EVENT GUIDE
CONFERENCE & EXHIBITION

15th PIPELINE TECHNOLOGY CONFERENCE
30 MAR. - 2 APR. 2020, ESTREL CONGRESS CENTER, BERLIN, GERMANY

EUROPE’S LEADING PIPELINE CONFERENCE AND EXHIBITION

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WELCOME TO THE 15TH PIPELINE TECHNOLOGY CONFERENCE

EUROPE’S LEADING PIPELINE CONFERENCE AND EXHIBITION
• HIGHLY INTERNATIONAL
• CROSS-SECTORAL
• WIDELY SUPPORTED

900+ PARTICIPANTS
100+ SPEAKERS
90+ EXHIBITORS
50+ DIFFERENT NATIONS
DELEGATIONS FROM 80+ DIFFERENT PIPELINE OPERATORS FROM ALL AROUND THE WORLD
From 30 Mar. - 2 Apr. 2020 Europe’s leading conference and exhibition on pipeline systems, the Pipeline Technology Conference, will take place for the 15th time.

On 30 March, a series of ptc side conferences and ptc seminars will take place, followed by the opening of the ptc conference and exhibition on 31 March.

ptc 2020 offers again opportunities for operators as well as technology and service providers to exchange latest onshore and offshore technologies and new developments supporting the energy strategies world-wide. More than 900 delegates and 90 exhibitors are expected to participate in the 15th ptc in Berlin.

The practical nature of ptc was always based on the cooperation with our technical and scientific supporters and on a top-class international advisory committee. The conference will feature lectures and presentations on all aspects surrounding oil, gas, water and product high, medium and low pressure pipeline systems.

Please take a closer look into this Event Guide and get involved now.

We look forward to seeing you in Berlin.

Dennis Fandrich
Pipeline Technology Conference Chairman
ADVISORY COMMITTEE

CHAIRMEN

Heinz Watzka, Senior Advisor, EITEP Institute

Dirk Strack, Senior Advisor, EITEP Institute

MEMBERS

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Dr. Marion Erdelen-Pepppler, Secretary General, EPRG - European Pipeline Research Group

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Maximilian Hofmann, Managing Director, MAX STREICHER

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Cliff Johnson, President, PRCI - Pipeline Research Council International

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Hermann Rosen, President, ROSEN Group

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Roger Vogel, Sales Manager - EURA, Baker Hughes

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Pawan Agarwal, Vice President, HPCL-Mittal Pipelines

Michael W. Cech, Head of Pipeline JVs and Shipping, OMV Refining & Marketing

Tino Falley, Head of Grid Operation, ONTRAS Gastransport

Andreas Haskamp, Pipeline Joint Venture Management, BP Europa SE

Dr. Thomas Hüwener, Managing Director Technical Services, Open Grid Europe

Dirk Jedziny, Vice President - Head of Cluster Ruhr North, Evonik Industries

Dr. Mike Kirkwood, Director - Integrity Engineering, T.D. Williamson

Michael Lubberger, Senior Product Manager Pipeline, BU Utility Tunneling, Herrenknecht

Steffen Paeper, Offshore Engineering, South Stream Transport

Dr. Prodromos Psarropoulos, Structural & Geotechnical Engineer, National Technical University of Athens

Michael Schad, Head of Sales International, DENSO

Ulrich Schneider, Business Development Manager Continental Europe, KTN

Asle Venas, Senior Principal Pipeline Specialist, DNV GL

Paul Waanders, Int. Sales Manager, Maats Pipeline Professionals

Juan Arzuaga, Executive Secretary, IPLOCA

Cindy Dirkx, Chair, Pipeliner Foundation

Jens Focke, CEO, BIL - Federal German Construction Enquiry Portal

Jörg Himmerich, Managing Director / Technical Expert, Dr.-Ing. Veenker Ing.-ges.

Mark David Iden, Chief Executive Officer, SkyData Air&Space

Barbara Jinks, Director Govt. Relations, GIE - Gas Infrastructure Europe

Mike Liepe, Head Business Solution Line O&G Pipelines, Siemens

Martin Mans, Managing Director, LiWACOM

Maximilian Pführ, Head of Projects Oil & Gas, ILF Consulting Engineers

Frank Rathlev, Manager of Network Operations, Thyssengas

Dr. Adrian Schaffranietz, Coordinator Government Relations, Nord Stream 2

Guntram Schnitz, Expert / Pipeline, TÜV SÜD Industrie Service

Bernd Vogel, Head of Network Department, GASCADE Gastransport

Thomas Wolf, CEO, NDT Global
# CONFERENCE PROGRAM

## MONDAY, 30 MARCH 2020

**PTC SEMINARS (7 Seminars)**

- EITEP Reception (for invited advisory committee members, session chairs, speakers, sponsors and exhibitors only)

## TUESDAY, 31 MARCH 2020

**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**

"Safety in Design and Construction of Pipelines"

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**ptc Get-together Party in the Exhibition Hall**

## WEDNESDAY, 1 APRIL 2020

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**ptc Dinner Invitation (separate registration required)**

## THURSDAY, 2 APRIL 2020

**Plenary Session**

"World Pipeline Outlook"

**Panel Discussion**

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

**Closing Remarks**

**PTC WORKSHOPS**

(free access for all delegates)

**PTC ROUND TABLES**

(free access / for pipeline operators only)
TUESDAY, 31 MARCH 2020

08:00-09:00 Registration (Foyer 4)

09:00-09:30 Opening (Hall Europa)

Welcome
Dennis Fandrich, Director Conferences, EITEP Institute, Germany

09:30-10:00 Keynote Speech (Hall Europa)

"Innovative Projects Platform of the European Gas Pipeline Operators - Paving the Way for a Decarbonized European Gas Grid"
Stephan Kamphues, President, ENTSOG (European Network of Transmission System Operators for Gas), Belgium

10:00-12:00 Plenary Session "Eurasian Pipeline Forum - Linking East and West" (Hall Europa)

Session Chair
Heinz Watzka, Senior Advisor, EITEP Institute, Germany

"Transcontinental cooperation within the framework of the International Association of Oil Transporters"
Jaroslav Kocian, Chairman of the Board, CEO, JSC „MERO ČR“, Czech Republic

"Austria - A natural gas hub linking East and West"
Stefan Wagenhofer, Managing Director, GAS CONNECT AUSTRIA, Austria

"topic to be announced"
Nicola Battilana, CEO, Hellenic Gas Transmission System Operator (DESFA) SA, Greece

"Developments in the East Med: Opportunities and challenges with pipeline projects"
Elfride Covarrubias Villegas, Business Development Manager, Oil & Gas Mediterranean, DNV GL, Norway

"topic to be announced"
Kristóf Terhes, Chief Executive Officer, FGSZ, Hungary

12:00-13:30 Lunch Break in the Exhibition Hall

+ Scientific Advances Poster Session (13:00-13:30)
Wednesday, 01 April 2020

Session Chair: Michael Beller, Head of Global Market Strategy Asset Care, ROSEN Group, Germany

09:00-10:15 (Hall Europa)

Session 1.2 In-line Inspection

“Paradigm Busted - Pin-hole Detection Using UHF Axial MFL and Caliper ILI” Mark Olson, President, ENTEGRA SOLUTIONS, United States

“Combined Sensor Module for Detection of Far and Near Side Metal Loss Defects in Carbon Steel Petroleum Pipelines using Intelligent Pipeline Inspection Gauges” Purushottam Kashinath Nimje, Chief Research Engineer, Indian Oil Corporation Limited, India

“Ill of small diameter offshore pipelines network” Basilio Hostage, Business Development, 3P Services GmbH & Co. KG (Company), Germany; Christopher Sue, Sales & Operations Manager, 3P Services GmbH & Co. KG (Company), Germany

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

Session Chair: Danny Molyneux, Chair, Young Pipeline Professionals Europe, United Kingdom

11:15-12:30 (Hall Europa)

Session 1.3 In-line Inspection

“Pigging Experience And Advanced Technologies Combined for Overcoming A Challenging Pipeline Inspection Project” Claudio Bolognani, Managing Director, TECMA, Italy

“Simulation of the Dynamic Behavior of Inspection Tools in Pipelines at High Pressure Differences” Tobias Kretzberg, Research Team Leader, en2Aix - energy engineering, Aachen GmbH, Germany; Jochen Straumann, Integrity Management, Open Grid Europe GmbH, Germany

“Cost-effective ultrasonic inspection of large diameter pipelines: technology update and case study.” Ries Augustinus, Manager Technology Center, Interco Integrity Services B.V., Netherlands; Jobo Gonzales, Interco Integrity Services B.V., Netherlands

12:30-14:00 Lunch Break in the Exhibition Hall

+ Scientific Advances Poster Session

13:00-14:00

Session Chair: tba

Session Chair: Dr. Axel Scherello, Project Leader CHARMA, Open Grid Europe GmbH, Germany

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Session Chair: Heinrich Kreitzberg, Research Team Leader, en2Aix - energy engineering, Sout Stream GmbH, United Kingdom

“Pipeline integrity assessment and use of software based Leak Detection Systems on existing Cross Country Pipelines” Sorina Werkmeyer, Global Process Automation Technology Leader for MSP (Manning & Pipeline) and Manufacturing 4.0 leader for MSP and Energy, Dow, United States

“Additional functionalities of model based leak detection systems to improve pipeline safety and efficiency” Kai Bunzenberg, Head of Research and Development, Leak Detection Systems, KROHNE, Germany

Session Chair: Jeroen Rozema, Managing Director, LIWACOM, Germany

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Session Chair: Martin Mans, Managing Director, LIWACOM, Germany

11:15-12:30 (Room 2)

Session 2.2 Stress Corrosion Cracking

“Detection of Non-Axial Stress Corrosion Cracking (SCC) using MFL Technology” Mike Kirkwood, Director - Integrity Engineering, T.D. Williamson, United Arab Emirates

“Stress Corrosion Cracking (SCC) Susceptibility Screening Enhancement” Nauman Tehsin, Senior Integrity Engineer, Saudi Arabian Oil Company (Saudi Aramco), Saudi Arabia

“Prediction of the risk of circumferential stress corrosion cracking by analysis of digital twins.” Aidan Chariton, Senior Engineer - Digital Modelling Integrity, Penspen Ltd., United Kingdom

“Additional functionalities of model based leak detection systems to improve pipeline safety and efficiency” Kai Bunzenberg, Head of Research and Development, Leak Detection Systems, KROHNE, Germany

“Pipeline integrity assessment and use of software based Leak Detection Systems on existing Cross Country Pipelines” Sorina Werkmeyer, Global Process Automation Technology Leader for MSP (Manning & Pipeline) and Manufacturing 4.0 leader for MSP and Energy, Dow, United States

“Additional functionalities of model based leak detection systems to improve pipeline safety and efficiency” Kai Bunzenberg, Head of Research and Development, Leak Detection Systems, KROHNE, Germany

11:15-12:30 (Room 3)

Session 2.3 Offshore Technologies

“Flexible Flowline Subsea Connection Conversion System” Giuseppe Rizzo, Technical Solutions Manager, Oceanering International Services Ltd, United Kingdom

“Motion Method Selection for Improved Accuracy of Time-Domain Analysis for Subsea Installation” Hayley Welsh, Senior Pipeline Design & Analysis Engineer, PDI Ltd., United Kingdom

“Risk Based Acoustic Inspection Plan for Offshore Pipelines” Erme Spiels, Director, IREM Systems, Netherlands

“A new method based on Bayesian Theory and “N-1” Principles to calculate the reliability of natural gas pipelines” Bo Xu, Senior Supervisor, PetroChina Pipeline Company, China

11:15-12:30 (Room 4)

Session 3.2 Leak Detection

“Machine Learning Approach to Distributed Acoustic Sensors (DAS) for Securing Pipelines in Urban Areas” Emre Salihngöz, Machine Learning Engineer, ASEN, Turkey

“100km pipeline monitoring: record length for intrusian and leakage detection” Eran Inbar, CEO, Prisma Photonics, Israel

“An Increasing Concern - Third Party Interference Damage On Buried Pipelines. An European Case Study” Fernando de la Fuente yVelasco, CEO, OVERPIPE, France

“Adapting oil & gas pipeline projects to climate change” Andreas Antonou, Geotechnical Engineer, National Technical University of Athens, Greece

“Emission quantification and structural reduction” Cindy Verhoeven, Technical Sales Manager, The Snifters, Netherlands

“Enhancing Energy Efficiency and Reducing Greenhouse Gas Emissions through Innovation and Renewables Integration” Emontenasisu, Pressure Vessels & Heat Exch. Lead Engineer, Baker Hughes, Italy

“Repairing Defects on Pipelines” Michael Hurst, Pipeline Engineer, OMV, Austria

“Why apply EN-13480 to Split Tee for Hot Tapping and Isolation?” David Stardeur, Senior Product Manager - Hot Tapping & Plugging, T.D. Williamson, Belgium

“Experience and best practices in the field of inspection and repair of trunk pipelines crossings at water obstacles.” Alexander Ivanov, Director General, Transneft Ural, Russia

11:15-12:30 (Room 5)

Session 3.3 Third Party Interference

“Adapting oil & gas pipeline projects to climate change” Andreas Antonou, Geotechnical Engineer, National Technical University of Athens, Greece

“Emission quantification and structural reduction” Cindy Verhoeven, Technical Sales Manager, The Snifters, Netherlands

“Enhancing Energy Efficiency and Reducing Greenhouse Gas Emissions through Innovation and Renewables Integration” Emontenasisu, Pressure Vessels & Heat Exch. Lead Engineer, Baker Hughes, Italy

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11:15-12:30 (Room 6)

Session 4.2 European Diving Request Procedures

“Digital communication supports construction safety and energy turnaround” Eva Bene, Business Development, BL, Germany

“The French Way: Ensuring digital communication and damage prevention through private initiatives catalysing the nationwide call before you dig regulation implementation and improvement” Damien Schmitz, Chief Marketing & Sales Officer, Sogelink, France

“To Towards a National Underground Asset Register” Carsten Roensdorf, Strategic Product Manager, NUAR Delivery Partner, Ordinance Survey, United Kingdom

“Digital Piping Failures” Ali Assi, Technical Manager, Amanant Qatar Pipes Co, Qatar

“Use of Low Voltage Conductivity to Conduct a 1km Inspection of Legacy Cured-In-Place Pipe (CIPP) for a Leak Assessment Project” Chuck Hansen, Chairman and Chief Executive Officer, Electro Scan Inc., United States

“System Reliability improved through Directional Drilling in Fast Track Force Main Replacement” Kishen Prathivadi, Acting General Manager, Sever Authority Mid-Coastside, United States; Timothy Monahan, Project Manager, SRT Consultants, United States

“Geo Augmented Visualization for improving safe operations of natural gas pipeline networks” Yorgos Gajjar, Officer, GSPL India

“Zero Harm As An Achievable Target - How To Build A Journey To-wards Zero For People, Significant Impacts On The Environment And The Community” Julia Costa, Health and Safety Coordinator, Nova Transportadora do Sul-este SA - NTS, Brazil

“Surge protection for in-sulting joints – suitable spark gaps and evaluation of the installation” Manfred Kienlein, Global Account Manager, DEHN SE + Co. KG, Germany

11:15-12:30 (Room 7)

Session 5.2 Pipes and Sewers

“Repairing Defects on Pipelines” Michael Hurst, Pipeline Engineer, OMV, Austria

“Why apply EN-13480 to Split Tee for Hot Tapping and Isolation?” David Stardeur, Senior Product Manager - Hot Tapping & Plugging, T.D. Williamson, Belgium

“Experience and best practices in the field of inspection and repair of trunk pipelines crossings at water obstacles.” Alexander Ivanov, Director General, Transneft Ural, Russia

“Challenges in the hydraulic simulation of slurry transporta- tion through pipelines” Fabian Proch, Senior Discipline Engineer Consulting / Technical Calculations, MMEC Mannesmann, Germany

“A new method based on Bayesian Theory and “N-1” Principles to calculate the reliability of natural gas pipelines” Bo Xu, Senior Supervi- sor, PetroChina Pipeline Company, China

“Pipe renovation of pressure pipelines, re-connection techniques and case studies” Furimna Pires Barbosa, Sales Director Interna- tional, RELINEUROPE / RElINEAPTEC, Germany

11:15-12:30 (Room 8)

Session 6.3 Planning and Design

“Challenges in the hydraulic simulation of slurry transporta- tion through pipelines” Fabian Proch, Senior Discipline Engineer Consulting / Technical Calculations, MMEC Mannesmann, Germany

“A new method based on Bayesian Theory and “N-1” Principles to calculate the reliability of natural gas pipelines” Bo Xu, Senior Supervi- sor, PetroChina Pipeline Company, China

“Pipe renovation of pressure pipelines, re-connection techniques and case studies” Furimna Pires Barbosa, Sales Director Interna- tional, RELINEUROPE / RElINEAPTEC, Germany

11:15-12:30 (Room 9)

Session Chair: Dirk Strack, Senior Advisor, EITPE Institute, Germany

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"Mind the Gap!" Pipeline Integrity Framework Roy van Elteren, Head of Integrity Solutions, ROSEN, Nether- lands; Jochen Spalink, Head of Business Line, ROSEN, Netherlands

"Moving boundaries of crack detection inspec- tion services – from amplitude-based depth estimation to absolute depth sizing – The Next Generation of Crack Inspection" Thomas Hennig, Technology Advisor, NDT Global, Germany, Syria

Manager Integrity Reliability, Enbridge Liquid Pipelines, Canada

"Pigging for Purpose; Selecting Pigs for Your Pipeline Needs" Alan Morton, Director, Product Development, TD Williamson, United States

"Pipeline Operations. Project Development, Morton, Director, Pipeline Specialist, DNV GL, Norway

"Multidisciplinary land-use optimization for pipeline corridor, South Pars Gas Complex, Iran, Islamic Republic of" Ilya Ryakhovskikh, Session Chair, Ilya Ryakhovskikh, Management System for IAOT, Czech Republic

"Organizing & Operating Extraordinary Pipeline: The Longest And The Most Challenging Subsea Pipeline in Indonesia" Deila Agung Sopriyadi, Head of District, PT PERTAMINA GAS, Indonesia

"North Sea Winter-Shall Dea Case Study" Christoph Seebier, Project Leader Data Analysis UM, NDT Global, Germany, Holger Hintenmann, General Manager Upstream Fac- tilities, Wintershall Dea, Germany

"Lesson learned on 20 years of challenges to internal corrosion protection of subsea pipeline- Corrosion inhibi- tor or pH stabilization?" Reza Ghorbani, Head of corrosion, South Pars Gas Complex, Iran, Islamic Republic of

"Advancements in leak and theft detection technologies." Harry Smith, Sales and Re- search Engineer, Atmos International, United Kingdom

"ILI Inspection Tech- nique Aided to Illegal Tap Detection" Rodrigo Antunes, Engineering Manager, PIPEWAY EN- GENHARIA LTDA, Brazil

"The Integrated Solution of Distributed Acoustic Sensing, Fibre Optic Technology, and unmanned Aerial Vehicles (UAVs) for a Rapid Response to Protect Pipelines." Stuart Large, Product Line Director & Business Development, Fotech Solution, United Kingdom

"Friction Stir Welding of Steel for Pipeline Fabri- cation" Grzegorz Togó- czyński, Principal Welding and Materials Engineer, Subsea 7, France

"Quantitative Pipeline Risk Assessment and CE (Opis- rat) For Fire And Gas Explosion Analysis Of A Subsea Pipeline Using Consequence Modelling" Shahil Abdulrah Oth- man, National Oil Company (PETRONAS), Malaysia

"Simulating the re- sponse of offshore gas pipelines subjected to submarine landslides under static and seismic conditions" Yannis Tsonapanakis, Assoc Professor, Technical Uni- versity of Crete, Greece

"Pipelines of "The Belt and Road Initiative" Bing Liu, Director of stan- dardization Department, PetroChina Pipeline R&D Center, China

"Advanced Corrosion Growth Modeling In Pipelines For Repair Optimization" Nader Al-Otaibi, Supervisor, Integrity Management Unit, Saudi Arabian Oil Company (Saudi Aramco), Saudi Arabia

"Probabilistic Pipeline Integrity Assessment of Corrosion Using In-Line Inspection Data" Andrew Doyle, Senior Engineer, ROSEN, United Kingdom

"Case Study: Severe External Corrosion on Aboveground Un-Scrippable Pipeline under Culvert." Qurban Ali, Senior Engineer, Saudi Arabian Oil Company (Saudi Aramco), Saudi Arabia

"Control Room Management (CRM)" Rafael Feldman, General Manager of Logistics and Control Integrated, Petrobras Transporte SA, Brazil

"Standardization Coordi- nation Strategies and Practices for Oil and Gas Pipelines. "The Belt and Road Initiative"" Bing Liu, Director of stan- dardization Department, PetroChina Pipeline R&D Center, China

"The Impact of Geo- hazards on the Trans Anatolian Natural Gas Pipeline Project - TANAP - Klaus Robl, TANAP Lead Geologist, IFL Consulting Engineers, Austria

"Risk Assessment Of Pipelines Exposed To Geo hazards" Jens F. Tronstad, CTO, DNV GL, Singapore

"Real-time remote monitoring and risk management of oil & gas facilities subjected to natural hazards" Prodomos Psarropoulos, Senior Teaching and Research Associate, National Technical University of Athens, Greece

"The Impact of Geo- hazards on the Trans Anatolian Natural Gas Pipeline Project - TANAP - Klaus Robl, TANAP Lead Geologist, IFL Consulting Engineers, Austria

"Risk Assessment Of Pipelines Exposed To Geo hazards" Jens F. Tronstad, CTO, DNV GL, Singapore

"Over-Voltage Protec- tion" Dr. Yaqoob Ahmad, Head of Business & Engineer- ing, DENSO, Germany

"Evaluation of cleanli- ness, roughness and test method standards in relation to coating quality" Dinko Cudic, Senior Technical Advis- or, Monti Werkzeug GmbH, Germany

"Layer Heat Shrink Technology with "Oil State" epoxy Installa- tion" Marco Navarro, Product Development Manager, SEALFORLIFE INDUSTRIES, United States

"Comparison And Linking Between Ldpm And Fm Model For Fracturing In Concrete" Gily Lifshtiz Sherzer, Postdoctoral Fellow, University of Toronto, Canada; Dr Yones Fadakar Alghandah, Se- nior Research Scientist, University of Toronto, Canada

"A Novel Chemical Method For Surface Preparation Of 3LPE Before Applying Liquid Epoxy As A Field-joint- Coating" Moham- mad Yousuf Azimi, PhD Applicant, University of British Columbia, Canada

"Pipeline Shore crossing approaches in Arctic conditions" I. Kurbonsohva, Gradu- ate, Gubkin University, Russian Federation

"Prediction of Leak Mass Rate in High-Pressure Gas Pipeline" Fang Yuan, Ph.D. student, Depart- ment of Mechanical Engineering, National University of Singapore, Singapore

"The Longest Pipeline: The Longest Pipeline Pipeline: The Longest Pipeline Pipeline" Herkko Plit, Pipeline Specialist, DNV GL, Germany

"Multidisciplinary land- slide assessment – a systematic and practicable approach for pipeline projects" Christoph Prugger, Department for Engineering Geology and Hydrogeology, IFL Consulting Engineers Austria GmbH, Austria

"Concretion As A Mitigation Activity For Deformed Lines In Sub- fluvial Crossings" Julian Francisco Gamba Go- mez, mechanical stress analyst, Petrostecning, Colombia

"Over-Voltage Protec- tion on Pipelines" Jay Warner, Manager, International Business Development, Daelymph Electrical Industries, United States

"Over-Voltage Protec- tion on Pipelines" Jay Warner, Manager, International Business Development, Daelymph Electrical Industries, United States

"Past, Present and Future of Corrosion / Coating" Moham- mad Yousuf Azimi, PhD Applicant, University of British Columbia, Canada

"Case Study: Severe External Corrosion on Aboveground Un-Scrippable Pipeline under Culvert." Qurban Ali, Senior Engineer, Saudi Arabian Oil Company (Saudi Aramco), Saudi Arabia

"Probabilistic Pipeline Integrity Assessment of Corrosion Using In-Line Inspection Data" Andrew Doyle, Senior Engineer, ROSEN, United Kingdom

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"Control Room Management (CRM)" Rafael Feldman, General Manager of Logistics and Control Integrated, Petrobras Transporte SA, Brazil

"Standardization Coordi- nation Strategies and Practices for Oil and Gas Pipelines. "The Belt and Road Initiative"" Bing Liu, Director of stan- dardization Department, PetroChina Pipeline R&D Center, China

15:15-15:45 Corrosion / Coating
09:00-10:30 Plenary Session “World Pipeline Outlook” (Hall Europa)

Session Chair
Dennis Fandrich, Director Conferences, EITEP Institute, Germany

“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

“Recent Changes in the Brazilian Pipeline Industry and Opportunities Going Forward”
André Chiarini, CEO Advisor, Logistics, Petrobras, Brazil

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

“The Trans Adriatic Pipeline: A challenging pipeline project ranging from 2,100 meters above sea level to 810 meters beneath the sea”
John Haynes, Project Director, Trans Adriatic Pipeline AG, Switzerland

10:30-11:00 Coffee Break in the Exhibition Hall

11:00-12:30 Panel Discussion “The Energy Mix of Tomorrow: Future Fuels in the Pipeline” (Hall Europa)

Session Chair
Ms. Barbara Jinks, Director Govt Relations, Gas Infrastructure Europe (GIE), Belgium

Panelist
Peter Adam, Head of Hydrogen Business Development, Siemens O&G, Germany

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

Panelist
Dr. Dina Lanzi, Head of Technical Hydrogen, Snam, Italy

Panelist
Dr. Alexandra Loukou, Project Manager, DVGW Research Centre at Engler-Bunte-Institute (EBI), Karlsruhe Institute of Technology (KIT), Germany

Panelist
Luca Maria Rossi, Vice President Technology Turbomachinery & Process Solutions, Baker Hughes, Italy

12:30-12:50 Closing (Hall Europa)

Award Ceremony ptc Photo Contest “What is it like to work in the pipeline industry”
Dennis Fandrich, Director Conferences, EITEP Institute, Germany

Closing Remarks
Heinz Watzka, Senior Advisor, EITEP Institute, Germany

12:50-13:30 Closing Lunch Break in the Exhibition Hall

from 14:00 Workshops / Round Tables
CONFERENCE TOPICS
(ONSHORE AND OFFSHORE, ALL PRESSURE LEVELS)

1. 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

2. 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

3. 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

4. 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.
Interested speakers are invited to submit an abstract (max. 300 words) describing the main ideas of their paper together with the presenter’s CV (max. 200 words).

- Abstracts should not focus on company presentation but on technical/managerial classifications, R&D, new technologies or recent case studies.
- Your abstract should avoid the use of a language that is commercial in tone.
- Joint presentations between pipeline operators and technology providers are welcome.
- If you have already presented this abstract in the past, you can still submit it, but you must indicate when and where it was presented in the past.
- All abstracts will be reviewed in the ptc Advisory Committee.
- Confirmed speakers are requested to provide a multi-page paper for publication in the conference proceedings.

Each speaker gets a presentation time of 20 minutes. Papers will be published via the official ptc smartphone app and distributed to the conference attendees. All papers will also be published in our ptc Pipeline Open Knowledge Base.

All speakers are requested to register for a regular conference ticket (confirmed speakers from pipeline operators attend free-of-charge, poster session presenters benefit from a reduced entrance fee).

Technical papers of authors who do not attend the conference to present their papers may not be included in the online database and future conferences.

Conference language: English.

DEADLINES

- DEADLINE FOR ABSTRACT SUBMISSION: 30 SEPTEMBER 2019
- NOTIFICATION OF ABSTRACT ACCEPTANCE: 15 NOVEMBER 2019
- FINAL CONFERENCE PAPER DUE: 15 JANUARY 2020
STAND BOOKING

What are the options?

STAND BASICS
Every stand booking includes basic equipment and various services.

For only 600 EUR you get:
• 1 conference ticket
• 2 exhibition tickets (upgrade to conference tickets: 1,200 EUR)
• 3.5 kW power supply, 1 table, 2 chairs, walls
• Logo, link, profile in the final event guide and on the ptc website
• Valid with booking of at least 12 sqm exhibition space (350 EUR / sqm)

EXHIBITOR DISCOUNTS
As exhibitor, you get discounts on many ptc services:
• Exclusive access to ptc Exhibition day tickets (Day tickets only available to exhibitors and their customers)
• 10 % discount on additional conference tickets for yourself or your customers
• 10 % discount on advertisements in the Pipeline Technology Journal
• Possibility to publish news in the Pipeline Technology Newsletter
• More discounts available to sponsors

STAND UPGRADES
Sometimes, basic equipment does not suffice. For these cases we have something for you:

• Advertisements in the printed event guide
• Advertisements on our 21 sqm screen within the exhibition hall
• Placing an exhibit outside your stand
• Holding a workshop after the ptc

• Offering a highlight at the get-together party near your stand
• Stand equipment and prepared packages from our partner LÜCO
• Of course, we are open for your ideas.

BOOK YOUR STAND NOW
For details on the pricing and to book your stand, visit: www.pipeline-conference.com/stand-booking

Special service for ptc exhibitors:
Book a meeting room for free!

Do business on the ptc and hold meetings outside the show floor with attendees, partners, executives and staff. We offer private meeting rooms right next to the Lounge. Time slots are available on a first-come, first-served basis.

SIGN UP NOW!
For registration as exhibitor, visit www.pipeline-conference.com/stand-booking

Questions? Please contact Mr. Marian Ritter, +49 511 90992-15
FLOOR PLAN

Booking process:
Choose your preferred stand(s) and we will allocate you there if still possible. First come, first serve.

Available stands:
12 sqm:
A23, A24, A25, A26
B9, B23, B24
C18, C21
D15
18 sqm
A15
C19, C20
24 sqm
A27

EXHIBITION PROGRAM
All coffee and lunch breaks will take place within the exhibition hall. The lounge is always open as are the meeting rooms.

Tuesday, 31 March:
08:00 – 19:30
17:30 - 19:30: get-together Party

Wednesday, 1 April:
09:00 – 17:30

Thursday, 2 April:
09:00 – 14:00

EITEP LOUNGE SERVICES

Media Lounge
Free Coffee Supply
Meeting Rooms

State as of 20 February 2019
SPONSORSHIP OPPORTUNITIES

Increase worldwide awareness for your organization’s products and services and be recognized as a key supporter of ptc. No matter the size of your company, you will find a sponsorship level to fit your budget.

<table>
<thead>
<tr>
<th>DIAMOND SPONSOR</th>
<th>PLATINUM SPONSOR</th>
<th>GOLDEN SPONSOR</th>
<th>SILVER SPONSOR</th>
</tr>
</thead>
</table>

The four main sponsorship levels (Diamond, Platinum, Gold and Silver) are available to promote your brand and showcase even before the conference begins in Berlin.

Exclusive benefits of the main sponsorship levels:
- From the day of the booking: You will be included in all future ptc marketing and publicity activities with your company name and logo displayed in prominent position including both online and offline multi-media communication (brochures, advertisements, websites, banners, proceedings, signage in the exhibition area and in all conference rooms, etc.).
- Up to 12 free conference tickets for you and your business partners.
- Exhibition booth in your preferred location within the exhibition hall.

MORE SPONSORSHIP OPPORTUNITIES TO REACH NEW BUSINESS

- Catering Stands at the Get-together Party
- Dinner Invitation
- Conference App
- Exhibition Hall Video Screen
- Lanyards
- Conference Coffee Breaks / Lunch Breaks
- Student Conference Scholarship Program
- Photo Contest “What is it like to work in the pipeline industry?”
- Individual Packages on Request

For a complete list of sponsoring opportunities, please contact:
Mr. Admir Celovic, Tel +49 511 90992-20, E-mail: ptc@eitep.de
SOCIAL PROGRAM

GET-TOGETHER PARTY
TUESDAY, 31 MARCH
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. At ptc 2020, for the first time, there will be a rich selection of different food and beverage stations on various exhibition stands. All participants are invited to take part in the traditional get-together raffle.

PARTICIPANTS
All conference and exhibition participants.

Dress code: Business casual

SPONSORSHIP AVAILABLE

DINNER INVITATION
WEDNESDAY, 1 APRIL
TRABRENNBAHN MARIENDORF
(HARNESS RACING TRACK)

BACKGROUND
This year conference participants are invited to visit the Trabrennbahn Mariendorf, one of the most successful harness racing tracks in Germany, hosting more than 650 races a year. And it is also one of the most beautiful sites with imposing chestnut trees surrounding 32 stables on the 24 hectare site. A particular treat for the eyes is the Art Nouveau grandstand that fortunately survived the war. The location boasts not only high-quality drinks and meals but a horse race at night will highlight the evening for the participating pipeliners. After the horses are presented, the pipeliners can also bet on their favorites. The dinner and race will make Europe’s leading pipeline conference and exhibition one long remembered.

PARTICIPANTS
Additional registration required (limited to 300 persons, first come first serve):
Conference delegates: + 50 Euro
Exhibition participants: + 100 Euro
Spouses / partners are invited to take part at the same price.

Dress code: Smart casual

SPONSORSHIP AVAILABLE
In-Line Inspection of Pipelines

Lecturer: Dr. Michael Beller
Estrel, Berlin

The course provides a broad overview of tools commercially available today for the inspection of traditional and challenging pipelines in the onshore and offshore sector. Inspection procedures and reporting will be introduced, with a focus on typical content of Final Reports and the further use of inspection data. The following topics will be covered: • Defects in Pipelines • Pipeline Inspection • Non-Destructive Testing Technologies • Pipeline Inspection Tools • Pipeline Inspection Procedures and Reporting

Pipeline Defect Assessment

Lecturer: Dr. Phil Hopkins
Estrel, Berlin

Oil and gas transmission pipelines can contain defects such as cracks, gouges, dents, and corrosion. These defects can be assessed using ‘fitness for purpose’ methods. This assessment allows pipeline operators to demonstrate their pipelines are safe to operate without the need to repair many of these defects. The following topics will be covered: • Oil and Gas, and Pipelines • Pipeline Design and Key Parameters • Why Pipelines Fail • Fracture Mechanics and Fatigue • Corrosion Assessment Methods • Assessing Mechanical Damage • Crack Assessment

Risk Assessment and Management of Pipeline Projects subjected to Geohazards

Lecturers: Dr. Andreas Antoniou, Dr. Prodromos Psarropoulos
Estrel, Berlin

The course will provide an introduction into the subject and importance of Natural Hazards during the stages of evaluation, design, construction and operation of a pipeline. Delegates will learn about the need for qualitative and quantitative Assessment of the Risk associated with various Natural Hazards (such as Flooding, Landslides and Earthquakes) in relation to the route selection and the pipeline integrity.
PTC SEMINARS
MONDAY, 30 MARCH 2020, 09:00-17:00, ESTREL, BERLIN

Pipeline Life-cycle Extension Strategies

Lecturer: Heinz Watzka
Estrel, Berlin

The 1-day seminar gives detailed information about well-approved strategies for a failure-free and economic operation and maintenance of high-pressure oil, gas and water pipeline systems. The course director shares his experience from managing oil and gas pipeline operators in Germany/Europe. Main focus topics will be: • The pipeline life-cycle • Pipeline integrity management systems • Leak detection • In-line inspection • Repair works • Stations & Components • Pipeline safety • latest developments for oil & gas systems triggered due to the Energy Turnaround in Germany

Pipeline Corrosion Awareness

Lecturer: Dr. Roger King
Estrel, Berlin

The course is intended to provide an overview of internal and external corrosion and failure of pipelines by cracking mechanisms. Delegates will be introduced to the different internal and external corrosion mechanisms and the methods of deciding which corrosion mechanism is most relevant to inline and spot inspection findings. The following topics will be covered: • Corrosion Statistics for Pipelines • Internal Corrosion Mechanisms • External Corrosion Mechanisms • Corrosion Risk Assessment • Corrosion Control • Questions and Answers

REGISTRATION INFORMATION

• Each 1-days seminar 800 Euro + VAT only (reduced price for ptc delegates)
• Incl. seminar documentation, catering, certificate
• Registration Deadline: 28 February 2020
• Visit www.pipeline-conference.com/seminars for details and registration
Illegal Tapping / Theft from Pipelines

Lecturer: Olugbenga Adebayo
Estrel, Berlin

The seminar will provide an overview of the growing challenge of Illegal Tapping / Theft from Pipelines. This global menace has seen an explosive growth in the last 10 years across Latin America, Africa, Europe, Russia and Asia. The illegal tapping phenomenon has created a major concern for operators, industry, environmentalist, governments and other stakeholders around the world.

Difficult to Inspect Pipelines

Lecturer: Dr. Konrad Reber
Estrel, Berlin

The 1-day seminar provides an introduction into the internal and external inspection of onshore/offshore pipelines and risers. Riser - Designs will as well as methods of inspection via various range of operational and preparational tool. The following topics will be covered: • Onshore and Offshore Pipelines • Riser – Design and the Need for Inspection • Flowlines and unpiggable subsea pipelines • Other tubular structures • Inspection Technology • Operation of inspection tools • Preparation • Inspection Solutions

REGISTRATION INFORMATION

• Each 1-days seminar 800 Euro + VAT only (reduced price for ptc delegates)
• Incl. seminar documentation, catering, certificate
• Registration Deadline: 28 February 2020
• Visit www.pipeline-conference.com/seminars for details and registration
DEMOGRAPHY

The ptc community - quick facts

80+ Operators sending delegations

50+ Countries

33% Germany

33% Other Europe

34% Rest of the World

90+ Exhibitors

900+ Delegates

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.
MARKETING FRAMEWORK
Promoting sponsors and exhibitors

PTC MARKET PENETRATION
Take advantage of the international reach and appeal of ptc with a multi-faceted marketing program designed specifically to benefit the sponsors and exhibitors appearing at ptc 2020.

PRE-EVENT MARKETING
- Adverts in Media Partner Journals
- ptc Website
- Pipeline Technology Journal (ptj)
- ptc + ptj Newsletter
- Press Releases
- Social Media Activities
- Brochures
- Direct Mailings
- Promotion at Networking Events

MARKETING AT THE EVENT
- Banner and Screens within the Venue
- Brochure in Conference Bag
- ptc Smartphone App
- Social Media Activities
- Networking Events
- Conference Breaks within Exhibition Area

POST-EVENT MARKETING
- Press Releases
- ptc + ptj Newsletter
- Final Report
- Social Media Activities
- ptc Website
- Pipeline Technology Journal (ptj)

30K
Verified Addresses

19
Media Partners

19
Supporting Associations

42
Advisory Committee Members

>3K
Followers on social networks
WORLD-WIDE COVERAGE
The Pipeline Technology Conference website

240K Page Views within 12 months
66K Unique Visitors within 12 months
2:27 Minutes average time a visitor spends on the website
184 Countries web visitors are coming from all over the world

(High Traffic on the ptc website means a higher brand awareness for our sponsors and exhibitors. The ptc website provides frequently updated quality content and we are continuously working on driving relevant traffic.)
Additional marketing and media coverage

Reach out to 30,000 Pipeline Professionals

ptj eJournal  ptj newsletter  ptj website

SERVICES FOR YOUR CORPORATE COMMUNICATION

The Pipeline Technology Journal (ptj) offers three different communication channels in order to reach pipeline professionals around the globe. Exhibitors and Sponsors profit from 10 % to 20 % discount on adverts.

- Send your press release, technical article, company news
- Register your company profile in the company directory
- Publish your job opportunities in the ptj job & career market
- Book your advertisement and / or banner

Get in contact with us now: www.pipeline-journal.net or directly: ptj@eitep.de
GENERAL INFORMATION

ACCOMMODATION

ESTRELL BERLIN
Sonnenallee 225
12057 Berlin
Germany
www.estrel.com

Booking
Phone: +49 30 6831 0
hotel@estrel.com
www.pipeline-conference.com/accommodation

A limited contingent of rooms is reserved until 3 Feb. 2020. Please contact the hotel directly and make your own reservation as soon as possible with reference to “ptc 2020”.

Room rates per night (including breakfast and free wi-fi)
Single Room: 149.00 EUR
Double Room: 181.00 EUR

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

ADDITIONAL MARKETING AND MEDIA COVERAGE

The Pipeline Technology Journal (ptj) covers reports about research, industry and practice, presentation of innovative concepts and technologies, special reports about pipeline safety as well as the upcoming event calendar. It will be sent to more than 30,000 international decision makers and experts of the pipeline industry. Hard copies will be handed out at international pipeline events.

www.pipeline-journal.net

PHOTO CREDITS

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Sander van Rootveldt / TurkStream
Pieter de Boer / A. Hak
Wolfgang Scholvien / visitBerlin
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EXHIBITION MANAGEMENT
Marian Ritter
+49 511 90992-15, ptc@eitep.de

VENUE
ESTREL BERLIN • Convention Center
Sonnenallee 225 • 12057 Berlin • Germany • www.estrel.com

CONFERENCE LANGUAGE
English

STUDENTS AND YOUNG PROFESSIONALS AT PTC
Student Jobs @ ptc
ptc Mentorship Program

ADDITIONAL MARKETING AND MEDIA COVERAGE
Pipeline Technology Journal (ptj)
www.pipeline-journal.net
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 2012 the EITEP Institute organizes the ptc on its own and moved the event to Berlin in 2014. The 15th ptc will again be a record breaking event.

OPERATORS
INCREASING SHARE

Over the last years the number of delegations from different pipeline operators increased steadily. At the last ptc delegations from 80 different national and international pipelines operators came to Berlin.

TRULY INTERNATIONAL

64% 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 33% of the delegates coming from Germany. In 2019 delegates from 54 different countries attended the 14th 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.
## Participation Registration

### Online Registration is now open and available at:

[www.pipeline-conference.com/registration](http://www.pipeline-conference.com/registration)

### Full Event Ticket

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTC Conference + PTC Exhibition + PTC Seminar</td>
<td>1,800 EUR</td>
</tr>
<tr>
<td>PTC Conference + PTC Exhibition + PTC Side Event</td>
<td>1,600 EUR</td>
</tr>
<tr>
<td>+ Dinner Invitation (Optional)</td>
<td>(+ 50 EUR)</td>
</tr>
</tbody>
</table>

Included Services: entrance to conference and exhibition, entrance to one seminar or side event of your choice, full access to the conference proceedings containing all abstracts and papers, lunch, beverages, snacks, ticket for get-together party on Tuesday

### Conference Ticket

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTC Conference + PTC Exhibition</td>
<td>1,200 EUR</td>
</tr>
<tr>
<td>PTC Conference + PTC Exhibition (Full-Time Students)</td>
<td>80 EUR</td>
</tr>
<tr>
<td>+ Dinner Invitation (Optional)</td>
<td>(+ 50 EUR)</td>
</tr>
</tbody>
</table>

Included Services: entrance to conference and exhibition, full access to the conference proceedings containing all abstracts and papers, lunch, beverages, snacks, ticket for get-together

### Exhibition Ticket

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTC Exhibition</td>
<td>250 EUR</td>
</tr>
<tr>
<td>+ Dinner Invitation (Optional)</td>
<td>(+ 100 EUR)</td>
</tr>
</tbody>
</table>

Included Services: entrance to the exhibition, lunch, beverages, snacks, ticket for get-together

### Seminars and Side Events

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTC Seminar</td>
<td>800 EUR</td>
</tr>
<tr>
<td>PTC Side Event</td>
<td>600 EUR</td>
</tr>
</tbody>
</table>

All prices excluding German VAT. Group discounts on request.

Terms and Conditions: see [www.pipeline-conference.com/registration](http://www.pipeline-conference.com/registration)
Full production cycle of drag-reducing agents for crude oil and petroleum products transportation:
from the active polymer component synthesis to the marketable products preparing

PT FLYDE drag-reducing agents

- for crude oil
- for crude oil, gas condensate, petroleum products
- for crude oil, gas condensate, petroleum products

Increasing trunk and oilfield pipelines throughput and operation lifetime, increasing energy efficiency of crude oil and petroleum products pipeline transportation

- High drag reduction performance
- Innovative technology of complete production cycle
- One-stage polymer production
- In-house catalyst production
- Advanced equipment
- High level of process automation
- Modern laboratory facilities
- Multi-stage finished product quality management system

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Email: info@snz.transneft.ru
We make an informed decision and prompt execution

Fathom™ is a technology company that provides Industrial IoT and Ai solutions services.

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SEALING THE FUTURE

Committed to never compromising on quality, and always pushing the boundaries to bring you new and innovative technologies for the corrosion challenges of tomorrow.

We are Seal For Life, the only solution provider who can offer you the ultimate innovative corrosion prevention technologies, and advise on the most appropriate solution, without bias. Versatile and unique, always.

Please visit us at stand number B15

sealforlife.com
YOUR TRUSTED ADVISOR
ILF ranks amongst the top international pipeline engineering companies, supporting you with project management, consulting, and engineering services. Covering all project phases for oil&gas as well as hydrogen pipelines and facilities.
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With horizontal directional drilling technology from Herrenknecht, pipelines can be installed rapidly, economically and with little to no impact on the environment underneath rivers and other obstacles. Each year Herrenknecht HDD Rigs install over 200 km of new pipelines.

herrenknecht.com/hdd/

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THE FULL PIPE JOINT ADVANCED NDT SOLUTION

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Specialists in detecting and locating pipeline thefts

Pipeline theft valued at over $37.23bn annually*
Atmos international detects 40 thefts per month on average

Visit us at stand A19 to learn more about our pipeline theft detection solutions

* www.blavoscope.com

atmosi.com
WISE CHOICE

Talk about vision. Our fleet of Ultra-High-Resolution (UHR) MFL/Caliper combo tools delivers 4x the resolution.

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E-Mail: info.cps@tib-chemicals.com

www.tib-chemicals.com