16TH PIPELINE TECHNOLOGY CONFERENCE
15-18 MARCH 2021, ONLINE

EVENT GUIDE
>Welcome to the 16th Pipeline Technology Conference

Europe’s leading pipeline conference and exhibition moves to fully virtual
Every year the Pipeline Technology Conference (ptc) attracts nearly 1,000 participants from more than 50 different countries around the world. Operators, contractors, regulators, high technology innovators - all mingling and contributing their expertise and industry insight - making the ptc the premier pipeline industry event in the world.

Given the medical imperatives of our time, the 16th Pipeline Technology Conference, initially planned as a hybrid event, will morph into an online-only event.

The 16th Pipeline Technology Conference will feature the same essential success factors as a face-to-face event:

- **Knowledge Transfer**: A transfer of knowledge, for example, in the form of lectures
- **Competitive Technology Showcase**: The presentation of technologies and companies in competition, as it happens in real time in the exhibition hall
- **Networking**: Networking of participants with one another in various constellations and settings

Over the past 6 months we have gained invaluable experience with our newly launched "Virtual Pipeline Summit" event series regarding the many benefits that an online-only format can offer. With this wealth of experience, we will transform the ptc 2021 into a unique event that participants will remember for a long time to come.

In light of the participating delegations from 80 different pipeline operating companies, the ptc has always been a unique meeting place for the exchange of operator knowledge across national borders and continents. This defining characteristic of the ptc will be enhanced this year by offering free tickets for pipeline operators for the online-only event.

Thanks again to the members of the ptc Advisory Committee and to the whole ptc community for their continued support.

We look forward to seeing you online!

Dennis Fandrich
Pipeline Technology Conference Chairman
ADVISORY COMMITTEE

CHAIRMEN
Heinz Watzka, Senior Advisor, EITEP Institute
Dirk Strack, Senior Advisor, EITEP Institute

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Saumitra Shankar Gupta, Chief General Manager (M&I), Indian Oil Corporation

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Maximilian Hofmann, Managing Director, MAX STREICHER

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Mark David Iden, Chief Executive Officer, SkyData Air&Space
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Barbara Jinks, Programme Officer - Green Gas Delivery and Use, IRENA
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
Dr. Andreas Liessem, Managing Director, Europipe

Michael Lubberger, Senior Product Manager Pipeline, BU Utility Tunnelling, Herrenknecht
Martin Mans, Managing Director, LIWACOM
Brigham McCown, President, Alyeska Pipeline Service Company

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, Thyssengas
Hermann Rosen, President, ROSEN Group
Michael Schad, Head of Sales International, DENSO

Dr. Adrian Schaffranitz, Coordinator Government Relations, Nord Stream 2
Prof. Dr. Jürgen Schmidt, Managing Director, CSE Center of Safety Excellence
Ulrich Schneider, Business Development Manager Continental Europe, KTN

Guntram Schnotz, Expert / Pipeline, TUV SUD Industrie Service
Asle Venas, Senior Principal Pipeline Specialist, DNV GL
Bernd Vogel, Head of Network Department, GASCADE Gastransport

Roger Vogel, Sales Manager - EURA, Baker Hughes
Paul Waanders, Int. Sales Manager, Maats Pipeline Professionals
Thomas Wolf, Vice President EMEA, NDT Global

George Ziborov, Leading expert, Foreign Economic Relations Department, Transneft
# PROGRAM DRAFT

**MONDAY, 15 MARCH 2021**

**NETWORKING DAY**

**PTC CONFERENCE**

**TUESDAY, 16 MARCH 2021**

Opening / Welcome

Keynote Speech

"Innovative Projects Platform of the European Gas Pipeline Operators - Paving the Way for a Decarbonized European Gas Grid"

Plenary Session

"Eurasian Pipeline Forum - Linking East and West"

Panel Discussion

"Pipeline Protection"

Panel Discussion

"The African Pipeline Market"

Panel Discussion

"Pipeline Safety"

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<th>5.1 Repair &amp; Maintenance</th>
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1.3 Integrity Management 2.3 Hydrogen 3.3 Offshore Technologies 4.3 Leak Detection

1.4 Integrity Management 2.4 Hydrogen 3.4 Trenchless Technologies 4.4 Leak Detection

1.5 Integrity Management 2.5 External Inspection 3.5 Planning & Construction 4.5 Leak Detection

**THURSDAY, 18 MARCH 2021**

Plenary Session

"World Pipeline Outlook"

Panel Discussion

"The Energy Mix of Tomorrow: Future Fuels in the Pipeline"

Closing Remarks

- Access to the online platform with further details from shortly before the event until after the event.
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## PTC CONFERENCE

**TUESDAY, 16 MARCH 2021 (ALL TIMES BERLIN TIME ZONE, CET)**

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<td>07:30-09:00</td>
<td>Good Morning Coffee</td>
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<tr>
<td>09:00-09:30</td>
<td><strong>Opening</strong></td>
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<td></td>
<td>Welcome</td>
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<td></td>
<td>Dennis Fandrich, Director Conferences, EITEP Institute, Germany</td>
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<td>Marian Ritter, Director Exhibition, EITEP Institute, Germany</td>
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<td>09:30-10:00</td>
<td><strong>Keynote Speech</strong></td>
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<td></td>
<td>&quot;Innovative Projects Platform of the European Gas Pipeline Operators - Paving the Way for a Decarbonized European Gas Grid&quot;</td>
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<td>Stephan Kamphues, President, ENTSOG (European Network of Transmission System Operators for Gas), Belgium</td>
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<tr>
<td>10:00-11:30</td>
<td><strong>Plenary Session &quot;Eurasian Pipeline Forum - Linking East and West&quot;</strong></td>
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<td>Heinz Watzka, Senior Advisor, EITEP Institute, Germany</td>
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<td>&quot;Developments in the East Med: Opportunities and challenges with pipeline projects&quot;</td>
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<td>Elfride Covarrubias Villegas, Business Development Manager, Oil &amp; Gas Mediterranean, DNV, Norway</td>
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<td>&quot;The Trans Adriatic Pipeline: A challenging pipeline project ranging from 2,100 meters above sea level to 810 meters beneath the sea&quot;</td>
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<td>John Haynes, Project Director, Trans Adriatic Pipeline AG, Switzerland</td>
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<td>&quot;Transcontinental cooperation within the framework of the International Association of Oil Transporters&quot;</td>
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<td>Jaroslav Kocian, Chairman of the Governing Board, International Association of Oil Transporters, Czech Republic</td>
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<td>11:30-13:00</td>
<td><strong>Panel Discussion: &quot;Pipeline Protection&quot;</strong></td>
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<td>Session Chair</td>
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<td>Fabio Evangelho, Public Affairs for Pipeline Protection, TRANSPETRO, Brazil</td>
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<td>Julio C. Barreto, Pipeline Protection Executive Manager, TRANSPETRO, Brazil</td>
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<td>Andres Mantilla, Director of the Colombian Petroleum Institute, ECOPETROL, Colombia</td>
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<td>Otto Chaverri, Head of the Transfer Department, RECOPE, Costa Rica</td>
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<td>Giuseppe Giunta, Technical Authority Manager, ENI, Italy</td>
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TUESDAY, 16 MARCH 2021 (ALL TIMES BERLIN TIME ZONE, CET)

11:30-13:00 Panel Discussion: "The African Pipeline Market" (Track 2)

**Session Chair:** Ulrich Schneider, Business Development Manager Continental Europe, KTN, Norway

**Panelist:**
- Olugbenga Adebayo, Director, WhetEdge Consulting, Canada
- Azbe Egaikaide, Management Consultant / Project Manager, Egaikaide Consulting, Germany
- Roderick Lee, Intero Integrity Services, Canada
- Aidan Charlton, Penspen (Asset Integrity / THEIA), United Kingdom
- Jean-François Wirmann, Siemens Energy, Germany

13:30-15:00 Panel Discussion: "Safety in Design and Construction of Pipelines" (Track 1)

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

**Panelist:**
- Dr. Thomas Jung, Director Project Division, MAX STREICHER, Germany
- Bruno Pomaré, Business Development Director / Director of the Board of IPLOCA, SPIECAPAG, France
- Dr. Ashokanand Vimalanandan, Center of Competence Corrosion Protection, Open Grid Europe GmbH, Germany
- Patrick Junkers, HYTORC Spring LLC, United States
- Shawn Laughlin, Pipe Spring LLC, United States

15:00-15:30 Networking Break

**Panel Discussion: "The Innovation of Steel Corrosion"**

- "Condition Assessment of Force Main" Kishen Prathivadi, Sewer Authority Mid-Coastside, United States
- "A Population-Based Study On The Prevalence Of Corrosion In Pipelines" Erika Santana, ROSEN, United Kingdom
- "Corrosion-resistant plastic pipes with permeation barrier for safe transport of contaminated fluids from industrial processes or exploration" Thorsten Speth, egeplast international GmbH, Germany

**Panel Discussion: "Safety in Design and Construction of Pipelines"**

- "Condition Assessment of Force Main" Kishen Prathivadi, Sewer Authority Mid-Coastside, United States
- "Tape Coatings – what are the differences in manufacturing technologies and which impact do they have on the material properties?" Luc Perrad, DENSO GmbH, Germany
- "Pipeline information modelling (BIM) for maintenance in Latvia" Janis Berkis, ITED, Latvia
- "Examining the repair capability of composites on crack or crack-like features" Casey Whalen, CSNRI, United States
- "The Innovation of Steel Corrosion"
  - "Condition Assessment of Force Main" Kishen Prathivadi, Sewer Authority Mid-Coastside, United States
  - "Tape Coatings – what are the differences in manufacturing technologies and which impact do they have on the material properties?" Luc Perrad, DENSO GmbH, Germany
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- "Examining the repair capability of composites on crack or crack-like features" Casey Whalen, CSNRI, United States
- "The Innovation of Steel Corrosion"

15:30-17:30 Panel Discussion: "The Innovation of Steel Corrosion"

**Panel Chair:** Rob van der Spek, Director Knowledge Management Advisory Services and Digital Lead, DNV, Netherlands

**Panelists:**
- Olugbenga Adebayo, Director, WhetEdge Consulting, Canada
- Aidan Charlton, Penspen (Asset Integrity / THEIA), United Kingdom
- Jean-François Wirmann, Siemens Energy, Germany
- Kishen Prathivadi, Sewer Authority Mid-Coastside, United States
- Luc Perrad, DENSO GmbH, Germany
- Janis Berkis, ITED, Latvia
- Casey Whalen, CSNRI, United States
- Thorsten Speth, egeplast international GmbH, Germany

15:30-17:30 Panel Discussion: "Condition Assessment of Force Main" (Track 3)

**Session Chair:** Marguerite Forde, Chair, Young Pipeline Professionals Europe, United Kingdom

**Panelists:**
- Erikas Santana, ROSEN, United Kingdom
- Luc Perrad, DENSO GmbH, Germany
- Marco Lettieri, Technical Lead, Pipelife, Germany
- Tony Jenkins, Predictive Maintenance, UK
- Andrei Stanciu, CSNRI, United States

15:30-17:30 Panel Discussion: "Condition Assessment of Force Main" (Track 4)

**Session Chair:** Michael Schad, Director Sales Pipelines International, DENSO, Germany

**Panelists:**
- Erika Santana, ROSEN, United Kingdom
- Luc Perrad, DENSO GmbH, Germany
- Marco Lettieri, Technical Lead, Pipelife, Germany
- Tony Jenkins, Predictive Maintenance, UK
- Andrei Stanciu, CSNRI, United States

15:30-17:30 Panel Discussion: "Condition Assessment of Force Main" (Track 5)

**Session Chair:** Cindy Dirks, Independent Pipeline Professional, Dirk PM&S, Netherlands

**Panelists:**
- Janis Berkis, ITED, Latvia
- Casey Whalen, CSNRI, United States
- Thorsten Speth, egeplast international GmbH, Germany
- Marco Lettieri, Technical Lead, Pipelife, Germany
- Tony Jenkins, Predictive Maintenance, UK
- Andrei Stanciu, CSNRI, United States
**Session Chair: Michael Beller, Head of Global Market Strategy/Asset Care, ROSEN Group, Germany**

09:00-10:15 (Track 1)

**Session 1.2 Inline Inspection**

"Bi-directional in-line inspection of jetty lines"
Christoph Sur, 3P Services GmbH & Co. KG, Germany

"Combined defect assessments using Phased Array Inline Inspection technology"
Stéphane BENCHOU, TRAPIL, France

"A New Phased Array Sensor for Pipeline Inspection – Optimization and Quantitative Performance Evaluation"
Martin Spies, Baker Hughes - Process & Pipeline Services, Germany

10:15-11:15 Networking Break

**Session Chair: Danny Molynieux, Technical Advisor, Quest Integrity, United Kingdom**

09:00-10:15 (Track 2)

**Session 2.2 Hydrogen**

"Are your pipelines H2 ready?"
Mike Kirkwood, T.D. Williamson, United Kingdom

"Existing Pipeline Materials and the Transition to Hydrogen"
Neil Gallon, ROSEN, United Kingdom

"Pipeline Systems for the Hydrogen Era"
Andrew Stevenson, Sustainable Pipeline Systems, United Kingdom

**Session Chair: Steffen Paeper, Consultant, Netherlands**

09:00-10:15 (Track 3)

**Session 3.2 Offshore Technologies**

"Opportunities to Access the Benefits of High-Frequency Welded (HFW) Pipes for a Wider Scope of Oil and Gas Industry Applications"
Timur Tadjiev, Wood, United Kingdom

"Innovations in Pipeline Pre-commissioning"
Peter Dixon, Baker Hughes, United Kingdom

"Laser Welding of Large-Diameter Pipes"
Anton Gizatullin, Chelpipe Group, Russian Federation

11:15-12:30 Networking Break

12:30-14:00 Networking Break

**Session Chair: Mike Kirkwood, Director Pipeline Integrity Engineering, T.D. Williamson, United Arab Emirates**

11:15-12:30 (Track 1)

**Session 1.3 Integrity Management**

"ILI Benchmarking – Ensuring an Adequate Understanding of ILI Capability Under Real-World Operating Conditions"
Aidan Charlton, Persson (Asset Integrity / THEA), United Kingdom

"Data Analytics for Tracking the Deterioration of Pipelines"
Michael Smith, ROSEN, United Kingdom

Matthew Capewell, ROSEN, United Kingdom

"Evaluation of dents in a highly pressure cycled pipeline system"
Deepak Agarwal, Indian Oil Corporation, India

**Session Chair: Danny Molynieux, Technical Advisor, Quest Integrity, United Kingdom**

11:15-12:30 (Track 2)

**Session 2.3 Hydrogen**

"Considerations on Hydrogen for an ongoing Gas Pipeline project"
York Schorling, ILI Beratende Ingenieure GmbH, Germany

"Technical assessment of gas transmission pipelines made of steel for the use as hydrogen transmission pipelines"
Henning Brüggemann, Dr.-Ing. Veenker Ingenieurgesellschaft mbH, Germany

"Natural gas and hydrogen blends transportation: challenges and development of centrifugal compressors"
alessandro carnevali, Baker Hughes, Italy

**Session Chair: Steffen Paeper, Consultant, Netherlands**

11:15-12:30 (Track 3)

**Session 3.3 Offshore Technologies**

"Improving the Efficiency and Accuracy of Rigid Riser Fatigue Analysis"
Owen Pocock, XSIGHT by Saipem, United Kingdom

"Design and Qualifications for The Highest Temperature Subsea Heat-Traced Pipeline"
Frederico Orberg, ITP inTerPipe, France

"Artificial Intelligence in the Design of Offshore Lifelines against Geohazards"
Prodromos Psarropoulos, National Technical University of Athens, Greece

11:15-12:30 (Track 4)

**Session 4.3 Leak Detection**

"Large-scale pipeline environmental testing for Hydrocarbon Leak detection using WrapSense"
Rodrigo Rueda, TWI, United Kingdom

Steve Edmondson, DirectC, Canada

"Operational performance validation results for a satellite-based ROW monitoring solution"
Alexander Blau, Orbital Eye, Netherlands

"A vibroacoustic integrated technology for the detection of a wide spectrum of illegal activities"
Marco Marino, SolAres, Italy

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WEDNESDAY, 17 MARCH 2021 (ALL TIMES BERLIN TIME ZONE, CET)

Session Chair: Thomas Wolf, CEO, NDT Global, Germany

14:00-15:15 (Track 1)
Session 1.4 Integrity Management

"Exceeding performance standards of pipeline inspection and integrity with complex and challenging defects" 
Geoffrey Hurt, Baker Hughes, United Kingdom

"Fitness For Purpose assessment based on Finite Element Assessment using Ultrasonic ILI Data" 
Henrik Witte, NDT Global, Germany

"Pipeline Hard Spots: How Hard is Hard?" 
Jeremy Faissat, TRAPIL, France

14:00-15:15 (Track 2)
Session 2.4 Hydrogen

"Hydrogen network readiness" 
Victoria Monsma, DNW, Netherlands

"NovalLT12 Hydrogen fuel capabilities" 
Marco Tarenzi, Smans, Italy

"Hydrogen Transport Pipelines - Design Challenges and Mitigations" 
Luc Lam-Thanh, TOTAL S.A., France

14:00-15:15 (Track 3)
Session 3.4 Trenchless Technologies

"Trenchless installation of small diameter pressure pipelines over longer distances" 
Marc Peters, Herrenknecht AG, Germany

"Renovation of 455 m DN 450 brine transmission main in Fos-sur-Mer, France" 
Andreas Gross, Rädlinger Primus Line, Germany

"Trenchless pipeline installations in European key projects" 
Michael Lubberger, Herrenknecht AG, Germany

14:00-15:15 (Track 4)
Session 4.4 Leak Detection

"Retrofitting Existing Pipelines for Fiber Optic Monitoring" 
Steven Koles, HiFi Engineering, Canada

"A Robust Qualification of Fiber-Sensing for Leak Detection, based on Hyper-Scan Technology" 
Eran Inbar, Prisma Photonic, Israel

15:15-15:45 Networking Break

Session Chair: Richard Campbell, Vice Chair, Young Pipeline Professionals Europe, United Kingdom

15:45-17:30 (Track 1)
Session 1.5 Integrity Management

"Pipeline Integrity Management: NonMetallic Technology Perspective" 
Royden De Souza, Saudi Aramco, Saudi Arabia

"Energy Efficiency Benchmarking Procedure as a Resource Saving Tool" 
Sergey Kutukov, Transneft R&D Institute, Russian Federation

"A Proactive Approach to Class Location Management for Gas Pipelines" 
Helen Tambolim, NTS - Nova Transportadora do Sudeste, Brazil

15:45-17:30 (Track 2)
Session 2.5 External Inspection

"Case of External Corrosion and HVAC interference risk evaluation using a pipeline software based PIAS and Direct Assessment" 
Saumitra Shankar Gupta, Indian Oil Corporation Ltd., India

"Advanced Eddy Current Array Tools for Stress Corrosion Cracking Direct Assessment on Pipelines" 
Mathieu Bouchard, Eddyfi Technologies, Canada

"Automatic 3D-Localisation Of Buried Pipeline And Depth Of Cover: Magnetic investigation under operational conditions" 
Mohit M. Laichoubi, Skipper NDT, France

"Buried Pipeline Inspection By Non-Contact Magnetic Tomography Method (MTM) - A Non-Intrusive Inspection Technology" 
Choong Meng Lam, PETRONAS, Malaysia

15:45-17:30 (Track 3)
Session 3.5 Planning & Construction

"Digital communication demands for construction safety and network expansion" 
Jens Focke, BIL eG, Germany

"The Gypsum Karst of Sivas - Implications for Routing, Construction and Operation of the Trans Anatolian Natural Gas Pipeline" 
Klaus Rohr, ILF Consulting Engineers Austria GmbH, Austria

"Spec Breaks: Application of Codes for Launchers and Receivers" 
Neil McKnight, T.D. Williamson, United Kingdom

"Stress Analysis of 100 km Pipeline per Day" 
Robert Ofner, ILF Consulting Engineers Austria, Austria

15:45-17:30 (Track 4)
Session 4.5 Leak Detection

"Using simulation to overcome operational challenges caused by the COVID-19 pandemic" 
Glen Tyson, Atmos International, United Kingdom

"Development of a leak detection tool for gas pipelines" 
Rene Landstorfer, GOTTSBERG Leak Detection GmbH & Co. KG, Germany

"Leak Detection Compliance and Health Check" 
Maximilian Ihling, KROHNE Oil&Gas B.V., Germany

"Experience on using Acoustic Leak Imaging (ALI) Technology on Compressor Stations and Pressure Reducing Stations" 
Peter Mantel, Distran Ltd., Switzerland
THURSDAY, 18 MARCH 2021 (ALL TIMES BERLIN TIME ZONE, CET)

09:00-10:30 Plenary Session "World Pipeline Outlook" (Track 1)

Session Chair
Nader A. Al-Otaibi, Engineering Unit Head, Pipelines, Distribution and Terminals, Saudi Aramco, Saudi Arabia

"Recent Changes in the Brazilian Pipeline Industry and Opportunities Going Forward"
Rafael Noac Feldman, Logistics and Operations General Manager, Transpetro, Brazil

"The outlook for global energy markets and the long-term role of natural gas infrastructure”
Dr. Peter Zeniewski, Lead Gas Analyst, IEA – International Energy Agency, France

"Poland's Role as Gas Hub for Eastern Europe"
Slawomir Sieradzki, Director of Gas Market Development Division, GAZ-SYSTEM S.A., Poland

10:30-11:00 Networking Break

11:00-12:30 Panel Discussion "The Energy Mix of Tomorrow: Future Fuels in the Pipeline" (Track 1)

Session Chair
Barbara Jinks, Programme Officer - Green Gas Delivery and Use, IRENA, Germany

Panelist
Steinar Eikaas, Vice President Low Carbon Solutions, Equinor, Norway

Panelist
Luca Maria Rossi, Vice President, Commercial - New Frontiers, Baker Hughes, Italy

Panelist
Peter Adam, Head of Hydrogen Business Development, Siemens Energy, Germany

12:30-13:00 Closing (Track 1)

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

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DEMOGRAPHY

The ptc community - quick facts

- 30+ Exhibitors
- 600+ Delegates
- 80+ Operators sending delegations
- 50+ Countries
- 33% Germany
- 33% Other Europe
- 34% Rest of the World
- 80+ Countries

Origin of the ptc participants
This is a listing of the participating operators attending ptc 2019. It shows the high reputation the ptc conference and exhibition enjoys with pipeline operators from all over the world. In 2019 more than 180 delegates from 80 different pipeline operators took part.
GENERAL INFORMATION

ADDITIONAL MARKETING AND MEDIA COVERAGE

The Pipeline Technology Journal (ptj) features latest developments and innovative solutions for the international pipeline industry. The ptj news service and the technical articles are freely available online to the global pipeline community. Printed copies can be ordered as part of a subscription and are distributed at international pipeline events.

www.pipeline-journal.net

PHOTO CREDITS

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QUICK FACTS

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VENUE
Online

CONFERENCE LANGUAGE
English

ADDITIONAL MARKETING AND MEDIA COVERAGE
Pipeline Technology Journal (ptj)
www.pipeline-journal.net

www.pipeline-conference.com
#ptcBerlin
Pipeline Integrity Framework
A Roadmap to Zero Incidents

join us @
Virtual PTC 2021
March 15-18

www.rosen-group.com
empowered by technology
Uncompromising quality, efficient process:
DENSO is your solution partner for reliable corrosion protection even on the biggest pipeline projects. With comprehensive consulting and a full range of products that set standards worldwide.
denso-group.com

Protection for Eternity.
IT IS MY RESOLUTE MISSION

to overcome the most difficult obstacles, and learn from my victories and defeats. To push forward tirelessly until I succeed.

It is who I am. I am a pipeliner.

We are pipeliners too.

We share this mission and, like you, we are committed to keeping pipelines running safely and reliably. By providing end-to-end integrity solutions — from pre-in-line inspection cleaning to actionable inspection results — TDW helps you maximize the return on investment from your integrity assessments.

The world counts on you. You can count on us.
50+

YEARS OF EXPERIENCE

ILF ranks amongst the top five international pipeline engineering companies, having designed some of the largest and most challenging pipeline systems in the world. Covering all project phases for oil& gas as well as hydrogen pipelines and facilities.
ART Scan™ Pipeline Inspection Solutions

Ultrasonic wall loss measurements for gas and liquid lines

ART Scan is the only high-resolution inline inspection solution on the market that accurately detects and sizes dents, buckles, and out-of-straightness features while simultaneously providing direct wall-thickness measurement in both gas and liquid lines.

The key benefits of ART Scan include:

- Direct wall thickness measurement in gas lines, with sub-millimeter accuracy
- Reduces money spent on unnecessary maintenance
- Wall-thickness mapping, geometry, and inertial measurements are collected single tool
- Detects coating disbondment; detects and sizes corrosion and deformation
- Improves pipeline integrity management by mitigating risk

Visit www.ndt-global.com to learn how ART Scan can improve your pipeline integrity and reduce costs.
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Ultrasonic wall loss measurements for gas and liquid lines

ART Scan™ Pipeline Inspection Solutions

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MAX STREICHER launches full-electrically driven horizontal directional drilling rig (HDD)

- Fully-featured, user-friendly design
- Powerful thrust and spindle drive
- Integrated mud pump and drill pipe handling system
- Low emission, noise emission reduced to a minimum
- Well suited to sensitive ecological and urban areas

Technical data:
- Thrust / Pullback: 800 kN (80 t)
- Spindle torque: 57,000 Nm (max. 70,000 Nm)
- Power rating: 400 kVA
- Drill pipe range: 9.5 m

After a successful test run, the new electrically driven drilling rig is already on duty at a trenchless power cable laying project in Emsland/Germany.
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