EUROPE’S LEADING PIPELINE CONFERENCE AND EXHIBITION

EVENT GUIDE

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WELCOME TO THE 18TH PIPELINE TECHNOLOGY CONFERENCE

MEET THE INTERNATIONAL PIPELINE COMMUNITY
The 18th Pipeline Technology Conference (ptc) takes place in Berlin from May 8-11, 2023. Europe’s premier conference and exhibition for pipeline industry professionals will offer 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.

ptc 2023 brings together the industry elite – pipeline operators, industry leaders, experts, and young talent – to discuss the latest developments and advancements in pipeline technology. Key topics for 2023 include hydrogen, methane emissions, safety & security, climate adaption, geo-hazards, CO₂ transportation and a regional focus on the booming African continent.

We are excited to kick off the event with a brand-new panel “Global Women in Pipeline: Connect, Empower, Inspire” which aims to highlight the contribution of women in the pipeline industry and to create a platform for networking and exchange of ideas.

We would also like to take this opportunity to thank our dedicated advisory committee, as well as the entire pipeline community for their ongoing support and contributions to the industry.

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

See you in Berlin!

Dennis Fandrich
Pipeline Technology Conference Chairman
ADVISORY COMMITTEE

CHAIR
Dirk Strack, Senior Advisor, EITEP Institute

MEMBERS
Ulrich Adriany, Senior Technical Expert, ARCADIS Deutschland
Juan Arzuaga, Executive Secretary, IPLOCA
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Cindy Dirix, Independent Pipeline Professional, Dirix PM&S
Jens Focke, CEO, BIL - Federal German Construction Enquiry Portal
Andreas Haskamp, Pipeline Joint Venture Management, BP Europa SE
Jörg Himmerich, Managing Director / Technical Expert, Dr.-Ing. Veenker lng.-ges.
Barbara Jinks, Consultant
Dr. Mike Kirkwood, Director - Integrity Engineering, T.D. Williamson
Brigham McCown, CEO, Nouveau
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Boris Böhm, Business Development & Equipment, MAX STREICHER
Massimiliano (Max) Cimmino, New Units Growth Leader – Pipeline & Gas Storage, Baker Hughes
Dr. Marion Erdelen-Pepper, President, EPRG - European Pipeline Research Group
Carles Giro, Business Area Manager, ILF Consulting Engineers
Dr. Thomas Hennig, Vice President Technology, NDT Global
Dr. Thomas Huwener, Managing Director Technical Services, Open Grid Europe
Cliff Johnson, President, PRCI - Pipeline Research Council International
Mike Liepe, Technical Sales and Global Projects, Siemens Energy
Anil Meghani, General Manager (Maintenance & Inspection), Indian Oil Corporation
Mohd Nazmi Napia, Custodian/Head/Group Technical Authority (Pipeline Eng.), PETRONAS
Dr. Prodromos Psarropoulos, Structural & Geotechnical Engineer, National Technical University of Athens
Prof. Dr. Jürgen Schmidt, Managing Director, CSE Center of Safety Excellence
Dr. Falko Schröter, Managing Director, Europipe
Rienk de Vries, CEO, Intero Integrity
Max Wedekind, Managing Director, DENSO Group
Ahmed Al-Jaafari, Director – Pipelines, Distribution and Terminals Capital Program, Saudi Aramco
Arthur Braga, Country Manager, ITF Brazil
Sönke Deppe, Head of Network Department, GASCADE Gastransport
Tino Falley, Head of Grid Operation, ONTRAS Gastransport
Marcelino Guedes Gomes, Partner & Co-founder, PIPELINEBRAZIL
Simon Herrenknecht, Head of Business Division Pipeline, Herrenknecht AG
Mark David Iden, Chief Executive Officer, SkyData Air&Space
Daniela Kampmann, Vice President, Head of Logistics -Pipelines, Evonik Industries
Martin Mans, Managing Director, LIWACOM
Danny Molyneux, Technical Advisor, Quest Integrity
Steffen Paeper, Consultant
Frank Rathlev, Manager of Network Operations, Thyssengas
Ulrich Schneider, Consultant
Asle Venas, Senior Principal Pipeline Specialist, DNV
Paul Waanders, Int. Sales Manager, Maats Pipeline Professionals
CONFERENCE TOPICS

(Pipelines, Pipes, Sewers)

PLANNING AND CONSTRUCTION
Planning and Design • Route Analysis and Selection • GIS • GPS • Onshore and Offshore Construction • Construction Machinery • Valves & Fittings • Line Pipe Materials • Welding • Hydrostatic Testing • Trenchless Technologies • Logistics • Pipe Tracking • Cathodic Protection • Corrosion Control • Pipeline Coating • Compressor Stations • Pump Stations

OPERATION AND MAINTENANCE
Asset Management • Risk Management • Integrity Management • SCADA Systems • Automation • Monitoring • Control and Dispatching • Cleaning • Inline Inspection • Unpiggable Pipelines • Direct Assessment • Leak Detection • Remote Sensing • Fiber Optic Sensing • Instrumentation • Simulation • Drag Reducing Agents • Rehabilitation of Ageing Pipelines • Repair Works • Hot Tapping • Life Cycle Extension Strategies • Third Party Impact • Illegal Tapping • Management Systems

SPECIAL ISSUES
Safety • Security • Qualification and Recruitment • Energy Recovery • Digitalization • Cyber Security • Big Data • LNG versus Pipeline • Standards and Regulations • Environmental Risks • Public Perception • Unmanned Aerial Vehicles (UAVs) • Remotely Operated Vehicles (ROVs) • Climate Challenges (cold, hot, humid) • Geohazards / Natural Disasters • Smart Grids / Smart Metering • Power-to-X • Hydrogen • E-Fuels - Feed-in of Biogas • Carbon Dioxide Transport • Gathering Pipelines (Upstream) • Riser Systems • Product Pipelines • Water Pipelines • Slurry Pipelines

PANEL DISCUSSIONS / WORLD PIPELINE OUTLOOK
The Pipeline Technology Conference is officially opened and closed with panel discussions and plenary sessions dedicated to current and emerging issues of the international pipeline industry.

TYPES OF PIPELINES (ONSHORE AND OFFshore)
- Gathering / Feeder Pipelines
- Transmission Pipelines
- Supply / Distribution Pipes
- Sewer Systems
## PROGRAM OVERVIEW

### MONDAY, 8 MAY 2023

**PTC SEMINARS**

- Global Women in Pipeline: Connect, Empower, Inspire
- ptc Meetup
  * (on invitation only)

### TUESDAY, 9 MAY 2023

**PTC CONFERENCE**

- Opening / Welcome
- Keynote Speech
  * Energy security, decarbonization and the clean transition. Implications for policy and infrastructure
- Panel Discussion
  * The African Pipeline Market: Domestic Supply and Export Opportunities
- Panel Discussion
  * Decarbonization of the Pipeline Industry
- Panel Discussion
  * The Pipeline Safety Panel: Climate Adaption and Geohazards

### WEDNESDAY, 10 MAY 2023

- 1.1 ILI & Integrity Management
- 2.1 Hydrogen
- 3.1 Leak Detection & Monitoring
- 4.1 Valves & Fittings
- 5.1 Offshore
- 6.1 Plastic Pipes

- ptc Get Together Party in the Exhibition Hall (with Young Pipeliners International (YPI) Awards Ceremony)
  * (free for all)

### THURSDAY, 11 MAY 2023

- 1.6 Inline Inspection & Integrity Management
- 2.6 Management
- 3.6 Risk Assessment & Simulation
- 4.6 Materials

- Panel Discussion
  * CO₂ Pipeline Infrastructure: Technical Challenges and Market Requirements
- 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)
"Global Women in Pipeline: Connect, Empower, Inspire" aims to highlight the contribution of women in the pipeline industry and to create a platform for networking and exchange of ideas. It is a kick-off event for a whole series of events centered around women in technical professions organized by the EITEP Institute. "Global Women in Pipelines" is an excellent opportunity for women in the pipeline industry to come together, share their experiences, and support each other's professional growth.

Free to attend for all ptc participants.

Supporters:

17:45-18:00 Registration / Networking (Room 8)

18:00-18:05 Opening (Room 8)

Welcome
Rana Alnasir-Boulos, Director Business Development, EITEP Institute, Germany

18:05-18:15 Keynote Speech (Room 8)

“Overcoming barriers to gender equality in the workplace: The importance of networking and mentorship for women in energy”
Grace Orife, CEO, Adelaar Energy Limited / CEO, African Women Business Network / Advisory Board Member, African Energy Chamber

18:15-18:45 Interactive Session (Room 8)

During the interactive session, attendees will have the opportunity to break into small groups to engage in discussions and share their experiences. This will provide a platform for attendees to learn from each other, ask questions, and connect with other like-minded women.

18:45-19:25 Panel Discussion (Room 8)

The event will wrap up with a panel discussion featuring women from various sectors of the energy pipeline industry. The panel will delve into the challenges and opportunities they encounter, and provide valuable insights on how women can succeed in the industry. Additionally, the panelists will present and address the outcomes of the interactive session.

Panelist
Yvonne van den Berg, Co-founder & Chief of Staff, Ingu Solutions Inc., Canada

Panelist
Ayush Gupta, Director(HR), GAIL (India) Limited, India

Panelist
Marion van den Boer, Ambassador, Women of the World, the Netherlands

Panelist
Michelle Unger, Head of Group Business Line Education Systems & Services, ROSEN Group., United Kingdom

Panelist
Viannette den Boer, Project Manager, IRM Systems, Netherlands

19:25-19:30 Closing (Room 8)

Closing
Rana Alnasir-Boulos, Director Business Development, EITEP Institute, Germany
08:00-09:00 Welcome Coffee (Exhibition Hall)

09:00-09:15 Opening (Auditorium)
Welcome
Dennis Fandrich, Managing Director, EITEP Institute, Germany

09:15-10:00 Keynote Speech (Auditorium)
"Energy security, decarbonization and the clean transition. Implications for policy and infrastructure"
Prof. Dr. Andreas Goldthau, Professor, Willy Brandt School of Public Policy, University of Erfurt, Germany

10:00-11:00 Plenary Session "The African Pipeline Market: Domestic Supply and Export Opportunities" (Auditorium)
In this panel discussion, experts will examine the African pipeline market, focusing on both domestic energy supply and export opportunities. The panel will provide valuable insights into the current state of the African energy market, including upcoming pipeline projects, trends, and challenges. They will explore the role of pipelines in meeting the growing energy demand within Africa, as well as the potential for African countries to become major exporters of energy resources. The panel will provide a comprehensive overview of the African pipeline market, providing valuable insights for industry leaders, policymakers, and stakeholders interested in the growth and development of this important future market.

Session Chair
Olugbenga Adebayo, Director, WhetEdge Consulting, Canada

Panelist
Wafae Benjelloun Benhammou, Director - DG Advisor-Legal Affairs and Partnerships, Office National des Hydrocarbures et des Mines (ONHYM), Morocco

Panelist
Dr. Samir Elkareish, Vice Chairman, Egyptian Natural Gas Holding Company (EGAS), Egypt

Panelist
Cany Jobe, Director of Exploration & Production, Gambia National Petroleum Corporation, Gambia

Panelist
Grace Orife, CEO, Adelaar Energy Limited, Nigeria
11:00-12:00 Panel Discussion: “Decarbonization of the Pipeline Industry” (Auditorium)

In this panel discussion international experts will explore the critical issues surrounding the transition to a low-carbon energy future, including the transportation of hydrogen, methane emission reduction, electrification, and regulatory challenges. The panel will provide valuable insights into the current state of the pipeline industry, including the latest trends, opportunities, and challenges in the pursuit of decarbonization. The panel will provide a comprehensive overview of the challenges and opportunities associated with decarbonizing the pipeline industry, offering valuable insights for industry leaders, policymakers, and stakeholders looking to shape the future of the energy sector.

Session Chair
Cindy Dirkx, Pipeline Specialist, Dirkx PM&S, Netherlands

Panelists
Cliff Johnson, President, PRCI - Pipeline Research Council International, United States
Deepak Gupta, Director (Projects), GAIL (India) Ltd., India
Stefan Schwietzke, UNEP Methane Science Studies, OGMP2.0, Germany
Hamza Ez-Zaki, Hydrogen Project Manager, TRAPIL, France

12:00-14:00 Lunch Break in the Exhibition Hall (+ Technology Updates Session, see page 15 for details)

14:00-15:00 Panel Discussion: “The Pipeline Safety Panel: Climate Adaption and Geohazards” (Auditorium)

Safety is a major issue in the pipeline industry. Despite their generally high level of safety, however, pipelines are not immune to the impact of natural disasters and the effects of climate change. In this panel discussion, experts will explore the need for pipeline operators to adapt to the changing climate and to minimize the risks of geohazards like floodings, earthquakes, hurricanes, fires and landslides. The panel will provide insights into best practices and innovative technologies for pipeline safety, as well as the challenges facing the industry and potential solutions for mitigating the risks posed by geohazards and climate change.

Session Chair
Christoph Ladenhauf, Head of Department Engineering Geology & Hydrogeology, ILF Consulting Engineers Austria GmbH, Austria

Panelists
Polad Rustamov, Chief Technical Officer, TANAP - Trans Anatolian Natural Gas Pipeline, Turkey
Alan K. Mayberry, Associate Administrator for Pipeline Safety, PHMSA - Pipeline and Hazardous Materials Safety Administration, United States
Thiago Santos, Pipeline Manager, PETROBRAS TRANSPORTE S.A. - TRANSPETRO, Brazil
Dave Norton, Senior Advisor, Hawk Group, United States

15:00-15:45 Coffee Break in the Exhibition Hall sponsored by Pipeline & Gas Journal
**TUESDAY, 9 MAY 2023**

<table>
<thead>
<tr>
<th>Session Chair</th>
<th>Session 1.1 Inline Inspection</th>
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<tbody>
<tr>
<td>Mike Kirkwood, Global Director, Integrity Engineering, T.D. Williamson, United Kingdom</td>
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<td>15:45-17:30 (Room 15)</td>
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**Session 1.1 Inline Inspection**

- "The U.S. Experience in Managing the Threat of Hard Spots" Khanh Tran, ROSEN, United States
- "Application of pipeline inspection using a self-propelled robot in Japan" Yasuyuki Ikuno, Nippon Steel Pipeline & Engineering Co., Ltd., Japan / Rod Lee, Interointegrity Services B.V., Canada
- "Novel inline inspection technology for crack diagnostics in gas pipeline" Magne Aanes, NDT Global, Norway
- "Self-Propelling Robotic In-Line Inspection (ILI)" Mohamed Ali Abdullah / Mohd Nazmi Mohd Ali Napiah, PETRONAS, Malaysia

**Session 2.1 Hydrogen**

- "Qualification of High-Pressure Gas Pipelines for Transmission of Hydrogen" Ulrich Marewski, OGE, Germany
- "Continued Considerations on Hydrogen Pipeline Projects in Europe" York Schöring, ILF Consulting Engineers, Germany
- "Is Steel Grade Important When Converting a Pipeline to Hydrogen?" Neil Gallon, ROSEN, United Kingdom
- "Decarbonising pipelines compression stations with hydrogen-ready solutions" Francesco Bini, Baker Hughes, Italy

**Session 3.1 Leak Detection & Monitoring**

- "Prevention of Illegal Tapping: Operational Trials of Distributed Acoustic Sensing" Tomas Matela, RMR, Germany
- "Integration of multiple Leak Detection Technologies into a single Advanced Leak Detection System" Marco Marino, EniVibes, Italy
- "Multi-sensor IOT monitoring system for monitoring of assets for leaks and other key changes" Steve Edmondson / Adrian Banica, Direct-C, Canada
- "Robust ultrasonic transducers for pipeline inspection" Andreas Mück, SONOTEC GmbH, Germany

**Session 4.1 Valves & Fittings**

- "Case Study on Block Valve Power Supply with Fuel Cells" Markus Muench, Sunfire Fuel Cells GmbH, Germany
- "Identifying and avoiding emissions from valves" René Wolters, Mokveld Valves, Netherlands
- "Removal of Hard Wax From Unpiggable Subsea Tiebacks" Steve Wheeler, WSG, United Kingdom
- "Thermodynamic And Deposition Modelling For Wax Management in a Subsea Petroleum Pipeline" Bassey Bassey, Cranfield University, United Kingdom
- "Prediction of material properties and structural performance of JCO-E offshore pipes" Spyros Karamanos, University of Thessaly, Greece

**Session 5.1 Offshore**

- "Holistic and Efficient Approach in Managing the Aftermath of Anchor Dragged Shallow Water Flexible Pipeline" Azam Syah Jafar, PETRONAS Group Technical Solutions, Malaysia
- "Identifying and avoiding emissions from valves" Rens Wolters, Mokveld Valves, Netherlands
- "Is Steel Grade Important When Converting a Pipeline to Hydrogen?" Neil Gallon, ROSEN, United Kingdom
- "Bridges as critical part of pipeline infrastructure shown by the example of rain and wastewater." Andreas Perndorfer, POLOPLAST, Austria
- "Welded Field Joints for Internally Lined Pipelines" Jose Anígio de Oliveira e Silva, Lined Pipe Systems, Brazil
- "Plastic pipes enable environmentally friendly and economical operation thanks to integrated functional layers" Thorsten Spaeth, egeplast international GmbH, Germany

**Session 6.1 Plastic Pipes**

- "Design of Fibre-Reinforced Plastic Pipelines for the Transport of Gaseous Hydrogen" Niels Grigat, Institut für Textiltechnik (ITA) - RWTH Aachen, Germany
- "Identification and avoiding emissions from valves" Rens Wolters, Mokveld Valves, Netherlands
- "Thermodynamic And Deposition Modelling For Wax Management in a Subsea Petroleum Pipeline" Bassey Bassey, Cranfield University, United Kingdom
- "Prediction of material properties and structural performance of JCO-E offshore pipes" Spyros Karamanos, University of Thessaly, Greece
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17:30-19:30 Get-together in the Exhibition Hall (with Young Pipeliners International (YPI) Awards Ceremony)
**WEDNESDAY, 10 MAY 2023**

### 09:00-10:15 (Room 15)
**Session 1.2**
**Inline Inspection & Integrity Management**

### 09:00-10:15 (Room 6)
**Session 2.2**
**Hydrogen**

- "Decarbonization Opportunity: Hydrogen Blending into Existing Natural Gas Transmission System"  
  Azam Sjah Di Dafaar, PETRONAS, Malaysia
- "Hydrogen Blended Pipelines – A path to integrity readiness and the role of ILI inspection"  
  Jeff Sutherland, Baker Hughes, Canada
- "Inspection Solutions and Their Role in Pipeline Repurposing – How To Safely Manage the Transition to Net Zero"  
  Marc Baumeister / Jens Voss, ROSEN, Germany

### 09:00-10:15 (Room 7)
**Session 3.2**
**Leak Detection & Monitoring**

- "Not A Drop Of Oil Lost: How Modern Clamp-On Technology Contributes To A Reliable And Cost-Efficient Pipeline Management"  
  Patrick Kalina, Siemens AG, Germany
- "A new generation of acoustic inline leak detection tools"  
  Rene Landstorfer, GOTTESBERG Leak Detection GmbH & Co. KG, Germany
- "Benefits of Hybrid Leak Detection Systems for Pipelines"  
  Max Ihring, KROHNE, Germany

### 10:15-11:15 (Room 15)
**Coffee Break in the Exhibition Hall**

### 11:15-12:30 (Room 15)
**Session 3.3**
**Inline Inspection & Integrity Management**

- "Ultra-high resolution MFL Inspection for the Detection and Sizing of Pitting and Pinhole Corrosion in Gas Pipelines"  
  Alejandro Ruiz, PipeCare Group, United States / John Healy, Integrity Consultant, United Kingdom
- "Above and Below: ILI-based Pipe Strain Assessment"  
  Dieter Wohlen, ROSEN, Germany
- "New Approaches in Utilizing Eddy Current Testing to Address Pipeline Integrity Inspection Requirement"  
  Sylvain Cornu, NDT Global, Germany / Bart Koppens, Rotterdam Rijnpijpleiding, Netherlands

### 11:15-12:30 (Room 6)
**Session 4.3**
**Compressor Stations**

- "CO2 footprint reduction in Natural gas Pipeline transmission, using gas turbines equipped with variable geometry"  
  Alessandro Masciullo, Baker Hughes, Italy
- "Use of Pipeline Type Compressors in a Heat Pump System"  
  Jürgen Binner, MAN Energy Solutions, Germany / York Schorling, IFL Consulting Engineers, Germany
- "Acoustic Leak Imaging (ALI) Technology for Compressor Stations and Pressure Reducing Stations"  
  Frank Fige, Distran, Germany

### 11:15-12:30 (Room 8)
**Session 5.3**
**Coating**

- "Engineering of thermal insulation coatings in captive applications – New insulation granules: TEGOF Thermo HP 4000"  
  Marc Beiser, Evonik Technologies, Germany
- "Coating ageing under induced cathodic protection environment"  
  Krystel Pélisser, French Corrosion Institute, France
- "Coextrusion leading to a unique corrosion prevention solution"  
  lubricant, DENSO GmbH, Germany

### 11:15-12:30 (Room 9)
**Session 6.3**
**Maintenance & Repair**

- "Designing Composite Repairs for Pipeline Applications"  
  Paul Hill, TEAM Industrial Services Inc., United Kingdom
- "Right-Of-Way Maintenance Prioritization by Applying Machine Learning Models on Third-Party Call Notification Data"  
  Vinicius C. Peixoto, Petrobras Transporte S.A., Brazil
- "Inspection, Condition Assessment and Rehabilitation of Submerged Large Diameter Twin Water Intake Pipeline"  
  Olgubenga Ishunlere, Stantec Consulting Ltd., Canada

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**12:30-14:00 Lunch Break in the Exhibition Hall**
**WEDNESDAY, 10 MAY 2023**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1.4: Advanced Inception &amp; Integrity Management</th>
<th>Session 1.5: Inception &amp; Integrity Management</th>
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<tbody>
<tr>
<td>14:00-15:15</td>
<td>Session Chair: Stefan Klein, Inspection</td>
<td>Session Chair: FedERICA Fucara, Strategy</td>
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<td>GASCADE Gastransport GmbH, Germany</td>
<td>&amp; Growth Manager, Baker Hughes, Italy</td>
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<td>14:00-15:15</td>
<td>Session 2.4: Hydrogen</td>
<td>Session Chair: Martin Mans, Managing</td>
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<td>Director, LIWACOM, Germany</td>
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<td>14:00-15:15</td>
<td>Session 3.4: Leak Detection &amp; Monitoring</td>
<td>Session Chair: Andreas Antoniou, Geotechni-</td>
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<td>cal Engineer, National Technical University</td>
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<td>14:00-15:15</td>
<td>Session 4.4: Geohazards</td>
<td>Session Chair: Emmaniel Anozie, Business</td>
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<td>Manager, Pipeline Product Line (EME&amp;A),</td>
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<td>14:00-15:15</td>
<td>Session 5.4: Digitalization</td>
<td>Session Chair: Klaus Beyrer, Executive</td>
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<td>Director, GST - German Society for</td>
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<td>Trenchless Technology, Germany</td>
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**Anomalies in the neighborhood: exploring the feasibility of a k-nearest neighbors classifier to match anomalies reported by consecutive in-line inspections**

Semyon Bokhankevich, T.D. Williamson, United Kingdom

“Advances in Corrosion Growth Rate Calculation from Comparison of ILL DATA”

Aidan Charlton, Portgas GmbH, Germany

“Comparison of Corrosion Growth Models”

Megan Scudder, OneBridge Solutions Inc., United States

“Chemistry Matters - Hydrogen Compatibility with Gas Production Chemicals”

Caleb Clark, Champion, United States

“Design and Cost Analysis of a Hydrogen Pipeline from Morocco to Central Europe”

Tin Jurriëns, ILF Consulting Engineers, Germany

“Using simulation tools to support the transition to hydrogen for both new and existing pipelines”

Garry Hamer, Atmospheric International, United Kingdom

“Pipeline 3D-positioning at river crossing: long-range magnetic mapping via Unmanned Aerial Vehicle (UAV)”

Meihdi M. Laichoubi, skipping NDF, Canada

“Use of Technology for Inspections of River Crossings”

João Duarte Guião Mendes, Petrobras Transporte S.A. - TRANSPETRO, Brazil

“GIS based Spatial Risk Assessment for Natural Gas Pipelines”

Yogin Gujar, Gujarat State Petronet Limited, India


Khama Roy, DNV Canada Limited, Canada

“How offshore suspended lifelines can help us avoid geohazards?”

Nikolaus Makrakis, Technical University of Crete, Greece / Pro- dromos Paurgeopolou, National Technical University of Athens, Greece

“Transition to hydrogen – what can help us avoid geohazards?”

Ilija Kupresanin, Portgas Srbija, Serbia

“TSA SD02C and NIS2: the new Cybersecurity Regulatory Landscape for Pipeline Operators”

Sam Miorelli, Siemens Energy, United States

“How Two Gas Network Operators Prepared for the Energy Transition by Automating Key Network Analysis Functions”

Duncan Smith, DNV, United Kingdom

“The role of green HDD for pipelines and sustainable power grids”

Simon Herrenknecht, Herrenknecht AG, Germany

“Designing of HDD pipes according to DWA-A 161 / DVGW GW 312”

Frederik Müller, IngSoft GmbH, Germany

“An Innovative Approach to Simplifying Subsea Pipeline Crossing At Open Sea Using Horizontal Drilling (HDD) Technique”

Sohn Tzainal Abidin, PETRONAS, Malaysia

**15:15-15:45 Coffee Break in the Exhibition Hall**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1.6: Pipeline Management &amp; Integrity</th>
<th>Session 1.7: Pipeline Management &amp; Integrity</th>
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<td>Session 2.5: CO2 Pipelines</td>
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<td>15:45-17:35</td>
<td>Session 5.3: Digitalization</td>
<td>Session Chair: Vita Voliets, Project...</td>
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<td>Consultant, Project... Consultant</td>
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<tr>
<td>15:45-17:35</td>
<td>Session 6.5: Pipelines / Sewers / Cables</td>
<td>Session Chair: Project... Consultant,</td>
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<td>Project... Consultant</td>
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**The power to know more about pipeline anomalies**

Mike Kirkwood, T.D. Williamson, United Kingdom

“Capitalizing on Data As An Asset”

Martin Roberts, PODS Association, United States

“Pipeline joint identification using neural networks”

Michael Byington, INGU Solutions, Canada

“Utilization of Robotic Technology for Assessing Internal Pipeline Condition During Construction - An Optimized Inspection Approach”

Rakan Alshebe, Saudi Aramco, Saudi Arabia

“Dynamic Simulations of CO2-rich Systems Transportation in Pipelines”

Christoph Kersten, Wintershall Dea AG, Germany

“Challenge in Offshore CO2 Pipeline Design: A Case Study of Offshore Carbon Capture and Storage in Malaysia”

I Wayan Eka Putra, PETRONAS, Malaysia

“Design Workflow to Assess Ductile Fracture Propagation in CO2 Pipelines”

Stefano Zanini, Eni Spa, Italy

“Process Analytics Secures the Quality of Green Hydrogen and CO2 Pipeline Management”

Harald Mahler / Frederic Thieland, Siemens AG, Germany

“Methane leak detection and emissions quantification”

Axel Scherello, OGE, Germany

“Case study: TSO and environmental service provider collaborate to detect and quantify source-based methane emissions in compliance with OGM Level 4”

Cindy Verhoeven, Inter - The Sniffers, Netherlands / Robert Simigla, FGZS, Hungary

“Non-intrusive monitoring of fluid state and cavitation in pipes”

Goran Pavic, INSAsa Lyon, France

“Pipeline integrity monitoring with non-invasive ultrasonic flow measurement technology”

Maksym Cichon, FLEXIM GmbH, Germany

“Increasing need of disaster management for safe pipeline operations”

Jens Focke, Federal Construction Enquiry Property Berlin (BIL eG), Germany

“Pipeline 3rd Party Threat and Geohazard Monitoring via Machine Learning”

Swee Ling Koh, PETRONAS Group Technical Solutions, Malaysia

“A statistical model for pipeline rainfall triggered landslides risk management”

Pedro Victor Serra Mascarenhas, Petrobras Transporte S.A. - TRANSPETRO, Brazil

“The Future of Pipeline Integrity Management, how Machine Learning can enhance External Corrosion Direct Assessment”

Oscar Ruiz Martinez, Rosen, ROSEN, Netherlands

“Geospatial Technology – The Foundation for Creating a Pipeline Digital Twin”

Jeff Allen, Esri, United States

“Digital Twin model for pro-active pipeline maintenance – An external corrosion case study”

Christophe Baete, Elyca, Belgium

“Digital Assurance of emission data to progress the Net Zero strategy”

Andreas Di Lillo, Bureau Veritas, France

“Sustainable grid expansion: trenchless installation technologies for underground cables”

Marc Peters, Herrenknecht AG, Germany

“Optimizing Pressure Monitoring in a Water Distribution Network through Bayesian Calibration”

Gözde Kızıle, University of Stuttgart, Germany

“Pathfinder® Foam Caliper Pig Overcomes Severe Pipeline Conditions to Successfully Identify and Locate Geometric Deformations in Gas Pipeline, Mainland China”

David Cockfield, Pipeline Innovations Limited, United Kingdom

“Optimization of distribution pipeline network routing in irrigation projects”

Rajesh Kumar V, / Sathyarayanarasimhan, WET ICL & Construction, India

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**18:00-22:30: Dinner Invitation “DogTap Berlin” sponsored by EMPIT (extra registration required)**
Session Chair: Sameera Naib, Chair, Young Pipeline Professionals Europe (YPPE), Netherlands

09:00-10:15 (Room 9)
Session 1.6 Inline Inspection & Integrity Management

"Whole Pipeline Dent Fatigue - Efficient Assessment using FEA" Susannah Turner, Highgrade Associates Ltd, United Kingdom

"Assessing the accurate topography of complex channeling corrosion by means of ultrasonic wall measurement tools. A case study and experiences" Christoph Jaeger, NDT Global, United States

"Only dig the real cracks - A process to efficiently manage SCC and minimise unnecessary excavations" Brian Kerrigan, Frontline Integrity, United Kingdom

09:00-10:15 (Room 8)
Session 2.6 Management

"Delivering Quality Globally – Maintaining Competency in A Digital World" Aidan Charlton, Penspen, United Kingdom

"Pipeline Safety in the Biden Administration" Keith Coyle, Babst Calland, United States

"Wax Deposition in South European Hydrocarbons Transport Line" Alessandro Speranza, KBC (A Yokogawa Company), United Kingdom

10:15-11:00 Coffee Break in the Exhibition Hall

Session Chair: Daniel de Raat, COO, Van Leeuwen Trenchless Technology, Netherlands

09:00-10:15 (Room 6)
Session 3.6 Risk Assessment & Simulation

"Mitigation of Project Risks by Fluid Dynamic Simulation of Gas Pipe Networks, Pipelines, FSRU" Gerd Kloeppner, Siemens AG, Germany

"Automated Risk Assessment and Risk-based Inspection Planning for Lean Operations" Viannette den Boer, IRM Systems, Netherlands

"Knowledge gaps in the risk assessment of hydrogen and carbon dioxide pipelines" Zoe Chaplin / Simon Gant, Health and Safety Executive, United Kingdom

09:00-10:15 (Room 7)
Session 4.6 Materials

"Development of API-X65 Carbon Steel for Severe Sour Service and Hard Spot Detection with Advanced NDT Technology" Seong Ung Koh, POSCO, Korea, Republic of

"Corrosion rate of buried steel after cathodic protection interruption" Erwan Diler, French Corrosion Institute, France

"Application and validation of FMC 2D ultrasonic imaging for CRA girth weld inspection" Niels Portzgen, ApplusRTD, Netherlands

11:00-12:00 Panel Discussion: “CO₂ Pipeline Infrastructure: Technical Challenges and Market Requirements” (Auditorium)

In this panel discussion, experts will delve into the technical challenges and market requirements associated with the development of CO₂ pipeline infrastructure for CO₂ transportation and carbon capture and storage (CCS) projects. The panel will provide insights into the current state of the industry, including the technical challenges of transporting CO₂ via pipelines. The discussion will also focus on the market requirements for CO₂ pipeline infrastructure, including cost-effectiveness, scalability, and reliability. The panel will provide valuable insights for industry leaders, policymakers, and stakeholders looking to understand the technical challenges and risks associated with CO₂ pipeline infrastructure and the role that it will play in the future.

Session Chair
Marion Erdelen-Peppler, President, EPRG - European Pipeline Research Group, Germany

Panelist
Jens Erfurth, Technical Project Lead CO₂ Transport, OGE, Germany

Panelist
Wim Guijt, Principal Technical Expert Pipelines, Shell, Netherlands

Panelist
Christoph Bosch, Senior Expert, Europipe, Germany
THURSDAY, 11 MAY 2023

12:00-13:15 Plenary Session “World Pipeline Outlook” (Auditorium)

In this plenary session experts will provide an overview of pipeline-related developments in the three key regions of North America, Europe, and Southeast Asia. The presentations will cover latest trends, opportunities, and challenges facing the pipeline industry in each of these regions, including the impact of changing energy demand, regulatory frameworks, and geopolitical considerations. Another focus topic will be the issue of skilled labor shortage in the pipeline industry and the importance of promoting young talent to ensure the sustainability of the sector. The session will offer a comprehensive outlook for the future of the pipeline industry, highlighting key challenges and opportunities for industry leaders, policymakers, and stakeholders.

Session Chair
Dirk Strack, Senior Advisor, EITEP Institute, Germany

“The Future of Pipeline Infrastructure in the United States: Trends and Projections”
Tristan Brown, Acting Administrator & Deputy Administrator, PHMSA - Pipeline and Hazardous Materials Safety Administration, United States

“After the storm: The outlook for Europe’s pipeline system”
Christof Rühl, Global Advisory Board, Crystol Energy, United Kingdom

“The South East Asian Pipeline Market”
Mohd Nazmi bin Mohd Ali Napiah, Custodian/Head/Group Technical Authority (Pipeline Engineering), Petronas, Malaysia

“Bridging the Gap: The Young Pipeliners’ Approach to Fostering Collaboration and Engagement in the Industry”
Kshama Roy (Chair), Anish Goswami, Danny Molyneux, Marguerite Forde, ptc Young Pipeliners Engagement Committee (YPEC)

13:15-13:30 Closing (Auditorium)

Award Ceremony “Dr. Klaus Ritter Award for Best Young Pipeliner Paper”
Marian Ritter, Managing Director, EITEP Institute, Germany

Award Ceremony ptc Photo Contest “Working in the pipeline industry”
Rana Alnasir-Boulos, Director Business Development, EITEP Institute, Germany

Closing Remarks
Dirk Strack, Senior Advisor, EITEP Institute, Germany

13:30-14:00 Lunch Break in the Exhibition Hall

from 14:00 Workshops / Operator Round Tables (see pages 22/23 for details)
"Technology Updates" is a new platform designed to showcase the latest products and services through short spotlight presentations. The forum is situated within the exhibition hall.

The presentations are free for all conference and exhibition attendees to attend.
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SOCIAL PROGRAM

Overview

MEETUP

MON. 8 MAY, 19:30
HOTEL LOBBY

BACKGROUND
On the eve of the official opening of the ptc conference, the organizer EITP Institute invites the participating speakers and exhibitors to a joint gathering with the members of the Advisory Committee to get to know each other.

PARTICIPANTS
Invitation only: conference speakers, session chairs, exhibitors (1), sponsors (2-3) and the members of the ptc Advisory Committee

Dress code: Smart casual

GET-TOGETHER PARTY
TUE. 9 MAY, 17:30
EXHIBITION AREA

BACKGROUND
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 on various exhibition stands. Enjoy a great evening of meeting and reuniting with music and quality catering.

The Young Pipeliners International (YPI) Awards Ceremony will take place during the Get-together party.

PARTICIPANTS
All participants of ptc on Tuesday, 8 May 2023

Dress code: Business casual

DINNER INVITATION
"DOGTAP BERLIN"
WED. 10 MAY, 18:00
DOGTAP BERLIN

BACKGROUND
Join us for an unforgettable evening at the ptc 2023 Dinner Invitation. This exclusive event is hosted at the renowned DogTap Berlin, located in the historic Gaswerk Marienpark. The Dinner Invitation is a highly sought-after event, with limited spots available. Don't miss your chance to network with other professionals in the industry while enjoying delicious food, freshly brewed beer, and exciting activities such as brewery tours, shuffleboards, and duck pin bowling.

PARTICIPANTS
Additional registration required (limited to 300 persons, first come first serve) Spouses / partners are cordially invited as well.

Dress code: Smart casual
SEMINAR PROGRAM

08 May 2023, 09:00, Estrel, Berlin

DIFFICULT TO INSPECT PIPELINES

The course covers onshore and offshore pipeline inspections, including terminologies, scenarios, inspection technology, tools, and preparation for internal and external inspections. It also covers solutions provided by various vendors.

SOIL MECHANICS FOR STRESS ANALYSIS AND PIPELINE DESIGN

The course is ideally suited to educate pipe stress engineers and analysts on soil mechanics, geological hazards and improve communication with geotechnical engineers.

IN-LINE INSPECTION (ILI) OF PIPELINES

The course is ideally suited to introduce the subject of in-line inspection, also as a foundation for the special in-line inspection tracks of the Pipeline Technology Conference.

RISK ASSESSMENT AND MANAGEMENT OF PIPELINE PROJECTS SUBJECTED TO GEOHAZARDS

The course covers natural hazards and their impact on pipeline design, construction and operation, including risk assessment and protection/mitigation techniques.
The PTC Young Pipeliners Engagement Committee (YPEC) is made up of a diverse group of young people from around the world who are passionate about the future of the pipeline industry. The committee’s primary mission is to engage, inspire, and empower young pipeliners to succeed and drive innovation in the industry. Members of the YPEC meet regularly online to share ideas and collaborate on initiatives aimed at promoting young talent at the ptc. The committee gathers once a year during the ptc in Berlin to discuss the progress and to reconstituted.

Chair
Kshama Roy, Principal Engineer, Integrity Solutions & Compliance, Energy Systems, DNV, Canada

Member
Anish Goswami, Assistant Director (Engineering), Ministry of Defense, India

Member
Danny Molyneux, Technical Advisor, Quest Integrity, United Kingdom

Member
Marguerite Forde, Integrity Solutions Specialist & Sales Manager, ROSEN Group
YPI AWARDS

09 May 2023, 18:30, Exhibition Hall

1) YPI Early Achievement Award 2023 (Dedicated to Young Pipeline Professional Under 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

2) YPI Emerging Young Pipeline Professional Award 2023 (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

AWARD CEREMONY

During the ptc Get-together party on Tuesday, 9 May 2023, 18:30
Demand for pipeline leak detection and location systems is increasing rapidly. Unfortunately, general knowledge about these systems is still limited and the view that these systems 'will only detect catastrophic leaks' or 'give false alarms all the time' is still heard regularly. This view may be the result of bad experience in the past, unrealistic expectations, or a combination of the two. This workshop shows the benefits of using a leak detection system which combines several API 1130 technologies into one system. Following an introduction to the principles behind PipePatrol E-RTTM and its model supported, statistical classification method, field data is presented to show the capabilities of the system in a real-world, operational environment. It will be shown that modern leak detection systems do allow leak detection without false alarms, on liquid and even on gas pipelines operated in dynamic (transient) conditions. Historical Data will be used to show capabilities of the system while simulating a leak test in real-time. The results of this live demonstration will be discussed.

Registration
If you wish to participate in this free workshop, please register yourself at the KROHNE exhibition booth during the Pipeline Technology Conference.

Target Group
Pipeline operators of oil, gas, chemical and refined products, pipeline manufacturers, renewable energy, energy transition, CCS and H2 pipeline operators

Organizer
KROHNE

measure the facts

WORKSHOPS AT PTC
• Pricing: free of charge (pre-registration required)
• Visit www.pipeline-conference.com/workshops for details.
• Please contact us in case you are also interested in organizing your own workshop at ptc.
All participating pipeline operators at ptc 2023 are invited to take part in this free informal in-person exchange of experiences on different topics on Thursday, 11 May 2023 in the afternoon. The meeting will only involve pipeline operators and no technology and service providers.

Operator Round Table #1: Illegal Tapping (Room 8)

MODERATOR
Michael W. Cech
Head of Pipeline JV's and Shipping
OMV Refining & Marketing
Austria

Operator Round Table #2: ILI Tools (Room 9)

MODERATOR
Dirk Strack
Senior Advisor
EITEP Institute
Germany
EUROPE’S BIGGEST PIPELINE EVENT
THE ANNUAL GATHERING OF THE INTERNATIONAL PIPELINE COMMUNITY IN THE HEART OF EUROPE

After starting as a small side event of the huge HANNOVER MESSE trade show in 2006 in Hannover, the Pipeline Technology Conference developed into Europe’s biggest pipeline conference and exhibition. Since 2014 the ptc takes place in Berlin.

OPERATORS
INCREASING SHARE

Over the last years the number of delegations from different pipeline operators increases steadily. At the last ptc delegations from 70 different national and international pipelines operators came to Berlin.

TRULY INTERNATIONAL

70% OF THE PTC DELEGATES ARE COMING FROM ABROAD (EUROPE, MIDDLE EAST, NORTH AMERICA, SOUTH AMERICA, ASIA, ETC.)

ptc is a truly international event with only 30% of the delegates coming from Germany. In 2022 delegates from 50 different countries attended the 17th ptc in Berlin. The share of delegates from abroad is increasing from year to year.

VISIT BERLIN
THE THRIVING GERMAN CAPITAL

Berlin is more than 775 years old and over the decades, all generations have left their monuments and landmarks in town. Stay a few days longer and take a deep dive into both historic and modern Berlin.
DEMOGRAPHY

The ptc community - quick facts

80+
Operators sending delegations

50+
Countries

35%
Rest of the World

35%
Other Europe

30%
Germany

80+
Exhibitors

800+
Delegates

Origin of the ptc participants
GENERAL INFORMATION

RECOMMENDED ACCOMMODATION
ESTREL BERLIN
Sonnenallee 225
12057 Berlin
Germany
www.estrel.com
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

PHOTO CREDITS
Philip Wilson / EITEP
Sabri Hasso / EITEP
Christoph Ludescher / LCS Cable Cranes *
Hossam Hasafy, PETROLEUM MARINE SERVICES CO *
Wolfgang Scholvien / visitBerlin
Philip Koschel / visitBerlin

* these technical photos on the cover were participants of the ptc photo contest “Working in the Pipeline Industry”
QUICK FACTS

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

CONFERENCE MANAGEMENT
Dennis Fandrich
+49 511 90992-22, ptc@eitep.de

EXHIBITION MANAGEMENT
Marian Ritter
+49 511 90992-15, ptc@eitep.de

MARKETING SUPPORT
Rana Alnasir-Boulos
+49 511 90992-19, ptc@eitep.de

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Young Pipeline Professional Awards
Dr. Klaus Ritter Award for Best Young Pipeliner Paper
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www.pipeline-journal.net

www.pipeline-conference.com
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