

Agenda

Day 1, Tuesday 4th October 2022

- 07:00 - 08:00 Reception and Registration of Participants
- 08:00 - 08:05 SPICONX Video
- 08:05 - 08:15 Day 1 Opening Remarks by Conference Chair
Mr. Mohammed A. Al-Hatlani, General Manager - Pipelines, Saudi Aramco
- 08:15 - 08:25 Speech by the Guest of Honor
Dr. Mohammed Y. Al Qahtani, Senior Vice President – Downstream, Saudi Aramco
- 08:25 - 08:45 Keynote Presentation
Mr. Cliff Johnson, President, Pipeline Research Council International (PRCI)
- 08:45 - 09:05 Keynote Presentation
Dr. Tariq bin Abdullah Al-Naeem, President & CEO, The Water Transmission and Technologies Company (WTTCO)
- 09:05 - 09:10 Strategic Partner Presentation by Arabian Fal
- 09:10 - 10:10 Executive Panel Discussion
- 10:10 - 10:20 Felicitation of Top Tier Sponsors
- 10:20 - 11:40 Inauguration of Exhibition by Guest of Honor and VIPs

Session 1- Green Energy Pipelines (Hall 1)

- 10:20 - 10:40 Keynote Presentation: Hydrogen and it's Role in a Net Zero Future
Mr. Antony Green, Hydrogen Director - Gas Transmission, National Grid
- 10:40 - 11:00 Keynote Presentation: Decarbonization Through Co-Firing of Ammonia with Traditional Hydrocarbons for Power Generation and Mobility
Mr. William Roberts, Professor and Director, King Abdullah University of Science and Technology (KAUST)
- 11:00 - 11:20 What is the Technology Readiness of the Pipeline Industry to Build Economic High Stress High Strength H2 Pipelines
Mr. Colin McKinnon, Technical Director – Specialist Engineering and Consulting, Wood PLC
- 11:20 - 12:00 Exhibition Break
- 12:00 - 13:00 Lunch Break

Session 1- Smart Pipelines for Future (Hall 2)

- 10:20 - 10:40 Keynote Presentation: AI Use-Cases for Asset Failure Prevention
Ms. Monica Florentena Hildinger, Digitalization Manager, Siemens AG, Germany
- 10:40 - 11:00 Keynote Presentation: Qualitative vs Quantitative DAS Measurement
Mr. Adnan Chughtai, Global Alliances Business Development Manager, Schlumberger
- 11:00 - 11:20 Customized Hybrid Neural Networks for Metallic Pipe Inspection: A Big Data Approach
Mr. Guang An Ooi, PhD Candidate, King Abdullah University of Science and Technology (KAUST)
- 11:20 - 12:00 Exhibition Break
- 12:00 - 13:00 Lunch Break

Session 2- Green Energy Pipelines (Hall 1)

- 13:00 - 13:20 Decarbonization Through Hydrogen Fuel
Mr. Ayidh Al-Qahtani, Process Engineer - Hydrogen Systems Engineering Division & Energy Transition Engineering Department, Saudi Aramco
- 13:20 - 13:40 Existing Pipelines and the Hydrogen Revolution
Roland Palmer, Group Business Line Manager – Integrity Services, Rosen Group
- 13:40 - 14:00 Repurposing of Oil Feasible and Gas Pipelines for Hydrogen
Mr. Nigel Curson, Executive Vice President Technical Excellence, Penspen Limited
- 14:00 - 14:20 Ammonia (NH3) Transport Pipeline as H2 Carrier
Mr. Hamza Aljumaiah, Process Improvement and Control Manager, SABIC - AR-RAZI SAUDI METHANOL CO.
- 14:20 - 14:30 Break
- 14:30 - 14:50 Considerations and Challenges When Assessing the Conversion of a Pipeline to Hydrogen Service
Mr. Gary P. Yoho, Principal Consultant, Dynamic Risk Assessment Systems, Inc.
Mr. Kalen Jensen, Sr. Engineer, Hydrogen Projects, ATCO Gas and Pipelines Ltd.
- 14:50 - 15:10 Corrosion Inhibition of a Supercritical CO2 Pipeline: Field Experiences and Lessons Learned
Faleh Aldawsari, Corrosion Engineer, Saudi Aramco
- 15:10 - 15:30 Green Compressor Stations - The Concept
Mr. Stephen Lloyd, Gulf Pipeline Development Consultants
- 15:30 - 16:10 Panel Discussion
- 16:10 - 16:50 Break

16:50 - 17:10

Awards and Rewards (Hall 1)

17:10

End of Day 1

Session 2- Smart Pipelines for Future (Hall 2)

- 13:00 - 13:20 **Keynote Presentation:** Pipelines Transformation in the Digital ERA
James DeSotle, President, Lonestar
- 13:20 - 13:40 UAV Based Radar System for Pipelines Scraper Locating and Tracking
Mr. Saeed AlJabri, Saudi Aramco
- 13:40 - 14:00 Real World Leak Detection via Negative Pressure Wave from a Fiber Optic Based External Sensor
Mr. Euan A. Adams, Regional Director, Middle East & Africa, Optasense
- 14:00 - 14:20 Enhancing the Availability of Oil Network Using Focused Reliability Assessment of Critical Valves
Khalid A Jabr, Saudi Aramco
- 14:20 - 14:30 Break
- 14:30 - 14:50 Digitalization and Artificial Intelligence (AI) to Enhance Inspection Safety of Corrosion Under Insulation
Mr. Ayman Amer, Saudi Aramco
- 14:50 - 15:10 Using AI Vision to Automate Aboveground Leak Detection and Alerting
Mr. Tariq Ahmed, Chief Marketing Officer, Intelliview Technologies Inc
- 15:10 - 15:30 Digital Transformation Necessities for Pipelines Operations
Mohammed Al Yami, Engineering Specialist, Saudi Aramco
- 15:30 - 15:50 An Innovative IR 4.0 Solution Against Leaks Utilizing a Fully Integrated Pipelines Management System
Mr. Abdulkarim F Wathnani, Saudi Aramco
- 15:50 - 16:10 Developed Solution for Continuous Real-Time Monitoring of Ball Valves: Remote Valve Diagnosis system
Mr. Marco Sparisci, Technical Director, DAFRAM SPA
- 16:10 - 16:50 Panel Discussion

Day 2, Wednesday, 5th October 2022

07:00 - 08:00

Reception and Registration of Participants

Session 3 - Planning, Design, Manufacturing, Construction & Project Management (Hall 1)

08:00 - 08:20 **Keynote Presentation:** How ASNT's Strategic Efforts Contribute to the Petro-Chemical and Pipeline Industries
Mr. Danny Keck, President, American Society for Nondestructive Testing (ASNT)

08:20 - 08:40 **Keynote Presentation:** Reinforcement of Pipes Using Uniaxial Drawn Ultra High Molecular Weight Polyethylene
Mr. Sanjay Rastogi, Professor, King Abdullah University of Science and Technology (KAUST)

08:40 - 09:00 Design of top of the Line Corrosion Management Program for Multiphase Sour Gas Subsea Pipelines
Dr. Faisal M. Al-Abbas, Engineering Consultant, Saudi Aramco

09:00 - 09:20 Strain Based Pipeline Design – The Implementation of a Novel Methodology
Mr. Frigco Kwaaitaal, Director of Engineering, JacobsZATE

09:20 - 09:40 Slot Reserved for:
Abdel Hadi Abdullah Al-Qahtani & Sons Co

09:40 - 09:50 **Break**

09:50 - 10:10 Why Rigorous Hydraulic Computer Modeling Should be Mandated to Achieve High Energy Efficiency & Reliable Design/Troubleshooting of Pumping Systems
Mr. Luis Ortiz, Saudi Aramco

10:10 - 10:30 The Production of Diverse Steel Products for the Pipeline Sector
Dr. Haytham Al-Jabr, Lead Scientist – HADEED Research & Technology, SABIC

10:30 - 10:50 High Density Polyethylene: The New Age of Infrastructure
Mr. Mohammed Almubarak, SAPPCO

10:50 - 11:10 Standing Microwave Inspection of Fiber and Glass Reinforced Material Systems
Dr. Alessandro Demma, Director, Omnia Integrity

11:10 - 13:00 Exhibition & Lunch Break

Session 3 - Operations, Inspections, Maintenance & Integrity Management (Hall 2)

08:00 - 08:20 **Keynote Presentation:** ASNT's Role in Achieving Operational Excellence through Inspectors' Development & Certification
Mr. David Bajula - Past Chair & President - American Society for Nondestructive Testing (ASNT)

08:20 - 08:40 **Keynote Presentation:** Pipeline Integrity – A New Dawn
Mr. Trevor MacFarlane, President, NDTGlobal

08:40 - 09:00 Estimation of Flow Rate and Accumulated Released Volume of a Leak in Pipeline Systems
Mr. John D Yurchevich, Principal Hydraulic Engineer, DNV - Oil & Gas

09:00 - 09:20 The Power of CP Modeling for Complex Pipeline Network
Mr. Petrov P. Plamen, Cathodic Protection Engineer, Saudi Aramco

09:20 - 09:40 Framework of Pipeline Integrity Management
Mr. Claudio Daniel Catroppa, General Manager, Bin Quraya Company Limited

09:40 - 09:50 **Break**

09:50 - 10:10 Optimizing Pipeline Repair with Advanced NDT Technologies
Mr. Mohammed A Abufour, Inspection Engineering Consultant, Saudi Aramco

10:10 - 10:30 Can Digitisation Help Develop and Retain Competency
Mr. Nigel Curson, Executive Vice President Technical Excellence, Penspen Limited

10:30 - 10:50 Theoretical Identification of Localized Pitting Corrosion Inside Gas Pipelines
Dr. Zhenjin Zhu, President, ZZ Energy Engineering Ltd

10:50 - 11:10 Pipeline Transportation of Arabian Heavy Crude Oils with Drag Reducers: Modeling and Lab-Scale Application
Dr. Sayeed Rushd, Assistant Professor, King Faisal University (KFU)

11:10 - 11:30 Utilizing Composite Repairs for Repairing Dented Pipelines
Mr. Stuart McKay, Engineering Regional Manager, CSNRI – Saudi Partner of Emkan Holding

11:30 - 13:00 Exhibition & Lunch Break

Session 4 - Planning, Design, Manufacturing, Construction & Project Management (Hall 1)

- 13:00 - 13:20** Keynote Presentation: Pipeline Project Management Execution Strategies
Mr. Imtiyaz Arshad, General Manager, Pipeline Projects, Hindustan Petroleum Corporation Limited (HPCL)
- 13:20 - 13:40** Keynote Presentation: The Future of Pipelines using 3D Technologies
Mr. Amanullah Turk, Pipeline Engineer and Project Management Consultant
- 13:40 - 14:00** Comparative Study of Two Dominant Industry Practices for Subsea Pipelines Lateral OBS
Mr. Abdulhameed Yehya, Pipeline Technical Authority, Gulf of Suez Petroleum Co. (GUPCO)
- 14:00 - 14:20** Performance Improvement: An Upgrade Solution for Severe Service Valves
Mr. Alessandro Coca Sejas, Sales Area Manager, Orton SRL
- 14:20 - 14:30** Break
- 14:30 - 14:50** Transfer Pipeline Integrity and Major Repair Project
Mr. Salman Ali Alshammari, Lead Maintenance Engineer, SASREF
- 14:50 - 15:10** Best Practice for Conducting Surge Analyses for Water Piping Systems
Mr. Abdulaziz A Dulaijan, Saudi Aramco
- 15:10 - 15:30** Dewatering Challenges at Brownfield Construction
Elsayed Hegazy, CSA Department Manager, KBR-AMCDE
- 15:30 - 15:50** Absolute Roughness of Pipes from Different Manufacturing and Treatment Methods and Impact on Pipeline Design
Mr. Hamid Bidmus, Head of Department, Advisory Services Technical Services for Pipeline Hydraulics, Hydrogen, Corrosion & Modeling Energy Systems, DNV GL USA, Inc.
- 15:50 - 16:10** Is Visco Elastic Coating (VEC) Suitable for External Protection of Underground Metallic Pipelines Located at the Arabian Gulf?
Mr. Hamad A. Ababutain, President & CEO, Daleelalma for Trading
- 16:10 - 16:50** Panel Discussion

16:50 - 17:10

Awards and Rewards (Hall 1)

17:10

End of Day 2

18:00 - 20:00

VIP Gala Dinner

Session 4 - Operations, Inspections, Maintenance & Integrity Management (Hall 2)

- 13:00 - 13:20** Keynote Presentation: Towards Operational Excellence – Corrosion Management Transformation in Saudi Aramco
Dr. Faisal M. Al-Mutahhar, Corrosion Consultant - Corporate Corrosion Management Program, Saudi Aramco
- 13:20 - 13:40** Third Generation Polysiloxane
Mr. Peter Bock, Technical Manager, Performance Polymers Group
- 13:40 - 14:00** Low Risk and Easy to Deploy ILI Tools Driving Regular Inspection of Challenging Subsea and Marine Pipelines
Mr. Christian Openshaw, Sales Director, Quest Integrity
- 14:00 - 14:20** Reliability and Maintenance of Fibre Reinforced Plastic (FRP) Piping Systems in SABIC plants
Dr. Mahmoud M. Hassan, Principal Engineer, Civil Structural Corrosion Control, SABIC
- 14:20 - 14:30** Break
- 14:30 - 14:50** Enhanced Valve Operational Performance and Online diagnostics
Mr. Simon Clausen Jeeves, Product Manager, MRC Global Norway
- 14:50 - 15:10** PT1 Weldless Pipe Connection Technology
Mr. Jacob Coplestone, Poulton Technologies & P.E.C
- 15:10 - 15:30** Enhancing EMAT Crack Detection Services Using State of the Art Deep Learning
Dr. Stephan Eule, AI Specialist, Rosen
- 15:30 - 15:50** Corrosion Management Review of Sour Gas Pipeline
Mr. Muntathir M. Al-Jumaah, Corrosion Engineer, Consulting Services Department, Saudi Aramco
- 15:50 - 16:10** Internal Corrosion Direct Assessment (ICDA) Applications for Variety of Pipelines
Ashish Khera, P.Eng, Allied Engineers
- 16:10 - 16:50** Panel Discussion

07:00 - 08:00

Reception and Registration of Participants

Session 5 - HSSE, Risk Assessment & Management (Hall 1)

- 08:00 - 08:20 **Keynote Presentation:** Reflections and Discourse on Pipeline Safety Management
Mr. David Newman, CEO, Asset Management International Ltd
- 08:20 - 08:40 **Keynote Presentation:** OEMS – Getting it Right the First Time
Dr. Chit Lutchman, President, Safety Erudite Inc
- 08:40 - 09:00 Long Pipeline Discharge, Consequences and Risk Modelling
Mr. Leonardo Cotrufo, Saudi Aramco
- 09:00 - 09:20 HIPPS System and HIPPS Valve Selection
Mr. Alberto Rossi, Chief Operating Officer, Orion Valves
- 09:20 - 09:30 **Break**
- 09:30 - 09:50 Probe into Water Chemistry Effects on Internal Corrosion Risk for Sour Gas Pipelines
Mr. Ibrahim A Albrahim, Saudi Aramco
- 09:50 - 10:10 An Insight into Performance of Non-Metallic Pipelines
Mr. Dimos Tsakiris, Loss Prevention Engineer, Saudi Aramco
- 10:10 - 10:30 Strategies for Safety Excellence
Mr. Kannan Natarajan, Corporate HSE Manager, Mohamad Al-Barghash Al-Mansouri & Sons Trading & Cont. Co. Ltd. (MBTC)
- 10:30 - 10:50 What can be Learned from Major Process Safety Pipeline Incidents in the Last decade
Mr. Oscar Mauricio Barajas Pinzon, Loss Prevention Engineer, Saudi Aramco
- 10:50 - 12:00 **Exhibition Break**
- 12:00 - 13:00 **Lunch Break**

Session 5 - Pipelines Facilities Instrumentation & Logistics (Hall 2)

- 08:00 - 08:20 Planning and Evaluating a Modern Pipeline System
Mr. William J Atteridge, Associate Senior Consultant, Gulf Pipeline Development Consultants
- 08:20 - 08:40 The Sensitivity of Developed Kelvin/Zisman Probe to The Moisture for Detecting Underground Pipeline Leakage
Dr. Abdulrahman Fahad Al Fuhaid, King Faisal University (KFU)
- 08:40 - 09:00 Digitalisation & Artificial Intelligence for Pipeline Integrity Management
Dr. Waheed Alrafaei, Principal Consultant and Director, Gulf Pipeline Development Consultants
- 09:00 - 09:20 Off-Grid Power Solutions
Mr. Sergey Funin, Chief Commercial Officer (CCO), Nauka Power Technology
- 09:20 - 09:30 **Break**
- 09:30 - 09:50 Monitoring Defects in Buried Pipes Using Inductively-Coupled Ultrasonic Sensors
Mr. Robert Phillips, Technical Account Manager, Inductosense
- 09:50 - 10:10 Why Five Modes are Better than One – The Benefits of Fiber Optic Distributed Acoustic Sensing Leak Detection Systems over Distributed Temperature Sensing
Mr. Jerry Worsley, Global Sales Manager – Pipeline Integrity, Schlumberger
- 10:10 - 10:30 Content Confirmation of Underground Metallic & Nonmetallic Pipelines - SMART Solution
Abdullah F Arab, Saudi Aramco
- 10:30 - 10:50 Best Practices in Air Compressor Maintenance and Repair Program
Mr. Mohammed S Tawili, Saudi Aramco
- 10:50 - 12:00 **Exhibition Break**
- 12:00 - 13:00 **Lunch Break**

Session 6 - HSSE, Risk Assessment & Management (Hall 1)

- 13:00 - 13:20 Towards Smart Risk Management in the Light of Industry 4.0 Revolution
Dr. Hamad Alawad, PHD. Government
- 13:20 - 13:40 Risk Assessment of Metallic and Non-Metallic Pipelines in Upstream System
Dr. Zhenjin Zhu, President, ZZ Energy Engineering Ltd
- 13:40 - 14:00 Risk Assessment to Close the Gap Between Existing Facilities and New Standards
Mr. Gerardo Daniel Abalde, Saudi Aramco
- 14:00 - 14:40 Panel Discussion

14:40 - 15:40

Awards & Closing Ceremony (Hall 1)

15:40

End of SPICONX

Session 6 - Pipelines Facilities Instrumentation & Logistics (Hall 2)

- 13:00 - 13:20 International Regulations Change due to the Recognition of CP Shielding effect on Pipelines Corrosion
Mr. Hamad A. Ababutain, President & CEO, Daleelalma for Trading
- 13:20 - 13:40 48" New Arabian Heavy Pipeline Commissioning
Mr. Faris M. AlMohammed, Operations Engineer, Saudi Aramco
- 13:40 - 14:00 Transient Operation HAZOP
Mr. Hesham K Subait, Saudi Aramco
- 14:00 - 14:40 Panel Discussion