Technical Programme Sessions

**BLOCK 1**

**EXPLORATION AND PRODUCTION OF OIL AND GAS**

- **F 01** Exploration challenges – how to reduce risk
- **F 02** Unconventional hydrocarbon resource development North American phenomena or global opportunity?
- **F 03** Managing upstream mega projects
- **F 04** New technologies in production and development
- **F 05** Geoscience technology and innovation
- **F 06** IOR / EOR – maximising the development of mature fields

- **RT 01** Exploration and production cost efficiency – building resilience
- **RT 02** Bridging other industry technologies – impact on upstream
- **RT 03** Innovative collaboration: what’s next for IOCs, NOCs and service companies?
- **RT 04** Upstream portfolio development in cyclic business environments

**BLOCK 2**

**REFINING, TRANSPORTATION AND PETROCHEMISTRY**

- **F 07** Competitive refining technologies
- **F 08** Integration of the refining and petrochemical industry
- **F 09** Oils and products storage and transportation
- **F 10** New marketing approaches for delivering products to consumers
- **F 11** Products of the future

- **RT 05** Delivering successful downstream projects
- **RT 06** Asset Management in refining and petrochemicals
- **RT 07** Outlook of the downstream industries

**BLOCK 3**

**NATURAL GAS PROCESSING, TRANSPORTATION AND MARKETS**

- **F 12** Opening up new uses and applications for gas
- **F 13** Sustainable value chains for unconventional gas
- **F 14** Delivery of large scale gas projects
- **F 15** Best practices in the management of safe operation of gas assets

- **RT 08** Role of LNG in security of global energy supply
- **RT 09** Role of gas in the energy mix in a volatile world
- **RT 10** Gas from producer to market

**BLOCK 4**

**SUSTAINABLE MANAGEMENT OF THE INDUSTRY**

- **F 16** Knowledge management
- **F 17** Cyber security and new technology risks
- **F 18** Human resources - how to attract and retain talent in our industry
- **F 19** Energy poverty alleviation initiatives
- **F 20** HSE and operations integrity – keeping pace

- **RT 11** Geopolitics and global trends
- **RT 12** Ethics, compliance and business principles
- **RT 13** Perception of the petroleum industry by society
Our industry continues to make new oil and gas discoveries using advanced technologies and improved processes – enabling us to go deeper, more quickly, more accurately, and more safely than ever before. To do so, we must manage the uncertainty of geopolitical risks, economic risks, financial risks, geologic risks, project risks, policy risks, regulatory changes and the supply-and-demand volatility inherent to commodity markets. This Forum will discuss reducing risks in exploration - from regional geology, geophysical techniques and advances in high-speed drilling and completions to commercial and geopolitical risks in order to develop these resources in a safe, secure, and environmentally responsible way.

Chair: Mr. Erling Vågnes, SVP International Exploration, Statoil, Norway
Vice Chairs: Dr. Georg Bresser, Head of Department Portfolio & Planning Exploration, Wintershall, Germany
Ms. Stacey Weltmer, Exploration Manager, Europe-Caspian, ExxonMobil Exploration Company, UK

F01 Papers

The role of partnerships in reducing exploration risk
Ms. Lorna Campbell, Exploration Vice President, ExxonMobil, USA

Managing a portfolio of prospects
Talal Al-Adwani, Senior Geologist KOC, Kuwait
Co-authors: Muhammad Al-Ajmi, Abdulaziz Sajer, Haifa Al-Bader, Yousef Al-Salali, Sunil Singh, Waleed Morsy, Ahmad Al-Otaibi, Kuwait Oil Company, Kuwait, Khalid Al-Othainah, KUFPEC, Kuwait

A multidisciplinary approach to reduce hydrocarbon exploration risks in deep water turbidites, Ordu Fans, Eastern Black Sea Basin
Özbil Yapar, Geophysicist, Turkish Petroleum, Turkey
Co-authors: Özge Karaman, Kenan Yazar, Şükri Gökhan Köse, Ergin Karaca, Riza Özgür Temel, Şükri Selçuk İravul, Erhan Kansu, Tülin Kaplan Atasoy, Sezer Türk, Turkish Petroleum, Turkey

Can new seismic imaging technologies reduce exploration risks?
Kenan Erdoğan, Geophysicist, Turkish Petroleum, Turkey
Co-author: Suat Aktepe, Turkish Petroleum, Turkey

F01 Posters

Reconstruction of the petroleum system based on the integrated geochemical, petrophysical and geological investigation of outcrops and seepages in the outer carpathians in Poland
Prof. Irena Matyaik, Head of Geochemistry Labotatory, Oil and Gas Institute, Poland
Co-author: Grzegorz Lesniak, Oil and Gas Institute, Poland

Pore structure and petrophysical characterization of hamelin pool stromatolites and pavements, Shark Bay, Western Australia
Ergin Karaca, Reservoir Geophysicist, Turkish Petroleum, Turkey
Co-authors: Gregor Eberli, Ralf Weger, R. Pamela Reid, University of Miami, USA, Erica P. Suosaari, Bush Heritage, Australia
Integrated uncertainty quantification by probabilistic forecasting approach in undeveloped field

Saeed Sajjadian, Engineer, NIOC, Iran

Co-authors: Vali Ahmad Sajjadian; Ahmad Asheghi Hossein; Abolfazl Hashemi, NIOC, Iran

Analysis of hydrocarbon generation and migration and prospectivity of the Lunpola Basin, South-Central Tibetan Plateau

Dr. Liu Yiming, Student, China University of Geoscience, China

Co-author: Ye Jiaren; Cao Qiang, China University of Geoscience, China

Sulfur-heterocycles: Potential geotracer for crude oil migration assessment

Dr. Saroj Panda, Scientist, Saudi Aramco, Saudi Arabia

Co-author: Khaled Arouri, Saudi Aramco, Saudi Arabia

Drivers characterization on tilting oil-water contact in a giant oil state, Southwest of Iran

Amir Abbas Askari, Reservoir Modeler, RIPI, Iran

Co-authors: Seyedmahdia Motahari, Turaj Behrouz, RIPI, Iran

Application of off-line seismic in tight oil ‘Sweet Spot’ characterization

Yijun Zhou, Senior Geophysicist, BGP, CNPC, China

Co-authors: Yongming Wang, Zhengzhong Ruan, Wei Li, BGP, CNPC, China

F02- Unconventional hydrocarbon resource development - North American phenomena or global opportunity

Monday 10 July 16:15-17:45 (Hall 1)
Poster Session Tuesday 11 July 13:30-15:30 (Interactive Poster Plaza)

Oil and gas production from unconventional resources such as tight oil and gas, shale oil and gas and oil sands has made an enormous contribution to hydrocarbon production in North America. Development of similar resources has been very slow outside North America. This forum will address the contributions from unconventional oil and gas to world supply today and future potential, the technologies, government policies and public engagement that have made this possible, and the lessons learned for other parts of the world planning to turn their unconventional resource opportunity into reality.

Chair: Anthony Marino, President and CEO, Vermilion Energy, Canada
Vice Chairs: Hafiz Al-Shammery, Manager, Northern Arabia Unconventional Gas Asset Dept, Saudi Aramco, Saudi Arabia
Mrs. Melissa Stark, Managing Director and Global Unconventional Resource Development Lead, Accenture, UK

F02 Papers

Development of unconventional oil resources in a low price environment : What strategy ?

Phillippe Carlez, VP, Unconventional Development, TOTAL, France

Co-author: Pierre Delfiner, PetroDecisions, France
Vincent Bordmann, TOTAL, France

Saudi Arabia’s Unconventional Program in the Jafurah Basin: Transforming an Idea to Reality with the Jurassic Tuwaiq Mountain Formation

Ahmed Almubarak, Team Leader, Saudi Aramco, Saudi Arabia

Co-authors: Ahmed Hakami, Exploration; Saudi Arabia
Ivan Leyva, Exploration; Colombia
Clay Kurison, Exploration; USA
Status and tendency of engineering technology in shale gas development within SINOPEC

Baoping Lu, President, SINOPEC Research Institute of Petroleum Engineering, China

Co-authors: Shidong Ding, Guangjun Ma, SINOPEC, China

Unconventional shale and tight reservoirs of Argentina. Opportunities and challenges

Prof. Luis Stinco, Professor, University of Buenos Aires, Argentina

Co-author: Silvia Barredo, University of Buenos Aires, Argentina

Latin American unconventional resources: How to turn opportunities into reality

Juan Miguel Moyano, Upstream Director, ARPEL, Uruguay

Co-authors: Ana Cristina Sanchez Thorin, Equion; Francisco Grosse, Tecpetrol; Pietro Milazzo, Weatherford; Stephen Wharton, Tecpetrol; Emmanuel D’Huteau; Gonzalo Lopez Nardone, YPF

F02 Posters

Southern Sichuan - A large shale gas region with a annual productive capacity of 30 billion cubic meters is emerging

Guo Wei, Director, RIPED, China

Co-author: Liu Honglin, RIPED, China

Surface factors for break-even economics -hiding in plain sight!

Manas Satapathy, Managing Director, Accenture Strategy, USA

Co-author: Muqsit Ashraf, Accenture Strategy, USA

The impact of shale, fundamentals and geopolitics on the crude oil imports mix: Analysis of three key countries

Bosco Marten, Student, Comillas University, Spain

Co-author: Jose Arroyo, University Autónoma de Madrid, Spain

Exploration of unconventional oil shale resources in Iran: New advantages towards future potential

Mehrab Rashidi, Head of Geochemistry Studies and Researches Department, NIOC, Shahid Chamran University, Iran

Co-authors: Ali Shekari Frad, Tehran University, Iran; Manouchehr Daryabandeh, NIOC, Iran; Mustafa Versay Kok, METU, Turkey; Bahram Alizadeh, Shahid Chamran University, Iran; Alireza Tahmasebi Sarvestani, NIOC, Iran

Results of unconventional reservoirs completion in Poland

Dr. Kasza Piotr, Department Manager, Oil and Gas Institute, Poland

Co-authors: Mariusz Dziadkiewicz, Polish Oil and Gas, Poland; Piotr Kenar, Orlen Upstream, Poland

Emerging shale plays of Turkey

Hasan Armağan Derman, Unconventional Resource Manager, Turkish Petroleum, Turkey

Co-authors: Cem Karataş; Ayşe Güzel; Sezer Sevinç, Turkish Petroleum, Turkey
Driven by the need to have access to new reserves, oil companies are increasingly investing in fields that are very challenging technologically and commercially, such as Arctic or deep water projects. The investment and continuing expenditure needed to develop and produce from these fields puts them in the realm of ‘megaprojects’, costing US$5 billion or more. This forum will address execution risks and challenges related to delivering profitable megaprojects.

Chair: Mag E. O’Neill, Vice President, ExxonMobil Development Company, USA
Vice Chairs: Dr. Chen Bi, Vice President, CNOOC, China
Zhakyp Marabayev, Deputy Managing Director, North Caspian Operating Company, Kazakhstan

F03 Papers

Advances in project leadership to meet the challenges of Mega-Projects
Toru Sogimoto, Corporate HSE Manager, JGC, Japan
Co-authors: Akira Kondo, JGC, Japan
Mike Goddu, JMJ Associates, Singapore

Managing fast track contract for handling high water cut in Kuwait Oil Company (KOC) - Challenges and approach
Parvez Hanif, Senior Contracts Engineer, KOC, Kuwait
Co-author: Mamoon Al-Ghawas, KOC, Kuwait

Arkutun-Dagi field development
Greg Russell, Senior Project Manager, ExxonMobil, USA

Project-to-asset: Smooth transition to operation. Operational readiness assurance
Gabriele Picheo, Senior Consultant, Jacobs Consultancy, Netherlands
Co-author: Wayne Grant Reed, Jacobs Consultancy, UK

F03 - Posters

Mastering technological and organizational challenges with effective project management: An exemplary view on the Mittelplate Beta South development project
Heiner Krueger, Senior Project Scheduler, DEA AG, Germany
Co-author: Thomas Flemming, DEA AG, Germany

Developing a geographical information system for managing CO2 sources and geological sinks for CO2 storage in Iran
Hossein Zangeneh, Researcher, RIPI, Iran
Co-author: Mohammad Parvazdavani, RIPI, Iran

The comprehensive adjustment innovation and practice of offshore complex fluvial heavy oil field
Su Yanchun, Chief Reservoir Engineer, CNOOC, China
As hydrocarbons get tougher to find and extract, innovation and new technologies play an important role in becoming more efficient and cost-effective. Business necessities and advanced technologies that could drive changes to lower energy intensity for oil and gas production, operational integrity and intelligent field technologies, unconventional field development and reservoir recovery enhancement will be of importance. This forum will address the role of new technologies in production and development to overcome future challenges in finding, exploiting and commercializing oil and gas.

Chair: Prof. Elmira Ramazanova, Director, Scientific-Research Institute Geotechnological Problems of Oil, Gas and Chemistry, Azerbaijan

Vice Chairs: Narendra Kumar Verma, Managing Director and CEO, ONGC Videsh, India
Prof Abdulhameed Al-Hashem, Director General, Petroleum Research Center (PRC), KISR, Kuwait

**F04 Papers**

**Simulations & challenges of ESP application in high-GOR wells at South East of Turkey**
Mrs. Muhlise Basak Buluttekin, Production Engineer, TransAtlantic Petroleum, Turkey
Co-authors: Burcu Ulusoy, Darcy Dorscher, TransAtlantic Petroleum, Turkey

**Enhancing recovery of oil using nano particles- An overview**
Ms. Shuna Sharma, Engineer, AEE, ONGC, India

**Unconventional dry heat recovery enhancement of Wafra-Eocene using conventional temperatures**
Dr. Waleed Al-Bazzaz, Associated Research Scientist, KISR, Kuwait
Co-authors: Abdulrahim Kamei; Abbas Talal; Khalifa Buresli, KISR, Kuwait

**Simulation of Gel injection, Oil barrier and DWS methods in Water Coning Prevention in a conventional and tight reservoir**
Masoud Riazi, Associate Professor, Shiraz University, Iran
Co-authors: Soroush Salmanpour, Department of Petroleum Engineering, School of Chemical and Petroleum Engineering, Shiraz University, Shiraz, Iran
Roozbeh Banaki, Mohammad Reza Malayeri, Enhanced Oil Recovery (EOR) Research Center, School of Chemical and Petroleum Engineering, Shiraz University, Shiraz, Iran

**F04 Posters**

**Research study of microbial processes converting residual oil into methane in depleted oil field for enhanced hydrocarbon recovery**
Haruo Maeda, Technical Advisor, INPEX Corporation, Japan
Co-authors: Tatsuki Wakayama, Masayuki Ikarashi, Hideharu Yonebayashi, INPEX, Japan
Daisuke Mayumi, Satoshi Tamazawa, Hideyuki Tamaki, Susumu Sakata, Yoichi Kamagata, Advanced Industrial Science and Technology
Noriko Osaka; Takeshi Iida, Tokyo Gas, Japan

**Some aspects of the development oil fields**
Prof. Tulparkhan Salavatov, Chief of Reservoir Engineering, Azerbaijan State Oil and Industry University, Azerbaijan
Co-authors: Elmira Ramazanova, SRI of Geo-technological problems of Oil and Gas and Chemistry, Azerbaijan
Rafael Mammadzade, Aziz Mammadov, Azerbaijan State Oil and Industry University, Azerbaijan
Petroleum Economic Evaluation – Usage of technology to make smart E&P decisions
Thomas Kesl, SAP, UK
Co-authors: Arif Abdullah, SAP, Germany
Surendra Jajal, SAP, UAE
Stephan Klein, SAP, Germany
Krishanu Bhattacharya, Senior Vice President, SAP, UK

Real time prediction of the rheological parameters of NaCl water-based drilling fluid using artificial neural networks
Dr. Salaheldin Elkatatny, Assistant Professor, King Fahd University of Petroleum and Minerals, Saudi Arabia

The SINOPEC’s new development in Ultra-Deep Drilling technologies
Jinshuang Zhang, Director, SINOPEC, China
Co-authors: Xinming Niu; Lianzhong Sun, SINOPEC, China

From domestic tar sand and heavy oils to middle distillates: SCH2O as an alternative upgrading technology
Ramazan Oğuz Canıaz, R&D Superintendent, TÜPRAS, Turkey
Co-authors: Serhat Arca, TÜPRAS, Turkey
Can Erkey, Koç University, Turkey

Deriving efficient operations and production uplift through advances in technology
Dr. Dayo Oyerinde, Research Manager, ExxonMobil, USA

Deterministic fracture network modeling by super resolution microseismic imaging and its impacts on fracturing design, a case study of Eagle Ford shale
Dr. Yusuke Kumano, Research Manager, JAPEX, Japan
Co-authors: Mamoru Nakata; Tetsuya Tamagawa, JAPEX, Japan

Evaluation of Reservoir Dynamic Connectivity Based on Drainage Area Estimation
Dr. Abdulaziz Al-Qasim, Petroleum Engineer, Saudi Aramco, Saudi Arabia

The Feasibility Appraisal for CO2 Enhanced Gas Recovery of Tight Gas Reservoir: Case Analysis and Economic Evaluation
Ying Jia, Senior Engineer, E&P Research Institute, SINOPEC, China
Co-authors: Yunqing Shi, Lihong Yang, Yeqian Huang, Xiuzi Wang, E&P Research Institute, SINOPEC, China

F05 – Geoscience technology and innovation

Wednesday 12 July 14:15-15:45 (Hall 1)
Poster Session Thursday 13 July 11:00-13:00 (Interactive Poster Plaza)
This forum will address innovations and technology development within the geoscience area from outcrops to assets, ranging from exploring hydrocarbons to effective production. The challenge is to develop cost-effective and environmentally friendly technologies that tackle issues such as seismic imaging advances, hydrocarbon phase prediction, complex reservoirs, rock mechanics, reservoir management and production forecasting to improve the industry’s ability to predict.

Chair: Saleh M. Saleh, Manager, Area Exploration, Saudi Aramco, Saudi Arabia
Vice Chair: Dr. Michael Peter Suess, Head of Subsurface Technology and Innovation, Wintershall, Germany

F05 Papers

Seismic acquisition and imaging in Saudi Aramco: Challenges and opportunities
Saleh Almaghlouth, Manager, Saudi Aramco, Saudi Arabia
Modelling and optimization technologies - A competitive edge in hydrocarbon recovery
Robert Kleibergen, Programme Director PetroSigns, Shell, Netherlands

Assessment of facies distribution in carbonate fields using stratigraphic forward, diagenetic and seismic modelling
Dr. Didier Granjeon, Project Leader, IFPEN, France
Co-authors: Cedric Pellan, Repsol CTR, Spain
Mickael Barbier, IFPEN, France

Predicting the impact of natural fractures on reservoir performance
Ms. Sarah R. Pietraszsek-Mattner, Exploration Manager, ExxonMobil Exploration Company, USA
Co-authors: James W. Barron, PhD, Rodrick D. Myers, PhD, Jean-Christophe Sempere, ExxonMobil Upstream Research, USA
David J. Moreton, PhD, ExxonMobil Exploration Company, USA

F05 Posters
Application of prestack inversion in hydrocarbon detection of fracture-vuggy carbonate driven by Rock Physics modeling
Qiang Xian, Engineer, BGP, CNPC, China
Co-authors: Xukui Feng, Yonglei Liu, Dong Lv, Zujun Wang, Lei Wang, Chenguang Zhou, BGP, CNPC, China

Know what is down there! – LWD formation testing and sampling improves reservoir understanding while drilling
Dr. Svenja Erdmann, Geoscientist, Baker Hughes, Germany
Co-authors: Nicklas Ritzmann, Ansgar Cartellieri, Jos Pragt, Tobias Kischkat, Baker Hughes, Germany

Treatment of near surface heterogeneities
Dr. Abdulaziz Almuhaidib, Research Geophysicist, Saudi Aramco, Saudi Arabia

Application of artificial intelligence to develop a new empirical correlation for unconfined compressive strength of carbonate reservoirs
Dr. Salaheldin Elkatatny, Assistant Professor, King Fahd University of Petroleum and Minerals, Saudi Arabia

Determination of gas reservoirs by passive seismic methods in the Thrace Basin (northwestern Turkey)
Mrs. Burcu Selek, Geophysical Engineer, Turkish Petroleum, Turkey
Co-authors: Bülent Kaypak, Ankara University, Turkey
Saït Baytok, Can Önen, Turkish Petroleum, Turkey

Evaluation of laminated shaly sand sequences in Iranians oil field using (via) High Resolution Square Logs
Saeed Parvizi Ghaleh, Student, Sahand University of Technology, Iran
Co-authors: Ali Kordavani, Yahya Qanbari, NISOC, Iran

From 3D outcrop models to reservoir models
Julien Schmitz, Technician Geologist, IFPEN, France
Co-authors: Philippe Joseph, Olivier Lerat, Brigitte Doligez, Youri Hamon, Jean Marie Mengus, IFPEN, France
Bertrand Coureaud, ENGIE, France
Deschamps Remy, Philippe Joseph, Olivier Lerat, Brigitte Doligez, Youri Hamon, Jean Marie Mengus, IFPEN, France

Seismic interpretation of the deeply buried, intensely cemented reservoir sandstones
Ms. Aurelia Zając, Research assistant, AGH University of Science and Technology, Poland
Co-authors: Tomasz Maćkowski, Wojciech Górecki, AGH University of Science and Technology, Poland

Technical challenges and geological hazards while drilling in salt doms
Dr. Pedram Rafiee, Chief Geologist, Dana Energy, Iran
Co-author: Vahid Daneshkhah, Dana Energy, Iran
Nano-capillary measurement through “Big Data” pore scale imaging
Dr. Waleed Al-Bazzaz, Associated Research Scientist, KISR, Kuwait
Co-Author: Abdulaziz Al-Mukaimi, KISR, Kuwait

F06 – IOR / EOR – maximising the development of mature fields

Wednesday 12 July 16:00-17:30 (Hall 1)
Poster Session Thursday 13 July 13:00-15:00 (Interactive Poster Plaza)

More than 70% of the world's remaining conventional reserves are contained in fields that are already in production. The industry is faced with developing and implementing profitable technologies and solutions to extract more oil from these mature oil fields. This forum will provide practical examples of how successful IOR and EOR in combination with new reservoir-management techniques and technologies, production optimization, drilling and side-tracking, and facilities can enhance recovery and increase efficient management of mature fields in a cost effective way.

Chair: Dr. Tomomi Yamada, General Manager, Iraq Project Dept, Middle East, Africa and Europe Div., JAPEX, Japan
Vice Chair: Robert Kleibergen, Programme Director PetroSigns, Shell, Netherlands
Dr. Torsten Clemens, Senior Reservoir Engineer Adviser, OMV E&P, Austria

F06 Papers

Optimization of recovery in waterfloods with bang-bang control in reservoirs with subsidence and uplift
Mrs. Gülcan Türkerslan, Reservoir Engineer, Schlumberger, Turkey
Co-author: Cenk Temizel, AERA (Shell-ExxonMobil JV), USA
Önder Saraçoğlu, Energeyes Consultancy, USA
Taskin Sen, RTC Kimya, Turkey

History of a commercially successful gas-based IOR in Japan: 12 years’ challenge on maximizing the profit of offshore oil and gas field by optimizing allocation of gas volume between sale and injection
Shinichi Koshi, Reservoir Manager, JAPEX, Japan
Co-authors: Takafumi Yamakawa, Yoko Takahashi, Fumiya Sugita, Ryo Ueda, Koji Hosokoshi, JAPEX, Japan

The study and pilot on heterogeneous combination flooding system for high recovery percent of reservoirs after polymer flooding
Prof. Xulong Cao, President, RIPED, SINOPEC, China
Co-authors: Lanlei Guo, Hongyan Wang, Cuihua Wei, Yu Liu, SINOPEC, China

Nanosilica based fluid system for water shut-off
Ayman Almohsin, Petroleum Engineer, Saudi Aramco, Saudi Arabia
Co-authors: Jin Huang; Prasad Karadkar
Mohammed Bataweel, Saudi Aramco, Saudi Arabia

F06 Posters

Research progress and applications of EOR techniques in SINOPEC
Prof. Bingyu Ji, Chief Engineer, Petroleum Exploration &Production Research Institute, China
Co-authors: Youqi Wang, Hongmin Yu, Li Zhang, Jun Nie, Qiang Wang, Petroleum Exploration & Production Research Institute, China

Successful experiences in Brownfields Rejuvenation in Mexico. Maximizing the value of mature producing assets
Alberto Ochoa, E&P Technical Manager, DIAVAZ, Mexico
Co-Authors: Silvano Dalessio, Luis Zagaglia, DIAVAZ, Mexico
Open multi-scale carbonate geological model for enhancing IOR/EOR workflows

Dr. Alexander Darishchev, Postdoctoral Research Associate, Texas A&M University, Qatar

Co-authors:
- Dominique Guerillot, Texas A&M University, Qatar
- Jérémie Bruyelle, Terra3E, Qatar

A novel characterization and optimization workflow for waterflooded reservoirs: Interwell connectivity mapping & production optimization

Mustafa Erkin Gozel, Reservoir Engineer, Turkish Petroleum, Turkey

Co-author:
- Serhat Akın, METU, Turkey

A successful ASP pilot implementation in Caracara Sur oil field: an integrated and multidisciplinary project

Jesús Montes, EOR Technical Coordinator, CEPSA E&P, Spain

Co-authors:
- Enrique Yuste, Hernando Mayorga, Sergio Andrés Bonilla, Guillermo Quintanilla, CEPSA, Spain

Assessment of EOR chemicals back-production possible impact on upstream facilities

Dr. Abdulkareem AlSofi, Petroleum Engineer, Saudi Aramco, Saudi Arabia

Co-authors:
- Gusai AlAithan, Ali AlKhatib, Hassan AlAjwad, Qiwei Wang, Badr AlZahrani, Alhasan Fuseni, Saudi Aramco, Saudi Arabia

Nanoparticles for EOR purposes: State of art, opportunities and challenges

Masoud Riazi, Associate Professor, Shiraz University, Iran

Co-authors:
- Y. Kazemzadeh, M. Sharifi, Amirkabir University, M. Reza Malayeri, Shiraz University, Iran

In-Situ combustion site test in Xinjiang Oil Field

Kanni Zhati, Field Engineer, CNPC, China

Co-authors:
- Long Chen, Jingjun Pan, Ruyan Wang, Gang Cai, Jianjun Liang, Xiao Song, Lin Ji, CNPC, China

Techno-economic-environmental-safety analysis on solar thermal EOR vis a vis conventional EOR: A case study on value engineering

Ajay Kumar, Superintending Engineer, ONGC, India

Co-authors:
- Gaurav Dubey, Anoop Yadav, YC Shukla, ONGC, India

Round Tables

RT1 – Exploration and production cost efficiency-building resilience

Monday 10 July 15:15-16:15 (Hall 1)

During the past 30 years there have been three major cycles of a sharp run-up in world crude oil (and gas) prices followed by a steep decline. In such a volatile environment, a strategy focused on being a low cost producer can be critical in building the resiliency and sustainability of the business. This roundtable will discuss learnings from companies and projects that have taken extraordinary steps to capture efficiencies in capital expenditures and operating expenses to reduce supply costs and to improve operating margins

Moderator:
- Tor Fjaeran, Vice President of Programme

Panelists:
- Dr. Ali Misaghi, Managing Director and Chairman, Tavana Energy, Iran
- Dirk Warzecha, COO, DEA Deutsche Erdöel AG, Germany
- Juan Miguel Moyano, Upstream Director, Arpel
**RT2 – Bridging other industry technologies**

**Tuesday 11 July 12:00-13:00 (Hall 1)**

This roundtable will be about learning from other industries by sharing experiences, new technologies and best practices, and by approaching the issues in a new and alternative way. Innovative industries as for example pharmaceutical, automotive, aerospace, banking and IT are all facing and addressing challenges somewhat similar to the petroleum upstream industry. Close cooperation across industries has and will continue to generate new ways of solving problems and stimulate innovative solutions beneficial to more than just one industry.

**Moderator:** Eric Koenig, VP, O&G Strategy & Marketing, Schneider Electric, France

**Panelist:**
- Nabeel AlAfaleg, Chief Petroleum Engineer, Saudi Aramco, Saudi Arabia
- David Brower, President and CEO, Astro Technology, USA
- Philippe Audrain, Business Development and Sales Director, Energy Process & Utilities, Dassault Systems, France
- Olivier Benyessaad, Offshore Business Development Manager, Bureau Veritas, France

**RT4 – Upstream portfolio development in cyclic business environments**

**Thursday 13 July 12:00-13:00 (Hall 1)**

Oil price volatility is very challenging for the industry. A low oil price environment demands a focused approach based on high quality decision making in order for companies to maximize returns and achieve their performance targets. Success requires recognition of uncertainty and practical strategies for the minimization or mitigation of risk to ensure delivery of projects within budget and to generate predictable cash flows. This roundtable will be a discussion around issues such as creating portfolio robustness and development, balancing short and long term value and shareholders perspectives.

**Moderator:** Graham Talbot, Executive Vice President & CFO, Maersk Energy Division, Denmark

**Panelists:**
- Emma Cochrane, Vice President, Upstream Strategic Planning – Upstream Companies, Exxon Mobil, USA
- Rob Hull, Director of Technology - Global Technical Solutions, Halliburton, USA
- Adi Karev, Partner, Global Sector Leader, Oil & Gas, Ernst&Young, Hong Kong
This Forum focuses on improving the economics of refinery processes in order to make them more competitive. This can be done in particular through energy savings and efficient feedstock utilization. Both are strongly related to improved catalysts and optimized separation steps (distillation, molecular sieve separation or membrane separation, process intensification). The Forum will also showcase optimization of processes with respect to matching the product yields and specifications with the market demands, based on the feedstock available. Typical examples are gasoline vs. diesel yield, octane number, sulphur and hydrogen management etc.

Chair:  
Prof. Meena Marafi, Executive Director - Petroleum Research Center, KISR, Kuwait

Vice Chair:  
Dr. Carl Mesters, Chief Scientist Catalysis & Chemistry, Shell International Exploration & Production, USA

F07 Papers

Impact of crude oil quality on downstream refining processes  
Dr. Abdulazim Marafi, Senior Researcher, KISR, Kuwait

From solution to commercial hydrocracking unit: A successful catalyst development story  
Dr. Omer Koseoglu, Principal Professional, Saudi Aramco, Saudi Arabia

Homogeneous catalysis as a promising route to reduce bottom of the barrel  
Madan Kumar Kumaravelan, Senior Engineer, Hindustan Petroleum, India

Posters

Reduction of coke yield in Delayed Coking process through use of additive  
Hari Venkata Devi Prasad Terapalli, Deputy Manager, Indian Oil Corporation, India

Maximizing diesel and hydrogen in refinery with minimum CAPEX  
Tirupati Naidu Avu, Chief Manager, Hindustan Petreloum, India

Identifying opportunities in Petrochemical plants through data analysis – A Case Study  
Dr. Prasanna Pathath, Staff Scientist, SABIC, Saudi Arabia

New advances in ULSD producing  
Dr. Rong Guo, Professor, SINOPEC, China
Low-grade Diesel Hydro-upgrading and LCO Hydro-conversion technology
Dr. Chong Peng, Senior engineer, SINOPEC, China
Co-authors: Ronghui Zeng; Xinliu Huang; Yanze Du; Rong Guo; Xiangchen Fang, SINOPEC, China

Heavy crude oils compositional characterization using comprehensive two-dimensional gas chromatograph; a tool for improving refining processes
Dr. Hassan Al-Rabiah, Associate Research Scientist, KISR, Kuwait
Co-authors: Latifa Al-Ostad; Abdullwahab Al-Hendi; Tahani Al-Shamary; Hisham Al-Henayyan; Roaya Khazemi, KISR, Kuwait

Commercial Operation Result for Chiyoda Thoroughbred Hybrid Titania (CT-HBT) Catalyst for Hydrodesulfurization
Satoshi Morikami, Refinery, Petrochemical & New Energy Unit General Manager, Chiyoda Corporation, Japan
Co-authors: Yasuhiro Ueda; Yukitaka Wada; Dai Takeda; Akihiro Muto, Chiyoda Corporation, Japan; Kazutomo Yamura; Yusuke Segawa, Seibu Oil, Japan

Preparation and characterization of modified PVA/Chitosan/Glutaraldehyde membrane with TiO2 nanoparticles for pervaporation of benzene/cyclohexane mixture
Ms. Nasrin Alijan Beikzand, Expert, OIEC, Iran

How to find more markets for your GTL diesel
Mostafa Shahin, Lead Process Engineer, ORYX GTL, Qatar

C9 side stream utilization
Ms. Mónika Péter, Product Development Engineer, MOL Group, Hungary

F08 – Integration of the refining and petrochemical industry

Monday 10 July 16:15-17:45 (Hall 2)
Poster Session Tuesday 11 July 13:30-15:30 (Interactive Poster Plaza)

Integrating refining and petrochemical sites will help fight volatility in the petroleum value chain. If properly planned and implemented, integration not only diversifies the product portfolio, but reduces site specific costs, increases capital efficiency and increases returns. This Forum will demonstrate through practical case studies how the strategic planning of aromatics/fuels/olefin conversion units with a common utility management system capture long term business benefits.

Chair: Miika Eerola, Group Production SVP, MOL Group, Hungary
Vice Chairs: Oscar Chamberlain, R&D Downstream Manager, Petrobras, Brazil

Gandham Sriganesh, Executive Director, Visakh Refinery, Hindustan Petroleum Corporation, India

F08 Papers

From crude oil to steam cracker: how petrochemical naphtha quality drives the simultaneous refinery and petrochemicals optimization
Balázs Balaskó, Group Modelling Manager, MOL Group, Hungary

Integration of refinery and petrochemicals with “over the fence” supply of gas utility molecules at Bharat Petroleum Corporation, India
Prasad Panicker, Executive Director, Bharat Petroleum, India
Co-author: Chacko Jose, Bharat Petroleum; India
Strategic expansion for petrochemical generation via valorization of low value streams in refinery: Case Study

Vineet Bakshi, Deputy Process Manager, Engineers India, India
Co-authors: Anil Kumar, Manoj Kumar, Engineers India, India

FCA (Fluid Catalytic Aromaforming): A newcomer to processes for producing BTX

Yasuyuki Iwasa, Assistant Manager, JXTG Nippon Oil & Energy, Japan
Co-author: Soichiro Takano, Chiyoda Corporation, Japan

F08 Posters

FCC as a gateway for Refining/petrochemical Integration

Srivardhan Grandhi, Senior Engineer, Engineers India, India
Co-authors: Rajasekhar Mallaramu, Rajeev Nambari, S. C. Gupta, Sheoraj Singh, Vartika Shukla, Engineers India, India

Maximisation of P-Xylene yield in integrated refinery &petrochemical complex using nonlinear regression and statistical analysis

Srinivas Moturi, Deputy Manager Mangalore Rafinery&Petrochemicals Limited (MRPL), India
Co-authors: Satyavaraprasad Ganji, Mangalore Refineries and Petrochemicals, India
Deepthi Chowdary Upputuri, ONCS Mangalore Petrochemicals Limited (OMPL), India

Cold oil absorption technology for recovery of refinery dry gas

Jingsheng Zhang, Senior Engineer SINOPEC, China
Co-authors: Dongfeng Li, Jianmin Cheng, Lihua Liao, Liang Guo, Zhixin Liu, SINOPEC, China

Fuel and Light Olefins Production by Catalytic Cracking of Atmospheric Distillation Residue over Modified Zeolite

Dr. Mohammed Al-Kinany, Expert, King Abdulaziz City for Science and Technology, Saudi Arabia
Hamid Almegren, Bandar Al-Hudaib, Abdulaziz Al-Gashem, Ali Algarni, Khalid Alshamrani, Sami Al-Zahrani, King Abdulaziz City for Science and Technology, Saudi Arabia
Peter Edwards, Tiancun Xiao, University of Oxford, UK

Restoring gases emission with approach of CO2 capture ;( Case Study: Petrochemical & Refineries in PSEEZ)

Dr. Ali Rahneshin, Senior Foreign Purchasing, Borzouyeh Petrochemical Complex (BPC), Iran
Co-authors: Peyman Razmjoo, Korosh Pakbin, Borzouyeh Petrochemical Complex, Iran

Research and performance analyses of FAU-structured zeolites during alkylation of isobutane by olefins

Ms. Aygyul Shadrina, Student, Ufa State Petroleum Technological University, Russia
Co-authors: Artur Davletshin, Rishat Shiriyazdanov, Institute of Petroleum Refining and Petrochemistry, Russian Federation
F09 – Oils and products storage and transportations

Tuesday, 11 July 14:15-15:45 (Hall 2)
Poster Session Wednesday 12th July 11:00-13:00 (Interactive Poster Plaza)

The Forum will discuss the best practices in cross-border pipeline management considering the safety and reliability factors. It will also include subsea pipelines, storage systems, maritime transportation, and tanker terminals. The Forum will look into the impact of storage capacities and locations on local processing capacities. The ultimate target of this Forum is to share ideas on facilitating transportation from the producers to the consumer markets.

Chair: Liv Hovem, Director of Division Europe and Africa, Oil & Gas, DNV - GL, Norway
Vice Chairs: Anand Kumar Tewari, Executive Director, Indian Oil Corporation, India

Papers

Optimum transportation method for development of extra heavy crude oil
Tomoki Kayukawa, Senior Research Engineer, JGC, Japan
Co-authors: Hisato Aoyama; Takayoshi Fujimoto, JGC, Japan

Optimized products inventory for improved working capital management
Shailendra Mohite, Senior Engineer, Kuwait Petroleum International, Kuwait

Strategic petroleum reserves: An energy security initiative of India
Dr. Ranjit Rath, Assistant General Manager, Engineers India, India
Co-authors: Amanpreet Chopra; Atul Nanda, Engineers India; HPS Ahuja, Indian Strategic Petroleum Reserves, India

Experimental investigation of two phase flow in horizontal pipes: Oil-water and oil-polymer, flow regime assessment and pressure drop modification
Reza Shams, Student, Sharif University of Technology, Iran
Co-author: Saeed Shad, Sharif University of Technology, Iran

F09 Posters

A case of operating a pipeline susceptible to fatigue failure of Double Submerged Arc (DSAW) long seam
S S Gupta, Deputy General Manager, Indian Oil, India
Co-author: Santosh Kumar A R, Indian Oil, India

Research on distributed fiber pre-warning system based on coherent rayleigh for pipelines
Yunbin Ma, Department Manager, Petrochina, China
Co-authors: Yan Zhou; Dongjie Tan; Xiaozhong Tian, Petrochina, China

HP gelators and hydrophobic soft materials - A potential solution for oil spillage remediation and recovery
Dr. Ravishankar Raman, Chief Manager, Hindustan Petroleum, India
Co-authors: Siva Kesava Raju Chinthalapati, Peddy V. C. Rao, Gandham Sriganesh, Ramesh Kandanelli, Hindustan Petroleum, India
Ram Kumar Mangala; Bhaskar Pramanik, HP Green R&D Center, India

With the application of new technology and management methods to ensure the safety of oil and gas pipeline operation
Weibin Wang, Senior engineer, Shenyang Longchang Pipeline Survey Center, China
The oil industry foresees major changes to approach customers. This Forum will look at the integration between trading and refining activities, with oil companies looking for asset-backed trading whilst traders are gaining importance as new refining and retail players. New independent companies are also appearing in the retail business with new business models. The importance of the non-oil business is growing in service station networks, whilst low-cost models are increasing their market share. Additionally, Big Data management enables new delivery and marketing strategies, developing personalized promotions. The retail business also faces the challenge to integrate the traditional service station networks with new model developments, making room for alternative fuels for vehicles.

Chair: **Lourdes Rodríguez**, Executive Director Trading and Gas & Power, Repsol, Spain  
Vice Chair: **Jan (Williem) Van Der Bremen**, Senior Managing Director, Accenture, Netherlands

**Papers**

**Beyond the product**  
Rich Kho, Managing Director, Accenture, UK  
Co-author: Fergal Madigan, Accenture, UK

**Joint optimization of retail station operation and secondary distribution with utilization new business models**  
Dr. Máté Zöldy, Market Operation Regional Leader, MOL Group, Hungary  
Co-authors: Csaba Kürti, Gábor Egresits, MOL Group, Hungary

**Agility approach to facilitate supply chain: Case studies from oil industry**  
Mehmet Akif Çalımlı, Specialist, Turkish Petroleum, Turkey

**F10 Posters**

**Opportunities and challenges in the Sub-Sahara African petroleum value chain**  
Johnstone Chikwanda, Chairperson of the Board of Directors, Indeni Petroleum, Zambia

**The optimal scheduling of products pipeline based on Big Data**  
Haoran Zhang, Student, China University of Petroleum, Beijing, China  
Co-authors: Bohong Wang, Yun Shen, Meng Yuan, Yongtu Liang, Zhigang Duan, China University of Petroleum, China

**Can successful loyalty programs sustain profitability in the oil industry?**  
Manar Al-Murad, Marketing Analyst, Kuwait Petroleum International, Kuwait

**End to end supply chain solutions for delivering products to consumers in oil industry**  
Ms. Shalini Tiwari, Deputy Manager, Engineers India, India
When we look at a low carbon future most forget about the petrochemical industry or refinery of the future producing polymers, pharmaceutical and fuels. There are many possible biological building blocks including crops and algae. There are also a number of processes using CO$_2$ as a feedstock. The latter could be a potential solution but it all depends on thermodynamics and the energy mass balance. This Forum will look at all the feasible technologies for the future.

Chair: Mrs. Nathalie Brunelle, SVP Corporate Affairs - Refining & Chemicals, TOTAL, France
Vice Chairs: Fuad Mosa, General Manager, Sabic Innovation and Technology, Saudi Arabia
Prof Dr. Slobodan Sokolovic, Vice President, NPC of Serbia, Serbia

F11 Papers

Unlocking the potential of fuel to enable sustainable transport
Dr. Amer Ahmad Amer, Chief Technologist, Saudi Aramco, Saudi Arabia

Solar fuels by photo and Photo- electro catalytic reduction of carbon dioxide
Dr. Ramesh Kanaparthi, Manager, Hindustan Petroleum, India
Co-authors: Ravishankar Raman, V Jeyalakshmi, P S Ramesh, Peddy V. C. Rao, Sriganesh Gandham, Hindustan Petroleum, India
B Viswanathan, K Krishnanmurthy, IIT, India

SABIC’s certified renewable polyolefins
Peter De Witte, Scientist, SABIC, Netherlands
Co-author: Christoph Roosen, SABIC, Netherlands

An overview of the oil-to-chemicals pathway
Fuad Mosa, General Manager, Sabic Innovation and Technology, Saudi Arabia

F11 Posters

Carbon dioxide utilization to value added chemicals
Dr. Ajay Arora, Chief Research Manager, Indian Oil, India
Co-author: Krishnarao Lopinti, Meeta Sharma, Suresh Puri, Sanjeev Majumdar, Indian Oil, India

Economic corridor thriving on hydrocarbon industrial waste stream ; Opportunity to lower GHG emissions & crude import
Vineet Bakshi, Deputy Process Manager, Engineers India, India
Co-authors: Amanpreet Chopra; Grandhi Srivardhan; Vartika Shukla, Engineers India, India

System and catalyst development for hydrogen production from organic hydrides
Dr. Hideshi Iki, Principal Researcher, JX Nippon Oil & Energy, Japan
Co-author: Kazunori Miyazawa, Yasushi Mizuno, Satoshi Furuta, Shouichi Tsukagoshi, Tomomi Nagatsuka, Yuichiro Hirano, JXTG Nippon Oil & Energy, Japan

Fuels with high hydrogen content in their molecular structures
Dr. Jenő Hancsók, Professor, Pannon University, Hungary
Co-author: Zoltán Varga, Pannon University, Hungary
Petroleum refinery as plastic waste management hub  
Chayan Bhalla, Deputy Manager, Mangalore Refinery and Petrochemicals, India  
Co-author: Raj Mohan Bala, National Institute of Technology, India

Application of Lotka-Volterra equations in Biomass versus Petrol and their environmental impact  
Juan Alberto Vera Herrera, Student, Universidad Rey Juan Carlos, Mexico

Round Tables

RT5 – Delivering successful downstream projects  
Monday 10 July 15:15 – 16:15 (Hall 2)

Delivering downstream capital projects within-budget / on-time in today’s volatile business environment is of paramount importance. With case studies, this Roundtable discussion will give pragmatic guidance how to prioritize project objectives, phase design stages, evaluate costs, source and conclude EPC contractors and implement construction. Special emphasis will be given to exploring the technical and leadership competencies of project personnel and management to properly mitigate risks throughout large scale refinery and petrochemicals projects.

Moderator: Lalit Kumar Gupta, MD&CEO, Essar Oil&Gas, India  
Panelists: Abdulrahman Al-Warthan, Manager, Saudi Aramco, Saudi Arabia  
Emil Eminov, Chief Operations Officer, SOCAR Turkey, Turkey  
Dr. S.S.V. Ramakumar, Director R&D, IOCL, India  
Arthur Thernez, Member of Congress Programme Committee Member, WPC, Hungary  
Prof. Slobodan Sokolavic, Vice President, NPC Serbia

RT6 – Asset management in refining and petrochemicals  
Tuesday 11 July 12:00 – 13:00 (Hall 2)

It is essential that modern and aging refineries are operated in a safe, efficient and environmentally acceptable manner. In general, a PDCA cycle, including maintenance planning, implementation of repair and replacement, operation of improved facilities and evaluation of maintenance, is introduced for asset management in consideration of financing and human resources. The panel will share examples of operational excellence for asset management in refineries and their implementation in software and hardware, including capital management, human resources and preparation for disaster response.

Moderator: Hatem Belfadhel, Director, Chemical Plants Improvements, SABIC, Saudi Arabia  
Panelists: LK Vijh, Executive Director, Technical, Engineers India Limited, India  
Miika Eerola, Group Downstream Production Senior Vice President, MOL, Hungary  
Albdulazim Marafi, Senior Researcher Kuwait Institute for Scientific Research (KISR), Kuwait

RT7 – Outlook of the downstream industries  
Wednesday 12 July 14:15 – 15:45 (Hall 2)

This panel will focus on current trends and emerging technologies in the downstream industries, including business challenges arising from the increasing use of sustainable first and second generation biofuels and from the advent of new mobility concepts, such as electrical and hydrogen mobility. Changes in the demand and supply pattern resulting from these changes, novel feedstock options and diversification for the downstream industry is also covered in this discussion. It will also address the production capacities and demands in the local and global markets for the refinery and petrochemical industry.

Moderator: Csaba Zsótér, Head of Group Feedstock Supply & Trade, MOL Group, Hungary  
Panelists: Vinod Shenoy, Director-Refineries, Hindustan Petroleum Corporation Limited, India  
Nathalie Brunelle, SVP Corporate Affairs Refining, Total, France  
Mehmet Akif Calimli, Specialist, Turkish Petroleum, Turkey
Consumption of gas is increasing faster than oil or coal. In order to feed the increased demand for gas, we need to search for technology innovations beyond the shale gas revolution, which can unlock new sources such as hydrates and hydrogen, develop new processes for unconventional gas, CBM and GTL, as well as focus on new applications such as CHP. What impact do these new technologies have on the usage of gas in transportation, mobility and power generation?

Chair: Mrs Meriem Mokrani, Senior Vice President Operations, Engie, France
Vice Chair: Makoto Yasui, General Manager, Technology Development Unit, Chiyoda Corporation, Japan

**F12 Papers**

**Gas Grows Up - new markets and applications**
Ms. Melissa Stark, Managing Director, Accenture, UK

**Green natural gas - well in reach**
Olav Skalmeraas, Vice President, Statoil, Norway

**Expanding natural gas footprint in the Indian energy market**
Rajeev Mathur, Managing Director, Mahanagar Gas, India

**How Selective Oxidation technologies can open up new options for exploiting Ethane and Propane from Shale gas**
Dr. Srikant Gopal, Lead Scientist, SABIC, Saudi Arabia
Co-authors: Turki Al-Smari, Mohammed Al-Hazmi, SABIC, Saudi Arabia

**F12 Posters**

**Creating new demand for gas**
Andrew Brogan, Partner, EY, UK
Co-authors: Drew Krasnov, EY, UK

**The analysis and research on natural gas extension and utilization prospects**
Mrs. Xinchun He, Executive Assistant, CNPC, China
Co-authors: Hualin Zhang; Zhen Wang, CNPC, China
Yongjian He, National Development and Reform Commission National Energy Board China, China

**Small-scale LNG: playing a key role in gas markets transformation**
Ms. Victoria Fedorova, Assistant professor, Gubkin Russian State University of Oil and Gas, Russian Federation

**Implementation of alternate energy sources as a solution towards sustainable development**
Dr. Reji Mathai, Deputy General Manager, Indian Oil, India
Co-authors: Sumit Kumar Mishra, Sauhard Singh, A K Sehgal, Indian Oil, India

**Natural gas is considered by Iranian as the fuel of the future, best practice about conversion gasoline**
Saeed Sajjadi, Engineer, NIOC, Iran
Co-author: Vali Ahmad Sajjadi, NIOC, Iran
Chemical Looping Process (CLP): An Attractive route for Hydrogen Production & Simultaneous CO2 Capture
Dr. Sudarshan Reddy Ragireddy, Senior Research Officer, Hindustan Petroleum, India
Co-authors: Raman Ravishankar, Peddy V. C. Rao, Gandham Sriganesh, Hindustan Petroleum, India

New design of DME conversion to Olefins
Mrs. Mariya Magomedova, Head of Chemical Engineering, TIPS RAS, Russian Federation
Co-authors: Salambek Khadzhiev, Anton Maksimov, TIPS RAS, Russian Federation

F13 – Sustainable value chains for unconventionals gas

Tuesday 11 July 14:15 – 15:45 pm (Hall 3)
Poster Session Wednesday 12 July 11:00-13:00 (Interactive Poster Plaza)

The value chain for the gas industry covers production, processing, transportation, storage and distribution, and each of these sectors has a social and business impact on the industry. For unconventional gas the value chain is largely similar to that of conventional gas but has unique features in terms of sustainability and cost effectiveness, as well as social and environmental impacts. We will consider the differences between the value chain of conventional and unconventional gas, review comparative studies and examples of building an effective value chain for unconventional gas which adds value to the company's revenue line whilst providing a stable supply of gas to the end users.

Chair: Ning Ning, Vice President, RIPED Langfang, China National Petroleum Corporation, China
Vice Chairs: Christophe Amadei, VP, Unconventional Development Division, TOTAL, France

Papers

Interconnections; Leading the development of the unconventional gas value chain
Ms. Paloma Izquierdo, Regulatory Development, Enagas, Spain
Co-author: Pedro Miras Martínez-Berganza, ENTSOG, Belgium

China shale gas economic evaluation based on Monte Carlo simulation
Nan Wang, Deputy Director, CNPC-Petrochina, China
Co-author: Qun Zhao, CNPC, China

Mitigating shale gas developments carbon footprint: evaluating & implementing solutions in Argentina
Christophe Amadei, VP, Unconventional Development Division, TOTAL, France
Co-authors: Mrs. Christiane Eygun, Unconventional Division, Social License to Operate, TOTAL, France
Jed Belgaroui, Yang Wu, TOTAL, France
Fabián Pazos, TOTAL AUSTRAL, Argentina

Monetizing gas of a giant high helium and nitrogen gas reservoir – Amur gas processing plant
Marcus Lang, Executive Vice President, Linde AG, Germany
Co-authors: Igor Afanasyev, Gazprom, Russian Federation
Boris Slutskiy, NIPIGas, Russian Federation
Florian Schmid, Linde Group, Germany

Posters

Socio-economic impact of gas condensate well spacing problems using genetic algorithms - Case study from Northern America
Riverson Oppong, Reserach Assistant, Gubkin Russian State University of Oil and Gas, Russia
Co-author: Abdul-Latif Benson Lamidi, Saint Petersburg Mining University, Russia

The prospect of trade and production of liquefied natural gas in the Petrostates in 2035
Mohsen Haerinejad, Research and Development Expert, Oil Industries’ Commissioning and Operation Company (OICO), Iran
Co-author: Mohadeseh Motie, Tehran Polytechnic Univesity, Iran
Sweet spots prediction and evaluation in shale gas reservoirs using geophysical data. A case study in the Longmaxi Formation of the Lower Silurian Jurassic of W201 area, Sichuan Basin

Dr. Sheng Chen, Geophysicist, China University of Petroleum, RIPED, CNPC, China
Co-authors: Wenzhi Zhao, Yonglin Ouyang, Qingcai Zeng; Qing Yang, Huaxing Hou, Shaohua Gai, Shihai Bao, Xinyu Li, Jiaqiang Huang, Xing Chang, CNPC, China

Liberalization of indian gas market for development of unconventional gas

Debasis Nayak, Senior Marketing Officer, ONGC, India
Co-author: R. Guhan, ONGC, India

Progress and performance of China’s Coalbed Methane Industry

Yanpeng Chen, Senior Engineer, RIPED, CNPC, China
Co-authors: Fenjin Sun, Wuzhong Li, Meng Geng, Xinchun Jiang, CNPC, China

The effect and function of materials used in waste management of drilling fluids

Farid Amraei, Student, Cyron, Iran
Co-author: Amin Amraei, NIOC, Iran
Masoud Hashemian, Ministerial Of Petroleum (MOP), Iran
Vahid Shabani, Ministerial Of Petroleum (MOP), Iran

Natural gas replacement methode with LPG/AIR system at gas distribution network for peak shaving

Behrouz Moez, Technical Inspector, National NIGC, Iran

Scenarios in energy industry future: CO2 emission approach

Amin Amraei, Engineer, NIOC, Iran
Co-authors: Ali Rahneshin, Borzouyeh Petrochemical, Iran
Joanna Desjardins, Conoco Phillips, Canada
Kseniya A. Bondarenko, Institute of Forecasting and Macroeconomic Resarches, Uzbekistan;
Sharhan Poursaeidi, Arvandan Oil Refinery, Iran

Oil & gas industry scenarios for energy in 2030-2050: CO2 emissions scenarios point of view

Ali Rahneshin, Senior Foreign Purchasing, Borzouyeh Petrochemical, Iran
Co-authors: Joanna Desjardins, Conoco Phillips, Canada
Kseniya A. Bondarenko, Institute of Forecasting and Macroeconomic Resarches
Sharhan Poursaeidi, Arvandan Oil Refinery, Iran

Tuesday 11 July 16:00 – 17:30 (Hall 3)
Poster Session Wednesday 12 July 13:30-15:30 (Interactive Poster Plaza)

Management of large scale gas projects requires a deep integration of various disciplines, including HSE, design, contracting and procurement, project management and construction. Adoption of novel ways of working, including 4D and 5D planning as well as effective deployment of new technology are essential to deliver the next wave of LNG, (lean) FLNG and unconventional gas projects.

Chair: Neil Gilmour, Vice President Integration Upstream International, Shell International, UK
Vice Chair: Nello Uccelletti, President, Onshore-Offshore, Technip FMC, France
Papers

The end of the LNG mega-project?
Chris Pateman-Jones, Director, EY, UK

Building a Mega-Project in a Modern Society
Ms. Susannah Pierce, Director External Relations, LNG Canada, Canada
Co-authors: Katharine Birtwistle, Patti-Schom Moffatt, Michael Eddy, Lucy Shaw Day, LNG Canada, Canada

Yamal LNG, Challenges of Kashagan, Absheron- Challenges of mega projects
Bernard Clement, Vice President Continental Europe and Caspian, Total

Posters

An optimisation study in designing a cryogenic circuit of floating liquefied natural gas units
Sukanandan Jangumiah Nagarajan, Deputy General Manager, ONGC, India
Co-authors: Anil Kumar Santosh Rao Pawar, Chandra Prakash Singhal, ONGC, India

CNG projects as part of petroleum companies diversification strategy in the period of energy challenges
Mrs. Diana Tyrtyshova, Teaching Assistant, Gubkin Russian State University of Oil and Gas, Russia
Co-author: Elena Telegina, Gubkin Russian State University of Oil and Gas, Russia

F15 – Best practices in management of safe operation of gas assets

Wednesday 12 July 14:15 – 15:45 (Hall 3)
Poster Session Thursday 13 July 11:00-13:00 (Interactive Poster Plaza)

The gas industry has accumulated very large and complex facilities, including gas fields, pipelines, processing plants, transportation, storage and distribution networks. These physical facilities together with their non-physical counter parts, such as management procedures, software platforms, form the assets of the gas industry. As the gas industry grows, we need to address the risk of these huge, complex assets, and if they might become obsolete in the foreseeable future. Integrated management and risk control are the two important issues facing our industry and we have to evaluate and regularly revise our business practices in terms of effective asset usage and cost reduction without compromising safety. This Forum will share best practices in the management of safe operation of gas assets.

Chair: Mrs Adriana Petrovic, Corporate Affairs Advisor, INA Oil Industry, Croatia
Vice Chair: Dr Cengiz Soylu, Senior Technical Advisor, Turkish Petroleum, Turkey

Papers

An enhanced understanding of emerging risks within the gas industry is paramount to sustain safe operation in the future
Frode Leversund, CEO, Gassco, Norway

Corrosion management program in gas plan
Hatam Mehraz, Corrosion Control Engineer, Saudi Aramco, Saudi Arabia
Co-author: Abdulrahman Hummadi, Saudi Aramco, Saudi Arabia

Safety and environmental management systems – a journey of continuous learning and improvement and the basis of a safety culture
Charlie Williams, Executive Director, Center for Offshore Safety, USA
Management of safe operations of natural gas assets in the Digital Age: New models to improve your safety performance

**Stephan Klein**, Senior Vice President, SAP, Germany

Co-authors: **Thomas Kesl, Krishanu Bhattacharya** SAP, UK; **Arif Abdullah**, SAP, Germany

**Posters**

**Risk and reliability management of regasification plant modified from LNG plant and combined with new equipment**

**Ms. Grace Intan Melania**, Sr. Analyst, Pertamina, Indonesia

Co-authors: **Siswanto Siswanto; Id Arifandi; Arie Wisianto**, Pertamina, Indonesia

**Business model of underground gas storage in Japan –Technical challenge to evolve from raw gas to imported LNG**

**Tomoya Ohata**, Business Stuff, JAPEX, Japan

Co-authors: **Ryo Ueda; Masanori Nakano**, JAPEX, Japan

**Dew point depression unit standby facility solution**

**Hamad Alshammari**, Gas Engineer, KOC, Kuwait

Co-authors: **Eisa AlHaddad, Mahdi Ashkanani; Naser Abu Taleb**, KOC, Kuwait

**Application of strain stress state measurement in oil and gas equipment building inspection and technical diagnostics**

**Georgy Batov**, Vice Head of Science Education Centre, Gubkin Russian State University of Oil and Gas, Russia

**Demand estimation of natural gas in the European Union by the year 2035**

**Morteza Andalib Sahnesaraei**, Maintenance Head, NIGC, Iran

Co-author: **Mohammad Javad Mahmoodabadi**, Sirjan University of Technology, Iran

**Sulfur free gas supply for Kuwait refineries**

**Mahdi Ashkanani**, Senior Mechancial Engineer, KOC, Kuwait

Co-author: **Eisa Al-Haddad**, KOC, Kuwait

**Production liner cementing practices in challenging horizontal wellbores**

**Atallah Al-Harbi**, Drilling Engineer, Saudi Aramco, Saudi Arabia

RT8 – Role of LNG in security of global energy supply

Monday 10 July 15:15 – 16:15 (Hall 3)

Demand for gas continues to rise, with gas forming an effective bridge to lower the carbon footprint of power generation. This roundtable will review the role of LNG as an essential element in the gas supply chain, with LNG increasingly supplementing pipeline gas where the latter is either impractical or impossible as a transport option. The panel will consider if all aspects including supply chain reliability, LNG shipping, technical assurance of plant design as well as safety and integrity assurance are sufficiently covered to guarantee the required security of supply.

Moderator: Dr Elena Fedorova, Associate Professor, Gubkin State University of Oil and Gas, Russia
Panelists: Laurent Vivier, President Gas, TOTAL, France
Steve Hill, Executive Vice President, Shell Energy, Singapore
Yossi Abu, CEO, Delek Drilling, Israel

RT9 – Role of gas in the energy mix in a volatile world

Monday, 10 July 13:30-15:00 (Hall 7)

Global energy demand is forecasted to increase over the next decades due to economic growth in emerging countries and population increase, with fossil fuels remaining the main source of energy by 2035. At the same time it becomes crucial to reduce greenhouse gas emissions to decrease climate change impact, while waiting for new energies to be technically ready and economical to replace fossil energies. Could natural gas be the key actor for the energy mix evolution? Its price evolution, its accessibility, its smaller CO2 impact and its better acceptability could make it the energy mix leader for the transition period. But what will be the necessary conditions?

Moderator: Marjan van Loon, President Director, Shell Nederland B.V., Netherlands
Panelists: Geoffroy Hureau, Secretary General, Cedigaz, France
Prabhat Singh, MD/CEO, Petronet LNG, India
Yongqiang Fu, General Manager, PetroChina Southwest Weiyuandong Shale Gas Operation Company, China
Tristan Aspray, Vice President Europe, Middle East Asia Pacific, ExxonMobil Exploration
Yossi Abu, CEO, Delek Drilling, Israel

RT10 – Gas from producer to market

Tuesday 11 July 12:00 – 13:00 (Hall 3)

Connecting producers to markets is key for the gas business. Various gases, including conventional and unconventional gas, are produced with high or low BTU content. Gas markets include power generation, commercial gas, city gas, residential gas etc. To connect production with the consumers an extensive infrastructure, including gas networks, storage, transportation and various facilities, is required. This Round Table will discuss what innovative technology is evolving? How can infrastructure optimization be achieved? How can we minimize the environmental footprint of bringing gas from the producers to the markets?

Moderator: Mehmet Öğütçü, Chairman, Global Resources Partnership The Bosphorus Energy Club, Turkey
Panelists: Tor Martin Anfinnsen, SVP Gas, Statoil, Norway
HE Mohammed Al Thani, former Minister of Economy and Trade, Qatar
Weiguo Shan, Director, Economics and Technology Research Institute, CNPC, China
Gulmira Rzayeva, Senior Research Fellow, Center for Strategic Studies (CSS), Azerbaijan
BLOCK 4. SUSTAINABLE MANAGEMENT OF THE INDUSTRY

F16 – Knowledge management

Monday 10 July 13:30-15:00 (Hall 4)
Poster Session Tuesday 11 July 11:00-13:00 (Interactive Poster Plaza)

The Forum will discuss the way Knowledge Management (KM) has evolved from an ‘information revolution’ into a ‘knowledge revolution’. In fact, by fostering innovation and the development of technologies in learning organizations, KM has turned into a new source for competitive advantage. The Forum will share best practices and discuss how this new Knowledge Management approach, along with Innovation and R&D, can allow for great changes in this collaborative era and evaluate how intellectual capital can shape a new future for energy organisations, when dealt with as “collective know-how”.

Chair: Mrs. Nazan Topgüder, Deputy Group Manager, Research Center, Turkish Petroleum Corp, Turkey
Vice Chair: Martin Maeso, Knowledge and Technical Director, Energy Institute, UK

Papers

Knowledge management strategies to maximize organizational benefits
Sandeep Chaturvedi, Contract Specialist, KOC, Kuwait
Co-author: Manal Abu Shaibah, KOC, Kuwait

Reduce the costs of ignorance through knowledge management
Rob van der Spek, Director, DNV GL, Netherlands

Improving efficiency and productivity through knowledge management – A case of HPCL, India
Vikas Gupta, Senior Manager, HPCL, India

Lessons learnt knowledge base
Ms. Rima Al-Awadhi, Team Leader, Quality Assurance & Business Improvement, KOC, Kuwait

Posters

Knowledge management: Are we doing the best we can?
Mel George, Deputy Manager, Bharat Petroleum, India

Developing a framework on documentation of experiences and extracting the knowledge of managers and experts of oil and gas industry
Mohammad Rahro Ahmadi, Knowledge Management Expert, POGC, Iran
Co-author: Maryam Khorram, POGC, Iran

A process and application for tracking failure investigation – A tool for knowledge sharing
Mustafa Amer, Drilling Engineer, Saudi Aramco, Saudi Arabia
Co-authors: Ali Hajji; Lenin Pineda; Bobby Walker, Saudi Aramco, Saudi Arabia

Knowledge management for sustainable management of the industry
Mrs. Shalini Tiwari, Deputy Manager, Engineers India, India

Knowledge management applied to refineries maintenance: A new approach
Manuel Hurtado Hernandez, Consultant, Indra Sistemas, Spain

A far-reaching study on Knowledge Management 2.0: A game changer for transforming and shaping the future of E&P 2.0
Ajay Kumar, Superintending Engineer, ONGC, India
Co-authors: Anoop Yadav, Gaurav Dubey, Y.C. Shukla, ONGC Videsh, India
Cyber-attacks have evolved from random, self-propagating destructive viruses and website hacking attempts with no specific target and limited-in-scope to becoming ever more targeted, financially, or politically driven persistent attacks. The advancement of information technology security controls has also led attackers to adopt increasingly more sophisticated new attack methods. This session will discuss the following areas: how to prepare against targeted cyber-attacks against oil and gas companies, the challenges of securing often outdated critical industrial control systems, role of national agencies and regulators in establishing and enforcing common cyber security standards and controls and overcoming the challenges associated with intelligence sharing among different institutions.

Chair: Ali Al-Masari, Manager, Information Protection Dept., Saudi Aramco, Saudi Arabia
Vice Chairs: Sthanusubramonian Sathiavageswaran, Executive Director - Information Systems, Hindustan Petroleum Corporation, India
Joaquín Reyes, Chief Information Officer, Cepsa, Spain

Papers

Critical controls for effective cyber defense
Mostafa ElBaradie, Engineering Consultant, Saudi Aramco, Saudi Arabia

Digital transformation in oil & gas – Cyber security and approach to safeguard your business
Faroq Shaik, Delivery Execution Manager, SAP, UAE
Co-authors: Stephan Klein, Arif Abdullah, SAP, Germany

Evolution of cyber threats and the development of new security architecture
Piotr Ciepiela, Executive Director EMEIA OT/IoT Security&Critical Infrastructure Leader, EY, Poland
Co-author: Bala V Venkateshwaran, EY, India

Cyber security in oil & gas: Outsourced or In-house?
Martin te Lintelo, Business Development Manager, Yokogawa, Netherlands
Co-authors: Marcel Kelder, Patrick Kools, Yokogawa, Netherlands

Posters

Secure reference architecture for turbomachinery applications in the oil and gas industry
Pierluigi Meloni, Lead Cybersecurity Engineer, GE Oil & Gas, Italy
Co-authors: Dario Tamborrelli, Lorenzo Giovanardi, GE Oil & Gas, Italy

Cyber security in the Indian oil and gas sector: More questions than answers
Chetan Rana, Assistant Manager, Bharat Petroleum, India
Co-author: Mel George, Bharat Petroleum, India

Comparing cyber security strategies across countries and their implications for the energy sector
Benjamin Dean, President, Iconoclast Tech, USA
Co-author: Thomas Lind, Iconoclast Tech, USA

Dilemma of IoT (Internet of Things): Emerging cyber challenges for energy sector
Mrs. Ayhan Gucuyener, Regional Director, IACIPP, Turkey
Affordable cyber-security: Boardroom’s top most agenda
Vikas Gupta, Senior Manager, HPCL, India

Automatic detection of cyber threats by leveraging IoT and Deep Neural Networks for critical infrastructures
Jafar Shayan, Consulting Manager, Persys Technologies Berhad, Malaysia
Co-author: Jalal Shayan, Mostafa Sadegh Pour, NIOC, Iran

F18 – Human resources-how to retain talent

Tuesday 11 July 14:15-15:45 (Hall 4)
Poster Session Wednesday 12 July 11:00-13:00 (Interactive Poster Plaza)

Managing the increasing talent gap, involving young people in the industry and fostering diversity and inclusion in the workforce are some of the hot HR topics. How will the workplace change over time and how do companies manage the transition? How can companies manage talent through boom and bust cycles and retain the knowledge and experience for critical operations?

Chair: Dr Béla Kelemen, Group Supply Chain Management SVP, MOL Group, Hungary
Vice Chair: Ms Vlada Streletskaya, Executive Assistant of Rector, Gubkin University and Student Programme Chair, SPE Moscow section, Russian Federation

Papers

From reactive to proactive: Talent management in the “New Normal” for oil and gas
Aleek Datta, Managing Director, Accenture, USA
Co-author: Jean-Marie Rousset, Accenture, USA

Securing talent supply in the industry: A focus on the MOL group
Ms. Zdravka Demeter Bubalo, Human Resources Vice President, MOL Group, Hungary

Influence of socio-demographics diversity on work performance and talent management
Ahmed Almaghaslah, IT Systems Analyst, Saudi Aramco, Saudi Arabia

Mentor and mentee: Who teaches whom?
Dr. Anna Illarionova, Russian Representative, WPC YP Committee, Russia

Posters

Capacity building process: A prime requirement for oil & gas value chain
Dr. Amanpreet Singh Chopra, Sr. Manager Corporate Strategy, Engineers India Ltd.
New Delhi, India
Co-author: Dr. Ranjit Rath, Engineers India, India, Rajesh Bagaria, Gas Authority of India, India

Retaining human assets by developing their leadership skills and competence
Toru Sugimoto, Corporate HSE Manager, JGC, Japan

Talent management in oil and gas industry through Industry 4.0
Musa Bilgehan Akgün, Senior Engineer, Turkish Petroleum, Turkey

Strategies to talent retention: career path and succession planning managed by talent management application
Mrs. Rima Widianir Rahayur, HR Business Partner, Pertamina, Indonesia
Co-author: Pingkan Zanita Ismailati, Pertamina, Indonesia
Study of the impact of Intellectual capitals on organizational performance in gaz organization

Dr. Saeid Emamgholizadeh, Lecturer, GAZ Group, Iran
Co-authors: Mohamad Esmail Ebrahim Zadeh, Noroz Kolbadei Nejad, Gaz Mazandaran, Iran

Women’s participation in oil and gas industry

Ms. Merve Serire Topdaş, Student International Relations, Boğaziçi University, Turkey

Nurturing young leaders at HPCL

Kapil Gakhar, Deputy Manager, Hindustan Petroleum, India
Co-author: Karun Bichauli, Hindustan Petroleum, India

Future Work Now

Michelle C. Seale, Principal Strategy Oil & Gas, Ernst & Young LLP, USA

F19 – Energy poverty alleviation initiatives

Tuesday 11 July 16:00-17:30 (Hall 4)
Poster Session Wednesday 12 July 13:30-15:30 (Interactive Poster Plaza)

With nearly 1.3 billion people lacking access to electricity and 2.6 billion people relying on biomass for their domestic cooking and heating needs, the UN has called a Decade of Sustainable Energy and set up the Sustainable Energy for All (SE4ALL) programme. How can the oil and gas industry play a role and make a difference by using its strength as a technology and innovation leader in the energy sector?

Chair: Biswajit Roy, Director (Human Resources & Business Development), Oil India, India
Vice Chairs: Phillippe Cabus, Managing Director of TOTAL Access to Energy, TOTAL, France
Mrs. Amanda Pereira, Director Strategic Affairs, ARPEL, Uruguay

Papers

How business can help democratize access to less polluting sources of energy and improve people’s lives
Alejandro Jimenez, Institutional Relations and Sustainability Manager, Frontera Energy, Colombia
Co-author: Pamela Gomez, Frontera Energy, Colombia

Energy is about quality of life of bottom of pyramid people
Dr. Debesh Patra, Deputy General Manager, Bharat Petroleum, India

Opportunities and challenges in the Sub-Sahara African petroleum value chain
Johnstone Chikwanda, Chairperson of the Board of Directors, Indeni Petroleum Refinery, Zambia

Global Energy Poverty alleviation initiatives - Fueling growth and prosperity
Dr. Namat Abu Al-Soof, Consultant Strategic Planning & Economic Services, OPEC Fund for International Development (OFID), Austria

Posters

Beyond growing energy demand – Africa’s socio-economic and technological challenges
Riverson Oppong, Research Assistant, Gubkin Russian State University of Oil and Gas, Russian Federation
Co-authors: William Oppong, Ministry of Local Government and Rural Development, Ghana
Benson Lamidi, The Saint Petersburg Mining University, Russia

Empowering women from poorer households-improving access to efficient sources of energy
Vikas Gupta, Senior Manager, HPCL, India
Co-author: Pradeep Gupta, Hindustan Petroleum, India

Energy poverty alleviation: India’s experience with clean cooking fuel access schemes
Mel George, Deputy Manager, Bharat Petroleum, India
Co-author: Chetan Rana, Bharat Petroleum, India
Local content policies for development - study case: Brazil and Norway

Gabriel Freitas, Analyst, Accenture, Brazil

Study of CSR & sustainability in energy saving, energy opt. & industrial environmental point of view (Case study: South of Iran refineries & petrochemicals)

Dr. Ali Rahneshin, Sr Foreign Purchasing, Borzouyh Petrochemical Complex, Iran
Co-author: Joanna Desjardins, Conoco Phillips, Canada
Kseniya A. Bondarenko, Institute of Forecasting and Macroeconomic Researches, Uzbekistan

Fiscal break-even of oil states

Dr. Abhishek Deshpande, Chief Energy Analyst, Natixis, UK

Artificial intelligence for the Smart Grid

Dr. Hesam Komari, Engineer, SGPC, Iran

Strategy for India towards Energy Poverty Alleviation

Srivardhan Grandhi, Senior Engineer, Engineers India, India
Co-authors: Rajeev Nambiar; Sheo Raj Singh; Vartika Shukla, Engineers India, India

F20 – HSE and operations integrity – keeping pace

Wednesday 12 July 14:15-15:45 (Hall 4)
Poster Session Thursday 13 July 11:00-13:00 (Interactive Poster Plaza)

As the petroleum industry pursues new supplies from frontier areas in deep water, the Arctic and other remote and sensitive environments, unconventional resources using more intensive operational practices in populated onshore areas, and mature fields with aging wells, facilities and pipelines, the industry faces new challenges to preserve the integrity of these operations and to protect people and the environment. The Forum will present case studies of new and enhanced systems, processes, practices and technologies that have enabled companies to keep pace with this industry evolution and meet their ongoing operations integrity and health, safety and environmental responsibilities, which remain key to earning and retaining a license to operate.

Chair: Dr. Monika Hausenblas, Executive Vice President Safety & Environment, Shell Global Solutions International, Netherlands
Vice Chairs: Siavash Derafshi, HSE Director, NIOC, Iran
Jim Andrews, VP of HSE, Schlumberger, UK

Papers

CASHe – Change agents for safety, health and workplace environment: A new paradigm of HSE management

Dhaval Gupta, Manager PSU Business, Reliance Industries, India
Co-authors: Aditya Paliwal; Himanshu Jain; Atin Goyal, Sujeet Kumar, Sohan Bose, Reliance Industries, India
Vinay Kumar Gupta, Oil & Natural Gases, India

Creating safety as a value and a way of life

Toru Sugimoto, Corporate HSE Manager, JGC, Japan
Co-author: Peter Nance, Fluor, USA
Takashi Sameshima, JGC, Japan
Driving HSE culture change – A case history
Lamberto Nonno, North Sea SR HSE Manager, Baker Hughes, USA
Co-author: Jack Hinton, Baker Hughes, USA

Posters

Analysis of Greenhouse gas emission reduction potentials in China’s oil and gas industry
Ms. Wenjia XU, Engineer, CNPC, China
Co-author: Xingchun Li, CNPC, China

Engineering management and inspection schedule of petroleum well integrity
Prof. Musaed N. J. AlAwad, Professor and Faculty Member, King Saud University, Saudi Arabia
Co-author: Hawwas A. Mohammad, King Abdulaziz City for Science and Technology, Saudi Arabia

Strategic objectives versus accident investigation
Mrs. Sara Masoum, HSE Expert, POGC, Iran
Co-author: Sahar Amini; Zahra Mirshafiei; Elina Bagheri, POGC, Iran

Environmental risk mitigation by microseismic traffic light system in the Onnagawa shale oil fracturing pilot in Akita, Japan
Dr. Kazuhiko Tezuka, General manager, JAPEX, Japan
Co-author: Tetsuya Tamagawa; Satoru Yokoi, JAPEX, Japan

Improvements to process safety management at Shell
Henk Vasmel, Senior HSE Consultant Shell Global Solution, Netherlands Global Solution, Netherlands
Co-author: Eamon Chandler, Shell Global Solutions, Netherlands

FPSO Decommissioning
Samir Leite Alves Junior, Project Manager, SBM, Brazil

Round Tables

RT11 – Geopolitics and global trends
Monday 10 July 15:15-16:15 (Hall 4)

Geopolitics continue to challenge the global petroleum industry in many aspects. For oil and gas companies, access to reserves and safe routes for development and transportation are of vital importance, while securing energy supplies is paramount for national interests. Regions holding reserves are considered prime assets and are often the subject of political disputes. A thorough understanding of regional and geopolitical trends is therefore essential. How do they impact global operations, and how can we manage to balance the interests of the various stakeholders in the host countries and the industry in order to minimize disruptions and other risks to the operations. In addition, the emergence of unconventional resources has been reshaping geopolitics and marking a break with several established trends in energy supplies.

Moderator: Bob Fryklund, Chief Upstream Strategist, IHS, USA
Juan Vera, COO, Cepsa, Spain
Prof. Dr. Volkan Ediger, Coordinator, Strategy Development and Research Office; Director, Center for Energy & Sustainable Development, Kadir Has University, Turkey
RT12 – Ethics, compliance and business principles
Tuesday, 11 July 12:00-13:00 (Hall 4)
This Forum will discuss how compliance and ethics practices should be part of the overall business strategy and operations, permeating the entire organization. Taking this integrated approach leads to better overall performance, mitigates risks and allows the organization to meet its business objectives. The Forum will create an opportunity to enhance your leadership skills by learning and sharing innovative experiences and best practices on how a compliance and ethics programme can promote and preserve the organization’s values and principles to support long-term prosperity while addressing increasing stakeholders’ expectations.

Moderator: Sven Mollekleiv, Senior Vice President, Sustainability, DNVGL Group, and President, Norwegian Red Cross, Norway
Panelist: Jim Ellis, President and CEO, Alberta Energy Regulator, Canada
Philip Jordan, Chairman of the Ethics Committee, TOTAL, France
Peter Gaw, Managing Director, Global Head, Energy & Natural Resources, Standard Chartered Bank, UK

RT13 – Perception of the petroleum industry by society
Wednesday 12 July 12:00-13:00 (Hall 4)
In a communication driven world where anyone can raise their voice using social media, the oil and gas industry must reinforce its communication strategy in order to transmit the key role that hydrocarbons have in the present and the future and its capability to deliver strong safety, environmental, and community engagement performance. How can oil and gas companies improve their presence in social networks in order to get a better image and be closer to the customer, media and the influencers? How can we cooperate better with institutions, governments and consumers to build public confidence and obtain a social license?

Moderator: Dr. Renato Bertani, CEO, Barra Energia SA, Brazil
Panelists: Anna Illarionova, PhD, Russian Representative, WPC YP Committee, Russia
Simon Shelley, Head of Industry News, ITN Productions, UK
Susannah Pierce, Director, External Relations, LNG Canada, Canada