

Pipeline Technology Conference 2012

28-30 March 2012
Hannover Congress Centrum, Hannover, Germany

Conference Program

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SAFETY OF PIPELINE SYSTEMS AT THE HEART OF THE 7TH PIPELINE TECHNOLOGY CONFERENCE

Europe's leading conference for new pipeline technologies will be held in Hannover for the 7th time in 2012.

During the years, we talked about a wide range of outstanding projects and many innovations, new technologies and developments. The steadily increasing number of participants from non-European countries shows that European know-how, technological excellence and well-proven technical standards are demanded more and more – in particular in the context of decades of trouble-free pipeline operation and life-cycle extension strategies.

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. This year, the Advisory Committee has been further strengthened and is now co-chaired by Mr. Heinz Watzka from Open Grid Europe.

This 7th ptc will again boast top-class speakers from the oil and gas sectors, who will be reporting on the latest key projects and developments in the industry and will be introducing new technologies. Please take a closer look at the following pages and get involved now.

For more information please visit www.pipeline-conference.com where you could also find all abstracts of this year's conference.



Dr. Klaus Ritter
Pipeline Technology Conference Chairman
President of EITEP

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Manager Pipelines, Saudi Aramco



Prof. Thomas Wegener, Member
of the Board, IRO



Dr. Manfred Veenker, Shareholder,
Dr.-Ing. Veenker Ingenieures-
ellschaft

TIME SCHEDULE

| Wednesday, 28 March 2012 (exhibition timing 09:00-19:00) | |
|---|--|
| 09:00-10:00 | Registration and Coffee Break within the Exhibition |
| 10:00-10:30 | Opening and Keynote Speech <small>with simultaneous translation from English into German</small> |
| 10:30-12:00 | Plenary Session "European Pipeline Market" <small>with simultaneous translation from English into German</small> |
| 12:00-13:30 | Lunch Break within the Exhibition |
| 13:30-15:00 | Plenary Session "Technical Challenges / Projects" <small>with simultaneous translation from English into German</small> |
| 15:00-15:30 | Coffee Break within the Exhibition |
| 15:30-17:00 | Plenary Session "Special Issues" <small>with simultaneous translation from English into German</small> |
| from 17:00 | Get-together Party within the Exhibition |

| Thursday, 29 March 2012 (exhibition timing 10:00-16:15) | | | |
|--|---|-------------------------------------|---|
| 10:00-13:00 | Session 1 "Planning and Construction" | Session 2 "Inline Inspection" | Session 3 "Operational Improvements" |
| 13:00-14:30 | Lunch Break within the Exhibition | | |
| 14:30-17:30 | Session 4 "Rehabilitation / Pumping and Compressor Stations" | Session 5 "Integrity Management" | Session 6 "Monitoring" |
| from 19:00 | Dinner Invitation "Yukon Bay at Hannover Zoo" | | |

| Friday, 30 March 2012 (no exhibition) | | | |
|--|---|--|---|
| 10:00-13:00 | Session 7 "Materials and Components" | Session 8 "Emergency Response / 3rd Party Impact" | Siemens-Workshop "De-risking Solutions for Pipelines" |
| 13:00-14:00 | Closing Lunch Break | | |

| | |
|-------------|---|
| 14:00-17:30 | Post-conference workshop on "Pipeline Leak Detection". Please contact exhibitor KROHNE or visit www.pipeline-conference.com/workshops for details. |
|-------------|---|

CONFERENCE PROGRAM - WEDNESDAY, 28 MARCH 2012

(all abstracts available online)

| | |
|-------------|--|
| | OPENING AND PLENARY SESSION (Niedersachsenhalle B) |
| 10:00-10:30 | <ul style="list-style-type: none"> Welcome by Dr. Klaus Ritter, President, Euro Institute for Information and Technology Transfer Keynote Speech by Heinz Watzka, Managing Director Technical Services, Open Grid Europe |
| | PLENARY SESSION "EUROPEAN PIPELINE MARKET" (Niedersachsenhalle B) Session Chair: Heinz Watzka, Managing Director Technical Services, Open Grid Europe, Germany |
| 10:30-12:00 | <ul style="list-style-type: none"> "The Energy Infrastructure Package and its role for renewable energies development", Catharina Sikow-Magny, Deputy Head of Unit "Security of supply and networks", DG Energy, European Commission, Belgium "The Integrated European Gas Market – Present Status and Future Challenges", Adela Comanita, Adviser - System Development, European Network of Transmission System Operators for Gas (ENTSOG) "The German Turnaround – Storing Excess Electricity as Renewable Gas in the Gas Grid", Gert Müller-Syring, Head of Department Gas Grids/Gas Facilities, DBI GUT GmbH, Germany "The German Safety System for Gas Infrastructure", Hiltrud Schülken, Director International Cooperation Gas, DVGW - German Technical and Scientific Association for Gas and Water, Germany |
| 12:00-13:30 | Lunch Break within the Exhibition |
| | PLENARY SESSION "TECHNICAL CHALLENGES / PROJECTS" (Niedersachsenhalle B) Session Chair: Tobias Walk, Director for Instrumentation, Automation and Telecom/IT-Systems, ILF Consulting Engineers GmbH, Germany |
| 13:30-15:00 | <ul style="list-style-type: none"> "Technological Pipeline's Challenges - An Operator's view", Marcelo Rennó, Natural Gas Director, Transpetro (Petrobras Transporte), Brazil "Case Study - Constructing a Gas Pipeline to The Dead Sea 'The Deepest Point on Earth' ", Haim Mosckovich, Head of Construction Dept., ISRAEL NATURAL GAS LINES (INGL), Israel "Secure Gas Supply for Europe – Nord Stream launched and operational", Dr. Werner Rott, Deputy Project Director Engineering, Nord Stream, Switzerland "Nord Stream onshore pipeline projects OPAL and NEL. Extraordinary constructions for river crossings by HDD or Microtunnel", Stefan Scholz, Engineering Manager OPAL and NEL, GASCADE Gastransport GmbH, Germany |
| 15:00-15:30 | Coffee Break within the Exhibition |
| | PLENARY SESSION "SPECIAL ISSUES" (Niedersachsenhalle B) Session Chair: Dirk Strack, Manager Technical Assets, TAL - Deutsche Transalpine Oelleitung, Germany |
| 15:30-17:00 | <ul style="list-style-type: none"> "Charting The Way Ahead for International Collaboration on Pipeline Research and Development", Cliff Johnson, President, Pipeline Research Council International (PRCI), USA "Emergency Planning and Counter Measures", Dirk Strack, Manager Technical Assets, TAL - Deutsche Transalpine Oelleitung, Germany "CO₂ Pipeline Transport From Germany to Algeria", David Haumann, Project Manager, EnBW Energie Baden-Württemberg AG, Germany "New Pipeline Projects and the Role of Public Perception", Dr. Babette Fahlbruch, Coordinator in the field of Human Factors / Human-Technology-Organization TÜV Nord, Germany |
| from 17:00 | Get-together Party within the Exhibition |

CONFERENCE PROGRAM - THURSDAY, 29 MARCH 2012

(all abstracts available online)

| TIME | SESSION 1 (Blauer Saal) PLANNING AND CONSTRUCTION Session Chair: Maximilian Hofmann, Managing Director, MAX STREICHER | SESSION 2 (Bonatz Saal) INLINE INSPECTION Session Chair: Dr. Jens Erfurth, Central Technical Services / Gas Technology & Safety Open Grid Europe GmbH, Germany | SESSION 3 (Roter Saal) OPERATIONAL IMPROVEMENTS Session Chair: Dr. Horstgünter Schulz, Pipeline Consulting, Germany |
|-------------|--|--|--|
| 10:00-11:15 | A Major Step for a Pipeline: Crossing the Serra do Mar State Park in Brazil Philipp Elsner , Babendererde Engineers GmbH, Germany | Ultrasonic Measurement Techniques in Gas Pipeline Inspection - A Case Study Dr. Jens Erfurth , Open Grid Europe GmbH, Germany | Value Engineering Approach to increase Cost Efficiency Tobias Walk , ILF Consulting Engineers GmbH, Germany |
| | The Calculation of The Thrust Force for Pipeline Installation Using The Direct Pipe Method Dr. Henk Kruse , Deltares, Netherlands | Corrosion Growth Analysis - Case Study of MFL-UT Combined inspection Johannes Palmer , ROSEN Technology & Research Center GmbH, Germany | How microsilver can be a long-term protection against microbial corrosion Sven Donhuysen , Sterilos PLC, Switzerland |
| | Efficient Crossing of Traffic Routes and Waterways Using The Dynamic Ramming Technique Gerhard Völkel, Jo Eising , TRACTO-TECHNIK GmbH & Co. KG, Germany | High Resolution Ultrasonic In-Line Inspection: Special Configurations And The Added Value They Offer Stefan Rieth-Hoerst , NDT Systems & Services AG, Germany | Pipeline Drag Reduction Technology and Impact to Refining and Quality Ray Johnston , ConocoPhillips Company, USA Morgan Brown , ConocoPhillips Specialty Products, Inc., Belgium |
| 11:15-11:45 | Coffee Break within the Exhibition | | |
| 11:45-13:00 | Soil Friction Modeling in HDDs under Operational Conditions - New Insights in Existing Theories Frigco Kwaaitaal , Tebodin Netherlands B.V., Netherlands | A Pipeline Inspection Case Study: Design improvements on a New Generation UT In-line Inspection Crack Tool Mark J. Slaughter , Weatherford Pipeline & Specialty Services, United Kingdom | Operational Transparency, Business Excellence and KPI Management Sanjeev Sinha , Siemens, Germany |
| | Transfer of Welding Technologies from Offshore to Onshore Pipeline Construction Applications Julien Blondeel , Serimax, France | The Role of Effective Collaboration in the Advancement of EMAT Inline Inspection Technology for Pipeline Integrity Management: A Case Study Stephan Tappert , GE Oil & Gas - PII Pipeline Solutions, Germany | Evaluation of Revegetation Progress and Erosion-Prone Areas along Oil and Gas Pipelines in Azerbaijan Emil Bayramov , BP Azerbaijan, Azerbaijan |
| | Concept of Pipe-laying Ship for The Arctic Shelf of Russia Dr. Nikolai Valdmann , Kyrlov Shipbuilding & Research Institute, Russia | Reliable and Cost Effective Leak Detection with an New Generation of Ultrasonic Pigs Wolf Böckler , GOTTSBERG Leak Detection GmbH, Germany | SCADA Revamp: The Opportunity Jochen Frings , ILF Consulting Engineers GmbH, Germany |
| 13:00-14:30 | Lunch Break within the Exhibition | | |

CONFERENCE PROGRAM - THURSDAY, 29 MARCH 2012

(all abstracts available online)

| TIME | SESSION 4 (Blauer Saal) REHABILITATION / PUMPING AND COMPRESSOR STATIONS Session Chair: Dr. Horstgünter Schulz, Pipe- line Consulting, Germany | SESSION 5 (Bonatz Saal) INTEGRITY MANAGEMENT Session Chair: Markus Ruhe, Thyssengas GmbH, Germany | SESSION 6 (Roter Saal) MONITORING Session Chair: Jochen Frings, Senior Project Engineer Automation, Control, SCADA and Telecommunication, ILF Consulting Engineers, Germany |
|-------------|--|--|--|
| 14:30-15:45 | Approach to assessing Pipeline Displace- ments Dr. Ulrich Marewski , Open Grid Europe GmbH, Germany | UT ILI feature assessment of challenging datasets Dr. Thomas Hennig , ROSEN Technology & Research Center GmbH, Germany | Pipeline Integrity Monitoring in Russia using Distributed Fiber Optical Sensor Dr. Aleksey Turbin , OMEGA Company, Russia |
| | New Permanent Rehabilitation Solution for Liquid and Gas Pipelines Rolf Roßmann , T.D. Williamson GmbH, Ger- many | Implementation Strategy to Use In-Line-In- spection Data In Companies IT-Environment Jens Focke , GEOMAGIC GmbH, Germany | What can leak detection systems really achieve? Ralf Tetzner , KROHNE Oil&Gas B.V., Nether- lands |
| | Practical Approach to Transform Aged On- shore Non-Piggable Pipeline into Piggable Pipeline Ahmed Hashem , HOT Engineering & Con- struction Co., Kuwait | A System Based Approach For Achieving Long Term Facility Integrity Wytze Sloterdijk , KEMA Nederland B.V. , Netherlands | realSens Airborne Pipeline Leak Detection Field Plume Mapping Results Adrian Banica , Synodon Inc., Canada |
| 15:45-16:15 | Coffee Break within the Exhibition | | |
| 16:15-17:30 | Energy efficiency improvement in pipeline transportation: focus on waste heat recovery, pumping and compression efficiency and site data management Filippo Cinelli , GE Oil&Gas Italy, Italy | PIMS System Introduction and Integration Markus Ruhe , Thyssengas GmbH, Germany | Use of ECDA Approach in Prioritization of ILI Anomalies Dean Rookes , Corrosion Service Europe Com- pany Ltd, United Kingdom |
| | Multi-Compressor Capacity Optimization Roy Milum , Petrotech, Inc., USA | Pipeline Integrity Management - A Functional and Logical Approach Santanu Sur , Tata Consultancy Services, India | Pipeline Acoustic Monitoring Giancarlo Bernasconi , Politecnico di Milano , Italy |
| | Reliability Centered Maintenance, Pump Sta- tions Olympio De Castro Neto , Petrobras Trans- porte - Transpetro, Brazil | Use of Flexible Data Acquisition on Cleaning Pigs for Offshore Applications Jan van der Graaf , ROSEN Europe B.V., Neth- erlands | MobiZEN: a New Device to Detect Active Corro- sion on Buried Pipelines Dr. Yves Van Ingelgem , Vrije Universiteit Brus- sel, Belgium |
| from 19:00 | Dinner Invitation "Yukon Bay at Hannover Zoo" | | |

CONFERENCE PROGRAM - FRIDAY, 30 MARCH 2012

(all abstracts available online)

| TIME | SESSION 7 (Blauer Saal) MATERIALS AND COMPONENTS Session Chair: Dr. Gerhard Knauf, Head of Div. Mech. Eng., Salzgitter Mannesmann Forschung | SESSION 8 (Bonatz Saal) EMERGENCY RESPONSE / 3RD PARTY IMPACT Session Chair: Jens Focke, Head of Sales & Marketing, GEOMAGIC GmbH, Germany | SIEMENS-WORKSHOP (Roter Saal) "DE-RISKING SOLUTIONS FOR PIPELINES" |
|-------------|---|---|---|
| 10:00-11:15 | High Grade Steel Pipeline for Long Distance Projects at Intermediate Pressure Luca Prandi , eni SpA - Divisione Gas & Power, Italy | Real Time Transient Modeling for Pipeline Safety and Integrity Pablo D. Genta , Saudi Aramco, Saudi Arabia | <p>The following de-risking capabilities where the Main Machinery Automation and Electrical Contractor Concept impact positively the process of project implementation and operations are</p> <ul style="list-style-type: none"> • Risk reduction through synergies. • Substantial project interfaces handling and de-risking. • Comprehensive service portfolio and service concept. • Reduces attrition risks for pipeline equipment and machinery & total cost of ownership. • Maintenance based on "single point of contact – SPOC" for the complete pipeline. |
| | Effect of Pre Corrosion by Galvanostatic Anodic Polarization and Temperature on the Formation Rate of Iron Carbonate Film Winia Farida , Wood Group Integrity Management, Norway | Management and Prevention of Action of Third Parties in the Bands of Pipelines of PETROBRAS TRANSPORTE S.A. in Regional South Guilherme Licodiedoff , Petrobras Transporte - Transpetro, Brazil | |
| | Remote Monitoring and Control (Corrocontrol) Dr. Basil Ali , PSE Engineering GmbH, Germany | Line Break Detection System Analysis is Critical to Safer, More Economic Gas Pipeline Operations Carlos Lorusso , Tyco Flow Control , Argentina | |
| 11:15-11:45 | Coffee Break | | <p>SIEMENS SCADA Demo presentation:</p> <p>Availability (Diagnostics, Multiple Redundancy modes, Disaster Recovery, Split-Mode) • Data Integrity • Performance (Capacity, distributability) • Hierarchical system • Operator Interface, Alarm Management, Trend Facilities, Report Management, User Management, Web Functionality, Point of Control • Engineering • Data Base Features (Management and synchronization of Data Base) • Assets Management • Point of Control playing and test • Disaster Recovery System real tests • Local Point of Control tests</p> |
| 11:45-13:00 | Pressure Surge Attenuation in Pipelines by Means of Self-Energised Valves Sven Kretzschmar-Hagelstein , Mankenberg GmbH, Germany | Emergency Response at a Pipeline Right-of-way at a Southern Brazil Sierra Guilherme Cordeiro , Petrobras Transporte - Transpetro, Brazil | |
| | New Pipeline Coating Systems - Putting an End to Coating Degradation H. Vugteveen , STOPAQ B.V., Netherlands | Impact of Rockfalls on Buried Pipelines Dr. Andreas Antoniou , National Technical University, Greece | |
| | Polyethylene Pipeline Systems - Avoiding the Pitfalls of Fusion Welding Dr. Chris O'Connor , GL Noble Denton, United Kingdom | Designing Pipelines in Areas with Moderate or High Seismic Risk: Geohazard Assessment Beyond EC8 Provisions Dr. Prodromos Psarropoulos , Hellenic Air-Force Academy, Greece | |
| 13:00-14:00 | Closing Lunch Break | | |
| 14:00-17:30 | Post-conference workshop on "Pipeline Leak Detection". Please contact exhibitor KROHNE or visit www.pipeline-conference.com/workshops for details. | | |

GET TOGETHER PARTY WEDNESDAY, 28 MARCH 2012, 17:00

BACKGROUND

On the evening of Conference day 1 the "Pipeline Technology Conference Get-together" takes place directly within the exhibition and catering area. All conference delegates are not only granted free entry but also a complimentary supper and drinks while being entertained by live-music.

PARTICIPANTS

- All registered participants, exhibitors, sponsors of Pipeline Technology Conference 2012

TIME SCHEDULE

- 17:00 Opening of the buffet



DINNER INVITATION "YUKON BAY AT HANNOVER ZOO" THURSDAY, 29 MARCH 2012, 19:00

BACKGROUND

Yukon Bay is one of the major attractions of the beautiful Hannover Adventure Zoo. The old Canada/Alaska-like scenery is home to over 100 animals of 15 different species. It captures the early days of gold, oil and gas rush time in arctic regions. The new conference area of ptc 2012 is within walking distance to Hannover Zoo (www.zoo-hannover.de).



PARTICIPANTS

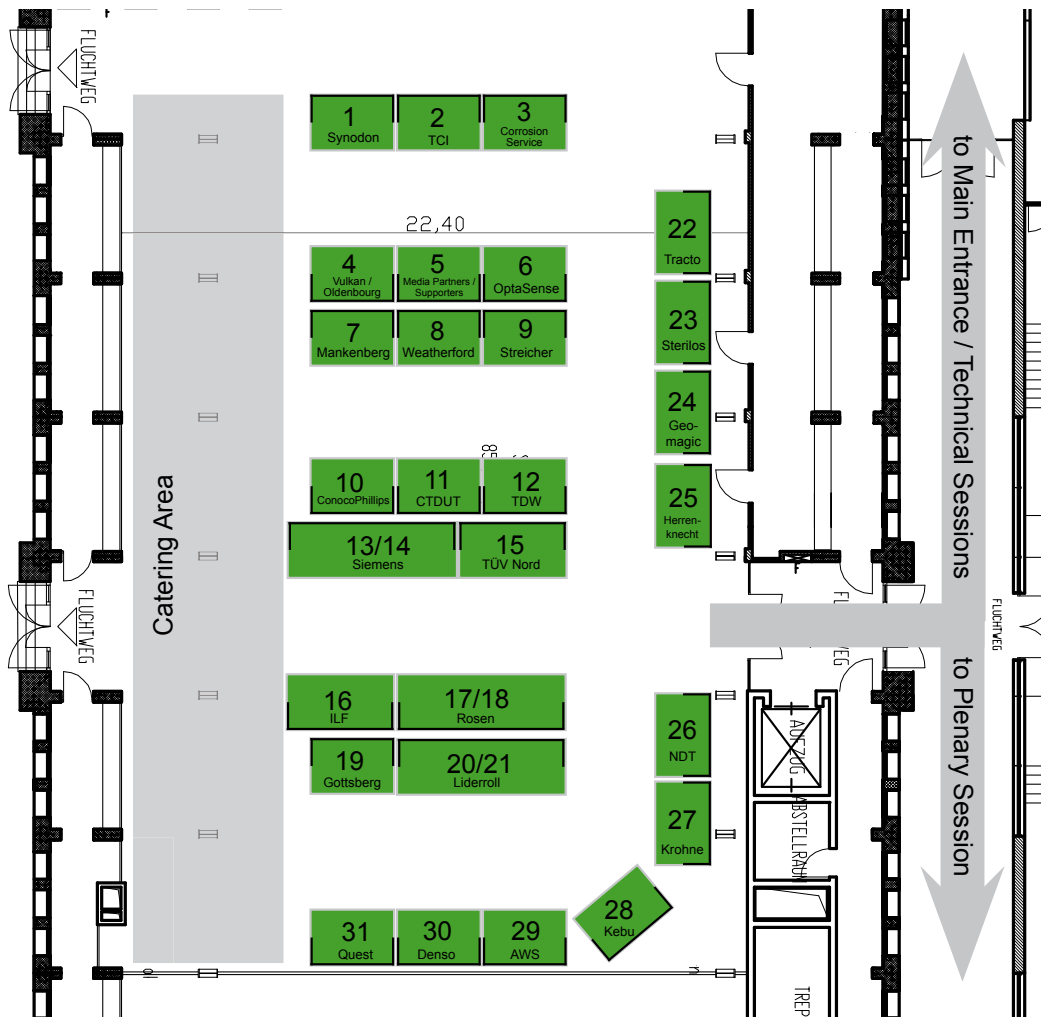
- All registered participants, exhibitors, sponsors of Pipeline Technology Conference 2012
- Invited guests from energy and oil/gas network corporations.
- Invited guests from regional and municipal government.

TIME SCHEDULE

- 19:00 Entrance to the Hannover Zoo (through "Gasthaus Meyer") opens exclusively for ptc participants and invited guests.
- 19:30 Participants gather at "Yukon Bay" area and will experience a live ice bear feeding.
- 20:15 Official opening of the buffet by organizer and main dinner sponsor
- Afterwards: Dinner with supporting program and networking



EXHIBITION LAYOUT (NIEDERSACHSENHALLE A)



| | | |
|--|-------------|-------|
| AWS Schäfer Technologie GmbH | Germany | 29 |
| ConocoPhillips Specialty Products Inc. | Belgium | 10 |
| Corrosion Service Company Europe Ltd | UK | 3 |
| CTDUT - Pipeline Technology Center | Brazil | 11 |
| DENSO GmbH | Germany | 30 |
| GEOMAGIC GmbH | Germany | 24 |
| Gottsborg Leak Detection GmbH & Co. KG | Germany | 19 |
| Herrenknecht AG | Germany | 25 |
| ILF Consulting Engineers | Germany | 16 |
| Krohne Messtechnik GmbH | Germany | 27 |
| Kubulin Gesellschaft Kettler GmbH & Co.KG | Germany | 28 |
| Liderroll Industria | Brazil | 20/21 |
| Mankenberg GmbH | Germany | 7 |
| MAX STREICHER GmbH & Co. KG aA | Germany | 9 |
| NDT Systems & Services AG | Germany | 26 |
| Nord Stream AG | Switzerland | -- |
| Open Grid Europe GmbH | Germany | -- |
| OptaSense | UK | 6 |
| Quest Integrity Group | USA | 31 |
| ROSEN Group | Switzerland | 17/18 |
| Siemens AG | Germany | 13/14 |
| Synodon Inc. | Canada | 1 |
| T.D. Williamson GmbH | Germany | 12 |
| TCI-Environment International N.V. | Belgium | 2 |
| Tractor Technik GmbH & Co.KG | Germany | 22 |
| TÜV NORD Systems | Germany | 15 |
| Vulkan Verlag / Oldenbourg Industrieverlag | Germany | 4 |
| Weatherford Pipeline & Specialty Services | UK | 8 |

PLATINUM SPONSORS



ROSEN is a leading privately owned company serving the oil and gas industry with inspection, integrity, and rehabilitation products and services. For over 30 years, ROSEN has provided the industry with advanced inspection and integrity solutions to ensure safe and economical operation of a wide range of assets and facilities. The ROSEN Group operates in more than 100 countries and employs over 2,000 people. Founded by Hermann Rosen in Germany in 1981, ROSEN has been

headquartered in Switzerland since 2000. In September 2011, ROSEN celebrated its 30th anniversary.

Today, ROSEN not only serves the oil and gas industry but also provides a wide range of sophisticated and innovative products and system solutions to engineering industries such as aerospace, marine, transportation and security. ROSEN also has the expertise and equipment to inspect utility assets such as telecommunication towers, wind turbines, transmission towers, rail wheels and water distribution systems.

Products & Services: Pipeline cleaning and inspection services / Pipeline cleaning tools, accessories and spare parts / Pipeline rehabilitation services / Cleaning of tanks / Plant & terminal inspection (tanks and other structures in refineries, processing plants, tank farms, etc.) / Inspection of utility assets such as telecommunication towers, wind turbines, transmission towers, rail wheels and sea-going vessels / Inspection of fresh water systems / Standard and customized solutions for a wide range of engineering industries (security devices, intelligent plastic solutions, pipe coating) / Integrity management services and software solutions

www.roseninspection.net

SIEMENS

Siemens brings to the industry the biggest portfolio of integrated solutions for Pipelines. Our solutions are available with a wide range of

power ratings, matching stringent needs of oil and gas transmission and

distribution. The portfolio includes Compression and Pumping solutions, Integrated SCADA, Automation, Safety Systems, Instrumentation, Electricals, Energy management, Management Information Systems, MES, Integrated Telecommunications, Security Systems, E-houses, & partial FEED services that ensure a lower total cost of investment, operations at peak efficiency levels, excellent environmental performance, high level of asset management, increased availability, operations de-risking management and key performance indicators management thus translating into unrivalled lifetime value. Brief description of the main products and services: Gas turbines / Compression solutions / Pumping solutions / SCADA, automation and safety-integrated systems / Pipeline-monitoring systems: e.g. batch-tracking, leak-detection, operator-training systems, intelligent alarm-management / Management information system to determine the key performance indicators of the pipeline / Supply chain solutions, such as asset management, planning and scheduling, Performance Management, etc. / Integrated telecommunication systems / Instrumentation / Drive systems (E-Drives / Gas Turbines) / Pipeline security systems, including solutions to protect the pipe / Integrated power solutions / FEED Support / Services: engineering, PM, site services, etc. / Revamps / Life Cycle Management / Water technology.

www.siemens.com

GOLDEN SPONSORS



ILF Consulting Engineers is a 100% independent, fully private owned engineering and consulting company with more than 40 years of experience and ranks among the world's top engineering companies in its core areas of expertise - oil & gas, energy & climate protection, water & environment and transport & structures. ILF provides comprehensive, full-scope services for major industrial

and infrastructure projects and combines world class consulting expertise and a broad international background with project-specific know-how and an in-depth understanding of local requirements due to a stable, long-established presence in its markets.

www.ilf.com



Operating in more than 70 countries and employing more than 10,000 people worldwide, TÜV NORD Group is one of the largest technical service providers in Germany. TÜV NORD experts provide you with support throughout the entire service life of the pipeline, from the routing and planning to the installation and operation through to the modernisation, decommissioning, and dismantling. We ensure a constant high level of quality through regular inspections and check that the system design complies with regulations at the end. Every day and everywhere in the world, examples are to be found: examples of TÜV NORD Group staff taking responsibility for people and the environment.

www.tuev-nord.de

SILVER SPONSORS



Herrenknecht AG located in Germany is a technology and market leader in mechanized tunnelling. As the only company worldwide, Herrenknecht delivers cutting-edge tunnel boring machines for all ground conditions and with all diameters - ranging from 0.10 to 19 meters.

The Herrenknecht product range includes tailor-made machines for traffic and transport tunnels (Traffic Tunnelling) and supply and disposal tunnels (Utility Tunnelling). The company also provides state-of-the-art deep drilling rigs, to bore to a depth of 6,000 meters (Herrenknecht Vertical) as well as a wide range of HDD Equipment.

www.herrenknecht.de



Many years of experience, technical know-how, flexibility and quality characterise the STREICHER Group. The company, with 3,000 employees worldwide, undertakes large-scale projects in different sectors, such as Pipeline & Plant Construction, Mechanical Engineering, Civil & Structural Engineering and Raw & Construction Material.

The pipeline construction sector is an essential core competence – this business sector includes for example pipeline construction, alternative piping

systems, water crossings by open and closed construction methods and is supplemented by services like pressure tests, chemical/mechanical cleaning or drying of pipelines as well as calliper pigging and construction of pigs – a range of services being executed by the subsidiary PSI Pipeline Services International GmbH & Co. KG.

www.streicher.de



NDT Systems & Services

NDT Systems & Services AG with its business unit NDT Services offers global pipeline services: pipeline preparation and cleaning, geometry inspection, mapping, metal loss and crack detection, integrity assessment and fitness-for-purpose analysis. A network of worldwide operating units, professional project management teams, highly trained crews and data analysts ensure high quality services.

www.ndt-global.com



T. D. Williamson, Inc., the world's most recognized name in pipeline equipment and services, delivers safe integrity solutions for onshore and offshore applications. TDW's expertise provides hot tapping & plugging, pipeline cleaning, geometry & MFL inspection, pigging and non-tethered plugging pig technology services for any pressurized pipeline system, anywhere in the world.

www.tdwilliamson.com



Nord Stream

The new gas supply route for Europe

Nord Stream AG is an international joint venture established for the planning, construction and subsequent operation of two offshore gas pipelines through the Baltic Sea. Nord Stream consists of two 1,224 kilometre pipelines, directly linking the European Union to some of the world's largest gas reserves in Russia. In the last quarter of 2011, gas transport will begin. Full transport capacity of 55 billion cubic metres a year will be reached when the second pipeline goes on stream in 2012. This is enough gas to supply more than 26 million European households.

www.nord-stream.com

EXHIBITORS



AWS Schäfer Technologie GmbH, a family owned company, represents the development and manufacturing of innovative machines for pipe-forming and pipe-manufacturing. With more than 50 years of experiences the company supplies high-quality Induction Bending Machines, Hydroforming Machines, Cladding Machines, T-Fitting Machines, Pipe Ends Processing Machines etc.

www.aws-schaefer.de



ConocoPhillips Specialty Products Inc. is the global leader of drag reduction. CSPI specializes in maximizing the flow potential of pipelines, while increasing operational flexibility, throughput capacity and substantially increasing profit potentials. CSPI offers a range of flow improvers for both crude oils and refined products.

www.LiquidPower.com



CORROSION SERVICE

Founded in 1950 Corrosion Service specialises in the provision of cathodic protection systems, equipment and services to the pipeline industry throughout Europe. Our core focus is on providing long term reliable corrosion prevention solutions, which reduce the economic burden of maintaining a pipeline without compromising reliability or safe operation.

www.corrosionservice.com



CTDUT - Pipeline Technology Center is a not-for-profit institution, offering shared real scale facilities for research and testing of equipment to the pipeline industry as well as in the qualification and training of specialized personnel. Our test dedicated loops with PIG launchers and receivers are located in Rio de Janeiro, Brazil.

www.ctdut.org.br



Founded in 1922, we dedicate ourselves since 90 years to the field protection of joints and pipelines. Today's core business: Production of 3-ply corrosion prevention tapes, heat shrinkable sleeves, 2-components polyurethane compounds for pipelines and infrastructures, bitumen profiles and compounds for infrastructures.

www.denso.de



GEOMAGIC is an international IT service provider for utilities. GEOMAGIC combines state-of-the-art IT expertise with knowledge and experience of energy management and is your professional partner for the development and implementation of holistic solutions in operative and strategic asset management. GEOMAGIC contributes its knowledge to projects for pipeline integrity management.

www.geomagic.de



GOTTSSBERG Leak Detection GmbH&Co.KG is a family owned developer and manufacturer of one of the technical leading products in the market of ultrasonic leak detection pigs for pipelines. Its aim is to provide affordable state of technology products that are easy to handle and absolutely reliable in their performance.

www.leak-detection.de



The Kebulin Gesellschaft has manufactured field coating materials for earth and water installed pipeline construction for over 60 years. This wealth of experience and our striving for constant improvement applies both to the continuous optimisation of existing products and also the new development of innovative products (Kebulen shrink technology).

www.kebu.de

KROHNE

KROHNE is a full-service provider for process measuring technology for the measurement of flow, mass flow, level, pressure and temperature as well as analytical tasks. Founded in 1921 and headquartered in Duisburg, Germany, the company employs over 2,600 people all over the world and is present on all continents.

www.krohne.com

LIDERROLL

LIDERROLL Engineering Solutions, LLC.

LIDERROLL, a 100% Brazilian engineering solutions company, develops pipeline projects, manufactures equipment and special supports for large diameter piping, acting as a prime or general contractor for construction and assembly works in the oil and gas industry. LIDERROLL's high performance plastic free-turning or powered drive rollers have been at the core of PETROBRAS top strategically significant enterprises such as the BGL-1 Barge, Pecém LNG Terminal, Ilha Comprida Terminal and Gasduc III Gas Pipeline. Gastau Gas Pipeline Tunnel under the Serra do Mar (Coastal Range) granted LIDERROLL's world class engineering team the 2011 "ASME Global Pipeline Award" for the "Best Innovative Technology for the World's Pipeline Industry".

www.liderroll.com.br

MANKENBERG

Industriearmaturen
Industrial Valves

Mankenberg GmbH is a family-owned German specialist in valve technology that celebrated its 125th anniversary in 2010. The company's product range comprises industrial valves for controlling the pressure, level and flow of liquids, gases and steam, such as pressure reducing valves, venting/bleeding valves, level control valves, steam traps and many more.

www.mankenberg.de

OptaSense[®]

a QinetiQ company

OptaSense provides cost-effective around-the-clock distributed acoustic pipeline monitoring using standard telecoms fibre optic cable. OptaSense can detect activity along an asset and the powerful user interface allows the operator to classify and lo-

cate any threatening events before they come within damaging range of the pipeline. Further algorithms allow for additional condition monitoring such as Pig Tracking and Leak Detection.

www.optasense.com



QUEST
INTEGRITY GROUP
Process - Pipeline - Power

Quest Integrity Group is built on a foundation of leading edge science and technology that has innovated and shaped industries for almost 40 years. Our highly accurate, technology-enabled inspection and assessment solutions help companies in the process, pipeline and power industries increase profitability, reduce operational and safety risks and improve operational planning.

www.questintegrity.com



Sterilos[®]
corrosion solutions

Sterilos, a Swiss company, invented an antimicrobial microsilver additive and a coating, which provides protection especially for these kinds of bacteria without using chemicals every day. German certificates can prove this. The Sterilos coating is incredibly durable, long-lasting and the effect stays for decades.

www.sterilos.com/petrol



SYNODON
sensing the World,
delivering intelligence

Synodon has developed a patented airborne remote gas sensing technology called realSens which, when flown in a helicopter at 300m altitude, generates 2D maps of gas plumes that may exist in its 64m wide view. The company is offering a turn-key survey service targeted primarily to the natural gas production/transmission pipeline sector.

www.synodon.com



TCI
ENVIRONMENT
INTERNATIONAL NV

TCI Environment International NV, who's a member of the CGH Group, is designing and marketing spoolable Re-enforced Thermoplastic Pipes (RTP). Our pipes are applied as flow lines in the Oil and Gas Industry and are suitable for transporting aggressive fluids and gases containing H₂S and CO₂. We have references in Europe whereby our pipes are

used for transporting wet sour gas in Germany, as oil flow lines in Turkey and for rehabilitation of steel pipelines in Romania. Furthermore we have hundreds of LPG installations all over the world.

www.tci-e.com



TRACTO-TECHNIK develops and manufactures pipe ramming machines for trenchless pipe installations. These machines enable the economic installation of open steel pipes as casing or product pipes up to 4000 mm diameter over lengths up to 80 m in soils of the classes 1 - 5 (partly even class 6 - easily soluble rock) without jacking abutments.

www.tracto-technik.com



Weatherford

Weatherford globally offers turnkey pipeline integrity assessment and rehabilitation services including chemical and mechanical cleaning, nitrogen, hydrostatic testing, in-line-inspection by MultiCal 360™, MFL/TFI, UTWM/CD to detect corrosion, metal-loss, manufacturing anomalies and SCC, engineering critical assessments with our new i-View™ software and lastly rehabilitation and repair.

www.weatherford.com/pss

SPECIAL SUPPORTER



Open Grid Europe is Germany's leading gas transmission company. With its ultra-modern, efficient system of approx. 12,000 km of pipeline and comprehensive technical services, Open Grid Europe offers and arranges innovative, forward-looking transportation solutions for natural gas and biomethane.

www.open-grid-europe.com

ACCOMPANYING EXHIBITION

The Pipeline Technology Conference brings together decision makers from all over the world. It is an excellent opportunity for promoting your services and products to the pipeline industry and to develop potential customers.

We provide a limited number of **company presentation packages** for the 2-days ptc 2012 exhibition with an equipped booth and additional marketing measures:

- Fully Equipped Standard Booth within Conference / Catering Area
- 1/4 Page Advertisement within Conference Proceedings
- 3 free-of-charge Conference Registrations
- Logo + Link + Profile on Conference Website
- Logo + Short Profile in Conference Program

All conference participants will have their coffee and lunch breaks directly within the exhibition - this guarantees highly interested and influential potential customers "right in front of your door".

Due to limited exhibition space it is advisable to book at an early stage (first come, first serve).



7TH PIPELINE TECHNOLOGY CONFERENCE 2012

28-29 March 2012 (exhibition), Hannover, Germany

Exhibition Stand Booking Form

Please return form to:

Fax +49 511 90992 69, Email: ptc@eitep.de

Questions? Contact Mr. Dennis Fandrich on +49 511 90992 22

EXHIBITOR

| | |
|---|--|
| Company | |
| Title / First Name / Last Name of Representative | |
| Position | |
| Address | |
| Postcode / City | |
| Country | |
| Phone / Fax | |
| Email | |

We confirm our booking of the company presentation packages plus

- 6 sqm fully-equipped standard booth (5 1-meter walls, 1 table, 2 chairs, power supply) 3,900 € + VAT
- 8 sqm fully-equipped standard booth (6 1-meter walls, 1 table, 2 chairs, power supply) 5,000 € + VAT
- 12 sqm fully-equipped standard booth (8 1-meter walls, 2 table, 4 chairs, power supply) 7,000 € + VAT
- sqm of raw space (min. 24 sqm, price on request)

Due to space limitations in the exhibition hall this offer is subject to availability.

Presentation opportunities are not considered CONFIRMED until payment is received. Fees are payable after receipt of invoice.

Signature

Date

INFORMATION

VENUE

The Pipeline Technology Conference takes place at

HCC - Hannover Congress Centrum
Theodor-Heuss-Platz 1-3
30175 Hannover
Germany

The HCC provides sufficient parking space and is well-connected to highway A 37, Hannover Airport and Hannover Central Station. Name of the closest tram stop is "Hannover Congress Centrum" (Line 11).

For further information: www.pipeline-conference.com/venue

CONFERENCE LANGUAGE

English

ACCOMMODATION

The official ptc Hotel is:

Congress Hotel am Stadtpark
Clausewitzstr. 6
30175 Hannover
Germany

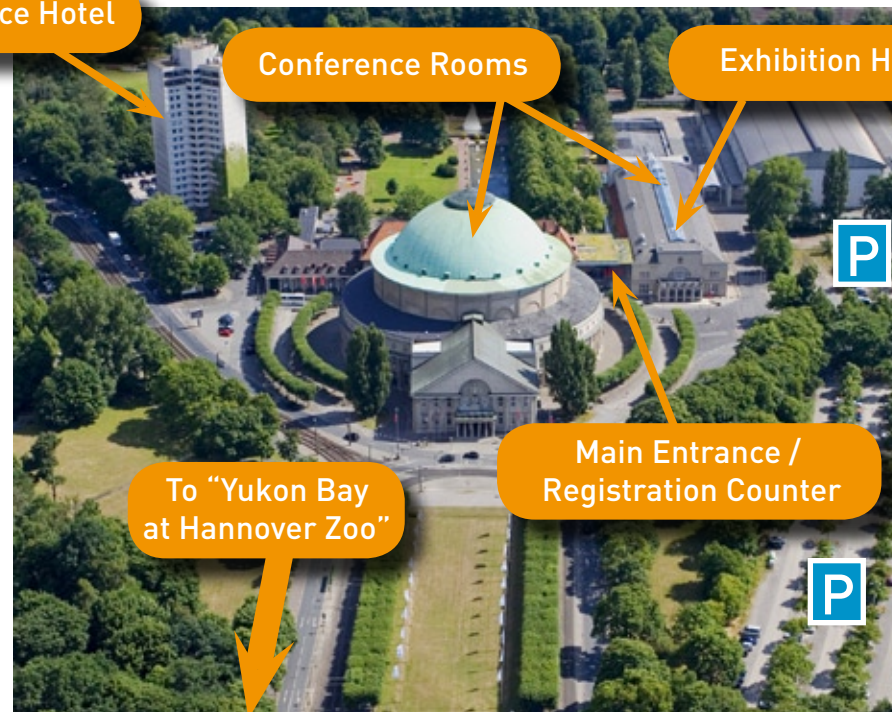
www.congress-hotel-hannover.de
Phone: +49 511 - 2805-0
info@congress-hotel-hannover.de

A limited contingent of rooms is reserved until 29.02.2012. Please contact the hotel directly and make your own reservation as soon as possible with reference to "ptc 2012".

Conference Hotel

Conference Rooms

Exhibition Hall



To "Yukon Bay
at Hannover Zoo"

Main Entrance /
Registration Counter

Room rates per night

| | Single | Double (1 person) | Double (2 persons) |
|---------|------------|----------------------|-----------------------|
| Economy | 88 Euro | --- | --- |
| Classic | 98 Euro | 110 Euro | 128 Euro |
| Suite | on request | on request | on request |

Including breakfast and free wi-fi.

PICTURE CREDITS

Cover: Open Grid Europe, Rosen Group, Nord Stream
Page 8: Hannover Adventure Zoo
Page 16: HCC

7TH PIPELINE TECHNOLOGY CONFERENCE 2012

28-30 March 2012 (conference), Hannover, Germany

Participant Registration Form

Please return form to:

Fax +49 511 90992 69, Email: ptc@eitep.de

or use our online registration www.pipeline-conference.com

Questions? Contact Mr. Dennis Fandrich on +49 511 90992 22

PARTICIPANT

| | |
|--------------------------------|--|
| Company | |
| Title / First Name / Last Name | |
| Position | |
| Address | |
| Postcode / City | |
| Country | |
| Phone /Fax | |
| Email | |

| Category | Registration Fee |
|-----------------------------------|-------------------|
| <input type="checkbox"/> Regular | 520 Euro plus VAT |
| <input type="checkbox"/> Students | 60 Euro plus VAT |

Group packages on request

Participation fee includes:
entrance to conference and exhibition, printed proceedings, lunch, beverages, snacks, invitation for Get-together, invitation for dinner "Yukon Bay at Hannover Zoo"

| | |
|--|--|
| <input type="checkbox"/> yes <input type="checkbox"/> no | I will take part at the Dinner Invitation "Yukon Bay at Hannover Zoo" on 29 March (included in the registration fee) |
|--|--|

Conference Language

English

Venue

Hannover Congress Centrum, Hannover, Germany

Entry Conditions

Payment has to be made before the conference. Registrations can be cancelled (in writing only) at a service charge of 30 Euro up to 6 weeks before the event. In case of later cancellation or failure to attend the entire attendance fee will be payable. The registered delegate may nominate a substitute at no additional cost. The organisers reserve the right to amend the program of events if necessary.

PAYMENT METHOD

By bank transfer after receipt of invoice

Signature

Date

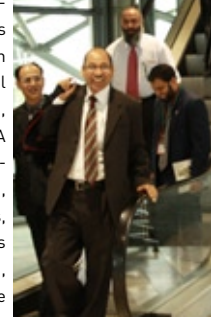
For credit card payment, please use our online registration form at www.pipeline-conference.com/registration

Some ptc participants of the last years



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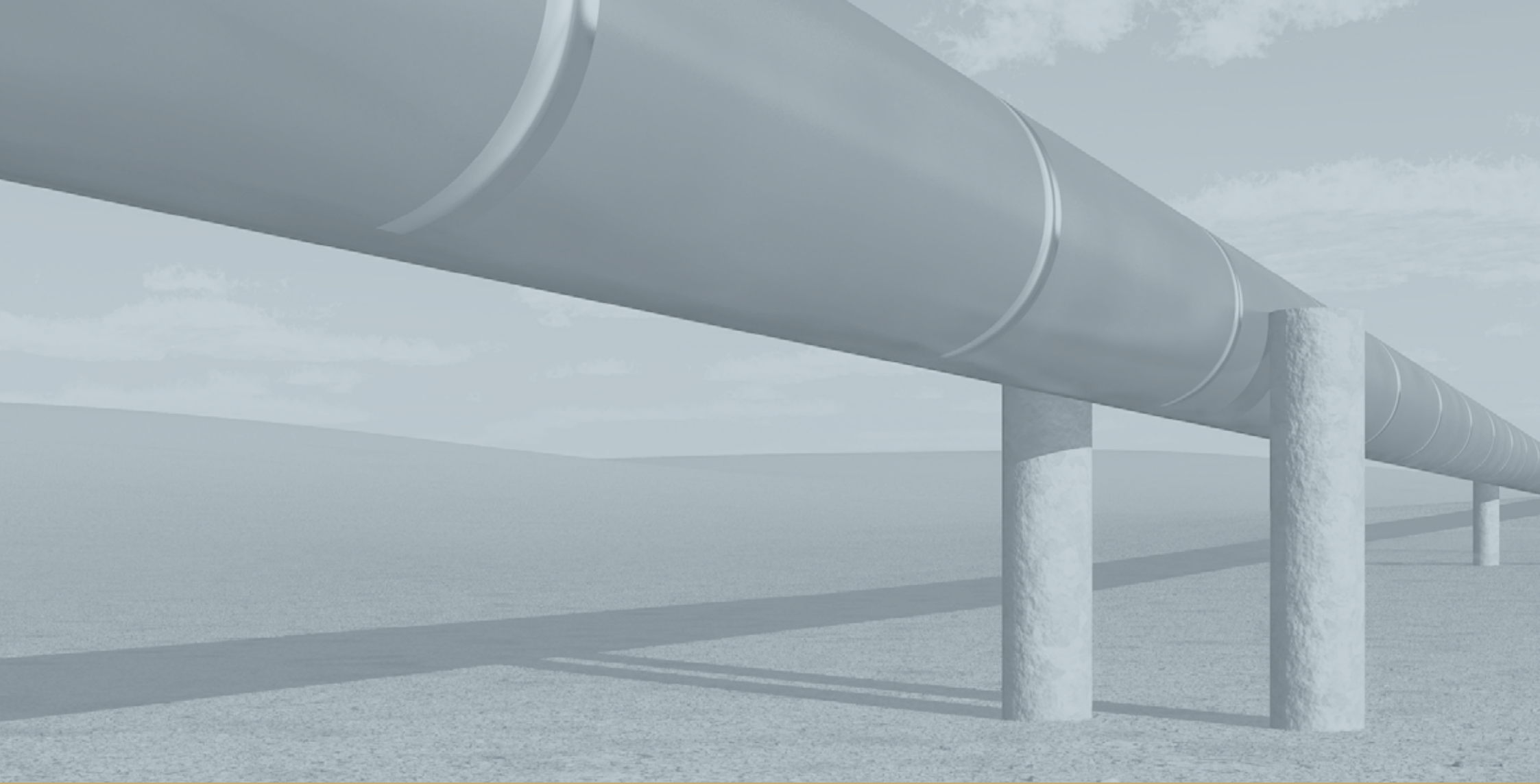
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