simon Herrenknecht, Herrenknecht AG, Germany
	09:25 Acquiring Visibility on Dynamic Free Span Behavior Through Big Data Speaker: Nur Asiah Maryam Binti Abdullah, PETRONAS, Malaysia	09:25 Pipeline construction : Digitalised quality management Speaker: Léna Muscillo, LOGIC, France / Julien Beaufils, LOGIC, France
10:15-11:15 There are 6 parallel sessions at this time!	Social Gathering Coffee Break (♀ Venue: Exhibition Hall)	
	Sponsored by: 	
11:15-12:30 There are 6 parallel sessions at this time!	Oral-Session 1.3 (♀ Venue: Room 15) 1.3 Inline Inspection & Integrity Management	Oral-Session 2.3 (♀ Venue: Auditorium) 2.3 Hydrogen
	Session Chair: Session Chair: Michael Beller, ROSEN Group, Germany	Session Chair: Danny Molyneux, Quest Integrity, United Kingdom
11:15-12:30 There are 6 parallel sessions at this time!	11:15 How deep learning changes ultrasonic metal loss analysis – An inline inspection industry template Speaker: Victor Ferrer, NDT Global GmbH, Spain	11:15 Moving from talking to doing: How to manage Integrity during Repurposing and future Hydrogen Operations Speaker: Neil Gallon, ROSEN UK, United Kingdom / Michael Tewes, ROSEN Europe, Germany


WEDNESDAY, 10 APRIL 24		
cont. 11:15-12:30 There are 6 parallel sessions at this time!	Oral-Session 1.3 (♀ Venue: Room 15) 1.3 Inline Inspection & Integrity Management	Oral-Session 2.3 (♀ Venue: Auditorium) 2.3 Hydrogen
	11:40 Beyond Conventional Inline Inspection: Passive Magnetic Field Evaluation for Pipeline Wall Loss Speaker: John van Pol, INGU Solutions Inc., Canada	11:40 In-Situ Measurement of Fracture Toughness for Safe Conversion of Existing Pipelines to Hydrogen Service Speaker: Simon Bellemare, MMT LLC, United States
	12:05 Analytic Derivation and Validation of a Probabilistic Corrosion Growth Model Speaker: Megan Scudder, OneBridge Solutions, United States	12:05 Investigation of ILI Tool Velocity and Tool Speed Control Options in a 6-Inch and 30-Inch Hydrogen Pipeline Speaker: Aidan O'Donoghue, Pipeline Research Limited, United Kingdom
	Oral-Session 3.3 (♀ Venue: Room 12/13) 3.3 CO₂ Transportation	Oral-Session 4.3 (♀ Venue: Room 6/7) 4.3 Methane Emissions
	Session Chair: Federica Furcas, Baker Hughes, Italy	Session Chair: Cindy Verhoeven, EVION Consultancy, Germany
	11:15 Modelling Carbon Dioxide Pipeline Releases to Provide an Understanding of the Factors that Affect the Hazard Range Speaker: John Evans, Thornton Tomasetti, United Kingdom	11:15 U.S. DOT PHMSA Efforts to Reduce Methane Emissions from Pipeline, LNG, and UNGS Facilities Speaker: Linda Daugherty, Pipeline and Hazardous Materials Safety Administration, United States
	11:40 Latest ILI technology enables the utilisation of existing infrastructure to accelerate a CCS project Speaker: Andrea Bologna, TECMA Srl, Italy	11:40 Reconciliation of Level4/Level5 methane measurements - Experiences on first case studies in the midstream sector Speaker: Andrea Di Lillo, Bureau Veritas, France / Jonathan Martinez, Bureau Veritas, France
	12:05 Advancing CO ₂ Pipeline Safety: Innovative Predictive Approaches and their Application in On- and Offshore Ductile Fracture Assessment Speaker: Philipp Marx, OTH Regensburg, Aixima GmbH, Germany	12:05 Methane Emission Quantification & Reduction Solutions for Gas Distribution Organisations Speaker: Gunter Drische, Picarro Inc., Germany
	Oral-Session 5.3 (♀ Venue: Room 9) 5.3 Offshore Technologies	Oral Session 6.3 (♀ Venue: Room 14) 6.3 Coating
	Session Chair: Steffen Paeper, Consultant, Netherlands	Session Chair: Thomas Löffler, Denso, Germany
	11:15 Anchoring systems in offshore environment Speaker: Prodomos Psarropoulos, National Technical University of Athens, Greece	11:15 Coating failure: are material properties always the reason for a failure? Speaker: Christian Araiz y Lopez, DENSO GmbH, Germany / Mark Kan, DENSO GmbH, Germany

WEDNESDAY, 10 APRIL 24		
cont. 11:15-12:30 There are 6 parallel sessions at this time!	Oral-Session 5.3 (♀ Venue: Room 9) 5.3 Offshore Technologies	Oral Session 6.3 (♀ Venue: Room 14) 6.3 Coating
	11:40 Emergency Pipeline Repair Systems – Preparing for a Pipeline Incident Speaker: Andy Norrie, STATS Group, United Kingdom	11:40 Evaluation of pipeline surface preparation Speaker: Frits Doddema, Monti, Netherlands
	12:05 Case Study - Novel Repair of an Old Offshore Pipeline Speaker: Asle Venås, DNV, Norway	12:05 Do Coating Testing Procedures Simulate Real Operating Conditions? Visco Elastic Coating (VEC) Performance as External Protection of Underground Metallic Pipelines as an example. Speaker: Hamad Ababutain, Daleelalma trading Est., Saudi Arabia
12:30-14:00	Social Gathering Lunch Break (♀ Venue: Exhibition Hall)	
	Sponsored by: 	
14:00-15:15 There are 6 parallel sessions at this time!	Oral-Session 1.4 (♀ Venue: Room 15) 1.4 Inline Inspection & Integrity Management	Oral-Session 2.4 (♀ Venue: Auditorium) 2.4 Hydrogen
	Session Chair: Stefan Klein, GASCADE Gas-transport GmbH, Germany	Session Chair: Sameera Naib, Young Pipeline Professionals Europe (YPPE) , Netherlands
	14:00 Verification of Detection and Classification of Defects in Stress Concentration Tomography Speaker: Chau Vo, Speir Hunter Ltd, United Kingdom	14:00 Retrofitting existing natural gas Grit to transport hydrogen natural gas blends – challenges and possibilities of existing detectors and sensors Speaker: Saba Esmaeely, DNV, United States
	14:25 Implementing Integrity Management Principles for Enhanced Reliability in the Caspian Region Speaker: Gary Yoho, Dynamic Risk Assessment Systems, Inc., United States	14:25 Use of Corrosion Inhibitors to Prevent Hydrogen Damage of Transportation Lines Carrying Blended Hydrogen Speaker: Yolanda De-Abreu, ChampionX, United States
		14:50 The Blending of Hydrogen and Natural Gas by Direct Introduction of Hydrogen into High-Pressure Large-Diameter Gas Transmission Pipelines Speaker: Nigel Curson, Penspen, United Kingdom

WEDNESDAY, 10 APRIL 24		
cont. 14:00-15:15 There are 6 parallel sessions at this time!	Oral-Session 3.4 (♀ Venue: Room 12/13) 3.4 Difficult to Inspect Session Chair: Ulrich Schneider, PIC Pipeline Inspection Consulting, Germany	Oral-Session 4.4 (♀ Venue: Room 6/7) 4.4 Geohazards Session Chair: Prodromos Psarropoulos, National Technical University of Athens, Greece
	14:00 Review of lessons learned from 10 years of ultrasonic inspections in gas pipelines Speaker: Willem Vos, NDT Global, Norway	14:00 Novel Non-Contact Drone-Based Tool for Pipeline Movement Assessment Speaker: Mehdi Laichoubi, Skipper NDT, France, France
	14:25 In-pipe ultrasonic inspections of mud and tailing lines: how to manage difficult to remove scaling, provide quality and accurate defect assessments of steel and HDPE pipelines. Speaker: Herman Quakkelsteijn, Intero Integrity, Australia	14:25 Geohazard Risk Management Strategy on Rights of Way of Pipelines in the Colombian Andes Speaker: Jaime Aristizabal, Cenit Transporte y Logística de Hidrocarburos, Colombia
	14:50 An Extra-High-Resolution UTCD Solution for Small-Diameter Pipelines - Introducing Extended Depth Sizing Speaker: Abdullahi Atto, ROSEN RTRC, Germany	14:50 Combining Traditional and Novel Approaches to Manage the Evolving Threat from Geohazards Speaker: Andrew Wilde, ROSEN UK, United Kingdom
	Oral-Session 5.4 (♀ Venue: Room 9) 5.4 Pump & Compressor Stations Session Chair: Michael Kasch, ILF Consulting Engineers, Germany	Oral-Session 6.4 (♀ Venue: Room 14) 6.4 Corrosion Session Chair: Ken Lax, Corroconsult UK, United Kingdom
	14:00 Hydrogen Compression Solutions under consideration of the European Hydrogen Backbone Speaker: Michael Schulz, Siemens Energy, Germany	14:00 Discussing Corrosion Detection in Buried Unpiggable Pipelines with Above-ground Techniques: A Comparison of Field Tests and Operator Experiences Speaker: Mark Glinka, EMPIT, Germany
	14:25 Gas Compression Station on-site H2NG blend tests Speaker: Federica Fucas, Baker Hughes, Italy Marco Tarenzi, SNAM, Italy	14:25 Towards Accurate Corrosion Growth Rates: Addressing Matching Errors during Run Comparison Speaker: Semyon Bokhankevich, T.D. Williamson, United Kingdom
		14:50 Addressing complex and axially aligned Corrosion with MFL technologies and benefits of tri-axial methods Speaker: Ian Murray, Baker Hughes, United Kingdom
15:15-16:00	Social Gathering Coffee Break (♀ Venue: Exhibition Hall)	Sponsored by: Honeywell

WEDNESDAY, 10 APRIL 24

16:00-
17:45There are
6 parallel
sessions
at this
time!**Oral-Session 1.5** (♀ **Venue:** Room 15)**1.5 Inline Inspection & Integrity Management****Session Chair:** Stefan Klein, GASCADE Gas-transport GmbH, Germany**16:00** Lessons Learnt Overcoming Challenges in Pipelines in the move to De-fossilization**Speaker:** Mike Kirkwood, T.D. Williamson, United Kingdom**16:25** Improving defect assessment using software and grinding assistance tool development**Speaker:** Julie Gamer, TRAPIL, France**16:50** Enhancing Pipeline Integrity: A Comparative Study of Ultrasonic and Magnetic Flux Leakage Inspection Technologies**Speaker:** Christoph Jager, NDT Global GmbH, Germany / Katherine Hartl, NDT Global GmbH, Germany**17:15** Think outside the ILI box, a process to develop a cost-effective SCC management strategy**Speaker:** Dominic Murray, Frontline Integrity, United Kingdom / Adrian Horsley, Frontline Integrity, United Kingdom**Oral-Session 3.5** (♀ **Venue:** Room 12/13)**3.5 Difficult to Inspect****Session Chair:** Ulrich Schneider, PIC Pipeline Inspection Consulting, Germany**16:00** NEO - An advantaged technology for multi-challenge pipelines**Speaker:** Holger Kamps, 3P Services, Germany**16:25** Development of an EMAT-based Crack Inspection Tool for Small Diameter and Difficult to Inspect Pipelines**Speaker:** Kevin Spencer, Quest Integrity, Canada**Oral-Session 2.5** (♀ **Venue:** Auditorium)**2.5 Hydrogen****Session Chair:** Stephan Tappert, Dexon Technology Europe, Germany**16:00** Case Study: An Efficient Route to Evidence Safe Repurposing of Pipelines to Hydrogen**Speaker:** Oliver Burkinshaw, ROSEN UK, United Kingdom**16:25** Cryogenic pipelines for industrial applications – feedback from LNG projects and applications to liquid hydrogen**Speaker:** Christian Geertsens, ITP InTerPipe, France / Alejandro Sainz, ITP InTerPipe, France**16:00** Measuring the flow of hydrogen with clamp-on ultrasonic technology**Speaker:** Patrick Kalina, Siemens AG, Germany**17:15** Hydrogen blending and other varying gas compositions – a new approach for reliable clamp-on flow measurement**Speaker:** Eike Schwede, FLEXIM GmbH, Germany**Oral-Session 4.5** (♀ **Venue:** Room 6/7)**4.5 Geohazards****Session Chair:** Andreas Antoniou, National Technical University of Athens, Greece**16:00** Role of SAR Remote Sensing Techniques for the Quantitative Assessment and Mitigation of Ground Movement Risks along Buried Petroleum and Gas Pipelines**Speaker:** Emil Bayramov, Nazarbayev University, Kazakhstan**16:25** The Use of Advanced Geohazard Management Software to Incorporate Real-Time and Near-Time Data into Decision Making**Speaker:** Alex Baumgard, BGC Engineering Inc, Canada

WEDNESDAY, 10 APRIL 24		
cont. 16:00-17:45 There are 6 parallel sessions at this time!	Oral-Session 3.5 (♀ Venue: Room 12/13) 3.5 Difficult to Inspect	Oral-Session 4.5 (♀ Venue: Room 6/7) 4.5 Geohazards
	16:50 Non – piggable pipelines corrosion mitigation strategy using advanced methods in MERO CR Speaker: Přemysl Kuchar, MERO CR, a.s., Czech Republic	16:50 Geohazard multi-sensor IIoT monitoring system Speaker: Adrian Banica, Direct-C, Canada
	17:15 In-line inspection of challenging gas field lines; Turn-key project approach using freeswimming UT and robotic MFL inspection technology Speaker: Christoph Sur, Intero Integrity, Germany / Daniela Friedrich, Storengy Deutschland Betrieb GmbH, Germany	17:15 Integrity assessment of aged gas transmission pipeline affected by tropical cyclone Speaker: Omar Al Ghamari, OQGN, Oman
	Oral-Session 5.5 (♀ Venue: Room 9) 5.5 Pump & Compressor Stations	Oral-Session 6.5 (♀ Venue: Room 14) 6.5 Cathodic Protection 
	Session Chair: Michael Kasch, ILF Consulting Engineers, Germany	Session Chair: Ulrich Adriany, ARCADIS Germany, Germany
	16:00 Hybrid Drives at Compression Stations to Meet the Challenges of the Energy Transition Speaker: Roshan Joseph, Siemens Energy, United States	16:00 Integrity Risks to buried pipelines from High Voltage DC power sharing system Speaker: Ken Lax, Corroconsult, United Kingdom
	16:25 Automated control features for Gas Turbines for combustion system mapping implementation and sustainment Speaker: Gianni Bagni, Baker Hughes, Italy	16:25 Practical application of AI in the condition assessment of pipelines and the role of cathodic corrosion protection Speaker: Matthias Müller, Netze BW, Germany
	16:50 Optimizing energy efficiency and cost savings in pipeline transportation: The impact of variable frequency drives Speaker: Syrine Ben Jebria, TRAPIL, France	16:50 Real-time Detection of Mechanical Damage on Pipelines via Cathodic Protection Speaker: Maher Kassir, SPADE, France
	17:15 GIS-Based Multi-Criteria Decision Methodology for the Optimal Routing of Large-Scale Lifelines Against Earthquake-Related Geohazards Speaker: Nikolaos Makrakis, Technical University of Crete, Greece / Prodromos Psarropoulos, National Technical University of Athens, Greece	17:15 New challenges for cathodic protection in a 4.0 world: embracing digitalization and automation for enhanced corrosion management Speaker: Ivano Magnifico, Automa, Italy
18:15-open end	Social Gathering Dinner Invitation (♀ Venue: von Greifswald) On Wednesday evening, ptc 2024 culminates with an exquisite dinner invitation at the renowned “von Greifswald”. The evening celebrates not just the culinary arts, but the stories that each dish holds. As we partake in this evening, we are not merely eating; we are tracing the roots of the regional and seasonal dishes that grace our plates.	

THURSDAY, 11 APRIL 24

09:00-10:15

There are 4 parallel sessions at this time!

Oral-Session 1.6 (♀ Venue: Room 15)

1.6 Inline Inspection & Integrity Management

Session Chair: Olugbenga Adebayo, WhetEdge Consulting, Canada**09:00** Enhanced Pipeline Integrity Assessment for Bulging Laminations through Combined Ultrasonic Metal Loss and Ultrasonic Crack Detection Inline Inspection (ILI) Technology**Speaker:** Ryan Sikes, NDT Global, United States**09:25** Guided Waves Inspection with potential defect classification and sizing**Speaker:** Slim Soua, SAUDI ARAMCO, Saudi Arabia**09:50** Smoothing the pipeline noisy point positions by corotational beam spline**Speaker:** Igor Orynyak, National Technical University of Ukraine, Ukraine

Oral-Session 3.6 (♀ Venue: Room 12/13)

3.6 Digitalization

Session Chair: Katherine Hartl, NDT Global, Germany**09:00** Use of Machine Learning to Assess the Performance of a Pipeline Network**Speaker:** Nigel Curson, Penspen, United Kingdom**09:25** New Generation of AI techniques Applied to Third Party Interference and Leakage Detection on Pipelines**Speaker:** Ana Paula Gomes, Enivibes, Italy**09:50** State-of-the-art Cyber Security for Pipeline Infrastructure**Speaker:** Asim Zaidi, Siemens Energy, Germany

Oral-Session 2.6 (♀ Venue: Room 14)

2.6 Simulation

Session Chair: Martin Mans, LIWACOM, Germany**09:00** Using high fidelity simulation to ensure safe transition to low carbon/hydrogen blended fuels for rapid decarbonization of industrial combustion systems**Speaker:** Shivdeep Gaagat, Siemens Digital Industry Software, Germany**09:25** Selection and acceptance criteria for RTTM gas pipeline simulation system: from pilot-project to integration with SCADA**Speaker:** Eduardo Mercon, Nova Transportadora do Sudeste S.A. - NTS, Brazil / **Renata Reis**, Nova Transportadora do Sudeste S.A. - NTS, Brazil**09:50** Drift-flux model for estimating mixing volumes in multiproduct pipelines**Speaker:** Tiago Elias, Transpetro, Brazil

Oral-Session 4.6 (♀ Venue: Room 6/7)

4.6 Welding

Session Chair: Cindy Dirkx, Dirkx PM&S, Netherlands**09:00** AI-based welding process monitoring for quality control in large-diameter pipe manufacturing**Speaker:** Sergej Gook, Fraunhofer IPK, Germany**09:25** In-Service Welding onto Hydrogen and Blended Gas Pipelines**Speaker:** William Bruce, DNV, United States**09:50** Reliability of mechanical Interference fit Technology compared to conventional welding**Speaker:** Ahmed Alkhaldi, Petroleum Development Oman, Oman

THURSDAY, 11 APRIL 24

10:15-
11:00**Social Gathering Coffee Break**(♀ **Venue:** Exhibition Hall)11:00-
12:00**Panel Discussion Digital Transformation and AI: Shaping the Future of Pipeline Operations**(♀ **Venue:** Auditorium)

The panel discussion delves into the transformative power of digitalization and artificial intelligence (AI) and its potential to improve pipeline operations. AI, combined with advanced data analytics, machine learning, and big data management, holds immense promise for enhancing pipeline efficiency, safety, and reliability. The panel discussion will provide actionable insights for pipeline operators seeking to embrace digital transformation – minimizing operational downtime, reducing maintenance costs, and optimizing pipeline performance.

Session Chair: Mohd Nazmi bin Mohd Ali Napih, Petronas, Malaysia**Panelist:** Monique Roberts, PODS - Pipeline Open Data Standards Association, United States**Panelist:** Andreas Müller, Thyssengas, Germany**Panelist:** Deborah Matthews, TC Energy, United States**Panelist:** Will McDonald, bp, United Kingdom12:00-
13:00**Oral Plenary Session "World Pipeline Outlook"**(♀ **Venue:** Auditorium)**Session Chair:** Dirk Strack, EITEP Institute, Germany**12:00 The US Approach: Navigating Regulatory Landscapes for Secure and Sustainable Energy Transport****Speaker:** Tristan Brown, PHMSA - Pipeline and Hazardous Materials Safety Administration, United States**12:20 Faster realization of infrastructure projects****Speaker:** Gunnar Brandin, OGE, Germany**12:40 The Same, and More****Speaker:** Sameera Naib & Danny Molyneux, ptc Young Pipeliners Engagement Committee (YPEC)13:00-
13:05**Oral Award Ceremony "Dr. Klaus Ritter Award for Best Young Pipeliner Paper"**(♀ **Venue:** Auditorium)**Speaker:** Marian Ritter, EITEP Institute, Germany

➔ All abstracts, papers and latest updates:
www.pipeline-conference.com/program



SCAN ME

THURSDAY, 11 APRIL 24		
13:05-13:15	Oral Award Ceremony ptc Photo Contest “Working in the pipeline industry” (📍 Venue: Auditorium)	
	Speaker: Rana Alnasir-Boulos, EITEP Institue, Germany	
13:15-13:30	Oral Closing Remarks (📍 Venue: Auditorium)	
	Speaker: Dirk Strack, EITEP Institute, Germany	
13:30-14:00	Social Gathering Lunch Break (📍 Venue: Exhibition Hall)	
14:00-17:00	ptc Workshop Pipeline Leak Detection (by Krohne) (📍 Venue: Room 7) Join us for an informative session that combines theoretical insights with practical applications, providing a comprehensive understanding of modern leak detection systems. We address the evolving landscape of energy transportation, particularly the shift from fossil-based to renewable energy sources. This transformation necessitates a parallel evolution in pipeline leak detection systems to ensure the safe and efficient monitoring of pipelines. This workshop aims to showcase the advantages of a cutting-edge leak detection system that integrates various API 1130 technologies into a unified solution.	
	Operator Round Table “ILI Tools” (📍 Venue: Room 6) Moderator: Dirk Strack, Senior Advisor, EITEP Institute, Germany <ul style="list-style-type: none"> All participating pipeline operators at ptc 2024 are invited to take part in this free informal in-person exchange of experiences. The meeting will only involve pipeline operators and no technology and service providers. <p>This round table talk will bring together pipeline operators from different countries and industries to discuss the latest trends and challenges in ILI technology. Participants will discuss the latest technological developments, best practices for selecting and deploying these tools effectively, and data analytics. The discussion will cover regulatory compliance, cost-effective strategies, and real-world case studies to illustrate the practical benefits of different solutions on the market. The round table talk will be moderated by an expert in the field, who will lead the participants in a lively and informative exchange of ideas.</p>	Operator Round Table “Illegal Tapping” (📍 Venue: Room 12) Moderator: Michael W. Cech, Head of Pipeline JV's and Shipping, OMV Refining & Marketing, Austria <ul style="list-style-type: none"> All participating pipeline operators at ptc 2024 are invited to take part in this free informal in-person exchange of experiences. The meeting will only involve pipeline operators and no technology and service providers. <p>This round table talk will bring together pipeline operators from different countries to discuss the latest trends and challenges in illegal tapping detection and prevention. Participants will share insights into the latest developments, innovative technologies, and best practices for preventing and combating illegal tapping. Latest figures show, that the threat does not go away and needs constant attention. We will also discuss the legal and regulatory frameworks in place to address this issue, as well as the importance of cooperation and information sharing among industry players and law enforcement agencies. The discussion will be moderated by an expert in the field, who will lead the participants in a lively and informative exchange of ideas.</p>

Exhibitor Forum

Technology Updates: Stay Informed with the Latest Technological Developments and News

Background

"Technology Updates" is a new platform designed to provide companies to showcase their latest products and services through short, 10-minute presentations. This forum will be situated within the exhibition hall and will be announced as part of the ptc agenda. The presentations are free for all conference and exhibition attendees and provide an opportunity for companies to highlight their latest technological advancements and solutions.

This forum is a valuable addition to the exhibition hall, providing both attendees and speaking companies with a space to connect and learn about the latest technological advancements in the industry.

Wednesday, 10 April 2024

13:00-13:15: "Does it fit? Does it make money?", Ciaran Early / Dave Bacon , President & CEO / VP Strategy , The Safer Plug Company Limited, United Kingdom

13:15-13:30: "Why a sensitive ethane measurement matters in natural gas leak detection", Hans Helsen, Director of Sales EAMEA, Aeris Technologies Europe, Belgium

Latest updates: pipeline-conference.com/technology-updates



Impressions from ptc



Floor Plan

ptc Exhibition Floor Plan

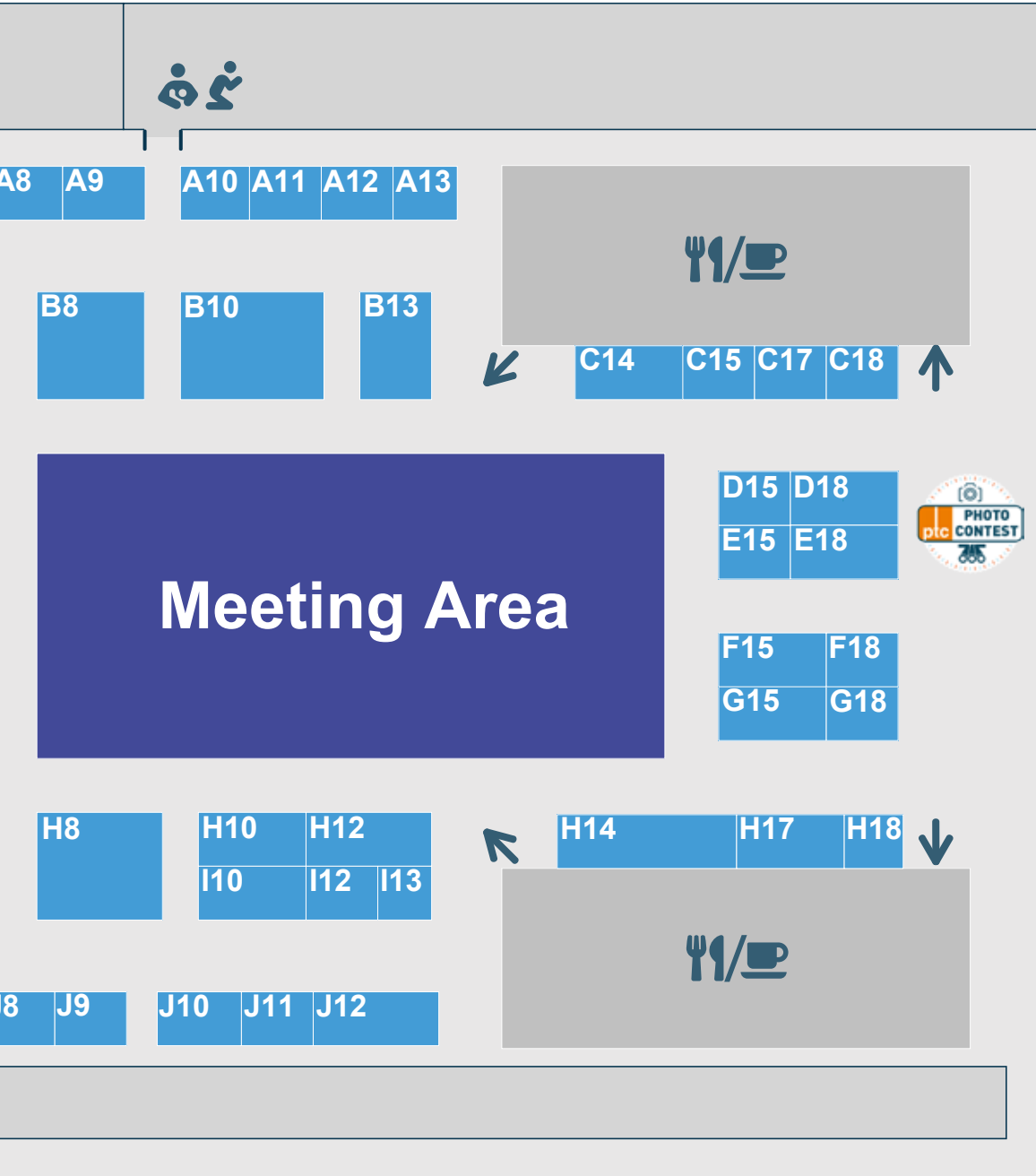


➔ For an interactive floor plan, have a look into our ptc App
or visit our ptc website:
www.pipeline-conference.com/exhibitors



SCAN ME

Convention Hall II



Lounge



Nursing Room



Catering Area



Prayer Room

Exhibitors



3P Services
Stand Number: C6
Germany



ADLARES
Stand Number: B4
Germany



AGCOR GROUP
Stand Number: C17
Poland



Applus+
Stand Number: G7
Netherlands



**Associated
Technology Pipeline**
Stand Number: I3
United Kingdom



Automa
Stand Number: G18
Italy



Baker Hughes
Stand Number: J12
United States



**DENSO Group
Germany**
Stand Number: F15
Germany



**Deyuan Pipeline
Technology**
Stand Number: A6
China



**Eddyfi
Technologies**
Stand Number: H17
Canada



ELMED
Stand Number: G5
Germany



EMPIT
Stand Number: B13
Germany



ADG
Stand Number: J7
Italy



**Aeris Technologies
Europe**
Stand Number: J10
United States



America Trade
Stand Number: H4
United States



**Asoe Hose
Manufacturing**
Stand Number: E4
Netherlands



Atmos International
Stand Number: F7
United Kingdom



AZ9
Startup Area
India



**Bureau Veritas
Industry Services**
Stand Number: I4
Germany



Dexon Technology
Stand Number: I10
Germany



Direct-C
Stand Number: G3
Canada



**EITEP Institute
Lounge**
Germany



Elsyca
Stand Number: H6
Belgium



ENTEGRA
Stand Number: A1
United Kingdom



Fangmann Energy Services
Stand Number: A3
Germany



FEROMIHIN
Stand Number: I13
Croatia



FLEXIM
Stand Number: B5
Germany



Global Women Forum (GWF)
Stand Number: A8
Germany



Hermann Sewerin
Stand Number: A2
Germany



Honeywell Process Solutions
Stand Number: F1
Germany



Online Electronics
Stand Number: I6
United Kingdom



INGU
Stand Number: H5
Canada



Intero Integrity
Stand Number: H12
Netherlands



Kebu
Stand Number: G4
Germany



Krohne
Stand Number: E8
Germany



LiveEO
Stand Number: J4
Germany



Fathom
Startup Area
Saudi Arabia



fkks - Fachverband Kathodischer Korrosionsschutz
Stand Number: F18
Germany



Franken Plastik
Stand Number: G1
Germany



GOTTESBERG Leak Detection
Stand Number: E15
Germany



Herrenknecht
Stand Number: E7
Germany



IAOT
Stand Number: E6
Czech Republic



ILF Consulting Engineers
Stand Number: C15
Germany



Intelcon System
Stand Number: D18
Venezuela



IP PIPELINE TECHNOLOGY
Stand Number: C4
China



Kontrolltechnik
Stand Number: A12
Germany



LeakLab
Stand Number: E18
Mexico



LIWACOM
Stand Number: C5
Germany

Exhibitors



LogIC
Stand Number: B6
France



Maats
Stand Number: H10
Netherlands



MMT
Stand Number: J3
United States



NuFlow Technologies
Stand Number: E4
United States



Orbital Eye
Stand Number: F6
Germany



Pergam Italia
Stand Number: C18
Italy



PETRONAS
Stand Number: H8
Malaysia



Pipeline Sentry
Startup Area
United Kingdom



PIPESURVEY INTERNATIONAL
Stand Number: E8
Netherlands



PPSA - Pigging Products and Services Association
Stand Number: A13
United Kingdom



Process Vision
Startup Area
United Kingdom



ReCo Energy Solutions
Startup Area
United States



Luna Innovations
Stand Number: F4
United States



MAX STREICHER
Stand Number: B7
Germany



NDT Global
Stand Number: H14
Germany



OGE
Stand Number: C3
Germany



Penspen
Stand Number: F4
United Kingdom



Petro IT
Stand Number: J11
United Arab Emirates



PIPECARE
Stand Number: D6
Switzerland



Pipeline Technology Journal
Stand Number: D1
Germany



PODS Association
Stand Number: B3
United States



Premier Coatings
Stand Number: C1
United Kingdom



PSI Software SE
Stand Number: I15
Germany



ROSEN
Stand Number: B10
Netherlands



Siemens
Stand Number: H7
Germany



SKIPPER NDT
Stand Number: D7
France



SLB | Enivibes
Stand Number: B8
Global



SONOTEC
Stand Number: J9
Germany



Speir Hunter
Stand Number: A11
United Kingdom



STATS Group
Stand Number: G15
United Kingdom



STRATOS SOLUTION
Stand Number: H3
Belgium



T.D. Williamson
Stand Number: C14
United States



The Safer Plug Company
Stand Number: H18
United Kingdom



TIB Chemicals
Stand Number: G6
Germany



TORY Technologies
Stand Number: D4
United States



TRAPIL
Stand Number: D15
France



TRENTON EUROPE
Stand Number: F3
France



TÜV SÜD
Stand Number: A10
Germany



WeGauge Pipeline Inspection & Services
Startup Area
United Kingdom



World Pipelines
Stand Number: J8
United Kingdom



WSG Energy Services
Stand Number: A5
Germany



YPP Joint Booth
Stand Number: J5
International



Young Professionals & Students

YPI Awards + Award Ceremony

→ 9 April 2024, 18:30, Exhibition Hall

YPI Early Achievement Award 2024

(Dedicated to young pipeline professional with less than 10 years of experience)

This award recognizes the achievements of individuals whose efforts have already made a significant contribution to the pipeline industry through their organization, and community services that go above and beyond their normal day to day duties.

Sponsored by:



YPI Emerging Young Pipeline Professional Award 2024

(Full time student working in the pipeline engineering space)

The Emerging Young Pipeline Professional Award acknowledges an up-and-coming individual who have demonstrated a significant contribution in the pipeline engineering space.

Sponsored by:



www.pipeline-conference.com/yip-award

Promoting Young Talent

Young Pipeliners Engagement Committee

The YPEC is a dynamic global assembly of passionate young individuals, united by their drive for the pipeline industry's future. Their core mission is to ignite, motivate, and empower fellow young pipeliners, catalyzing success and innovation within the sector. Members of the YPEC meet regularly to share ideas and collaborate on initiatives aimed at promoting young talent at the ptc.



Anish Goswami

COMPANY
Ministry of Defense, India

POSITION
Assistant Director
(Engineering)



Danny Molyneux

COMPANY
Quest Integrity

POSITION
Technical Advisor



Dr. Kshama Roy
Committee Chair

COMPANY
DNV

POSITION
Principal Engineer, Integrity
Solutions & Compliance,
Energy Systems



Dr. Sameera Naib

COMPANY
YPPE - Young Pipeline
Professionals Europe

POSITION
Chair



Lauren Jackson

COMPANY
Williams

POSITION
Technical Services Engineer



Marguerite Forde

COMPANY
ROSEN Group

POSITION
Integrity Solutions Specialist
& Sales Manager

Diverse Origins, Unified Vision

Global Demography

Breaking the barriers of borders, the ptc has forged a remarkable **international community**, with a staggering 70% of delegates journeying from abroad.

30 %

Germany

Every year, ptc attracts professionals from the domestic industry, leading to a significant German attendance.



35 %

Europe

Attendees from across Europe converge at ptc to exchange and collaborate on the disruptive changes the continent is experiencing.

35 %

Rest of the World

Participants from around the globe complete the ptc, discussing the developments and advancements of the pipeline industry in all parts of the world.

70

Delegations from 80+ Pipeline Operators

90 Exhibitors

From all over the world

The ptc 2024 features a diverse array of 90 exhibitors from around the world, showcasing cutting-edge solutions and technologies in the pipeline industry.

1,000+ Participants

From all over the world

Attracting over 1,000 participants from diverse regions worldwide, the ptc 2024 stands as a foremost hub for global networking and knowledge exchange in the pipeline industry.

Countries



Overview

Quick Facts

Good to know



Organizer

EITEP - Euro Institute for Information and Technology
Transfer in Environmental Protection GmbH
Marie-Jahn-Str. 20 • 30177 Hannover • Germany • www.eitep.de

AN EVENT BY



Management & Marketing Support

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Marketing Support: Rana Alnasir-Boulos • p: +49 511 90992-19 • e: ptc@eitep.de



Students & Young Professionals at ptc

Dr. Klaus Ritter Award for Best Young Pipeliner Paper
 Young Pipeline Professional Awards
 Reduced entrance fee for students
 Student Jobs @ ptc



Additional Marketing and Media Coverage

Pipeline Technology Journal (ptj) • www.pipeline-journal.net



Conference Language:

English

Important

General Information

Recommended Accommodation

ESTREL BERLIN

Sonnenallee 225, 12057 Berlin, Germany

www.estrel.com

Code: ptc 2024

Details: www.pipeline-conference.com/hotel-booking

The hotel rooms are located within the same building as the conference and exhibition.

Additional Marketing and Media Coverage



The Pipeline Technology Journal (ptj) features latest developments, innovative solutions and a comprehensive news service for the international pipeline industry. All the technical articles are freely available on an open access basis. The ptj newsletter and the electronic journal reach more than 18,000 pipeline experts worldwide. The technical excellence of the journal is based on an international editorial board.

www.pipeline-journal.net

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19TH PIPELINE TECHNOLOGY CONFERENCE
8-11 APRIL 2024, BERLIN, GERMANY

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Pipeline Technology Conference (ptc)



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