

ENERGY TRANSITION: THE PATH TO NET ZERO



24TH WORLD
PETROLEUM
CONGRESS
2023
CALGARY | CANADA

17 - 21 SEPTEMBER

**TECHNICAL
PROGRAMME**

SEPTEMBER 17 - 21

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TECHNICAL BLOCKS

A close-up photograph of a wood grain, showing the natural, wavy patterns of the timber in shades of brown and tan.

BLOCK 1

Transition in
Exploration
and Production

An abstract background featuring a bright blue circular shape at the top, with several glowing blue curved lines and a dark blue gradient below it.

BLOCK 2

Transition in
Refining,
Petrochemicals
and Products

An abstract background with vibrant, multi-colored light trails in shades of red, purple, and blue, creating a sense of motion and energy.

BLOCK 3

Transition in
Gas and
Transportation

An abstract background with sharp, geometric lines and shapes in shades of red, blue, and black, creating a futuristic and technical feel.

BLOCK 4

Leadership
Challenges in
Transition



BLOCK 1

TRANSITION IN EXPLORATION AND PRODUCTION

Forum 1 - New Supply Sources to Meet Global Energy Demand

Forum 2 - Innovations for Cleaner Production

Forum 3 - Sustainable Ways to Maximise Recovery

Forum 4 - Carbon Capture and Storage

Forum 5 - New Technologies in Geoscience

Day 1, Monday, 18 September 2023 | 10:15 - 11:15 | Auditorium 4

BLOCK 1 Keynote Speaker

Dr. Ghaitan Muntasheri, Director, EXPEC Advanced Research Center Saudi Aramco, Saudi Arabia



Block 1 Forum 1

New Supply Sources to Meet Global Energy Demand

With global energy demand expected to increase substantially in the next few decades, the world will continue to need a wide range of energy sources. As current oil and gas resources deplete, new supply sources are needed including new basins, and unconventional (oil sands, shale, tight oil and gas, and gas hydrates) to meet continued oil and gas demand and provide feedstock for the production of blue hydrogen and rare gases in the transition to a lower carbon world.

Forum Chair

Mr. Chi-Tak Yee, Chief Technology Officer (Retd.), MEG Energy, Canada

Vice Chairs

Dr. Heloisa Borges Esteves, Director, Energy Research Office, Brazil

Prof. Lirong Dou, Executive Vice President, CNPC Research Institute of Petroleum Exploration & Development, China

Paper Selection

Day 1, Monday, 18 September 2023 | 11:15 - 12:15 | Auditorium 4

The Research, Development, and Application of Key Geophysical Technologies for Unconventional Shale Oil & Gas

Presenter: Mr. Kai Xu, Senior Engineer, Sinopec Geophysical Research Institute, China

Seismic Exploration Challenge for the Unconsolidated Biogenic Gas Reservoir, Offshore Japan

Presenter: Mr. Fuminori Honda, Manager, Exploration & Development Department, Japan Petroleum Exploration Co. Ltd., Japan

Margarita 10: Drilling Strategy of the Fastest Well in the Bolivian Subandean Region

Presenter: Mr. Mario Bertarelli, Eagleford D&C Manager, N. American Unconventionals, USA

Poster Selection

Day 1, Monday, 18 September 2023 | 14:00 - 15:45 | Poster Plaza Stage 1

New Canadian Oil & Gas Supply - A Key Component of Energy Transition

Presenter: Dr. Brad Hayes, President, Petrel Robertson Consulting Ltd., Canada

Real-Time Steam Front Identification Method Applied Successfully in Superheated Steam Flooding Pilot of Bohai Bay

Presenter: Mr. Guangming Pan, Reservoir Engineer, CNOOC, China

Successful Completion of Jurassic Gas Data Integration and Analytics Dashboard, Workflow Automation, and Pore-to-process Implementation

Presenter: Ms. Moudi Fahad Al-Ajmi, Manager Gas Fields Development Group, Kuwait Oil Company, Kuwait

Liquid Hydrogen Production Associated with Qatar Natural Gas Production

Presenter: Ms. Maryam Al-Kaabi, Lab Quality Specialist, Qatar Gas Operating Company Ltd., Qatar

Enabling Enhanced-geothermal-systems, a Sustainable Energy Source: Designing Corrosion Resistant Nano-composite Tubing with Near-Zero Thermal Conductivity

Presenter: Dr. Kamel Ben Naceur, Chairman, DAMORPHE, USA

Deep Shale Gas in China: Resource Exploration and Development Practice

Presenter: Mr. Hongyan Wang, Director, PetroChina Research Institute, China

Collaborative Technology of Oil Reservoir Underground Gas-Oil Storage Construction and Enhance Oil Recovery

Presenter: Mr. Jinfang Wang, Senior Engineer, RIPED, CNPC, China

Mechanical Joint for Liquid Hydrocarbon Pipeline

Presenter: Abdullah Al Sultan, Maintenance Engineer, Saudi Aramco, Saudi Arabia

Block 1 Forum 2

Innovations for Cleaner Production

The upstream sector is continuing to apply new technologies to achieve continuous improvement in minimising the environmental impact of its operations including those aimed at: reducing GHG and other emissions; reducing freshwater use; recycling and/or safe disposal of produced water; reducing spills; utilisation of waste heat; electrification; limiting operational footprints; and facilitating safe and timely abandonment of wells and facilities and reclaiming sites at the end of their useful life. This forum will showcase new technologies and other innovations being applied in both conventional and unconventional oil and gas operations to achieve cleaner production of oil and gas resources and lower environmental impact.

Forum Chair

Mr. Florent Bertini, E&P Chief Innovation Officer, TotalEnergies, France

Vice Chairs

Mr. Mohammad Al Mulhim, General Manager, Southern Area Oil Producing, Saudi Aramco, Saudi Arabia

Prof. Yijin ZENG, Chief Expert of SINOPEC, Professor, SINOPEC Research Institute of Petroleum Engineering, China

Paper Selection

Day 2, Tuesday, 19 September 2023 | 10:15 - 11:15 | Auditorium 4

Low-cost Accelerated Transition from Carbon to Emissions Free Hydrogen Economy

Presenter: Mr. Gerald Chalifoux, President & CEO, Petrospec Engineering Inc., Canada

Game Changer In Subsurface Flare Reduction

Presenter: Mr. Moosa Al Rahbi, Production Technologist, Petroleum Development Oman, Oman

Facility Energy Strategy Development and Process Optimization: A Case Study from Saudi Aramco Khurais Facility

Presenter: Mr. Hatem Bajuaifer, Process Engineer, Saudi Aramco, Saudi Arabia

Research and Application of Oil-contaminated Drill Cuttings Separation and Recovery Technology

Presenter: Mr. Xunyong Nie, Senior Engineer, CNPC Greatwall Drilling Fluid Company, China

Poster Selection

Day 2, Tuesday, 19 September 2023 | 14:00 - 15:45 | Poster Plaza Stage 1

Nitrogen: A Profoundly Simple Solution to Methane Venting on Remote Well Sites

Presenter: Mrs. Kelly Doody, Chief Marketing Officer, Kathairos Solutions, Canada

Field Trial of New Expander Technology Opens Small Scale Power Applications

Presenter: Mr. James Cleland, President, TAKEnergy Inc., Canada

HP Glators and HP SOS: A Potential Solution for Oil Spillage Remediation and Recovery

Presenter: Dr. Siva Kesava Raju Chinthalapati, Senior Manager, HPCL Green Research & Development Centre, India

Integrated Solution to Mitigate and Prevent Black Powder Phenomena in West Kuwait Operation Facilities

Presenter: Dr. Abdullah Jamsheer, Chief Chemist, Kuwait Oil Company (KOC), Kuwait

PDO's Oil South's Journey & Roadmap to a Net - Zero Energy Business By 2050

Presenter: Mr. Hussain Al Noumani, Head of Production Programming, Petroleum Development Oman LLC, Oman

Unlocking Economic Zero Bleed Pneumatic Instrument Air Retrofits

Presenter: Mr. Ben Klepacki, Co - Founder & CRO, Westgen Technologies Inc., Canada

Qatargas Leading Initiative in Wastewater Treatment and Injection Management

Presenter: Mr. Meshaal Al-Rashid, Production Engineer, QatarGas, Qatar

Block 1 Forum 3

Sustainable Ways to Maximise Recovery

Upstream has been contributing to significant advancement of innovation and custodianship of the environment, maximising recovery while minimising the carbon footprint and overcoming continuous cost challenges. In this session, we will share advancements in technology innovation and digitalisation, subsurface modelling, best in class reserves management, water management, drilling and production technologies for IOR and EOR, while recognising climate challenges and the role of enhanced recovery in our transition to a low carbon future.

Forum Chair

Mr. Arnfinn Kjosavik, Leading Advisor Reservoir Technology, Equinor, Norway

Vice Chairs

Mr. Takaaki Uetani, Manager, Reservoir Engineering, INPEX Corporation, Japan

Dr. Pinar Oya Yilmaz, Chairman, Board of Directors, IPTC, United States

Paper Selection

Day 2, Tuesday, 19 September 2023 | 13:30 - 14:30 | Auditorium 4

Energy Efficient Reservoir Drainage: from Prognosis to Implementation of Emission Reduction Measures

Presenter: Mr. Jørgen Silseth, Project Leader, Equinor, Norway

Quick Decision-Making Using Capacitance Resistance Model for Recovery Optimization in Matured Oil Field

Presenter: Mr. Tomonori Hasegawa, Reservoir Engineer, Japan Petroleum Exploration, Japan

Energy Prediction and Monitoring on Cloud - Case Studies

Presenter: Dr. Rahul Raveendran, Data Scientist, APC Specialist, Spartan Controls Ltd., Canada

Enhancing Shale Gas Recovery by Injecting Supercritical CO₂ and CO₂ Storage in Shale Gas Reservoirs

Presenter: Mr. Ziqi Qiu, Assistant Engineer, Shale Gas Research Institute, Southwest Oil and Gas Field Branch, CNPC, China

Poster Selection

Day 3, Wednesday, 20 September 2023 | 10:00 - 11:45 | Poster Plaza Stage 1

Reservoir Response to Variation in Injection and Production at Different Timescales

Presenter: Mr. Per Eirik Strand Bergmo, Research Scientist, SINTEF Industry, Norway

Sustainable Development and Future Strategy of China Oil Companies on the Path to Energy Transition

Presenter: Miss Yi Tong, Development Geologist, CNOOC International, China

Optimal Carbon Capture and Sequestration Coupled with Enhanced Gas Recovery for Wet Gas Reservoirs

Presenter: Dr. Uchenna Odi, Petroleum Engineering Specialist, Aramco Americas, USA

Applications of Six Sigma Methodology in Improving Energy Efficiency in Oil & Gas Operations

Presenter: Mr. Hilal Al Ghefeili, Production Programming Lead, Petroleum Development Oman, Oman

History Matching of Multi-probe Chemical Sensing Data to Estimate Inter-Well Distributions

Presenter: Dr. Hsieh Chen, Petroleum Engineer, Aramco, USA

Pilot and Enlightenment of Cyclic Gas Injection in Bohai: Moving Towards a Low Carbon Future

Presenter: Mr. Xiaoming Chen, Reservoir Engineer, Tianjin Branch, CNOOC Ltd, China

Effects Analysis of Surfactant-polymer Flooding Field Tests in Complex Fault Block Reservoir

Presenter: Mr. Jinlong Sun, Research Institute of Petroleum Exploration and Development, China

Block 1 Forum 4

Carbon Capture and Storage

As the petroleum industry works to reduce GHG emissions to net-zero, one key tool at their disposal is Carbon Capture, Utilisation and Storage (CCUS). Capturing emissions can be done at their source, such as at large industrial facilities, or by removing CO₂ emissions directly from the atmosphere through Direct Air Capture (DAC), or through Nature Based Solutions. Once GHG's such as CO₂ are captured, they can be stored underground or utilised for other purposes. This forum will examine the current state of the CCUS industry, what is required for it to grow, and the nascent technologies that will deliver the large-scale growth of CCUS required to address global emissions.

Forum Chair

Mr. Chris Grant, Former VP, Pathways to Net Zero, Suncor, Canada

Vice Chairs

Dr. Naif Alqahtani, Director of CCUS Center, KACST National Center for Carbon Management Technology, Saudi Arabia

Mr. Suleyman Coskun, Researcher, University of Manchester, Exploration Geoscientist, Turkish Petroleum Corporation

Paper Selection

Day 3, Wednesday, 20 September 2023 | 11:15 - 12:15 | Auditorium 4

Massive-scale CCUS: Why, Where, and How Will It Be Built Out?

Presenter: Mr. Peter Findlay, Director, CCUS Economics, Wood Mackenzie, Canada

The Agi Technique in the Monitoring in the Saline Aquifer- Krechba Field Algeria

Presenter: Mr. Faycal Zeboudj, Subsurface Co-Manager, Sonatrach, Algeria

TBA

Presenter: Mr. David Mercer, Director, Head of Technology – Energy Solutions, Fluor Corporation, Canada

Poster Selection

Day 3, Wednesday, 20 September 2023 | 14:00 - 15:45 | Poster Plaza Stage 1

Feasibility of Carbon Storage in Depleted Shallow Gas Fields: A Numerical and Statistical Analysis

Presenter: Dr. Xiaolong Peng, Research Scientist, Geological Survey of Canada Calgary, Canada

Potential of CO₂ Storage in a Depleted Gas Reservoir with Bottom Water

Presenter: Dr. Xiacong Lyu, Associate Professor, China University of Petroleum (Beijing), China

Next Generation Sorption Technology for CO₂ Capture from Industrial Flue Gases

Presenter: Mr. Annaji Rajiv Kumar Tompala, Chief Manager - R&D, Hindustan Petroleum Corporation Limited, India

Simulation of Flooding and Sequestration of Supercritical CO₂ in Fractured Shale Oil Reservoir

Presenter: Dr. Xurong Zhao, Ph.D. Student, China University of Petroleum at (Beijing), China

Microfluidic Study of CO₂ Storage in Saline Aquifers

Presenter: Dr. Karol Dąbrowski, Assistant Professor, AGH University of Science and Technology, Poland

Impact of CO₂ Dry-out on Well Injectivity for Carbon Geological Sequestration in Saline Aquifers

Presenter: Dr. Huihai Liu, Sr Petroleum Engineering Consultant, Aramco Research Center, USA

Alberta Carbon Trunk Line - Enabling CCUS Infrastructure

Presenter: Mr. Jeff Pearson, President - Carbon, Wolf Midstream, Canada

Carbon Dioxide Capture Through Microbial Route in Pilot Scale

Presenter: Mr. Mukul Gupta, Senior Manager SD & Environment, GAIL India Ltd., India

A Glimpse at Carbon Capture, Utilisation and Storage (CCUS) in Brazil's Oil and Gas Sector

Presenter: Dr. Nathalia Oliveira de Castro, Energy Research Analyst, Energy Research Office, Brazil

Advanced Gas and Carbon Dioxide Storage in the Aquifer - A Machine Learning Approach

Presenter: Mr. Jan Barbacki, Research Assistant, AGH University of Science and Technology, Poland

Block 1 Forum 5

New Technologies in Geoscience

Technology is changing the way we do business, and the geoscience industry is no different. The oil and gas industry has historically been at the forefront of applying new technologies due to their economic impact. Digital technology advances are rapidly altering the landscape of geoscience and the simultaneous emergence of access to large data sets and machine learning tools is and will continue to change the way we work. This session will illustrate the impact of new technologies on the way we work with geological data in the oil and gas industry today.

Forum Chair

Mr. Ivan Kozak, Partner & Global Geoscience Lead, Boston Consulting Group, United States

Vice Chairs

Mr. Damaso Contreras Tebar, Geophysicist, PEMEX, Mexico

Ms. Maria Yodalis Hernandez, Union CubaPetóleo (CUPET), Cuba

Paper Selection

Day 3, Wednesday, 20 September 2023
16:00 - 17:00 | Auditorium 4

Geophysical Applications that will Add Value in Future Energy Developments

Presenter: Mr. John Duhault, President, Starbird Enterprises, Canada

Artificial Intelligence Assisted Real-time Diagnostics of Hydraulic Fracturing in Unconventional Reservoirs

Presenter: Prof. Mao Sheng, Professor, China University of Petroleum (Beijing), China

Integrated Quantitative Interpretation Through Web - Avo Technology to Reduce Uncertainties for Exploration & Fields Development, Wheatstone

Presenter: Talal Esmail, Operations Manager, KUFPEC, Australia

Review of Digital Rock Physics and Its Methods

Presenter: Dr. Uchenna Odi, Petroleum Engineering Specialist, Aramco Americas, USA

Poster Selection

Day 4, Thursday, 21 September 2023 | 10:00 - 11:45 | Poster Plaza Stage 1

Efficient Sectorization of Reservoirs for Upscaling Based on Artificial Intelligence: A Pilot Study

Presenter: Mr. Fernando Perin Munerato, Reservoir Specialist, Solpe, Brazil

Application of Digital Technology - Artificial Intelligence (AI) & Machine Learning (ML) in the Geoscientific Field

Presenter: Mr. Ankur Bikash Chatterjee, Chief Manager Geophysicist, Gail India Limited, India

A Novel Workflow for 3D Porosity Partition of Carbonate Rocks

Presenter: Mr. Ashu Kapil, Senior Geophysicist, Oil & Natural Gas Corporation (ONGC), India

Optimizing a New Stimulation Treatment to Enhance Well Productivity Using Numerical Simulation

Presenter: Dr. Huihai Liu, Sr Petroleum Engineering Consultant, Aramco Research Center, USA

First Worldwide Implementation of 6-inch Slim Advanced Downhole Fluid Analyzer in North Kuwait Jurassic Gas

Presenter: Mr. Mejbil Saad Al-Azmi, Senior Geologist, Kuwait Oil Company, Kuwait

Study of Geology and Engineering Double Sweet Spots Based on 3D Seismic Data

Presenter: Miss Qiuping Qin, Post Doctor, SINOPEC Research Institute of Petroleum Engineering Co Ltd, China

Insights into Structural Configuration of Tripura Fold Belt Using PST Data and its Integrated Interpretation

Presenter: Mrs. Sushma Rawat, Director (Exploration), Oil & Natural Gas Corp Ltd, India

Innovative Equipment Boosts Ocean Bottom Node (OBN) Acquisition

Presenter: Mr. Yang Li, Geophysics, BGP Offshore, China

Using Genetic Programming for Predicting Gas Well Performance at the Early Stage of Field Development

Presenter: Prof. Jerzy Stopa, Reservoir Engineer Professor, Polish Oil & Gas Company (PGNIG) and ORLEN, Poland

Predict Capillary Pressure and Relative Permeability from High-resolution Images

Presenter: Ms. Stacey Althaus, Senior Lab Scientist, Aramco Americas: Aramco Research Center- Houston, USA



BLOCK 2

TRANSITION IN REFINING,
PETROCHEMICALS &
PRODUCTS

Forum 6 - CO2 Utilisation and Removal in Products
and Processes

Forum 7 - Emission Reduction and Recycling in
Refining & Petrochemicals Facilities

Forum 8 - Cleaner Fuels

Forum 9 - Innovation in Products



Day 1, Monday, 18 September 2023 | 10:15 - 11:15 | Auditorium 5

BLOCK 2 Keynote Speaker

Mr. Krisztian Pulay, SVP, Group Downstream Development, Mol, Hungary

Block 2 Forum 6

CO2 Utilisation and Removal in Products and Processes

In many cases (e.g. in the field of mobility), the goal of a comprehensive reduction of CO2 emissions cannot only focus on the operating phase (fuel consumption), but must also take into account the manufacturing and subsequent dismantling phase. This results in the need for a multifaceted analysis of partly small-scale product flows and the associated processes. This forum will explore possible ways of capturing CO2 from processes, using it in closely coupled production paths which can be implemented in an economically justifiable manner, and the utilisation of CO2 by converting it into useful products.

Forum Chair

Mr. Todd Spengeman, Director Standard Amines & Gas Treatment, BASF Corporation, United States

Vice Chairs

Dr. Ammar Nahwi, Manager, Research & Development Center, Saudi Aramco, Saudi Arabia

Mr. Yoshiyuki Watanabe, Deputy Director, Technology Development Center, Sustainability Co-Creation Unit of JGC Holdings Corporation, Japan

Paper Selection

Day 1, Monday, 18 September 2023
11:15 - 12:15 | Auditorium 5

CO2 Recovery System Using DDR-type Zeolite Membrane: The First Industrial Demonstration in a CO2-EOR Field

Presenter: Mr. Hiroaki Hasegawa, Team Leader, JGC Holdings Corporation, Japan

Decarbonising Hard-to-abate Industries with One-step Carbon Capture

Presenter: Mr. Colin Nikiforuk, Chief Technology Officer, Cool Ventures Inc, Canada

Utilisation of CO2 in Oxidative Dehydrogenation of Light Alkanes to Produce Olefins and Syngas

Presenter: Prof. Mohammad Hossain, Professor, King Fahd University of Petroleum and Minerals, Saudi Arabia

Poster Selection

Day 1, Monday, 18 September 2023 | 14:00 - 15:45 | Poster Plaza Stage 2

Innovative Syngas/CO Production Catalyst for Utilization of CO2 (ct-co2ar(tm) Catalyst)

Presenter: Mr. Satoshi Morikami, General Manager, Technology Development Dept., Chiyoda Corporation, Japan

Cargen: Novel Technology for Decarbonizing Natural Gas Processing Plants from the Midstream to Downstream

Presenter: Prof. Nimir Elbashir, Professor/Director of Gas & Fuels Research Center, Texas A&M University, Qatar

Technical Progress in the Production of Electronic Grade Ethylene Carbonate by CO2 from EO/EG Unit Tail-Gas

Presenter: Dr. Wenjun He, Researcher, Sinopec Shanghai Research Institute of Petrochemical Technology, China

Green Process for Polycarbonate Synthesis from CO2 Derived Carbonate Molecule

Presenter: Mr. Bennet Chelliah, Chief Manager, Hindustan Petroleum Corporation Ltd., India

CO2 Capturing And Utilization: The Application Of CO2 Artificial Tree for a Net Zero Effect

Presenter: Dr. Riverson Oppong, Manager, Commercial Operations, Ghana National Gas Company, Ghana

Power Generation Through Flare Gas Recovery; Operation Area S, National Iranian Oil Company

Presenter: Ms. Delara Heidari, Oil & Gas Law Expert, Iranian Offshore Engineering and Construction, Iran

Converting Carbon Emissions to Ethanol - A Direct Gasoline Blend: Journey Towards Net Zero

Presenter: Dr. Santhosh Kotni, Manager - Catalysis, Hindustan Petroleum Corporation Ltd., India

HP HiGas Technology - A First-of-its-kind Revolution in Carbon Capture

Presenter: Mr. Annaji Rajiv Kumar Tompala, Chief Manager-R&D, Hindustan Petroleum Corporation Limited, India

Block 2 Forum 7

Emission Reduction and Recycling in Refining & Petrochemicals Facilities

The world is in transition to a zero-carbon society toward 2050, and the petroleum refining and petrochemical industries are no exception. For this reason, the petroleum and petrochemical industries must promote the reduction of carbon emissions from plants and the effective use of carbon more strongly than ever before. In this forum, we will discuss the latest information on not only emission reduction by developing new processes and high-performance catalysts, but also material/chemical carbon recycling such as recovery of emitted carbon, reuse of petrochemical products and fuel synthesis by FT and other processes.

Forum Chair

Mrs. Nathalie De Mynck, General Manager, Zeeland Refinery, TotalEnergies, Belgium

Vice Chairs

Ing. / Dr. Ivan Soucek, Director, Association of Chemical Industry of the Czech Republic, Czech Republic

Dr. Seyed Abdolmajid Khaksar, Deputy Managing Director, Nouri Petrochemical Company, Iran

Paper Selection

Day 2, Tuesday, 19 September 2023
10:15 - 11:15 | Auditorium 5

Pathways for CO2 Emissions Reduction from Oil Refineries - Understanding Technology Options and Costs

Presenter: Mr. Harjinder Sarwara, Senior Consultant, Hatch Ltd., Canada

Guilt - Free Operations: Emissions Reduction in Gas-Based Petrochemical Industries

Presenter: Ms. Sweta Rani, Chief Manager (Technical Services), GAIL India Limited, India

Integrated Production of the Olefins and Jet Fuel from Waste Polypropylene

Presenter: Dr. Elena Hajekova, Project Manager, Slovak University of Technology in Bratislava, Slovakia (Slovak Republic)

Poster Selection

Day 2, Tuesday, 19 September 2023 | 14:00 - 15:45 | Poster Plaza Stage 2

Chemical Recycling - The Suitable Option for Circular and Renewable-Based Economy

Presenter: Dr. Ivan Souček, Director, Association of Chemical Industry Czech Republic, Czech Republic

Integrating Downstream Activities and Waste Management: MOL Group's Experience

Presenter: Mr. Robert Hurny, Manager, MOL Group, Hungary

Ammonia Recovery from SRU and Utilise in Adjacent Biorefinery Project

Presenter: Ms. Geetali Kalita, Deputy General Manager (Technical Services), Numaligarh Refinery Limited, India

Gas Flare Recovery and Ammonium Sulfate Fertilizer Production in Nouri Petrochemical Company

Presenter: Dr. Sajjad Keshavarzian, Senior Researcher of R&D Department, Nouri Petrochemical Company, Iran

Effects of Hydrogen-rich Syngas Addition to Hydrous Ethanol-gasoline Blends on Reducing NOX of SI Engine

Presenter: Dr. Ahmed Alharbi, Deputy Director of Energy and Water Research Institute, KACST, Saudi Arabia

On-line Assessment of Reforming Catalysts Based on Molecular Management

Presenter: Dr. Fang Zheng, Engineer, Petrochemical Research Institute of PetroChina Com Ltd., China

A Digital Approach to Reduce Emissions and Optimize Maintenance

Presenter: Mr. Ernesto H. Escobedo, Senior Engineer, Data Science CTH, Baker Hughes, Mexico

Block 2 Forum 8

Cleaner Fuels

In order to achieve climate targets it is necessary to manufacture new fuels with advances in utilization technology and properties corresponding to them. This will include net zero carbon fuels that are offset by other carbon sinks. Biofuels, which have been attracting attention as carbon-neutral fuels in recent years, should also be featured. In this forum, we will discuss the progress of utilization technology, fuel properties and manufacturing technology required by new utilisation technology, leading to net zero targets.

Forum Chair

Mr. Abdullah Al-Osaimi, Manager of Corporate Planning, Kuwait Integrated Petroleum Industries Company, Kuwait

Vice Chair

Prof. Rong GUO, Professor, SINOPEC Dalian Research Institute of Petroleum and Petrochemicals, China

Mr. Balázs Tóth, Biofuel System Trader, MOL Group, Hungary

Paper Selection

Day 3, Wednesday, 20 September 2023
09:00 - 10:00 | Auditorium 5

Low Carbon Synthetic Fuels for Ultra Low Tailpipe and Greenhouse Gas Emissions

Presenter: Dr. Alexander Voice, Sr. Research Scientist, Aramco Americas, USA

A Superior LPG for Improved Performance in Outboard Engines Towards a Green Sustainable Future

Presenter: Dr. Sandip Bhowmik, Senior Manager - Analytical & Chemical Synthesis, HPCL, India

Hydrogen Free Desulfurization Process with Value Addition of Sulfur Compounds Present in Cutter Stocks

Presenter: Dr. Senthilkumar Thangaraj, Assistant Professor, Indian Institute of Petroleum, India

Poster Selection

Day 3, Wednesday, 20 September 2023 | 14:00 - 15:45 | Poster Plaza Stage 2

The Journey of Environmental Friendly Ships' Fuel Production in Indonesia

Presenter: Mr. Daniswara Krisna Prabatha, Secondary Unit Process Engineer, PT. Pertamina (Persero), Indonesia

Biodiesel Production by Valorizing Waste Olive Oil using Sulfonated Carbon as a Heterogeneous Acid Catalyst

Presenter: Dr. Mohammad Algamdi, Associate Research Professor, King Abdulaziz City for Science and Technology, Saudi Arabia

Demonstration of Di Methyl Ether (DME)-Diesel Dual Fuel: A Solution Towards De-carbonization

Presenter: Mr. Mukul Maheshwari, Chief General Manager I/C (Lube Technology, Indian Oil Corporation Ltd., India

Development of Fixed-bed Residue Hydrotreating Technology Adapting for Function Transformation of Refinery

Presenter: Mr. Liang Ren, Associate Research Fellow, Sinopec Research Institute Of Petroleum Processing, China

Hybridizing Strategies for Green and Blue Hydrogen Production for Indian Refinery - A Case Study

Presenter: Mr. Sachin Chugh, Chief Research Manager, Indian Oil Corporation Ltd. (IOCL), India

Use of Geothermal Heat Pumps in the Buildings: Case Study: Isfahan, Iran

Presenter: Miss Fatemeh Heidari, Master Student, Khaje Nasir Toosi University of Technology, Iran

The Plant Fibers as the Template

Presenter: Mr. Baoli Ma, PetroChina Daqing Chemical Research Centre of Petrochemical Research Institute, China

Review of Technologies, Costs, and Projects, for Carbon-neutral Liquid E-fuels from Hydrogen and Captured Co2

Presenter: Mr. Harpreet Singh, Petroleum Engineer, CNPC USA, USA

Maximizing Carbon Utilisation in Conventional Biomass to Liquids Pathways

Presenter: Mr. Nel Wessel, Senior Process Engineer, Hatch, Canada

Block 2 Forum 9

Innovation in Products

The goal of further developing a circular economy requires a forward-looking determination of the underlying plastics and their compatibility with this goal in the case of plastic-based and plastic-containing products. Also of growing importance for the future material spectrum will be possible recycling processes (e.g. pyrolysis, hydrogenation, etc) and the development of new polymers. The forum will address both aspects and how they will influence the future product spectrum of the petrochemical industry and their impact on the operation of refineries.

Forum Chair

Dr. Ibrahim Abba, Head, Technology Commercialization, Technology Oversight & Coordination, Saudi Aramco, Saudi Arabia

Vice Chairs

Dr. Michael Bender, Research Fellow - Expert Catalysis & Sustainable Value Chains, BASF SE, Germany

Dr. (Ms.) Ru Xie, Supervisor, Americas Customer & Application Development, Product Solutions Technology, ExxonMobil, United States

Mr. Todd Spengeman, Director Standard Amines & Gas Treatment, BASF Corporation, United States

Paper Selection

Day 3, Wednesday, 20 September 2023
11:15 - 12:15 | Auditorium 5

Bitumen Beyond Combustion - Reprioritizing Bitumen End Use

Presenter: Dr. Paolo Bomben, Senior Manager - Clean Technology Development, Alberta Innovates, Canada

Packaged Process of Environmentally Friendly Aromatic Rubber Oil for Green Tyres

Presenter: Mr. Dongyue Peng, Senior Engineer, Sinopec Research Institute of Petroleum Processing, China

Cross Flow Reactor for Hydroprocessing Applications

Presenter: Vinod Kumar, Manager (R&D), Bharat Petroleum Corporation Limited, India

Poster Selection

Day 4, Thursday, 21 September 2023 | 10:00 - 11:45 | Poster Plaza Stage 2

Controlled Polymerization of Acrylamides via Aqueous RDRP

Presenter: Dr. Fehaid Alsubaie, Associate Researcher Professor, KACST, Saudi Arabia

Leveraging Energy Transition to Upgrade Recyclates Value Chain

Presenter: Mr. Satyendra Sahai, Chief General Manager, Indian Oil Corporation Limited, India

Valorization of Petroleum Byproducts for E-mobility & Energy Storage Application

Presenter: Dr. Malay Pramanik, Manager R&D, Hindustan Petroleum Corporation Limited, India

Oilsands Asphaltenes as Feedstock for Carbon Fiber Production

Presenter: Dr. Murray Gray, Senior Technical Advisor, Alberta Innovates, Canada

Carbon Products from Bitumen

Presenter: Prof. Ian Gates, Professor, University of Calgary, Canada

Preparation of Pitch-based Carbon Fiber using Asphaltene and Bitumen Precursors

Presenter: Mr. Thomas Kaminski, Researcher, InnoTech Alberta, Canada

Innovation in Developing Biodegradable Mulch Films to Address Soil Pollution Issues

Presenter: Prof. James Wang, Sinopec Corporate Fellow, Sinopec Shanghai Institute of Petrochemical Technology, China

Tc2cTm - More Carbon-effective Conversion of Crude Oil into Chemicals

Presenter: Dr. Mazin Tamimi, Senior Lab Scientist, Saudi Aramco, Saudi Arabia



BLOCK 3

TRANSITION IN GAS AND TRANSPORTATION

Forum 10 - Smart Infrastructure

Forum 11 - Innovations in LNG & FLNG for the
Energy Transition

Forum 12 - Towards Zero Methane Emissions

Forum 13 - Hydrogen – Emerging Use, Generation and
Distribution Networks

Day 1, Monday, 18 September 2023 | 10:15 - 11:15 | Auditorium 6

BLOCK 3 Keynote Moderator

Dr. Abhishek Deshpande, Vice President: Market Intelligence, ADNOC Group, UAE

BLOCK 3 Keynote Speaker

Dr. Lu Ruquan, President, CNPC Economics & Technology Research Institute (ETRI), China



Block 3 Forum 10

Smart Infrastructure

New strategies and technologies for transport and storage of natural gas will change the availability and affordability of gas, whilst reducing our carbon footprint. Infrastructure developments and integration for pipeline and LNG options are essential to ensure the efficiency of the system, reduce duplicity, diversify sources and increase competitiveness for producers, transit countries and consumers. Shorter term gas infrastructure and storage will play an instrumental role in the transition to new energy sources.

Forum Chair

Mr. David Hardie, Director Liability Management, Alberta Energy Regulator, Canada

Vice Chairs

Dr. Guosheng Ding, Director, The Underground Gas Storage Department, CNPC Research Institute of Petroleum Exploration & Development, China

Mrs. Wasmeya Abdullah Alshammari, Senior Process Engineer, Kuwait National Petroleum Company (KNPC), Kuwait

Paper Selection

Day 1, Monday, 18 September 2023
11:15 - 12:15 | Auditorium 6

The Intermodal Transport of Natural Gas as P-LNG

Presenter: Mr. Steven Campbell, CTO, CanaGas Incorporated, Canada

Investigation & Modeling of Possible Geochemical Reactions in Underground Hydrogen Storage

Presenter: Dr. Farid Amraei, CEO, Sater Gostar Zana Co, Iran

Digitalization of Terminal Operations to Enable Green Supply Chain

Presenter: Mr. Suman Raj, Senior Manager, Hindustan Petroleum Corporation Limited, India

Creating Smarter Sites with Industrial - IoT Sensors

Presenter: Mr. Thijs Buuron, Technical Lead and Head of Technology, TWTG RD BV, Netherlands

Poster Selection

Day 1, Monday, 18 September 2023 | 14:00 - 15:45 | Poster Plaza Stage 3

Application of Formation Pressure Correction Method Considering Multi-well Interference in Inventory Verification of Gas Storage

Presenter: Ms. Lina Song, Gas Reservoir Engineer, China National Petroleum Corp. (CNPC), China

Numerical Investigation of Hydrogen Loss & Transport Mechanism Under Different Cushion Gas Injection

Presenter: Mr. Amin Amraei, Management - Supervision of Oil & Gas Production, National Iranian Oil Company Ltd., Iran

Artificial Intelligence-based Models for Short-term Natural Gas Consumption Forecasting

Presenter: Dr. Jinyuan Liu, Ph.D. Student, Southwest Petroleum University, Canada

Asset Management Strategy in Converting LNG Plant to LNG/LPG Hub and Regasification Plant

Presenter: Mrs. Grace Intan Melania, Gas & LNG Asset Management Manager, PT Pertamina (Persero), Indonesia

Making the Case for Hybrid (dual) Drive Compression Trains in LNG Plants

Presenter: Mr. Gautam Chhibber, Director, Proposals, Siemens Energy, USA

Natural Gas Consumption Forecasting Based on the Variability of External Meteorological Factors

Presenter: Mr. Wojciech Panek, Process Data Engineer, Shell, Poland

Dashboard - Technical Services Workflow System

Presenter: Ms. Asrar Jamal Hamed Alenezi, Petroleum Engineer, Ministry of Oil, Kuwait

Block 3 Forum 11

Innovations in LNG & FLNG for the Energy Transition

Innovative developments in LNG and FLNG are helping to open up new frontiers and make gas more competitive, including its use as a transition fuel. Digitalisation allows for processes to become more efficient and enhanced communications with all customers across the entire value chain. FLNG technology offers countries a more environmentally-sensitive way to develop natural gas resources. As demand increases for conventional uses of LNG, we also expect to see an increase in LNG-driven ships in the coming decade. IMO 2020 has placed a cap on sulphur emissions from ships, and due to low sulfur content requirements, LNG has been highlighted as a viable solution. This forum will look at the future prospects for FLNG development together with the increased use of LNG as a transition fuel.

Forum Chair

Mr. Paul Doucette, Hydrogen Program Officer, University of Houston, United States

Vice Chair

Prof. Tongwen Shan, President, Science & Information Technology Dept., Science & Information Technology Dept., China National Offshore Oil Corporation, China

Paper Selection

Day 2, Tuesday, 19 September 2023
13:30 - 14:30 | Auditorium 6

Transitioning Kazakhstan's Transportation Fuel with 'localized' LNG

Presenter: Mr. Don Streu, President and CEO, Condor Energies, Canada

LGN Generation Power Ship Market and Preliminary Scheme Research

Presenter: Ms. Yadi Qin, Gas Power Generation Engineer, CNOOC, China

A Success Story: Intelligence in Molecular Sieve Beds Desiccant Online Change Out

Presenter: Mr. Nasser Ahmed Al-Saei, Operations Coordinator, QatarGas Company Ltd., Qatar

Switching to Natural Gas in Kuwait Reaps Economic and Environmental Benefits

Presenter: Mr. Talal Hamadah, Operations Engineer, Kuwait Integrated Petroleum Industries Company (KIPIC), Kuwait

Poster Selection

Day 3, Wednesday, 20 September 2023 | 10:00 - 11:45 | Poster Plaza Stage 3

Carbon-neutral LNG: The Future of Gas Markets?

Presenter: Ms. Zlata Sergeeva, Senior Analyst, King Abdullah Petroleum Studies and Research Center (KAPSARC), Saudi Arabia

H2, Natural Gas & NGLs: An Imperative for Shaping India's Future

Presenter: Mr. Vineet Bakshi, Asst. General Manager, Strategy & Business Development, Engineers India Ltd., India

How Reliable and Auditable Technology Supports the Complexities of LNG in the Energy Transition

Presenter: Mr. Erik Winn, Director Midstream, Quorum Software, USA

Materializing Innovation Ideas in Testing and Loading Dehydrators Desiccants

Presenter: Mr. Ahmad Zaki, Senior Process Engineer, Saudi Aramco, Saudi Arabia

A Comparative Study on Types of Vaporisers in LNG Receiving Terminals

Presenter: Dr. Huiyong Xue, Senior Engineer, PetroChina Planning and Engineering Institute, China

Helping the Energy Transition with Type-4 P-LNG Storage and Transport

Presenter: Mr. Steven Campbell, CTO, CanaGas Incorporated, Canada

Block 3 Forum 12

Towards Zero Methane Emissions

This forum will focus on the ways towards zero methane emissions, including overview of the general pictures of global methane emissions from various sources, monitoring, treatment and prevention technologies, best practices, innovations and advanced technologies solutions such as; imaging, sensors, robotics, UAV, AI, among others, government regulations and industry roadmap.

Forum Chair

Dr. Antonio Lopez-Rodriguez, Head of Energy Transition and Climate Change, Repsol, Spain

Vice Chairs

Dr. Viktoria Kardosne, Green Transition Office Manager FGSZ Ltd., Hungary

Dr. Soheil Asgarpour, President & CEO, Petroleum Technology Alliance Canada, Canada

Paper Selection

Day 3, Wednesday, 20 September 2023
09:00 - 10:00 | Auditorium 6

Building Technology Capacity to Reduce Hydrocarbon Sector's Methane Emissions by 90% by 2030

Presenter: Dr. Soheil Asgarpour, President & CEO, PTAC, Canada

Optimizing Cost of Methane Mitigation and Safety in Leak Detection and Repair

Presenter: Dr. Thomas Fox, President, Highwood Emissions Management, Canada

Production to Distribution: Methodology for Measurement Informed Methane Emission Estimates and Verification

Presenter: Ms. Amanda Harmon, Senior Manager, Programs, GTI Energy, USA

Advanced Technologies for Recovering Flared Gas at Petroleum Development Oman South Fields

Presenter: Mr. Saif Al-Humaimi, Concept Process Engineer, Petroleum Development Oman, Oman

Poster Selection

Day 3, Wednesday, 20 September 2023 | 14:00 - 15:45 | Poster Plaza Stage 3

The Emissions Testing Centre Lab: Case Studies Towards Zero Methane Emissions

Presenter: Ms. Nicole Calma, Research Technician, University of Calgary, Canada

Data Analytics of Satellite and Aircraft Platforms Towards Zero Methane Emissions in the Oil & Gas Sector

Presenter: Mr. Nicholas Flanagan-Bergeron, Account Executive, O&G, GHGSat, Canada

Measurement and Analysis of Methane Emissions in 11 Oil & Gas Production Regions in Alberta

Presenter: Ms. Katlyn MacKay, Post-Doctoral Fellow, Environmental Defense Fund, Canada

Paradigm Shift in Low-cost Optical Sensing Maximizing Cost-to-performance for Monitoring Methane Emissions with Continuous Monitors

Presenter: Mr. Ryan Fitzpatrick, Sales Director, Americas, Sensirion Connected Solutions Inc., United States

Life Cycle Analysis - Understanding Emissions Across the Value Chain to Achieve True Net - Zero

Presenter: Ms. Zainab Dadashi, Director, Climate Risk, Modern West Advisory, Canada

Optimisation and Location of Methane Micro-emission at Gas Stations Based on the TDLAS Gas Detectors

Presenter: Dr. Fei Xiao, Postdoctoral, Southwest Oil & Gas Field Company, PetroChina, China

Steps Taken at Gail India Ltd. Vaghodia for Eliminating Methane Emissions

Presenter: Mr. Pradeep Velambaran, Manager, Gail India Ltd., India

Flares & Venting

Presenter: Mr. Concetto Fischetti, Energy Transition Director, IOGP, UK

Block 3 Forum 13

Hydrogen – Emerging Use, Generation, and Distribution Networks

The use of hydrogen in transportation and stationary power supply is free of on-board carbon emission and offers an alternative climate change solution. This forum will present use cases, efficient and innovative generation processes, distribution and transportation. The forum will also discuss production pathways comparing their environmental and economic impacts and demonstrate viable technology solutions for the distribution and storage challenges of the tiny molecules.

Forum Chair

Dr. David Layzell, Director, Canadian Energy Systems Analysis Research, University of Calgary, Canada

Vice Chairs

Mr. Osamu Ikeda, Deputy General Manager, Hydrogen Business Department, Section Leader, Business Development Section, Frontier Business Division Chiyoda Corporation, Japan/Netherlands

Paper Selection

Day 3, Wednesday, 20 September 2023
11:15 - 12:15 | Auditorium 6

Hydrogen - A Solution for Self Sufficiency and Net Zero Carbon Efforts of India

Presenter: Mr. Alok Sharma, Executive Director, Centre for High Technology, India

Kickstarting the Low Carbon Hydrogen Market: Scaling a Market That Does Not (yet) Exist?

Presenter: Mr. Tarek Helmi, Partner, Future of Energy Lead, Deloitte, Netherlands

Unlocking Bulk Hydrogen Production, Storage, and Transport Through Learnings from Real-life UK Trials

Presenter: Mr. Patrick Swinburne, Hydrogen Projects and Operations Lead, Baringa, USA

Hydrogen Vehicle Demonstrations

Presenter: Ms. Terri Johnson, Program Manager, Research and Innovation Program Manager, Research and Innovation, Alberta Motor Transport Association (AMTA), Canada

Poster Selection

Day 4, Thursday, 21 September 2023 | 10:00 - 11:45 | Poster Plaza Stage 3

Developments in Turquoise Hydrogen and Roadmap Towards Commercial Adoption

Presenter: Ms. Lily So, Process Engineer, Innovation, Hatch Ltd, Canada

Spera Hydrogen System for Massive H2 Storage and Transportation Using MCH-LOCH

Presenter: Mr. Yoshimi Okada, Fellow, Frontier Business Division, Chiyoda Corporation, Japan

Techno-economic-environmental Assessment of Centralized Versus Distributed Hydrogen Production to Support Heavy-duty Vehicle Fueling in Canada

Presenter: Mr. Hadi Shaker Shiran, Energy Systems Analyst, University of Alberta, Canada

Hydrogen Storage in Oman

Presenter: Mr. Al Mohanad Al Mahrouqi, Associate Production Technologist, Gulf Energy, Oman

Future for Hydrogen in Traditional Natural Gas Transportation & Storage Systems: A Study of Central Europe

Presenter: Mr. Jiří Gavor, Partner, ENA, Czech Republic

North American Hydrogen Highway

Presenter: Mr. Ryan McGeachie, Global Head of Energy Infrastructure and Commercial Operations, Nikola Corporation, USA

Pathways to Net-zero Heating in Edmonton Region: Electrification Vs. Hydrogen

Presenter: Mr. Brodie Chalmers, Manager, Hydrogen System Planning, ATCO, Canada



BLOCK 4

LEADERSHIP CHALLENGES IN TRANSITION

Forum 14 - Safety & Risk Management

Forum 15 - Cybersecurity

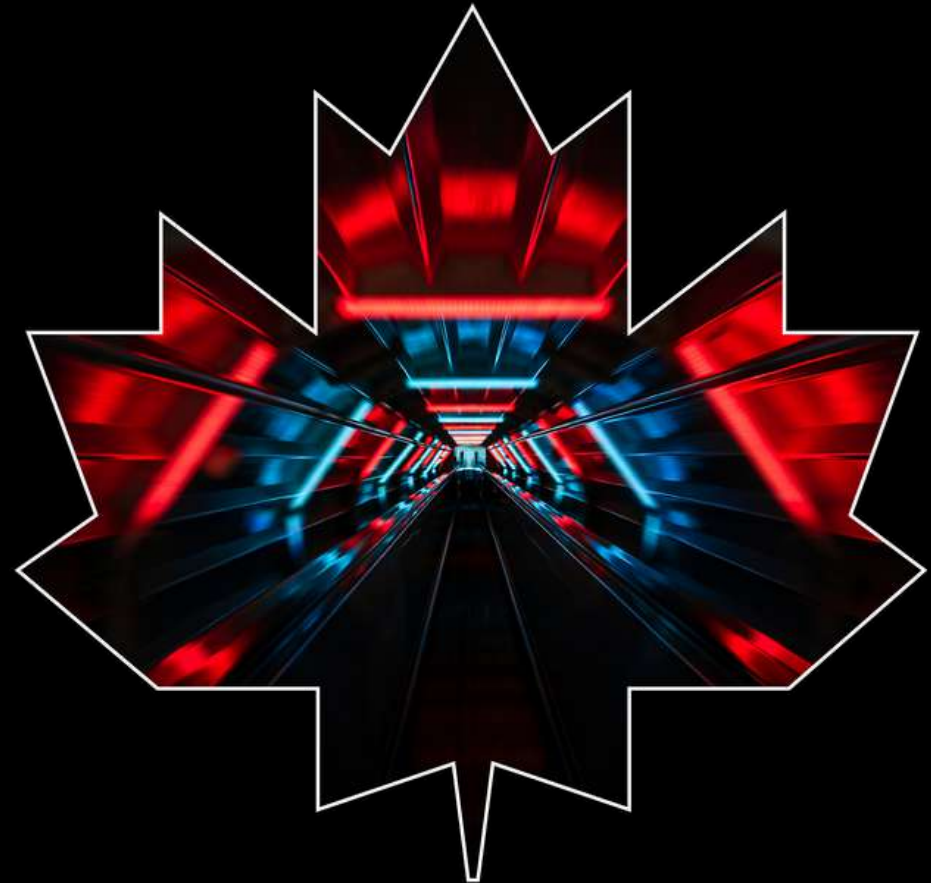
Forum 16 - Future Skills for an Evolving Workforce in
the Energy Transition

Forum 17 - Innovation & Partnerships in Supply Chains

Day 1, Monday, 18 September 2023 | 10:15 - 11:15 | Auditorium 3

BLOCK 4 Keynote Speaker

Mr. Lars Benjamin Vold, Managing Director, NORMA Cyber, Norway



Block 4 Forum 14

Safety & Risk Management

Safety of the people, assets and environment has always been and will continue to be the focus of the industry. Assessment of all the risks and uncertainties and the development of practical strategies is necessary to ensure highest safety standards and risk minimisation and mitigation. Achieving those objectives are dependent on training, quality data and robust workflow processes and robust and reliable procedures in place to identify, evaluate and address the broad variety of risks inherent in the oil and gas industry. In this forum we will look at best practices, increasing adaptation of innovation in technology, and strategies as requirements for highest level of safety and successful risk management as part of a good governance.

Forum Chair

Mr. Hans Kristian Danielsen, Senior Vice President, Business Development and Sales Enablement Director, DNV, Norway

Vice Chairs

Mr. Ashraf Al-Rashdi, Superintendent, EH&S, Saudi Arabian Chevron, Saudi Arabia

Prof. Weidong Du, Vice President, CNPC Research Institute of Safety & Environment Technology (RISE), China

Paper Selection

Day 2, Tuesday, 19 September 2023
10:15 - 11:15 | Auditorium 6

Optimization and Upgrade of CNPC HSE & Risk Management Based on 4 Key Elements

Presenter: Dr. Huiyuan Li, HSE Engineer, CNPC Rise, China

Identifying Potential Factors to Help Mitigate and Avoid Risks in Oil & Gas Projects

Presenter: Mrs. Caryn Fuller, Partner, HKA Global, USA

Digital Innovation to Simplify and Manage Risk Analysis Studies with Ease

Presenter: Mr. Girish Hingorani, Technical Account Executive, Cenosco BV, Canada

Poster Selection

Day 2, Tuesday, 19 September 2023 | 14:00 - 15:45 | Poster Plaza Stage 4

Effective Risk Management by Leveraging Technology - A Case Study ONGC

Presenter: Mr. Amit Kumar, Chief Risk Officer, Oil & Natural Gas Corporation Ltd India, India

Safety & Risk Management in Oil Pipelines

Presenter: Ms. Vicki Knott, CEO, CruxOCM, Canada

Center for Offshore Safety Efforts to Advance Offshore Safety

Presenter: Mr. Russell Holmes, Senior Director, Center for Offshore Safety, API, USA

Investment Challenges Affecting the Oil and Gas Industry

Presenter: Mr. Julio Arboleda, Fellow, Oil and Gas Program, King Abdulla Petroleum Studies and Research Center, Saudi Arabia

Block 4 Forum 15

Cybersecurity

The industrial world is becoming more digitally connected, resulting in smarter and more productive operations. With the increasing amount of data, internet-connected devices and automation, cybersecurity is a higher priority than ever. Being the largest industry in the world, oil and gas companies are a major target for cyberattacks. No organisation, regardless of size or industry, is immune to cyberattacks, and just one breach could cause significant catastrophic/safety financial, reputational or regulatory consequences. So, today's oil and gas industry needs more innovative and efficient ways to maintain security. This session will present how the oil and gas industry maintains safety, efficiency and capitalises on innovative, cost-saving technologies and big data without compromising security, operations and the environment.

Forum Chair

Ms. Catherine Loughlean, Principal Director, Canada National Resources Security Lead Accenture Security, Canada

Vice Chairs

Mr. Jean-Emmanuel Bieber, Principal Cybersecurity Officer, Siemens Energy, Grid Technologies, Norway

Mr. Javier Garcia Quintela, Chief Information Security Officer (CISO), Repsol, Spain

Paper Selection

Day 2, Tuesday, 19 September 2023
13:30 - 14:30 | Auditorium 5

The Challenges of Regulating Cyber Security in the Oil & Natural Gas Industry

Presenter: Ms. Suzanne Lemieux, Director, Operations Security & Emergency Response Policy, API, USA

Business Recovery Based on Value Chain

Presenter: Mr. Lars Idland, VP Security - CISO, Equinor ASA, Norway

Cyber Security - Road Ahead for Oil & Gas

Presenter: Mr. Parveen Kumar Yadav, Senior Manager – IS (Governance and Compliance), Hindustan Petroleum Corporation Limited, India

Pertamina Cybersecurity: A Journey from Zero to Hero

Presenters:

Mrs. Fitria Lisdiyanti, Assistant Manager, PT Pertamina (Persero)

Mr. Ahmad Firdaus, Sr. Analyst, Pertamina (Persero), Indonesia

Poster Selection

Day 3, Wednesday, 20 September 2023 | 10:00 - 11:45 | Poster Plaza Stage 4

OT Cybersecurity: Transformation as a Business Enabler

Presenter: Mr. Kyle Miller, Principal/Director - Global OT Cybersecurity Practice Lead, Booz Allen Hamilton, USA

6 Months to 6 Minutes: Real-World Incident Response Strategies to Reduce OT Cyber Impacts

Presenter: Mr. Bryan Singer, Principal Director - OT Incident Response, Accenture, USA

Reshaping Information Security Strategies: Challenges for Oil & Gas Sector in Contemporary and Post-Quantum Era

Presenter: Ms. Sanchali Nag, Senior Manager (Customer Digital Solutions) Retail, Bharat Petroleum Corporation Ltd., India

Modernising Critical Infrastructure Cybersecurity to Withstand Today's Cyberthreats: The Core Strategies & Technologies

Presenter: Mr. Morey Haber, Chief Security Officer, BeyondTrust, USA

Secure Lifecycle the ISA/IEC 62443 Way

Presenter: Mr. Christopher Fitzhugh, Principal ICS Security Consultant, Siemens Energy, Norway

Block 4 Forum 16

Future Skills for an Evolving Workforce in the Energy Transition

The new requirements and challenges facing the oil and gas industry, have become a major challenge for managers and employees in the oil and gas industry. The energy transitions and new product trends, as well as evolving employee expectations, are prompting our industry to reimagine the make up and performance of their workforces. Environmental responsibility, sensitivity to innovation and teamwork are coming to the forefront. The rapid development of technology dictates the need for new approaches to training and retraining, closer and more effective interaction between educational centers and the industry. The forum discusses some of the best practices and solutions to recruiting and retaining the best talent for the industry.

Forum Chair

Mrs. Sigrid Borthen Toven, Vice President, Subsurface Competence Center, Equinor, Norway

Vice Chairs

Ms. Momoyo Yuki, Senior Manager, Japan Petroleum Exploration, Japan

Mr. Walter Hufford, Vice President, North America Government and Regulatory Affairs, Repsol, United States

Paper Selection

Day 3, Wednesday, 20 September 2023
09:00 - 10:00 | Auditorium 4

The IBP Youth Committee and its Role in Building Bridges in the Brazilian Oil Industry

Presenter: Ms. Patricia Carneiro dos Santos, Manager, Petrobras, Brazil

The Energy Transition as a Catalyst for Workforce Development

Presenter: Mr. John Bolakas, Project Director and Energy Executive, Environmental Standards, USA

What Does it Take to Shape the Future of Energy?

Presenter: Ms. Karen Vorraa, Vice President, People, Culture and Performance, Equinor, Norway

Talent Development: Challenges and Opportunities in the Era of Energy Transition

Presenter: Mr. Riyadh Ali Al-Enezi, Team Leader-Technical Personnel Development Team, Kuwait Oil Company, Kuwait

Poster Selection

Day 3, Wednesday, 20 September 2023 | 14:00 - 15:45 | Poster Plaza Stage 4

Future of Work and Skills for the Oil & Natural Gas Industry

Presenter: Mrs. Rebecca Winkel, Senior Policy Advisor, API - American Petroleum Institute, USA

Citizen Developers - Empowering Innovation and Accelerating Digital Transformation

Presenter: Ms. Hadla Alfedaghi, Senior IT Infrastructure Engineer, KIPIC, Kuwait

Successfully Transitioning the Workforce to a Cleaner, Greener Future

Presenter: Mr. Eswar Jayaram, Analyst, Hatch Ltd., Canada

Developing Future Ready Workforce amid Imminent Energy Transition

Presenter: Mr. Kapil Gakhar, Chief Manager - HR, Hindustan Petroleum Corporation Limited (HPCL), India

Leadership & Culture Change 30, 300, 3000: Creating Talent to Value for NRE Business

Presenter: Ms. Mangaranap Rabehka Nathalia, Senior Analyst Human Capital Planning & Evaluation, Pertamina Persero, Indonesia

Research on Organizational Innovation & Leadership in the Digital Economy Era

Presenter: Ms. Jiaonan Han, Senior Engineer, Kunlun Shuzhi Technology Co. Ltd., China

Modernising Working Energy

Presenter: Ms. Gurpreet Lail, President and CEO, Enserva, Canada

Exploring Future Opportunities For The Next Oil And Gas Generation

Presenter: Ms. Ulrike Schopp, Chief of Staff, Ipieca, UK

Block 4 Forum 17

Innovation & Partnerships in Supply Chains

Sustainable, reliable, secure and cost-effective supply of materials, equipment, technology and services is critical for the oil and gas industry. The greening of the supply chain can promote sustainability and transparency. Relationships between sustainability and value creation will be a key issue to be tackled over the long term resulting in new business relationships with demonstrable sustainable strategies. Sustainable procurement considers the whole life cost of goods through Life Cycle Assessment, to ensure it is economical in a comprehensive manner rather than basing decisions primarily on price, quality and time. The forum will also look at new local content policies which are being introduced in many countries adding complexity and creating new business models for the oil and gas industry to secure the supply of energy required for the next decades.

Forum Chair

Mr. Ahmed AlZahrani, Director, Industrial Development & Strategic Supply Department, Saudi Aramco, Saudi Arabia

Vice Chair

Dr. Duan Zhaofang, Director, Natural Gas Research, CNPC Economics & Technology Research Institute, China

Paper Selection

Day 3, Wednesday, 20 September 2023
16:00 - 17:00 | Auditorium 5

Supply Chain Innovation & Sustainable Value Creation

Presenter: Mr. John O'Brien, Partner, Energy, Climate & Sustainability, Deloitte, Australia

Embedding ESG in Oil & Gas Supply Chains

Presenter: Mr. P.S. Murty, Executive Director - HSE (Corporate), Hindustan Petroleum Corporation Limited, India

A Green Supply Chain Integrated with Refinery & Petrochemical Complexes - A Novel Approach

Presenter: Mr. Srivardhan Grandi, Senior Manager, EIL, India

Poster Selection

Day 4, Thursday, 21 September 2023 | 10:00 - 11:45 | Poster Plaza Stage 4

How Sustainable Procurement Can Help Oil & Gas Companies Reduce Scope 3 GHG Emissions

Presenter: Ms. Jane Zhang, Co-CEO and Co-Founder, ETCH Sourcing, Canada

Decarbonizing the Full LNG Production Value Chain

Presenter: Mr. Iain Fraser, Engineering Consultant Oil & Gas, Hatch Ltd., Canada

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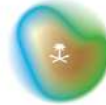
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