

21st WPC Technical Programme

13 June 2014 15:52 UTC



Theme

As the world population increases, access to affordable, safe and reliable sources of energy will be a key factor in promoting economic development and well-being for humankind. Oil and natural gas will continue to be the world's leading energy resource for the foreseeable future. Meeting future demand in a sustainable and socially responsible manner will require massive investments, leading edge technologies, the highest skilled human resources, and superior ethical business practices. Producers, consumers, governments and societies need to cooperate responsibly to develop all energy resources. To do so, the industry has to energise its professionals; in particular youth, to become even more innovative in ensuring future growth.

Structure

Technical Programme Sessions

The technical programme of the 21st WPC is organised in 4 thematic blocks:

- **Block 1** : Exploration and Production of Oil and Natural Gas
- **Block 2** : Refining, Transportation and Petrochemistry
- **Block 3** : Natural Gas Processing, Transportation and Marketing
- **Block 4** : Sustainable Management of the Industry

Block 1. Exploration and Production of Oil and Natural Gas

Forums

- F01 - New opportunities in old fields
- F02 - Exploration and production in the Arctic
- F03 - Deep water exploration and production
- F04 - Unconventional oil and gas exploration and production
- F05 - New technologies for geosciences
- F06 - Challenges in complex geological environments
- F07 - Advanced drilling and production technologies
- F08 - Integrated reservoir management and surveillance

Best Practice Keynote Sessions

- BPK1 - Management of Arctic and deep water mega projects
- BPK2 - Best practice for managing E&P risks

Round Tables

- RT01 - Where should we look for new resources?
- RT02 - What do we need for new geographic frontiers?
- RT03 - How should we optimise cycle time from exploration to production?

F01 - New opportunities in old fields

Monday 16th June 10:15 - 11:45 (Block 1)

Poster Session Tuesday 17th June 11:00 - 13:00 (Poster Plaza)

This session will illustrate successes and challenges of mature fields. Hydrocarbons recovery from old fields represents enormous challenges. When the oil recovery ratio of all the existing fields is increased by 1%, the oil supply is extended by more than two years of production worldwide. This session aims to describe all the innovative technologies and approaches that give new opportunities in old fields. This includes technologies such as IOR (Improved Oil Recovery), EOR (Enhanced Oil Recovery), which can also be used on recent producing fields, as well as new ways available to redevelop mature fields: new reservoir models, new drilling technologies and new surface facilities for instance. Investments in old fields, to provide new production and cash flow, certainly constitute a solution to the current world energy growing demand.

Chair Mr. Robert Howard, General Manager - Reservoir Management, Chevron Upstream and Gas, United States,

Vice Chairs Mr. He LIU, Vice General Engineer, Research Institute of Petroleum Exploration and Development, CNPC, China,
Dr. Ravil Ibatullin, Director, TatNIPIneft Institute, Russian Federation,

F01 Papers

Field Scale Polymer Flooding of Heavy Oil: the Pelican Lake Story

Eric Delamaide, General Manager, IFP Technologies (Canada) Inc., Canada,

Co-authors: Gerard Renard; Rene Tabary, IFP Energies nouvelles, France; Patrick Dwyer, IFP Technologies (Canada) Inc., Canada;

Review of BP's Global Gas Injection Projects

James Brodie, Reservoir Engineer, BP, United Kingdom,

Co-authors: Bharat Jhaveri, USA; Pinggang Zhang, United Kingdom; Sigrun Mellemstrand Hetland, BP, Norway;

Theories and Applications of CO₂ Flooding for Low Permeability Reservoirs

Bingyu Ji, Chief Engineer, Petroleum Exploration & Production Research Institute, SINOPEC, China,

Co-authors: Chengyuan Lv; Rui Wang; Yingfu He, Petroleum Exploration & Production Research Institute, SINOPEC, China;

Intelligent Automation of Mature Field Development Process. Case Study from the Romashkinskoe Field block

Victor Zubarev, Head of software development department, OAO Tatneft, Russian Federation,

Co-authors: Vladimir Fadeev; Alexey Besspalov; Airat Rakhmanov; Bulat Zakiev, OAO TATNEFT, RUSSIA;

F01 Posters

Chemical Flooding for a HT/HS Carbonate Reservoir

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

Co-authors: Ming Han, Saudi Arabia ; Alhasan Fuseni; Jinxun Wang, Saudi Aramco, Saudi Arabia;

Essential Contributions of Simulation Models to the Assessment and Design of Chemical EOR Projects

Frédéric Roggero, Department head « Transfers in geological media », IFP Energies Nouvelles, France,

Co-authors: Benjamin BRACONNIER; Philippe DELAPLACE; Bernard Bourbiaux; André FOURNO; Lahcen NABZAR; Quang-Long NGUYEN, FRANCE; Frédéric DOUARCHE, IFP Energies nouvelles, France;

Integrated IOR Technologies for Heavy Oil Pools

Liubov Altunina, Director of Institute, Institute of Petroleum Chemistry, Siberian Branch, Russian Academy of Sciences, Russian Federation,

Co-authors: Vladimir Kuvshinov, Institute of Petroleum Chemistry, Siberian Branch, Russian Academy of Sciences; Mikhail Chertenkov, LLC LUKOIL-Engineering, LUKOIL; Stanislav Ursegov, PechorNIPIneft Ltd, LLC LUKOIL-Engineering, Russia;

Application of Enhanced Oil Recovery: Russian Experience

Elena Lazko, Partner, Deloitte CIS, Russian Federation,

Novel Approaches to Profile Modification in High Water Cut Oilfield---Case Study

He Liu, Deputy Chief Engineer, Research Institute of Petroleum Exploration and Development, CNPC, China,

Co-authors: Chunming Xiong; Xu Hanbing, Research Institute of Petroleum Exploration and Development, CNPC, China;

Experimental Investigation of the effect of injection rate and injection position during DDP, SCWD

siyu yang, , RIPED CNPC, China,

The World Largest Nitrogen Based IOR Project in the Giant Field Cantarell, Mexico - Review and Case Study of a Forgotten Technology with High Potential

Ulrich Heucke, Director Business Development, Linde AG, Germany,
Co-author: Marcus Guzmann, The Linde Group, Germany;

Mature and Giant Field Performance Monitoring and Optimization System/Hassi Messaoud Algerian Field Case Study

Abdelmadjid Aissani, Senior Petroleum Engineer, SONATRACH, Algeria,

Huff and Puff Rigless Reduce Opex with Rig and Increase Value Present Liquid

Rafael Nunes, Student, Universidade Tiradentes, Brazil,
Co-authors: Ana Paula Santana, Universidade Tiradentes; André Silva, Petrobras, Brazil;

Smart Water Flooding Experiments with Automated Equipment for Inline Resistivity and Sound Velocity Measurements

Ioannis Xiarchos, Post Doc, Center for Energy Resources Engineering - Technical University of Denmark, Denmark,
Co-authors: Philip Loldrup Fosbøl; Mohammad Monzurul Alam; Lykourgos Sigalas; Chaudhary Bilal Shaukat; Ida Lykke Fabricius; Alexander Shapiro; Kaj Thomsen, Center for Energy Resources Engineering - Technical University of Denmark, Denmark;

Enhanced Oil Recovery by ASP Flooding

Ruslan Mazitov, category -2 engineer, KogalymNIPIneft, LLC LUKOIL-Engineering, Russian Federation,

EOR Pilot Field Trial with The Polysaccharide Schizophyllan

Burkhard Ernst, Senior Engineer, Wintershall Holding GmbH, Germany,

F02 - Exploration and production in the Arctic

Monday 16th June 16:00 - 17:30 (Block 1)

Poster Session Tuesday 17th June 13:00 - 15:00 (Poster Plaza)

The Arctic region is one of the last remaining frontiers for E&P. Covering a large area under ice and mid-ocean conditions, access to geoscience & engineering data, knowledge, expertise and technology are critical for taking on the economic and technical challenges facing the industry. Innovative solutions requiring large investments, sound regulations and prudent environmental protection will be necessary to develop the Arctic resources. Building on exploration and production activities in offshore Arctic territories, established research programs, new concepts for development design, production and transportation are key topics addressed in this forum.

Chair Mr. Nicholas Alan Maiden, SVP Exploration, Statoil, Norway,

Vice Chairs Dr. Vasily Bogoyavlensky, Deputy director, Oil and Gas Research Institute, Russian Academy of Sciences, Russian Federation,

F02 Papers

Technologies for Russian Arctic Exploration and Development

Jed Hamilton, Senior Arctic Consultant, ExxonMobil Upstream Research Company, United States,
Co-author: Steve Harding, First Deputy Director, Arctic Research Center, Russia;

Exploration and Production in the Arctic

Sissel Eriksen, Director Exploration, Norwegian Petroleum Directorate, Norway,

The Arctic and World Ocean: Current State, Prospects and Problems of Hydrocarbon Resources Development

Vasily Bogoyavlensky, Deputy director, Oil and Gas Research Institute, Russian Academy of Sciences, Russian Federation,

Facing Environmental and Social Challenges for the Oil & Gas Industry in the Arctic

Piera Raffaella Turati, professional social initiatives, Eni E&P, Italy,
Co-authors: Melania Buffagni, SEQ-AMTE, Italy; Eirik Darell Holand; Erik Bjornbom, Eni Norge AS, Norway;

F02 Posters

Gas-To-Wire System for Gas Production from Methane Hydrates Reserves

Kyuro Sasaki, Professor, Kyushu University, Japan,
Co-authors: Yuichi Sugai; Shinji Ono, Kyushu University, Japan;

Technologies to Unlock Gas Resources in the Arctic

Edmond Coche, Extreme Cold Development, TOTAL, France,
Co-authors: Annie Audibert-Hayet; Kaj Riska; Philippe Blanc; Gérard Alvini, Total, France;

Numerical Modelling of Ice Gouge Using Experimental Validation

John Oliphant, Geotechnics Manager, Technip, United Kingdom,
Co-authors: Sangeet Patra, Technip; Ana Ivanovic; Sergi Arnau, University of Aberdeen, United Kingdom;

How Digital Oilfield Solutions Improve Operational Safety, and Profitability: Balancing Evolution with Revolution.

Eva-Katrine Hilmen, Business Manager, ABB, Norway,

Innovative Design of Fully Electric Subsea X-Mas Tree for Arctic Environment: eni JESS

Stefano di Vincenzo, completion, work over, artificial lift and subsea general manager, Eni E&P, Italy,
Co-authors: ANTONINO LOY, ENI E&P; Antonio Terribile; Mauro Favaretto, TECNOMARE, ITALY;

Arctic Exploration: What Is Required for Safe and Environmentally Responsible Well Construction Activities?

Mikhail Mosesyan, manager, LUKOIL Overseas North Shelf AS, Russian Federation,
Co-authors: Sergey Suchok ; Marat Mukhoryamov , LUKOIL Overseas Services B.V., Dubai branch; Leonid Surguchev , LUKOIL Overseas North Shelf AS, ;

Organization of Systems for Prevention and Elimination of Oil Spills in Ice Seas

Vladimir Smorodin, Technical Director, Phoenix Expert Service Center Ltd., Russian Federation,

Estimation of Minimum Hydrocarbon Resources in Arctic Offshore Prospect for Its Profitable Development

Artem Shpakov, PhD Student, Gubkin Russian State University of Oil and Gas, Russian Federation,
Co-author: Anatoly Zolotukhin, Gubkin Russian State University of Oil and Gas, Russian Federation;

Headnotes from the Report of the Representative of LUKOIL's Department for Industrial Safety, Environment, Research and Technology

Igor Zaikin, Head of the Department, LUKOIL, Russian Federation,

F03 - Deep water exploration and production

Tuesday 17th June 14:15 - 15:45 (Block 1)

Poster Session Wednesday 18th June 11:00 - 13:00 (Poster Plaza)

Fossil fuels will remain as the world's major supply of energy in the future. The growing demand of energy requires increasing production by continuous discovery of new hydrocarbon fields, production at even greater water depths, more over pressured, more hostile environments, and reservoirs buried at great depths. Access to knowledge, technology and expertise with project excellence and operational integrity, have enabled the industry to pioneer exploration and production techniques in some of the most difficult environments, including deep and ultra-deep water depths. In addition, development of satellite reservoirs tied to very distant processing unit, while coping with the difficulties of more and more viscous oil are part of the technology challenges experienced and still has to be faced by the industry. Integrated solutions and E&P innovations continue to make the deep water a viable prospect globally, where some of the most recent giant discoveries will continue to be made.

Chair Mr. Joao Carlos Figueira, Senior Petroleum Geophysicist, PETROBRAS, Brazil,
Vice Chairs Dr. Emmanuel Bekee, Assitant Director, Department of Petroleum Resources, Nigeria,

F03 Papers

Managing Risk in Deepwater Frontiers - Key Learnings from Five Continents

Andreas Masvie, Vice President, Russia & Kazakhstan, DNV, Norway,

Adapting to a "Fast Track" World: How to Combine a Development Project Road Map with Near Field Exploration Campaign. PROS and CONS from a Real Case Development Experience in West Africa Deep Water

Saadoun Banoori, Angola Reservoir Team Leader, Eni E&P, Italy,
Co-authors: Fabio Roncarolo; Raffaele Giardini; Loris Tealdi, eni, ITALY;

Extracting Value from Deep-water Resources Across the Full Asset Life-Cycle - Global Experience and Russia Applications

Tim Garfield, Senior Technical Consultant, ExxonMobil, United States,
Co-authors: Vitor Abreu, ExxonMobil Exploration Co.; Duncan Erratt, ExxonMobil Upstream Research Co.; Frank Goulding, ExxonMobil Production Co.; Randy Kissling, ExxonMobil Development Co., USA; Tim Streltsov, Rosneft, Russia;

Challenges and Solutions to Develop Brazilian Pre-salt Deepwater Fields

Anelise Lara, Executive Manager, Petrobras, Brazil,
Co-authors: Antonio Carlos Capeleiro Pinto; Celso Cesar Moreira Branco, Petrobras, Brazil;

F03 Posters

Aasta Hansteen Development: Opening a New Gas Region. Extending Gas Infrastructure.

Torolf Christensen, Vice President Aasta Hansteen field development project, Development and Production Norway (DPN), Field Development (FD), Statoil, Statoil, Norway,

Advanced Technologies and Practical Solutions for Challenging Deepwater Drilling Applications

Michael Jellison, Senior Vice President - Engineering, National Oilwell Varco, United States,
Co-author: Alvaro Chan, Workstrings International, Brazil;

Deep Water Exploration and Development Potential and Future Prospect

Peihai Jiang, , Sinochem, China,
Co-authors: Xiaoyan Zhu; Zhikun Jia, China; Mailun Duan, Sinochem, china;

Deepwater Flow Assurance - Evaluation of Existing Concepts and Emerging Trends: An Indian Perspective

Dhaval Gupta, Student, Reliance Industry Ltd., India,
Co-authors: Vijai Baskaran, Greka Drilling Ltd.; Vinay Gupta, Oil and Natural Gas Corporation Ltd.; Kamal Dani, Greka, India; Sagar Varyani, , ;

Late Cretaceous Turbidites Exploration in the Equatorial Atlantic Margins, From Ghana and French Guiana to Brazil

Fangfeng Xiao, , Sinochem Petroleum E&P, China,
Co-authors: Li Guo; Dajing Zhang; Huaxing Shi, Sinochem Petroleum E&P, China;

The Continued Success Story of the Deep-Water Gas Play Offshore Israel

Michael Gardosh, Head of G&G section, Ministry of Energy, Israel,

Innovative Cluster Based Development of Deepwater Discoveries in the East Coast of India - A Challenge and Necessity

Ravishankar Burla, Chief Engineer(Prod), ONGC Ltd.,, India,

Petroleum System and Exploration Implication of the Deepwater Qiongdongnan Basin, Northwestern South China Sea: Learning from the New Wells

Zhipeng SUN, Project Manager, CNOOC Ltd.- Zhanjiang, China,
Co-author: Zhenfeng WANG, , ;

Offshore Development in the Argentinean & Uruguayan Sea: Stretching the Limit

Gustavo Acosta, Professor, ITBA, Argentina,

F04 - Unconventional oil and gas exploration and production

Tuesday 17th June 16:00 - 17:30 (Block 1)

Poster Session Wednesday 18th June 13:00 - 15:00 (Poster Plaza)

New technologies are needed across the entire range of E&P activities, including exploration, characterization, stimulation and responsible use of water resources. This session will address the broad range of technologies employed to responsibly explore for, characterize, and produce unconventional resources.

Chair Mr. John Wright, President and Chief Executive Officer, Lightstream Resources, Canada,
Vice Chairs Prof. Jerzy Stopa, Vice Chairman of Petroleum Engineering Chair, AGH-University of Science & Technology, Poland,

F04 Papers

Global Expansion of Shale Developments

Glenda Wylie, Director - Global Technical Marketing, Halliburton, United States,

Indian Shale Gas: Not a Distant Dream

Tapobrato Rana, Superintending Engineer (Production), Oil and Natural Gas Corporation, India,
Co-author: Debasis Roy, Oil and Natural Gas Corporation, India;

Colombian Energy Outlook Based on Unconventional Oil and Gas Reserves with Projection to 2030

Favio Yovany Jimenez Inocencio, Vice President, Ecopetrol, Colombia,
Co-authors: Vyacheslav Kafarov, Industrial University of Santander; Néstor Fernando Saavedra Trujillo, ECOPEPETROL, Colombia;

Innovative Unconventional² EOR, an Unconventional Tertiary Recovery Approach to an Unconventional Reservoir

Michael Schmidt, Supervisor, Enhanced Oil Recovery, Lightstream Resources Ltd., Canada,
Co-author: BK Sekar, Lightstream Resources Ltd., Canada;

F04 Posters

Water and Shale Gas Development

Melissa Stark, Partner, Clean Energy Lead, Accenture, United Kingdom,

West Siberia Unconventional Resources: Exploring for the Bazhenov Resource Play

Mike Peacock, Exploration Manager, ExxonMobil Russia Inc., Russian Federation,
Co-authors: Dan Jackofsky, ExxonMobil Russia Inc.; Igor Afanasiev, Rosneft, Russian Federation;

The Research on Characteristics of Microscopic Pore Structure and Effective Development of Changqing Tight Oil Reservoir

Zhengming Yang, Deputy Chief Engineer, CNPC, China,
Co-authors: Yutian Luo; Ying He, Research Institute of Petroleum Exploration and Development-Langfang, CNPC, China;

Bakken Development: Pathway to Success, Roadmap to a New Tomorrow

Torstein Hole, Senior Vice President US Onshore, Statoil, United States,
Co-author: Lance Langford, Statoil, United States;

Advances in Shale Gas Development in Poland

Rychlicki Stanislaw, Full professor, AGH - University of Science & Technology, Poland,
Co-authors: Jerzy Stopa, AGH - University of Science & Technology; Jaroslaw Polit, Polish Oil and Gas Company, Poland;

Shale Gas Prospects in Indian Basins: Contributions to World's Unconventional Energy Resources

Kamal Dani, Assistant Manager, Greka Drilling Ltd., India,
Co-authors: Vijai Baskaran; Dharmendra Gupta, University of Petroleum and Energy Studies; Dhaval Gupta, Reliance Industry Ltd.; Vinay Gupta, Oil and Natural Gas Corporation, India;

Exploring Possible Nonconventional Pre-treatment Technologies to Transport Waxy, Extra-Viscous Crude Oils

Massimo Iovane, Project Engineer, Eni E&P, Italy,
Co-authors: Cristian Spampinato, Saipem; Michele Margarone; Sebastiano Correra, Eni E&P, Italy;

High-Resolution Seismic Acquisition and Processing of 3D-1C and 3D-3C Data for Shale Gas/Oil Plays in Mexico

Rafael Ávila-Carrera, Research Project Manager, Instituto Mexicano del Petróleo, Mexico,

F05 - New technologies for geosciences

Tuesday 17th June 14:15 - 15:45 (Room 5)

Poster Session Wednesday 18th June 15:00 - 17:00 (Poster Plaza)

The industry continues to generate opportunities via technological innovations to enhance its success in locating, extracting and transporting oil and gas supplies to meet global demand. Technology is a key driver in our industry's ability to meet increasing demand. It has given us the ability to supply energy from resources once considered impossible to access. Technology allows us to maximize recovery of hydrocarbons, positively impact development effectiveness and improve operational reliability and integrity. Technology continues to expand and extend the possibilities - at its very best it is a game changer. This forum will address innovations from the outcrops to assets, ranging from exploring hydrocarbons more effectively and to developing new options. The challenge is to develop cost-effective technologies that reduce the environmental footprint of their utilization and tackle such issues as seismic advances to image in complex geological and environmental conditions.

Chair Mrs. Catherine MacGregor, President Europe and Africa, Schlumberger, France,

F05 Papers

Application of Triaxial Induction Measurements for Estimation of Oil Saturation for Complex Thin-Laminated Western Siberia Reservoirs

Anton Filimonov, Petrophysics Domain Champion, Schlumberger, Russian Federation,
Co-authors: Frank Shray; Dmitry Ezersky, Schlumberger; Mikhail Martynov, RN-Nyaganeftegaz; Aleksey Khabarov, RN-TPRC; Evgeny Shkunov, LLC "NOVATEK Scientific and Technical Center"; Chingiz Baybikov, CJSC "Terneftegaz", Russian Federation;

High-Performance Computing: Towards a Safer, Faster and Sharper Exploration & Production

ALABERT François, Vice President Exploration Technologies, TOTAL, France,
Co-authors: Philippe MONTAGNIER; Frederic MAUBEUGE; Olivier DUBRULE; Evelyne TOURTE, Total S.A., France;

Simultaneous Source Acquisition for Exploration and Development Surveys

David Ellis, Seismic R&D manager, BP, United Kingdom,

Full Wavefield Inversion: A Paradigm Change in the Imaging and Interpretation of Seismic Data

Michael Deal, Geophysics Function Manager, ExxonMobil Upstream Research Company, United States,
Co-author: Gavin Wall, ExxonMobil Upstream Research Company, United States;

F05 Posters**Experimental Study on Hydraulic Fracturing in Shale and Its Application in Chinese Shale Gas Development**

Baoping Zhang, Chief Scientist, SINOPEC, China,

Advanced Real-Time XRD-XRF Mineralogical and Chemical Analysis to Improve Carbonate Characterization in a HP-HT Deep Reservoir (Po Valley - Northern Italy)

Stefano Mazzoni, Operations Geology Team Leader, Eni E&P, Italy,
Co-authors: Giacomo Palmeri; Franco Sirtori; Sandro Venturini; Carlo Carugo; Elisabetta Previde-Massara, eni, Italia; Gionata Ferroni; Fabio Rivolta, GEOLOG, Italy;

Reservoir Triggering Events for Coupling Geomechanical and Fluid Flow simulations

Ulisses Mello, Director, IBM Research, Brazil,
Co-authors: Mookanahallipatna Ra Ramasesha Lakshmikantha; Jose Maria Segura Serra; Nubia Aurora Gonzalez Molano, Repsol, Spain; Carmen Paz, Brasil; Eduardo Rocha Rodrigues; Roberto Federico Ausas, IBM - Research Brasil; Freddy Mackay, IBM Research, Brazil;

Determination of the Initial Potential of a Source Rock

Hulya Yilmaz, Geological Engineer, TURKISH PETROLEUM CORPORATION, Turkey,
Co-author: Yasar Akcay, TURKISH PETROLEUM CORPORATION, Turkey;

Petroleum System Modelling To Understand the Hydrocarbon Generation and Charge Prediction in the Barmer Basin, India

Bodapati Narayana Swamy Naidu, Advisor Geology, Cairn India, India,
Co-authors: V. Kothari; Stuart Burley, Cairn India, India;

Life-Field: Innovative Approach To LUKOIL Fields Development Through the Implementation of Intelligent Field Technologies

Sergey Budlov, LIFE-Field Project Manager, LUKOIL Overseas, Russian Federation,

New Workflow of Reservoir Thermal Property Investigations in Application to Thermal Methods of Heavy Oil Production and Basin Modeling

Yury Popov, Scientific Advisor, Schlumberger, Russian Federation,
Co-authors: Dimitri Pissarenko; Anton Parshin; Evgeny Chekhonin; Sergey Safonov; Mikhail Spasennyih; Irina Bayuk; Dmitry Miklashevskiy; Nikolay Tarelko; Evgeny Popov, Schlumberger, ;

F06 - Challenges in complex geological environments

Wednesday 18th June 14:15 - 15:45 (Block 1)

Poster Session Thursday 19th June 11:00 - 13:00 (Poster Plaza)

Recently more and more new discoveries have found oil and gas in very complex geological environments, such as sub-salt layers, carbonate reservoirs with highly heterogeneous reservoir quality, igneous and metamorphic rocks with poorly predictable fracture systems, heavily folded zones with steeply dipping layers, and reservoirs with fresh water aquifers amongst others. Modern technologies should be adapted to each of them to find the respective solutions individually. General solutions do not exist.

Chair Dr. Jason Canning, Head of Geology, BG Group plc, United Kingdom,
Vice Chairs Mr. Rafael Tenreiro-Perez, Exploration Manager, Cubapetroleo, Cuba,
Mr. Hossein Roshandel, Managing Director, Dana Oil and Gas Company, Iran,

F06 Papers**Progresses and Applications of Seismic Exploration Techniques for Complex Mountain Areas**

Xiaobin Zhang, Chief Engineer, Sichuan Geophysical Company, Chuanqing Drilling Engineering Company Limited, CNPC, China,
Co-authors: Yalin Li; Xiaojun Han, Sichuan Geophysical Company, Chuanqing Drilling Engineering Company Limited, CNPC, China;

Basaltic Reservoirs of the Yurihara Oil and Gas Field : a Path to Geological Modeling

Koji Kawada, General Manager, North American Shale Project Dept. Americas & Russia Project Division, Japan Petroleum Exploration Co. Ltd. (JAPEX), Japan,
Co-author: Yasuo Yamada, Japan Petroleum Exploration Co.Ltd., (JAPEX), Japan;

Pressure and Migration Prediction by Hydrodynamic Modeling

Marcell Lux, HC Exploration Geologist, MOL Plc., Hungary,
Co-authors: Ahmed Amran; Marianna Vincze, MOL Plc., Hungary;

Geologically Complex Basins: Challenges and Opportunities

Kurt Rudolph, Chief Geoscientist, ExxonMobil, United States,
Co-authors: Duncan Erratt, ExxonMobil International Limited, United Kingdom; Patrick Lehmann, ExxonMobil Exploration Company, United States;

F06 Posters**Challenges in Petroleum Exploration in Heavily Folded Zones with Steeply Dipping Layers: An Example from Mizoram Exploration Block, NE India**

Ajoyananda Borthakur, Head -- Geoscience, Oil India Limited, India,
Co-authors: Diganta Changmai, Oil India Limited; Dilip K Mukhopadhyay, Indian Institute of Technology, Roorkee, India;

Geological Analysis of Complex Porosity System of the Ahwaz Sandstone Member

Katayoun Rashidi, MSc. Student, Islamic Azad University (North Tehran Branch), Iran,
Co-authors: Mehran Azzadeh, Research Institute of Petroleum Industry (RIPI); Sadjjad Kazem Shiroodi, Iranian Offshore Oil Company (IOOC); Mahmoud Almasian, Islamic Azad University (North Tehran branch), Iran;

Complex Gas Bearing Carbonate Reservoir Evaluation - A Case Study From Saudi Arabia

Said Mahiout, Petroleum Engineer, Aramco, Saudi Arabia,
Co-authors: Edward Clerke; Ali Belowi; Khalid Qubaisi; Ammar Qatari, Aramco, Saudi Arabia;

Semi-Conventional Plays: the Case of the Low Permeability Chalk Reservoir

Alessandro Sandrin, Senior Geophysicist, Maersk Oil, Denmark,
Co-author: Finn Engstrom, Maersk Oil, ;

Rheology of Salt in the Persian Gulf Basin (an Integrated Approach, Geophysical, Geological and Volume Calculation)

Changiz Amirbehboudi, Manager of Interpretation and Reservoir Characterization, Dana Geophysics Company, Iran,
Co-authors: Mohsen SeyedAli, IOOC; Mohammadali Salehi; Noushin Ghasemi Dana; Mostafa Khorshidi, Dana Geophysics Company; Ali Chehrazhi, IOOC; Mohammad Reza Kamali, RIPI; Ehsan Nosrat, WSI, Iran;

NMR Pore Size New Modelling In Heterogeneous Carbonate Reservoir Characterization

Mohammad Ebrahim Shafiee, General Manager Technology Affairs, National Iranian Oil Company (NIOC), Iran,
Co-authors: Apostolos Kantzas, University of Calgary, Department of chemical and Petroleum Engineering, Canada, AB; Ali Esmailnejad, Iran University of Science and Technology (IUST), Iran;

An Integrated 3-D Modeling Which Leads to Promising Characterization of Heterogeneous Carbonate Reservoir

Saeed Sajjadian, , NIOC, Iran,
Co-authors: Mohammad Ali Emadi; Vali Ahmad Sajjadian; Vahid Mahmoudian Ata Abadi, , ;

Formation Testing Technologies - One of the Keys for Effective Oil-Rim Reservoir Development

Sergey Novikov, Formation Evaluation Reservoir Engineer, Schlumberger, Russian Federation,
Co-authors: Peter Weinheber; Mikhail Charupa, Schlumberger; Maurizio Piana, ArcticGaz, Russian Federation;

New Progresses in Oil and Gas Exploration Technologies of Caspian Salt Basin

Wang Zhen, senior engineer, Research Institute of Petroleum Exploration & Development, CNPC, China,
Co-authors: Zheng Junzhang; Xue Liangqing; Wang Yankun; Kong Linghong; Xu Keqiang; Huang Xianxiong; Luo Man, , ;

F07 - Advanced drilling and production technologies

Wednesday 18th June 16:00 - 17:30 (Block 1)

Poster Session Thursday 19th June 13:00 - 15:00 (Poster Plaza)

Advances in drilling and production technologies have increased the upper limit of ultimate recoverable resources from both new and mature fields. Challenging environments have required development of technologies to access resources in deeper water, sub-salt, high pressure, high temperature and sour gas fields. This session covers the full spectrum of drilling and production technologies.

- Chair** Mr. Henk Vasmel, Vice President Wells and Facilities Engineering, Innovation and R&D, Shell, Netherlands,
- Vice Chairs** Prof. Yijin ZENG, Vice President, SINOPEC Research Institute of Petroleum Engineering, China, Mr. Nicolás Gerardo, Drilling Coordinator, REPSOL, Spain,

F07 Papers

Technology Evolution in a Giant Saudi Aramco's Field Development

James Arukhe, Lead Petroleum Engineer, Saudi Aramco, Saudi Arabia,
Co-authors: Shadi Hanbazah; Abdulrahman Ahmari, Saudi Aramco; Moustapha Bal, Schlumberger; Saleh Al Ghamdi, SAUDI ARAMCO, Saudi Arabia;

The Drilling Technologies of Ultra-Deep High-Pressure Acid Gas Well in Northeast Sichuan Area, China

Niu Xinming, Drilling Research Institute Director, SINOPEC, China,

Sakhalin-1: Technologies to Efficiently Drill and Develop Resources While Expanding the ERD Envelope

Michael Walker, Sr. Drilling Consultant, ExxonMobil Development Company, United States,
Co-author: Rich Molloy, Exxon Neftegas Limited, USA;

Evolution of Fracturing Fluids in Russia: Trends, Innovations, and Field Application Results

Denis Vernigora, Fluid Technical Engineer, Schlumberger, Russian Federation,
Co-authors: Marina Bulova, Russia; Dan Fu, Malaysia; Bernhard Lungwitz, Brazil; Philippe Enkababian, US; Olesya Olennikova, Schlumberger, Russian Federation ;

F07 Posters

Wellcon : A safer Approach for Well control

Gopal Bansal, ASSISTANT EXECUTIVE ENGINEER (E1), OIL AND NATURAL GAS CORPORATION LIMITED, India,

Extremely Hard Rock Drilling In Proterozoic Formations : An Experience from 142 Rig-Days by Conventional to 142 Rig-Hrs by Air Percussion Drilling

Sanjay Kishore Shrivastava, DGM (DRILLING), ONGC, India,

Oil Recovery Enhancement of Long-Term Operation Oil Wells by Nano Metal Particles Exposure

Elmira Ramazanova, Director, Geotechnological Problems of Oil, Gas and Chemistry SRI, Azerbaijan,
Co-authors: Fakhraddin Murvatov, Geotechnological Problems of Oil, Gas and Chemistry SRI; Alimammad Shabanov, Geotechnological Problems of Oil, Gas and chemistry SRI; Haji Malikov, Geotechnological Problems of Oil, Gas and Chemistry SRI; Nazim Veliyev, State Oil Company Azerbaijan Republic, Azerbaijan;

Mittelplate: 25 Years of Applied Technology and the Look Ahead

Thies Dose, General Manager Reservoirs, RWE Dea AG, Germany,
Co-authors: Martin Jungbluth, RWE Dea; Uwe Balasus-Lange, RWE Dea AG, Germany;

A New Additional Downhole Well Barrier While Drilling: Field Experiences in Drilling Operations

Paolo Ferrara, Technical Leader - Drilling & Completion R&D, Eni E&P, Italy,
Co-authors: Paolo Ferrara; Alberto Maliardi; Claudio Molaschi, eni, Italy; Joachim Oppelt, Germany; Arald Grimmer, Baker Hughes, ;

Aluminium Alloys Casing for Timan-Pechora field with High H₂S and CO₂ Content

Vladimir Sledkov, Head of Drilling & Completion Technologies Department of LUKOIL-Engineering Ltd., LUKOIL, Russian Federation,
Co-authors: Dmitry Basovich , Akvavik DP; Denis Loparev, LUKOIL-Engineering Ltd., ;

F08 - Integrated reservoir management and surveillance

Thursday 19th June 14:15 - 15:45 (Block 1)

Poster Session Wednesday 18th June 13:00 - 15:00 (Poster Plaza)

The surveillance of the reservoirs is a tool of controlling the validity of the static models ("geofantasy"). Feeding back the surveillance data to the static and dynamic models for resolution of them is / can be improved. This will add to the prolongation of the life cycle of the production or even to identification of upsides. Additionally, a better understanding of the processes in the reservoir can provide ideas of efficient water management and early application of secondary tertiary production methods.

- Vice Chairs** Mr. Morten Agesen, Senior Director, DONG E&P - Commercial & Finance, Denmark, Dr. Kazuhiko TEZUKA, Senior Manager of Development and Engineering Laboratory, Research Center, Technical Division, Japan Petroleum Exploration Co., Ltd. (JAPEX), Japan,

F08 Papers

Optimized Water Injection in a Mature Chalk Field by Application of Streamline Simulation and Gas Lift Optimization

Kent Johansen, Reservoir engineer, Dong energy, Denmark,

Co-authors: L. J. K. Jensen; Charlotte Lindelöw-Marsden; Simon Bakshi, Dong Energy, Denmark;

A successful story of reservoir management

Silvia Vimercati, reservoir Engineer, Eni E&P, Italy,

Co-authors: Emanuele Vignati; Stefano Raniolo; Hector Giraud, Eni E&P, Italy; Pablo Gentil; Lucas Atencio, EniPetroleum, USA;

Simulation Study and Field Performance Analysis of the Prudhoe Bay Updip Zone 4 Miscible Gas Injection EOR Process

Samson Ning, Sr. Reservoir Engineer, BP, United States,

Co-authors: Yirong Jiang; John Isby, BP, USA;

Maximizing Oil Production and Optimizing Water Flood Performance in Carbonate Reservoirs via Utilization of Streamline Simulation Technology: A Case Study

Mohamed Nagib, Lead Engineer, Aramco, Saudi Arabia,

Co-authors: Qusai Alabdrubalnabi; Hassan Zayer; Paul Smith; Jamil Thuwaini, Saudi Aramco, Saudi Arabia;

F08 Posters

Application of Comprehensive Production Optimization Techniques Based on Study of Detailed Reservoir Characteristics at Offshore Waterflooding Oilfield

Wang Yunxian, Supervisor, CNOOC, China,

Co-authors: Zhao Chunming; Yang Qinghong, CNOOC Ltd.-Tianjin; Liu Ming, CNOOC Ltd.; Fan Haiyan, CNOOC Uganda Limited; Wang Lirong, CNOOC Ltd.; Zhao Xiujuan; Zhou Zijun; Hou Dongmei; Feng Xin, CNOOC Ltd.-Tianjin, China;

Enhanced Gas Recovery from South Pars Gas Reservoir

valiahmad sajjadian, Technical manager, National Iranian Oil Company, Iran,

Co-authors: Mohammadali Emadi; Saeed Sajjadian, National Iranian Oil Company, Iran;

Using Separated Molecular Weight and Pressure for Zonal Layer Injection Technique to Improve Pay-Gross Thickness Ratio in ASP Flooding

Jiecheng Cheng, Deputy Chief Engineer, Daqing Oilfield Limited Company, CNPC, China,

Co-authors: Junzheng Wu; Meng Cai, Daqing Oilfield Limited Company, CNPC, China;

Comprehensive Reservoir Monitoring Program: Challenges, Design, Implementation, and Added Value in a Large Carbonate Reservoir

Ali AlJulaih, Petroleum Engineer, Saudi Aramco, Saudi Arabia,

Co-author: Naseem AlDawood, Saudi Aramco, Saudi Arabia;

Data Integration and Surveillance Enhances Reservoir Characterization and Management of a Big Gas Field

Akim Kabir, Consultant Petroleum Engineer, Saudi Aramco, Saudi Arabia,

Recent Developments and Remaining Challenges of Chemical Flooding EOR Techniques in China

Youyi Zhu, Director, Research Institute of Petroleum Exploration and Development, CNPC, China,

Co-authors: Xinmin Song; Yuzhang Liu, Research Institute of Petroleum Exploration and Development, CNPC, China;

21th century well logging and permanent downhole monitoring application as a “smart fields” indication

Danila Gulyaev, docent, Gubkin Russian State University of Oil and Gas, Russian Federation,

Co-authors: Viktor Martynov; Andrey Ipatov; Mikhail Kremenetskiy, Gubkin university, Russian Federation;

Long-term Microseismic Monitoring for Geomechanical Surveillance of Reservoir and Seal Integrity

Yusuke Kumano, Geophysicist, JGI, Japan,

Co-authors: Kazuhiko Tezuka; Akihisa Ashida; Yutaka Ohsaki, JAPEX; Yoshihiro Nakatsuka, JOGMEC, Japan;

DIET: An Integrated Approach for Getting the Right Surveillance Data and Maximizing Its Value

Hani Al-Kharaz, Senior Advisor, RasGas Company Limited, Qatar,

Co-authors: Asfandiar Ansari; David Blackall; Michael Martin; Mohammad Farooqui, RasGas Company Limited, Qatar;

Application of Chemical Tracers for Clean-up and Production Inflow detection for multi-zone completion: successful eni experiences

giacomo nutricato, completion engineer, Eni E&P, Italy,

Co-authors: roberta russo; giuseppe galli; antonio sgambati; carmen repetto; fabio roncarolo; carmela sarli, eni e&p, italy;

BPK1 - Management of Arctic and deep water mega projects

Monday 16th June 12:00 - 13:00 (Block 1)

The oil and gas industry generates mega projects. In the recent past, we have seen such very large, integrated and complex projects in the deep waters. Innovative technologies have made these projects possible (giant FPSOs, subsea oil / gas separation...). Arctic appears now to have quite large hydrocarbons resources with new technical, logistical or environmental challenges. Extreme weather conditions (very low temperatures, strong winds, presence of ice bergs...) and a very sensitive Arctic environment constitute new difficulties for the oil and gas industry. This session aims to describe the best practices in the management of such deep water or Arctic mega projects, from the discovery till the first oil. This includes not only the technical aspects, but also the human resources or HSE challenges for instance.

Chair Mr. James Flood, Vice President, ExxonMobil Development Company, United States,
Speakers Mr. Michel HOURCARD, Senior Vice President Development E&P, TOTAL, France,
 Mr. Neil Gilmour, Vice President Development, Integrated Gas, Shell, Singapore,

BPK1 Papers

Management of Arctic and deep water mega projects

Michel HOURCARD, Senior Vice President Development E&P, TOTAL, France,

Shell technology innovation unlocks major new energy resources

Neil Gilmour, Vice President Development, Integrated Gas, Shell, Singapore,

BPK2 - Best practice for managing E&P risks

Tuesday 17th June 12:00 - 13:00 (Block 1)

The key issue in enhancing the attractiveness of E&P projects for investors is to demonstrate that we are able to assess, mitigate and control the risk elements inherent in these. In subsurface modern acquisition and processing, visualization technologies matched to direct surface observations (mapping) and subsurface core analyses help to generate more reliable static models. Up-to-date drilling, completion and processing technologies help achieve an early development of the fields. Other risks i.e. marketing, financial, economic, political and legal risks also have to be considered.

Chair Mr. Paulo Costacurta, E&P Strategy&Portfolio General Manager, PETROBRAS, Brazil,
Speakers Mr. Martin Bachmann, Member of the Board, Ressort "E&P - Exploration and Development",
 Wintershall Holding GmbH, Germany,
 Mr. Ali Moshiri, President, Chevron, United States,

BPK2 Papers

Best practice for managing E&P risks

Ali Moshiri, President, Chevron, United States,

Reducing E&P risks through sophisticated partnerships, rigorous portfolio management and innovative technology

Martin Bachmann, Member of the Board, Ressort "E&P - Exploration and Development", Wintershall Holding GmbH, Germany,

Best practice in managing E&P risks: The right people using the right technology in the right partnerships

Ali Moshiri, President, Chevron, United States,

RT01 - Where should we look for new resources?

Monday 16th June 10:15 - 11:45 (Room 5)

The oil and gas industry is responsible to deliver the new supplies of energy in a safe, secure and environmentally responsible way to meet global demand. Meeting this rising demand will require us to develop many challenging resources and we will need to pursue all commercially viable energy sources. This will take the ingenuity of our people and continued advancements in technology. Many of these potential resources will be in harsh and remote locations or come from unconventional resources such as shale gas and oil sands as well as enhanced recovery of existing conventional fields. In the future, the search for new resources will continue to require more efficient exploration and production technologies, rejuvenate old ideas and move to new frontiers at a continuously increasing pace.

Moderator Mr. Jim McFarland, President and CEO, Valeura Energy, Canada,
Panelists Mr. Didier Holleaux, CEO, GDF SUEZ Exploration & Production International SA, France,
 Mr. Svein Ilebekk, CEO, Agora Oil & Gas (Cairn), Norway,
 Dr. Cesar Cainelli, Vice President of Exploration, Barra Energia do Brasil Petróleo e Gás Ltda, Brazil,
 Mr. Andrey Kuzyaev, Vice President of LUKOIL Group, LUKOIL Overseas, Russian Federation,

RT02 - What do we need for new geographic frontiers?

Wednesday 18th June 12:00 - 13:00 (Block 1)

When E&P operations commence in new areas, care must be taken to protect both the environment and local communities. What new technologies are needed to enable safe and responsible exploration and production from these new frontiers? How do we engage with the local communities to respect and address their current concerns and priorities from the earliest stages of exploration through to production and abandonment?

Moderator Mr. Miguel Moyano, Sustainability Director, ARPEL, Uruguay,
Panelists Mr. Jay Pryor, Vice President, Business Development, Chevron Corporation, United States,
 Mr. David Martin, Executive Vice President HSE and Social Performance, Shell Upstream International, Netherlands,
 Mr. Sandra Martinez, Corporate HSE and Community Relations Manager, Pluspetrol SA, Argentina,
 Dr. Sun Xiansheng, President, CNPC Economics & Technology Research Institute, China,

RT03 - How should we optimise cycle time from exploration to production?

Thursday 19th June 12:00 - 13:00 (Block 1)

Haste can lead to waste and unintended consequences. How can we profitably and responsibly expedite all phases of exploration and production so as to minimize the time between acreage acquisition and first oil? Risks to be addressed include adequate assessment of recoverable hydrocarbons to appropriately scale facilities and ensure that precautions and procedures are in place to safeguard the environment.

Moderator Mr. Philip Whittaker, Associate Director in energy practice, BCG, Spain,
Panelists Dr. Jeferson Luiz Dias, Exploration, PETROBRAS, Brazil,
 Mr. Simon Durkin, VP Safety, Environment & Social Performance, Shell, Netherlands,
 Mr. Misfer Azzahrani, General Manager at Upstream, Saudi Aramco, Saudi Arabia,
 Mr. Ahmed Usman, Vice President and Chief Reservoir Engineer, Baker Hughes, United States,

Block 2. Refining, Transportation and Petrochemistry

Forums

- F09 - Reducing the carbon footprint of fuels and petrochemicals
- F10 - Innovative catalytic processes for hydrocarbon conversion
- F11 - Technologies for biofuels production
- F12 - Oil and products pipeline transportation and storage
- F13 - Valorisation of Natural Gas Liquids (NGLs)

Best Practice Keynote Sessions

- BPK3 - Ensuring prudent operations in refineries
- BPK4 - Optimising transportation, blending and storage of oil and oil products

Round Tables

- RT04 - Influence of local product specifications on refinery modernisation
- RT05 - Sustainability of biofuels from different feedstocks
- RT06 - Challenges for integrating refinery and petrochemical complexes

F09 - Reducing the carbon footprint of fuels and petrochemicals

Monday 16th June 10:15 - 11:45 (Block 2)

Poster Session Tuesday 17th June 11:00 - 13:00 (Poster Plaza)

Techniques will be discussed which allow for the reduction of CO₂ emissions during the production and / or consumption of fuels and petrochemicals. Pertinent examples are: CO₂ recovery, cogeneration of electricity, recent developments in catalytic refining processes (deep hydrotreating, fluid catalytic cracking (FCC)), efficient hydrogen production and the catalytic valorisation of CO₂.

Chair Dr. Mikhail Rodkin, Vice President, BASF, United States,
Vice Chairs Dr. Jinichi IGARASHI, Executive Officer, General Manager, Central Technical Research Laboratory, JX Nippon Oil & Energy Corporation, Japan,

F09 Papers

Life Cycle Analysis of Greenhouse Gas Emissions and Water Consumption of Energy Resources

Michael Matturro, Lab Director, Corporate Strategic Research, ExxonMobil Research & Engineering Company, United States,

Co-authors: Adam Usadi, ExxonMobil Research & Engineering Company; Ramkumar Karuppiah, Exxonmobil Research & Engineering Company; Ian Laurenzi; Aranya Venkatesh; Venkatesh Vasudevan, ExxonMobil Research & Engineering Company, USA;

What Do Greenhouse Gas Scenarios Tell Us?

Dawn Manley, Senior Manager, Sandia National Laboratories, United States,

Accelerating Process and Catalyst Development in Reforming Reactions with High Throughput Technologies

Sascha Vukojevic, Sr. Business Development Manager, hte GmbH, Germany,

Co-authors: Stephan A. Schunk; Hauck Philipp; Kaiser Harry, hte GmbH, Germany;

F09 Posters

A New Residue Hydrotreating Technology of Integration of Ebullated Bed and Fixed Bed

Tao Yang, senior engineer, Fushun Research Institute of Petroleum and Petrochemicals, China,

The Development and Prospect of Diesel Deep Desulfurization Technology

Rong Guo, Director of Hydroprocessing Center, SINOPEC, China,

Co-authors: Xiangchen Fang; jihua Liu; chengmin Yang, SINOPEC, China;

Synthesizing Beta Zeolite with Heterogeneous Seed-Assisted in the Absence of Organic Template

Bin Xie, Engineer, Daqing Petrochemical Research Center, PRI, CNPC, China,

Co-authors: Chunmei Yu; Zhihua Zhang, Daqing Petrochemical Research Center, PRI, CNPC, China;

Greenhouse Gas Emission Reduction: An ORYX GTL Experience

Pon Saravanan, Greenhouse Gas Management Specialist, ORYX GTL, Qatar,

Research Needs for Advanced Internal Combustion Engines

Hong G. Im, Professor of Mechanical Engineering, Clean Combustion Research Center, Saudi Arabia,

Co-authors: SukHo Chung; Mani Sarathy; William Roberts, KAUST, Saudi Arabia;

Dry Reforming of Methane Over Novel Composite Catalysts for High Yield Synthesis Gas

Abdulaziz Bagabas, Associate Professor, King Abdulaziz City for Science and Technology, Saudi Arabia,

Co-authors: Michael Johnson, University of Oxford, United Kingdom; Abdullah Alabdulrahman, King Abdulaziz City for Science and Technology, Saudi Arabia; Liam France, University of Oxford, United Kingdom; Ahmad Alshammari, King Abdulaziz City for Science and Technology, Kingdom of Saudi Arabia; Peter Edwards, University of Oxford, United Kingdom; Hamid Al-Megren, King Abdulaziz City for Science and Technology, Saudi Arabia;

The Outline of JATOP (Japan Auto-Oil Program) and the Topics of Outcome - Measures and Issues in High Concentration Biodiesel Fuel Use

Manabu Watanabe, Deputy Director, Japan Petroleum Energy Center (JPEC), Japan,

Addressing the Increasing Demand for Hydrogen in Refining Industry While Limiting the Associated CO₂ Emissions

Karine Surla, Project Manager, IFP Energies Nouvelles, France,

Co-author: Pierre Marion, IFP Energies nouvelles, France;

Carbon Footprint Reduction Through Efficient Hydrogen Production

Koos Overwater, Vice President Hydrogen Product Line and Technologies, Technip, France,

Synthesis of Dimethyl Carbonate from CO₂ and Metanol

Jussara Miranda, PROFESSOR, Federal University of Rio de Janeiro, Brazil,

Co-authors: HEITOR BRENO FERREIRA, FEDERAL INSTITUTE OF RIO DE JANEIRO; CLAUDIO J A MOTA; THAIS SCHONTAG; IGOR A VOGEL; LUCAS ANDRADE, FEDERAL UNIVERSITY OF RIO DE JANEIRO, BRAZIL; Rita Maria Brito Alves; Paulo Couthinho, BRASKEM, Brazil;

F10 - Innovative catalytic processes for hydrocarbon conversion

Monday 16th June 16:00 - 17:30 (Block 2)

Poster Session Tuesday 17th June 13:00 - 15:00 (Poster Plaza)

This forum will discuss catalytic solutions to improve feedstock and/or product flexibility. Topics will include catalytic conversion of heavier refinery feedstocks (high sulphur and nitrogen contents); possibilities to directly use crude oil as feedstock for FCC and novel processes for isobutane / alkene alkylation on solid acid catalysts. Moreover, the flexibility between gasoline and diesel production and the increase of light alkene yields from FCC will also be topics covered in this forum.

Chair Prof. Avelino Corma, Professor, ITQ Valencia, Spain, Spain,

Vice Chairs Mr. RAJ KUMAR GHOSH, Director (Refineries), Indian Oil Corporation Ltd., India,
Dr. Rainer Albert Rakoczy, Global Product Manager Fuel Upgrading Catalysis, Clariant SE, Germany,

F10 Papers

Nanoemulsion Concept to Enhance Deep Slurry Hydrocracking Process

Marzieh Shekarriz, Head of Novel Technology Research Group, Research Institute of Petroleum Industry, Iran,

Co-authors: Jamshid Zarkesh; Forouzan Hajialiakbari; Ali Asghar Khalili, Research Institute of Petroleum Industry, Iran;

GTL: Innovation in Diesel Yield Improvement

Mostafa Shahin, Senior Process Engineer, ORYX GTL, Qatar,

Co-author: Mansoor Al-Marri, ORYX GTL, Qatar;

Commercialization of Hybrid Titania Catalyst for Hydrodesulfurization of Diesel Oil

Akihiro Muto, , Research & Development Center, Chiyoda Corporation, Japan,

Co-authors: Dai Takeda; Yukitaka Wada; Shinichi Inoue, Research & Development Center, Chiyoda Corporation, Japan;

High Severity Fluidized Catalytic Cracking (HS-FCC) - Go for Propylene!

Iwao Ogasawara, Senior Manager, JX Nippon Oil & Energy Corporation, Technical & Engineering Service Dept., Japan,

Direct Conversion of Ethene to Propene and Butenes over Medium Pore Zeolites

Sascha Follmann, Phd Student, University of Kaiserslautern (TU), Germany,

Co-author: Stefan Ernst, University of Kaiserslautern (TU), Germany;

F10 Posters

Commercial Experience of Operating FCC Unit with Low Catalyst-to-Feed Ratio

Mikhail Levinbuk, Professor of the Technology of Oil Refining Department, Gubkin Russian State University of Oil and Gas, Russian Federation,

Co-authors: Ilya Maksimov; Sergey Kuznetsov, JSC Gazprom нефт Moscow Refinery, Russia;

An Efficient Solution to the Conversion of Heavy Hydrocarbon Residue

Khusain Kadiev, Leading Researcher, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russian Federation,

Co-authors: Salambek Khadzhiev, Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russian Federation; David M. Wadsworth, Chevron Lummus Global (CLG), United States;

A Single Step Catalytic Process for the Direct Conversion of Naphtha to Middle Distillates

Viswanadham Nagabhatla, Principal Scientist and Professor, Indian Institute of Petroleum, India,

A Novel Process for Synergistic Simultaneous Cracking of Lighter and Heavier Hydrocarbons to Produce Light Olefins

S. Saravanan, Deputy Manager Research, Indian Oil Corporation Ltd, R&D Centre, India,

Co-authors: Brijesh K. Verma, India; Manoj K. Yadav, Indian; Debasis Bhattacharyya; Brijesh Kumar; R.K Malhotra, Indian Oil Corporation Ltd, R & D Centre, India;

Utilization of RDS/RFCC for Residual Oil Upgrading

MORITA Masato, , Idemitsu Kosan Co., Ltd., Japan,
Co-authors: Tetsuya WATANABE; Michio FUJIMOTO, Idemitsu Kosan Co., Ltd., Japan;

ALKILRAN - Ecologically Clean Process of Alkylate Production

Ilijas Gerzeliev, Leading scientist, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russian Federation,
Co-author: Salambek Khadzhev, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russia;

Hydrodynamic Study of New Nano Catalytic Heavy Residue Hydroconversion Process

Jamshid Zarkesh, plan director, NIOC-RIPi, Iran,
Co-authors: Amin Shafeghat; Seyed Javid Royaei; Ali Jebreili; Behnoosh Moshtari; Maryam Ghaedian, Research Institute of Petroleum Industry (RIPI), Iran; Salambek Khadzhev; Hussain Kadiev, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russia;

Application of SAPO-34 and Modified HZSM-5 Catalyst in MTG process: Effects of Dual Catalyst Bed in Improvement of Hydrocarbons Yield

Sohrab Fathi, Phd of Chemical Engineering, Amirkabir University of Technology (Tehran Polytechnic), Iran,
Co-authors: Morteza Sohrabi; Cavus Falamaki, Amirkabir University of Technology (Tehran Polytechnic), Iran;

F11 - Technologies for biofuels production

Tuesday 17th June 14:15 - 15:45 (Block 2)

Poster Session Wednesday 18th June 11:00 - 13:00 (Poster Plaza)

Current and improved technologies for the production of biofuels will be discussed, in particular the synthesis of bio alcohols (bio ethanol and bio butanol) from different feedstocks; the production of biodiesel via esterification of fatty acids or via their co-processing. Also, the synthesis of dimethyl carbonate from bio-based feedstocks (e.g. from methanol and CO₂) will be addressed in this forum.

Chair Prof. Luiz Augusto Horta Nogueira, Professor, Universidade Federal de Itajuba, Brazil,
Vice Chairs Dr. Hans Gosselink, Team Lead Biodomain, Shell Projects & Technology, Netherlands,
Ms. Melissa Stark, Partner, Clean Energy Lead, Accenture, United Kingdom,

F11 Papers**Catalysis as a Promising Approach to Biofuels Production**

Mark Tsodikov, Head of laboratory, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russian Federation,

Processing of Fast Pyrolysis Oil-Derived Tar Fraction in Fluid Catalytic Cracking Unit

Desavath Viswanatha Naik, Scientist, CSIR-Indian Institute of Petroleum, India,
Co-authors: vimal kumar; Basheshwar Prasad, Indian Institute of Technology Roorkee; Mukesh Kumar Poddar; Krishna Kant Singh; Neeraj Atheya; Dilip Kumar Adhikari, CSIR Indian Institute of Petroleum, India;

Building a "Bio-Perspective" from Petroleum Revenues: a Pathway Through Bioplatforms' Oriented Biofineries in Rio de Janeiro State, Brazil

Victoria Santos, PhD Student, Energy Planning Program/COPPE/UFRJ, Brazil,
Co-authors: Alexandre Szklo; Alessandra Magrini, Energy Planning Program, Graduate School of Engineering, Universidade Federal do Rio de Janeiro, Brazil;

Research and Development of SINOPEC Bio-jet Fuel Technology

Hongliang Qu, Senior Engineer, Research Institute of Petroleum Processing, China Petroleum & Chemical Corporation, China,

Pilot Thermopervaporation Membrane Bioreactor for the Low-Cost Biobutanol Production

Vladimir Volkov, Chief of laboratory, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russian Federation,
Co-author: Ilya Borisov, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russia;

F11 Posters**Colombian Biofuels Perspective**

Jorge Bendeck Olivella, President, Colombian Biofuels Federation, Colombia,
Co-author: Vyacheslav Kafarov, Industrial University of Santander, Colombia;

Biofuels Production Thrust - An Indian Initiative

Rajesh B, Deputy General Manager, Hindustan Petroleum Corporation Limited, India,
Co-authors: Neeraj Kishore Rai; Giriraj Prasad Meena, Hindustan Petroleum Corporation Limited, India;

Hydrogen from Ligno-Cellulosic Biomass - Review of Technology for Futuristic Bio-Fuel

RITESH MITTAL, Deputy Manager, Engineers India Limited, India,
Co-authors: Sheoraj Singh; Ganesh Prasad, Engineers India Ltd, India;

Development of an Integrated System for Low-Cost Cellulosic Bioethanol Production from Herbaceous Energy Crop Based on Environment-Friendly Pretreatment Technology

Shuichi Mihashi, Manager, JX Nippon Oil & Energy Corporation, Japan,
Co-author: Kenichiro Saito, JX Nippon Oil & Energy Corporation, Japan;

Multicomponent Feedstock as Strategy to Achieve Sustainability of Green Integrated Biorefinery

Vyacheslav Kafarov, Director Center for Sustainable Development in Industry and Energy, Industrial University of Santander, Colombia,
Co-author: Edgar Castillo, ICP-ECOPETROL, Colombia;

New Sustainable Biofuel Technology - Biohydrogen from Dark Fermentation.

Sriganesh Gandham, Executive Director, Hindustan Petroleum Corporation Limited, India,
Co-authors: Murali Kotagiri, Hindustan Petroleum; Banwari Lal; Sanjukta Subudhi, TERI; Venkateshwarlu Choudary Nettem; Harshad Ravindra Velankar; Annaji Rajiv Kumar Tompala, Hindustan Petroleum, India;

Synthesis of Tetraalkylammonium- and 1,3-Dialkylimidazolium-Based Ionic Liquids and Their Application for Lignocellulosic Feedstock Pretreatment

Yakov Masyutin, PhD student, Gubkin Russian State University of Oil and Gas, Russian Federation,
Co-authors: Alexander Golyshkin; Andrei Novikov, Russian Gubkin State University of Oil and Gas, Russia;

F12 - Oil and products pipeline transportation and storage

Wednesday 18th June 14:15 - 15:45 (Block 2)

Poster Session Thursday 19th June 13:00 - 15:00 (Poster Plaza)

The Forum will discuss state-of-the-art technology, procedures, processes and methods employed by pipeline, terminals and maritime transportation companies that operate in the logistics of oil, natural gas and by-products transportation. The immense transportation infrastructure developed along the years needs to be maintained and expanded in order to allow oil and gas to flow from the well to the end users. This industrial segment is of extreme relevance in guaranteeing the competitiveness of the oil and gas industry, as well as assuring safety and reliability. This Forum will provide an opportunity for delegates to learn and share innovative experiences and best practice in the areas of design, construction, assembly and materials; automation, supervisory systems and measurement; maintenance and rehabilitation; inspection techniques; structural integrity, reliability and risk analysis; corrosion prevention; subsea pipelines; GIS and mapping; environment and operational safety; as well as terminals and storage systems and the interface pipeline/terminal and tanker/terminal.

Chair Mr. Bela KELEMEN, Refining and Marketing Senior Vice President, Slovnaft, Hungary,
Vice Chairs Mr. DI Peter Illyes, Head of Asset Development Tankfarms & Pipelines, OMV RM GmbH, Austria,
Mr. Mohammed Al-Gahtani, Manager, Distribution, Saudi Aramco, Saudi Arabia,

F12 Papers**Conceptual Approaches to Oil and Gas Production, Refining and Distribution from Iran Reserves in Caspian Sea**

Farrokh Kamali, Technical Advisor, Iran LNG Company (ILC), Iran,

Global Positioning Systems (GPS) Based Petroleum Product Pipeline Surveillance & On Line Performance Measurement

Manoj Kumar Jadhaw, MANAGER ROU PIPELINES, Bharat Petroleum Corporation Limited, India,

Protection of Oil-Loading Tanker Terminals from Damages Occurring due to Hydraulic Shock Waves (Based on Existing Russian Terminals Examples)

Nikolay Arbuzov, chief of department, IMS Industries, Russian Federation,

Optimising the Trading and Transport Chains by Using Ship-to-ship Transfer

Yvonne Mason, Managing Director, SafeSTS, United Kingdom,

F12 Posters**Sensing Technology for Monitoring Refinery Piping Integrity**

Ronald Unnerstall, Technology Vice President, Refining and Logistics Technology, BP Products North America Inc., United States,
Co-author: Steve Orwig, BP Products North America Inc., USA;

Case Study in Economic Impact of Using Drag Reducing Agent on Cost of Pumping Crude Oil in Western Desert, Egypt

Hesham Abdou, General manager in operations department, Agiba Petroleum Company, Egypt,

Increasing Pipelines Productivity Using Drag Reducers in Transporting Crude Oil

Dinesh Devadass, Senior Engineer, Indian Oil Corporation Limited, India,

Effect of 'Natural Gas' from Renewable Sources on Underground Gas Storages

Kai Schulze, Manager Production Chemistry, RWE Dea, Germany,

Risk Assessment on Underground Salt Cavern Gas Storage

Jinheng Luo, Director, Institute of Oil Pipeline Engineering Technology, CNPC, China,

Co-authors: Lifeng Li; Xinwei Zhao, Institute of Oil Pipeline Engineering Technology, CNPC, China;

New Reagents to Remove H₂S and Mercaptans from Oil Streams and Technologies for their Application

Foat Ismagilov, Deputy General Director for Science, OOO NIPI ONGM, Russian Federation,

Co-author: Alexander Kryukov, OOO NIPI ONGM, Russia;

Improvement of Tank Farm Production Flexibility by Optimised Fuel Blending

Markus Maly, Public Policy Issues and Advocacy, OMV Refining and Marketing GmbH, Austria,

Co-authors: Ernst Seidl; Peter Illyes, OMV Refining & Marketing GmbH, Austria;

F13 - Valorisation of Natural Gas Liquids (NGLs)

Thursday 19th June 14:15 - 15:45 (Block 2)

Poster Session Thursday 19th June 11:00 - 13:00 (Poster Plaza)

Short chain alkanes derived from natural gas liquids (NGLs) can be an abundant source for the production of fuels and petrochemical basic products. Examples are the catalytic conversion of C₃ and C₄ alkanes to aromatic hydrocarbons, the catalytic dehydrogenation of, for example, propane to propylene or the alkylation of aromatics with ethane / propane.

Chair Dr. Rainer Albert Rakoczy, Global Product Manager Fuel Upgrading Catalysis, Clariant SE, Germany,

Vice Chairs Mr. Yasuo HOSONO, GM Technology Development Unit, Chiyoda Corporation, Japan,
Dr. Anton Maximov, Deputy Director, Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russian Federation,

F13 Papers

Exploiting Hidden Opportunities in LPG Plants for Valorization of Natural Gas Liquids: A case Study

Sukanandan J N, CHIEF ENGINEER (PRODUCTION), Oil and Natural Gas Corporation, India,

Co-author: AJAY KUMAR FOTEDAR, ONGC, INDIA;

Production of High-Octane Fuel Components by Alkylation of Benzene with Mixtures of Ethane and Propane

Yvonne Traa, Senior Academic Staff Member, University of Stuttgart, Germany,

Co-author: Dennis Wan Hussin, University of Stuttgart, Germany;

Ethane Oxidative Dehydrogenation in Membrane Reactors

Andrey Yaroslavtsev, Head of Laboratory, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russian Federation,

Co-author: Leonid Kustov, Zelinskii Institute of Organic Chemistry, Russian Academy of Sciences, Russia;

Technologies for BTX Production from advantaged gaseous Feedstocks

Boris Malyshkin, Sales Director Catalysts for Petrochemicals / Russia and CIS countries, Clariant Produkte (Deutschland) GmbH, Russian Federation,

Co-author: Ernst Köhler, Clariant Produkte (Deutschland) GmbH, Germany;

F13 Posters

Energy Utilization in NGL Recovery Plants by Modifying Recycle Streams to Demethanizer Tower

mohammad Reza Jafari Nasr, Research Associate and Member of Board of Directors, Research Institute of Petroleum Industry (RIPI), Iran,

New Insights through Density Functional Theory Helps Light Naphtha Aromatization

Annaji Rajiv Kumar Tompala, Deputy Manager, Hindustan Petroleum Corporation Limited, India,

Co-authors: Venkateswarlu Choudary Nettem; Sudarshan Ragi Reddy; Ravishankar Raman, Hindustan Petroleum Corp. Ltd., India;

Tailored Non-Noble Metal-Based Zeolites for Light Naphtha Conversion with High Aromatic Selectivity

Ravishankar Raman, Senior Manager, Hindustan Petroleum Corporation Limited, India,
Co-authors: VC Rao Peddy; Venkateswarlu Choudary Nettem, Hindustan Petroleum Corp. Ltd.; Ganapati Shanbhag; Janardhan H L; Anand Halgeri, PPISR; Sriganesh Gandham, Hindustan Petroleum Corp. Ltd., India;

A New Correlation to Predict Viscosity in Wet Gas Reservoirs

Hosein Vahdani, Reservoir Engineer, NIOC, Iran,
Co-author: Ehsan Ghanaatpisheh, ;

Exploring NGL and Ethane from Bangladesh Natural Gas to Help Flourish Petrochemical Industry

Abdus Sattar, Ex-Managing Director, Petrobangla, Bangladesh,

BPK3 - Ensuring prudent operations in refineries

Monday 16th June 12:00 - 13:00 (Block 2)

It is essential that modern and environmentally acceptable refineries are operated in a safe and efficient manner. Successful examples for prudent operation of a refinery will be presented and the ways to their implementation described, including disaster management plans.

Chair Mr. Artur Thernesz, Refining and Marketing Executive Director, INA R&M, Croatia,
Speakers Mr. Jean-Luc Karnik, Chief Executive Officer, IFP Training, France,
Prof. Vladimir Kapustin, CEO, VNIPIneft, Russian Federation,

BPK3 Papers**Ensuring Prudent Operation in Refineries**

Jean-Luc Karnik, Chief Executive Officer, IFP Training, France,

BPK4 - Optimising transportation, blending and storage of oil and oil products

Wednesday 18th June 12:00 - 13:00 (Block 2)

An integral part of any production and use of oil and / or products is their efficient and safe transportation and/or storage. Moreover, blending of several product streams is often required in order to obtain marketable products. These complex interrelations will be dealt with in this session.

Chair Mr. Carlos Felipe Guimaraes Lodi, Corporate Planning General Manager, PETROBRAS, Brazil,
Speakers Mr. Alexander Plavin, Commercial Director, MTZK-SVAP, Russian Federation,
Mr. Jose Luis López de Silanes, Chairman, CLH, Spain,

RT04 - Influence of local product specifications on refinery modernisation

Tuesday 17th June 12:00 - 13:00 (Block 2)

In different locations around the world refineries produce products (e.g. fuels, lubricants) to meet local specifications. Sometimes these differences in specifications are driven by political interests (e.g. the sulphur content of transportation fuels and heating oils) or by the technical requirements (e.g. low temperature flow properties). The influence of these factors on modernising/revamping refineries will be discussed by experts from different parts of the world.

Moderator Mr. Robert Storey, Managing Director, Turkey, Socar, Turkey, United Kingdom,
Panelists Mr. Jaime Berbes, Director Technology, CEPESA, Spain,
Dr. Nello Uccelletti, Senior Vice Président, Onshore, Technip, France,
Mr. Sri Ganesh Gandham, Executive Director Refineries, Hindustan Petroleum Corporation Limited, India,
Dr. Dawood Nassif, VP of Strategic Investment, BAPCO Refinery, Bahrain,

RT05 - Sustainability of biofuels from different feedstocks

Tuesday 17th June 16:15 - 17:30 (Block 2)

Biofuels are produced from different sources e.g. sugar cane, corn and fatty acids. In future cellulose or lignin may add to this feedstock spectrum. Renowned experts in the field will discuss the sustainability of biofuels from different feedstocks and also in comparison to the sustainability of fuels produced from fossil

resources.

Moderator Dr. Peter Sauermann, BP Technology Manager Europe, BP Europa SE GFT, Germany,
Panelists Dr. Barbara J. Burger, President, Chevron Technology Ventures, United States,
 Mr. Milas Evangelista, Director of Ethanol Ventures, PETROBRAS BIOFUELS, Brazil,
 Mr. B.P. Das, Executive Director, Refining Technology, India,
 Dr. Mark Tsodikov, Head of Laboratory, Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russian Federation,

RT06 - Challenges for integrating refinery and petrochemical complexes

Thursday 19th June 12:00 - 13:00 (Block 2)

This session will deal with synergies between a refinery and a petrochemical plant in order to optimise feedstock utilisation of common investments. Panel members will throw light on the different directions and the pros and cons of this issue.

Moderator Mr. Patrick Rooney, Manager for the Chemicals Strategy and Development Department, SAUDI ARAMCO, Saudi Arabia,
Panelists Mr. Patrick Pouyanne, President Refining & Chemicals Member of the Executive Committee, Total, France,
 Mr. Udo Besser, Head of Petrochemicals, OMV RM GmbH, Austria,
 Mr. Per Erik Holsten, Head of Global Industry Group, Chemical, Oil & Gas, ABB, Norway,
 Mr. K Tyurdenev, President, United Petrochemical Company, Russian Federation,

Block 3. Natural Gas Processing, Transportation and Marketing

Forums

F14 - New developments and future growth in CNG, LNG, GTL, CTL, BTL, CBM, Hydrates - supply and demand

F15 - Impact of the growing unconventional gas supply

F16 - New developments in long distance transportation of gas - pipelines, ships and cross border issues

F17 - Meeting the growing demand for gas from Asia - implications for supply and transportation

Best Practice Keynote Sessions

BPK5 - Best practice in hydraulic fracturing

BPK6 - Management of gas mega projects

BPK7 - Best Practices in new gas technologies for processing and transportation

Round Tables

RT07 - Are we heading towards a global gas market?

RT08 - What is the future of natural gas?

F14 - New developments and future growth in CNG, LNG, GTL, CTL, BTL, CBM, Hydrates - supply and demand

Monday 16th June 10:15 - 11:45 (Block 3)

Poster Session Tuesday 17th June 11:00 - 13:00 (Poster Plaza)

World energy demand is being increasingly supplied from natural gas transported in liquid form; substituted for oil based liquid fuels and used in applications where major pipeline infrastructure is not in place. This forum will describe both the supply and demand aspects of the growing use of gas in the world's fossil fuel supply, including small scale CNG and LNG, floating LNG.

Chair Mr. Moritaka Nakamura, Fellow, Technolog & Engineering Division, Chiyoda Corporation, Japan,
Vice Chairs Dr. Elena Fedorova, Associate Professor, Gubkin Russian State University of Oil and Gas, Russian Federation,

F14 Papers

Small-To-Mid-Scale LNG - A New LNG World Is Emerging

Marcus Lang, Executive Vice President Natural Gas Plants, Linde Engineering, Germany,

Effect of Climate on LNG Technology Selection

Mark Roberts, Technology Manager, Air Products and Chemicals Inc., United States,

Co-authors: William Kennington; Dr. Annemarie Weist, Air Products and Chemicals Inc., United States;

Prelude FLNG - a practical application of technical innovation

Sander Stegenga, Development Manager, Shell, Singapore,

Co-authors: Harry van der Velde, Shell Global Solutions International B.V., The Netherlands; Jim Marshall, Shell Development (Australia) Pty Ltd, Australia;

Gas Hydrates as a Future Energy Resource - A New Challenge from the World's First Offshore Production Test Toward Commercial Development

Yoshihiro Masuda, Associate Professor, Frontier Research Center for Energy and Resources (FRCER), School of Engineering, The University of Tokyo, Japan,

Co-authors: Tatsuo Saeki, Japan Oil, Gas and Metals National Corporation (JOGMEC); Hideo Narita, Methane Hydrate Research Center, National Institute of Advanced Industrial Science and Technology (AIST), Japan;

F14 Posters

Study on Sloshing Height of LNG Tank Subjected to Seismic Excitation

Tuanhai Chen, engineer, CNOOC, China,

Co-author: Chao Zhang, CNOOC, P. R. China;

Natural Gas to Hydrocarbons - an Alternative Way to the Synthesis of Valuable Petrochemicals

Mary Magomedova, Head of Chemical Engineering Department, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russian Federation,

Co-authors: Natalya Kolesnichenko; Galina Lin, Topchiev Institute of Petrochemical Synthesis, Russian Academy of Sciences; Salambek Khadzhev, Institute of Petrochemical Synthesis, Russian Academy of Sciences, Russian Federation; Michael O'Brien, Extiel, United States;

Design Consideration of NGL Recovery for Lean Feed Gas Processing

Tsuneo Watanabe, Technology Consultant, Chiyoda Corporation, Japan,

Environmental Impacts of Developing CNG in Algeria

Amel Djeghdjeh, Engineer, NAFTAL- SONATRACH, Algeria,

ExxonMobil's LNG Business: Experiences and Technologies

Charles Mart, Manager, Facilities Technology, ExxonMobil Upstream Research Company, United States,

Co-author: Paul Sibal, ExxonMobil Production Company, United States;

LNG imports - a Strategic Choice for GCC region

Shailendra Mohite, Senior Engineer, Kuwait Petroleum International, Kuwait,

Marketing & Distribution of LNG through "LNG at Doorstep" (i.e. Inland Transportation of LNG) & Its Potential to Facilitate for "Small Scale LNG" and for "LNG as Transport Fuel"

VENKATESHWAR PRASAD SINHA, General Manager (LNG), Indian Oil Corporation Limited, India,

Turning South America into a Key LNG World Supplier While Enhancing the Local Industry: PERU LNG after 4 Years of Operation

Rafael Segovia, Commercial Advisor & Special Projects, Shell Operaciones Peru, Peru,

An Insight into ORYX GTL's Operation and the Journey to Stability

Paul Vardanega, Production Manager, ORYX GTL, Qatar,

Technology Development, Application and Potential Growth in GTL

Onno van Kessel, Senior Business Development Manager GTX, Shell International Exploration and Production, Netherlands,

Co-authors: Martijn van Hardeveld; Sanjay Rungta, Shell Global Solutions International, Netherlands;

Gas Hydrate Identification and Extraction in Venezuelan Coastal Energy Potential as Strategic and Comprehensive Development Element

Maria Telleria, gas engineer, PDVSA offshore production division, Venezuela,

Floating Natural Gas to Methanol Process: a Process Engineering View

Camila Machado, Master's degree Student, Federal University of Rio de Janeiro, Brazil,

Co-authors: Camila Machado, Federal University of Rio de Janeiro; Rita Alves, Braskem S.A.; José Medeiros; Ofélia Araújo, Federal University of Rio de Janeiro, Brazil; Paulo Coutinho, Braskem S.A., Brazil;

F15 - Impact of the growing unconventional gas supply

Tuesday 17th June 14:15 – 15:45 (Block 3)

Poster Session Wednesday 18th June 11:00 – 13:00 (Poster Plaza)

The growing supply of unconventional gas, particularly shale gas and CBM, has transformed the North American natural gas market and depressed prices to levels not seen for decades. The jury is still out on how quickly new technologies can be applied to other regions of the world (e.g. Europe, Asia, South America) and the supply response that can be expected. The growth in unconventional gas supply promises to have a major impact on extending the life of fossil fuel resources around the world and the forum will discuss the challenges associated with new supplies of unconventional gas.

Chair Mr. Cunzhang YAN, President, PetroChina Foreign Cooperation Administration Department, China,

Vice Chairs Dr. Konstantin Simonov, Director, National Energy Security Fund, Russian Federation,

F15 Papers

Who Goes There: Friend or Foe? - Gas, Russia and the Middle East

Carl Hughes, Deloitte Global Energy and Resources Leader, Deloitte Touche Tohmatsu Limited, United Kingdom,

Can China Copy America's Shale Gas Revolution?---Challenge of Shale Gas Reserve and Supply in China

Yuxin Zhu, Senior Engineer, PetroChina Foreign Cooperation Administration Department, China,
Co-authors: Bentao Gong; Youlin Sun, PetroChina Foreign Cooperation Administration Department; Chunmei Ge, Foreign Cooperation Department, CNPC; Chenglin Liu, Chinese Academy of Geological Sciences; Ce Zheng, China University of Petroleum, China;

Renewable Energies versus CCS Technologies for Shale Gas ; Which One to Invest for Sustainable Energy Supply & Cleaner Environment?

Erfan Vafaiefard, Head of Business Development / Researcher, Institute for International Energy Studies / Skema Business School, Iran,
Co-authors: Maryam Sohrabi, Institute for International Energy Studies (IIES), Iran; Hamzeh Zarei, University of Melbourne, Australia;

The Future of Global Shale Gas Development: Will Industry Earn the Social License to Operate?

Susan Sakmar, Visiting Assistant Professor, University of Houston Law Center, United States,

F15 Posters

Unconventional Gas Production in Brazil: Current Status and Perspectives

Patricia Santos, Technical coordinator, Petrobras, Brazil,
Co-author: Alexandre Szklo, PPE/COPPE/UFRJ, Brazil;

Scenario for World Energy Production in XXI century: Hydrocarbons Will Dominate

Vladimir Kutcherov, Professor, Gubkin Russian State University of Oil and Gas, Royal Institute of Technology, Russian Federation,
Co-authors: Anatoly Zolotukhin, Gubkin Russian State University of Oil and Gas, University of Stavanger;
Victor Martynov, Gubkin Russian State University of Oil and Gas, Russia;

New Players and Their Role in Natural Gas Supply Diversification

Rimma Subhankulova, Founder, World Energy Expert Group, Russian Federation,

Conventional PSC: Challenges from Unconventional Oil and Gas International Operations

Haiping Wang, Senior Engineer, PetroChina Company Limited, China,
Co-authors: Xiaofeng Zhang; Yuzhen Huang, PetroChina Company Limited, China;

The Impact of the Unconventional Gas Supply on the Link Between Oil and Gas Prices in the US Market

Abderrezak Benyoucef, Head of Department, Sonatrach/Algerian Petroleum Institute, Algeria,
Co-author: Frédéric LANTZ, IFP-School, France;

The Shale Sail & Dogwatch

Shivika Mehta, Senior Officer, Hindustan Petroleum Corporation Limited, India,
Co-author: Mrinal Madhav, PP&AC, Ministry of Petroleum & Natural Gas, India;

New Market Dynamics after Shale Gas

Mario Ramos, HEAD OF GAS TRADING, GAS NATURAL FENOSA, Spain,
Co-authors: ANA CORTES; ROSA MARIA SANZ; MANUEL FERNANDEZ, GAS NATURAL FENOSA, SPAIN;

Shale Gas Booming Impact on LNG and Petrochemicals Market

Asep Karmana Alfi, Senior Project Development Engineer, Qatar Petroleum, Qatar,

Shale Gas Exploration: Why Should India Be Cautious to Commit?

Saurabh Agarwala, Senior Engineer (R&D), Engineers India Limited, India,

Co-authors: Ravi Kant Gupta; Ganesh Prasad; Ajay N. Deshpande, Engineers India Limited, India;

The Role of Unconventional Hydrocarbon Resources on the Middle East's Future Energy Market

Rosa Farboudmanesh, Expert, Institute for International Energy Studies, Iran,

Co-author: Majid Mohammadi, Institute for International Energy Studies, Iran;

F16 - New developments in long distance transportation of gas - pipelines, ships and cross border issues

Wednesday 18th June 14:15 - 15:45 (Block 3)

Poster Session Thursday 19th June 13:00 - 15:00 (Poster Plaza)

The growing demand for natural gas has necessitated the initiation of more new logistic solutions between producing and consuming countries. The landlocked natural gas producing countries are obliged to look at the possibilities to arrange for pipeline connections. Those producers and consumers that have access to the sea can consider erecting LNG facilities. This forum will highlight the latest developments in this field focusing on cross border issues both in technical and geopolitical terms.

Chair

Mr. Dinesh K Sarraf, CMD, ONGC, India,

Vice Chairs

Mr. Ibrahim Palaz, President and CEO, TOROS Energy Limited, Turkey,

Mr. Thilo Wieland, Vice President Senior Project South Stream/Nord Stream (Ressort Russia),

Wintershall Holding GmbH, Germany,

F16 Papers**Chinese Technology Development of Oil & Gas Storage and Transportation**

Xiansheng Sun, President of CNPC Economics and Technology Research Institute, Economic & Technology Research Institute, CNPC, China,

Co-authors: Yanpeng Ding; Hongna Hao, CNPC, China;

Transforming LNG Shipping to Succeed in Rapidly Changing Markets

John Krousouloudis, General Manager - Ship Management, Shell Shipping and Maritime, United Kingdom,

Technical Assurance of Design, Construction and Installation of Cross Border Pipelines - Key Learnings from Nord Stream and Blue Stream

Nils Andreas Masvie, Vice President, DNV AS, Norway,

Gas Supply in South-East Europe

Igor Dekanić, Full Professor, University of Zagreb, Faculty of Mining, Geology and Petroleum Engineering, Croatia,

F16 Posters**Gas to Liquids Technology**

Eshu Kumar, Dy.Manager(Engg.) Retail, Bharat Petroleum Corporation Limited, India,

Global Gas Trade Prospects on the Horizon in 2035 Vision and Strategy for Trade in Natural Gas

Mohsen Haerinejad, Expert, Oil Industries Commissioning & Operation Co., Iran,

Peace Pipelines - A Geopolitical Context.

Mrinal Madhav, Asst. Director (International Cooperation), Petroleum Planning & Analysis Cell, Ministry of Petroleum & Natural Gas, India,

Co-author: Ms Shivika Mehta, HINDUSTAN PETROLEUM CORPORATION LIMITED, India;

Kinetics of "Diffusion" Cracks and Delaminations in Gas Pipe-Lines

Il'ya Nickolaevich Dashevskiy, Senior Research Scientist, Institute for Problems in Mechanics, Russian Academy of Sciences, Russian Federation,

Pollution Damage Caused by Oil Tanker Accidents

NAIT ALI NADIA, engineer, Reims University, France,

Dragon Submarine Export System-CIGMA. Dragon-Güiria Field (Venezuela). Mariscal Sucre Project. Offshore Production Division

Jimmy Arenas, Project Engineer, PDVSA, Venezuela,

Co-author: Ismael Gonzalez, PDVSA, Venezuela;

Cross Border Hydrocarbon Reservoirs Risk Management: Cooperation or Challenge in Lack of a Comprehensive International Law

Hossein Iranmanesh, Managing Director, Institute for International Energy Studies, Iran,
Co-authors: Erfan Vafaiefard, Institute for International Energy Studies (IIES); Mansoor Moazami, Iran Ministry of Petroleum; Mostafa Salari, Institute for International Energy Studies (IIES), Iran;

Improvement in Integrity of the Long Distance Transportation of Oil and Gas Systems Performing Technique to Evaluate Non-Critical Defects During Pipeline Construction

Gennady Vasiliev, Head of the Department of Pipeline and Storage Facilities Construction and Rehabilitation, Gubkin Russian State University of Oil and Gas, Russian Federation,
Co-author: Boris Lange, NPO Specneftegaz-T, Russia;

F17 - Meeting the growing demand for gas from Asia - implications for supply and transportation

Thursday 19th June 14:15 - 15:45 (Block 3)

Poster Session Thursday 19th June 11:00 - 13:00 (Poster Plaza)

Natural gas is entering an age of rapid development. It is predicted that gas demand will increase more in Asia than any other regions of the world. For the next decade Asia will be the place for a growing gas supply and demand business. So supply and demand should be integrated to formulate a secure business chain. Unique technologies and large investments are needed to unlock this potential.

Chair Mr. Ning Ning, Vice President, RIPED-Langfang ,CNPC, China,
Vice Chairs Mr. A.M.K. Sinha, Director (Planning & Business Development), Indian Oil Corporation Ltd., India,

F17 Papers

Meeting the Growing Demand for Gas from Asia - Implications for Supply and Transportation

Armelle Lecarpentier, Chief Economist, CEDIGAZ, France,
Co-author: Daniel Champlon, CEDIGAZ, France;

Supply, Demand and Prospect of Natural Gas in Northeast Asia

Jialiang Lu, Director, Research Institute of Petroleum Exploration & Development-Langfang, CNPC, China,
Co-authors: Suping Zhao; Yang Li; Chunxiao Guan; Qiaojing Li, Research Institute of Petroleum Exploration & Development-Langfang, CNPC, China;

Meeting the Growing Demand for Gas from Asia : Role of LNG

Suman Mishra, Manager (Gas Mgmt), Indian Oil Corporation Limited, India,
Co-author: Ranjith Kumar, Indian Oil Corporation Limited, India;

Pricing Mechanisms Development in the East Asian Gas Market

Irina Mironova, Analyst, PhD candidate, Energy Research Institute, Russian Academy of Sciences, Russian Federation,

F17 Posters

CaspianRegion Gas Politics: Struggle Between Main Energy Players

Oguzhan Akyener, Technical Manager, TPAO, Azerbaijan,

Gas Pricing System in Asia Pacific Region: Influence from USA and Europe

Jinseok Sung, PhD researcher, Gubkin Russian State University of Oil and Gas, South Korea,

A Comparative Analysis: 7 Different LNG Supplies to the Republic of Korea

Jinseon Roh, PhD Student in Economics, Gubkin Russian State University of Oil and Gas, South Korea,

Comparative Study on Shale Characteristics of Different Sedimentary Facies, China

Qin Zhang, Engineer, Research Institute of Petroleum Exploration & Development-Langfang, CNPC, China,
Co-authors: Wenhua Bai, Research Institute of Petroleum Exploration & Development-Langfang, CNPC;
Zhenglian Pang, Research Institute of Petroleum Exploration & Development, CNPC, China;

Asean Gas Outlook and Policy Implications

Abhishek Rohatgi, Research Associate, Energy Studies Institute, National University of Singapore, Singapore,
Co-author: Nahim Bin Zahur, Energy Studies Institute, National University of Singapore, Singapore;

Modular Process Plants and Integrated Modular Buildings: a Strategic Approach to Fast Track Delivery and Quick Start-Up

Roberto Collinelli, Sales & Marketing Director (Asia and C.I.S.), COMART (a company of Tozzi Industries), Italy,

Meeting the Growing Demand for Gas from Asia - Implications for Supply and Transportation

Stephanie Aqai, Senior Commercial Analyst, Qatargas Operating Company Limited, Qatar,

Asian Gas Story: Innovation, Investment and International Partnership Holds the Key for Future Revolution

Debamalya Sinha, Deputy Manager, Bharat Petroleum Corporation Limited, India,

BPK5 - Best practice in hydraulic fracturing

Monday 16th June 12:00 - 13:00 (Block 3)

The growing supply of natural gas from unconventional sources such as tight gas and shale gas has been facilitated by the application of sophisticated hydraulic fracturing technologies. To achieve commercial production rates there are many issues and challenges associated with the safe, environmentally responsible and cost effective application of this technology which will be addressed in this session.

Chair Mr. Yuzhang Liu, Vice President, Research Institute of Petroleum Exploration and Development, CNPC, China,

Speakers Mr. Francois Auzerais, Senior Research Advisor, Schlumberger Production Group, United States,
Mr. Adnan Kanaan, Manager, Gas Reservoir Management, Saudi Aramco, Saudi Arabia,
Dr. Abdolnabi Hashemi, Advisor, North Drilling Company, Iran,

BPK5 Papers**Acid Fracturing Treatment in an Iranian Carbonated Reservoir**

Abdolnabi Hashemi, Advisor, North Drilling Company, Iran,

Hydraulic Fracturing Best Practices

Adnan Kanaan, Manager, Gas Reservoir Management, Saudi Aramco, Saudi Arabia,

Best Practice in Hydraulic Fracturing: Reducing the Environmental Footprint

Francois Auzerais, Senior Research Advisor, Schlumberger Production Group, United States,

BPK6 - Management of gas mega projects

Tuesday 17th June 12:00 - 13:00 (Block 3)

Management for mega gas projects is changing especially for unconventional gas or offshore gas. It is vital to have well planned and integrated disciplines. HSE management; procurement and installation are critical. New technology adoption and a value chain consideration are closely related to the commissioning and operation of the project.

Chair Prof. Anatoly Zolotukhin, Research Director, Institute of Arctic Petroleum Technology, Gubkin Russian State University of Oil and Gas, Russian Federation,

Speakers Ms. Melody Meyer, President, Chevron Asia Pacific E&P Co., United States,
Mr. Wael Sawan, Managing Director Pearl GTL, Shell Qatar, Qatar,

BPK6 Papers**Management of gas mega projects: Pearl GTL**

Wael Sawan, Managing Director Pearl GTL, Shell Qatar, Qatar,

Mega Gas Projects: Managing Above Ground Risk at Gorgon and Wheatstone

Melody Meyer, President, Chevron Asia Pacific E&P Co., United States,

BPK7 - Best Practices in new gas technologies for processing and transportation

Wednesday 18th June 12:00 - 13:00 (Block 3)

As the industry develops more challenging gas resources, new technologies in gas processing and transportation can play a vital role in the viability of the project. Key areas for improvement include new catalysts, drag reduction additives, and advances in compressor and other machinery design that allow for higher efficiency, greater reliability, and lower maintenance costs. Improvements in land and marine transport and storage options will also be discussed. To secure regulatory approval, processing and transportation systems, especially in pristine areas must meet increasingly stringent standards to minimize the impact on unique and/or fragile ecosystems and local communities.

Chair Mr. Jose Aurelio Faria, Gas Pipeline Manager, Petrobras Transporte-Traspetro, Brazil,
Speakers Mr. Salem Al-Huraish, Manager for Khursaniyah Gas Plant, Saudi Aramco, Saudi Arabia,
 Dr. Iraj Ghorbani, President, Delvar Afzar Industrial Gases Co., Iran,

BPK7 Papers

Necessity of recovery of associated gas and novel applicable technologies

Iraj Ghorbani, President, Delvar Afzar Industrial Gases Co., Iran,

Best Practices in New Gas Technologies for Processing and Transportation Saudi Aramco's Contribution

Salem Al-Huraish, Manager for Khursaniyah Gas Plant, Saudi Aramco, Saudi Arabia,

RT07 - Are we heading towards a global gas market?

Monday 16th June 16:00 - 17:30 (Block 3)

The increasing need for environmentally cleaner fuels has positioned natural gas to the fore. Crude oil has got a daily exchange based on pricing mechanisms. The same does not apply uniformly to natural gas which is differentially priced on different continents. Consequently the global market develops slowly. The LNG spot pricing has facilitated the development of the global market. In this discussion different views are tackled about the relation of global markets and market price differentiation.

Moderator Mr. Rune Bjørnson, SVP Natural Gas, Statoil, Norway,
Panelists Mr. Peter Clarke, Vice-President, ExxonMobil Gas & Power Marketing, United States,
 Mr. Laurent Maurel, Senior Vice President Strategy, Markets & LNG, Total - Gas & Power, France,
 Mr. Juan Antonio Vera García, Director Corporate Strategy, CEPSA, Spain,
 Dr. Ken Koyama, Managing Director, Chief Economist, The Institute of Energy Economics, Japan,

RT08 - What is the future of natural gas?

Tuesday 17th June 16:00 - 17:30 (Block 3)

Gas is nowadays regarded as affordable, acceptable, abundant and a reliable source of energy. The utilisation of gas has been getting broader. The gas value chain is being extended. With competitiveness of gas price and technology innovation, the downstream of the gas business is rapidly developing. Gas vehicles, gas shipping, including CNG and LNG, are becoming popular. Small scale land LNG facilities are being built. Gas as a fuel is entering even more households around the world. What is the role of gas as a fuel in the future?

Moderator Mr. Nobuo Tanaka, Global Associate for Energy Security and Sustainability, Institute of Energy Economics, Japan, Japan,
Panelists Mr. Dick Benschop, Vice President Gas Market Development, Shell, Netherlands,
 Mr. Olivier Appert, Chairman and CEO, IFP Energies nouvelles (IFPEN), France,
 Dr. Fatih Birol, Chief Economist, IEA, France,
 Dr. Tatyana Mitrova, Head of oil and gas industry department, Energy Research Institute, Russian Academy of Sciences, Russian Federation,
 Mr. Colin Parfitt, President, Supply and Trading, Chevron, United States,
 Mr. Shigeru Muraki, Chief Economist, Tokyo Gas, Japan,
 Ms. Melody Meyer, President of Chevron Asia Pacific E&P, Chevron, United States,

Block 4. Sustainable Management of the Industry

Forums

F18 - Financing investments in the oil and gas industry: challenges and opportunities

F19 - Ensuring the security of supply of equipment, materials and local content infrastructure

F20 - Operational issues surrounding HSE and management of disasters

F21 - Regulatory issues: governance, risks and compliance - GRC

F22 - The role of innovation and technology in shaping the oil and gas industry

F23 - Energy efficient technologies ensuring environmental sustainability of the oil and gas industry

F24 - Human resources: challenges and opportunities

F25 - The role of the oil and gas industry in tackling energy poverty**Best Practice Keynote Sessions**

- BPK8 - Knowledge management**
- BPK9 - Ethics and anti-corruption**

Round Tables

- RT09 - Where are we now in the climate change agenda?**
- RT10 - International cooperation**
- RT11 - Transformation of oil companies into energy companies**
- RT12 - Geopolitics**

F18 - Financing investments in the oil and gas industry: challenges and opportunities

Monday 16th June 10:15 - 11:45 (Block 4)

Poster Session Tuesday 17th June 11:00 - 13:00 (Poster Plaza)

Capital costs and financial risks are increasing as reserves are developed in challenging or remote regions and / or large scale developments, such as LNG and infrastructure projects. Creative financing techniques and new sources of finance will be required to manage the allocation of risks through mechanisms such as insurance, contracts and international capital markets, to ensure that sufficient funding is available to finance new projects.

- Chair** Mr. John Martin, Managing Director, Oil & Gas Strategic Client Coverage Group, Standard Chartered Bank, United Kingdom,
- Vice Chairs** Dr. Attahir Yusuf, Group Executive Director, Commercial & Investments, NNPC, Nigeria,

F18 Papers**Sakhalin Energy Project Financing - Lessons Learned**

Rob Van Velden, Finance Director, Sakhalin Energy Investment Company, Russian Federation,

Financing the Oil & Gas Industry against a Transformational Landscape

Peter Gaw, Managing Director and Global Head - Oil, Gas & Chemicals, Standard Chartered Bank, United States,

Innovative financing solutions for oil & gas companies

Andy Brogan, Partner Global Oil & Gas, Transaction Advisory Services, Ernst & Young, Ernst & Young, United Kingdom,
Co-author: Andrea Teasdale, Ernst & Young, United Kingdom;

EBRD: Cooperation Avenues in the Russian Oil and Gas Sector

Aida Sitdikova, Director, Energy and Natural Resources, Russia & CIS,, European Bank for Reconstruction and Development, Russian Federation,

F18 Posters**Applying Investment Portfolio Analysis to the Development Strategies of the Integrated Consortium in Western Africa**

Zuoqian Wang, Engineer, Research Institute of Petroleum Exploration and Development, CNPC, China,
Co-authors: Guanghua Zhai; Jianying Zhang, Research Institute of Petroleum Exploration and Development, CNPC, China;

A way of calculating well economics in JO Wafra Field

MESHEL ALGHANIM, SENIOR RESERVOIR ENGINEER, KGO/CHEVRON, Kuwait,

Evaluating petroleum projects under uncertainty: Application of real options analysis and machine learning techniques

Mohammad Alami Bayat, Expert in Economic and Investments Dept., Ministry of Petroleum, Iran,

Refining 2021: Who Will Be in the Game?

Doerler Joerg, Director, A.T. Kearney, Russian Federation,

Industry specifics in employment of methods of traditional (conservative) and evolutionary concepts of oil and gas companies crisis management.

Olga Bolshakova, Docent, State University of Management, Russian Federation,

Forecasting long-term crude oil price using a combination of particle swarm optimization and genetic algorithm

Morteza Andalib Sahnehsaraei, Mechanical Maintenance Engineer, National Iranian Gas Company, Iran,
Co-authors: Mohammad Javad Mahmoodabadi, Sirjan University of Technology; Reza Modabberi, National Iranian Gas Company, Iran;

Competing Factors Influencing Upstream Investment in the International Oil Industry: Evidence from OPEC Countries

Habib Nuhu, Deputy Chief Geologist, Department of Petroleum Resources, Nigeria,
Co-author: Heo Eunnyeong, Seoul National Univeristy, Republic of Korea;

F19 - Ensuring the security of supply of equipment, materials and local content infrastructure

Monday 16th June 16:00 - 17:30 (Block 4)

Poster Session Tuesday 17th June 13:00 - 15:00 (Poster Plaza)

Ensuring the security of supply of materials, equipment, technology, services, as well as human and financial resources is critical for the oil and gas industry. Major economical crises are impacting the capability of many industries and creating a scenario of uncertainties. On top of that new local content policies are being introduced in many countries adding complexity to the capability of the oil and gas industry to secure the supply of energy required for the next decades.

Chair Dr. Paulo Sergio Rodrigues Alonso, Advisor to the President - Executive Coordinator, PROMINP "The Brazilian Government Industry Mobilization Programme", PETROBRAS, Brazil,
Vice Chairs Mr. Samir Brikho, Chief Executive, Amec plc, United Kingdom,
Mr. Hatem Haeri, President, ICG Group, Iran,

F19 Papers

Local Content Challenges in Upstream Overseas Projects

Nikolay Seregin, Director of Department, JSC BASHNEFT, Russian Federation,

Lessons Learned from Diverse Perspectives Developing Future Operations: Sakhalin, Eastern Canada, and Malaysia (National Content / Supplier Development Story)

Natalie Stirling-Sanders, Upstream National Content Manager, ExxonMobil Global Services Company, United States,

Ensuring the Security of Supply of Equipment, Materials and Local Content

James Arnott, Managing Director, Business Services Lead-Accenture Capital Project Services (EALA), Accenture, United Arab Emirates,

Local Content for Economic Development in Iraq

Hans Nijkamp, Vice President Iraq, Shell Exploration and Production International, Saudi Arabia,
Co-author: Alexander Nieuwenhuizen, Shell, Netherlands;

F19 Posters

Materials Management: Gold Mine for Upstream Oil and Gas

Schroeter Ingo, Principal, A.T. Kearney, Germany,

Winning Supply Chains Integrate Today's Capabilities with Tomorrow's Goals

Schroeter Ingo, Principal, A.T. Kearney, Germany,

Increasing Threats in IT Security for Critical Infrastructure: New Approaches and Experiences

Stephan Klein, VP, Vice President Energy and Natural Resources, SAP AG, Germany,
Co-authors: Ben Krutzen, Shell, Netherlands; Gordon Muehl, SVP, Germany; Volkmar Lotz, SAP AG, France;

The Role of Responsible Security Operations in Business Success and Community Livelihoods

Roper Cleland, Social Responsibility Manager, IPIECA, United Kingdom,

Multi-Criteria Risk Analysis and Mitigation in Upstream Petroleum Supply Chain through Analytical Hierarchy Process

Samir Shamsbery, Dy. General Manager, M/s Oil and Natural Gas Limited, India,
Co-author: Rajni Shamsbery, M/s Oil and Natural Gas Corporation Limited, India;

A Mismatch of Big Oil and SMEs: a Relationship of Nuisance, Necessity or Fate?

Mikhail Lykhin, Owner, Individual Entrepreneur Mikhail Lykhin, Russian Federation,

Internationalization of SMEs in the Oil and Gas Supply Chain

Mikhail Lykhin, Owner, Individual Entrepreneur Mikhail Lykhin, Russian Federation,

F20 - Operational issues surrounding HSE and management of disasters

Tuesday 17th June 14:15 - 15:45 (Block 4)

Poster Session Wednesday 18th June 11:00 - 13:00 (Poster Plaza)

In order to provide sustainable operations in the oil and gas sector, industry practices need to pay special attention to the environment, safety, labour protection and especially to practices of prevention, localisation and response to disasters.

Chair Mr. Jeff Woodbury, Vice President SSHE, ExxonMobil Corporation, United States,
Vice Chairs Mr. Philippe MARCUS, Executive Vice President, GDF SUEZ Exploration & Production International SA, France,
 Mrs. Adriana Petrovic, Director of Sustainable Development & HSE, INA Industrija nafte d.d., Croatia,

F20 Papers

Safety Culture Development on Robust BO&I Program with IIF

Toru Sugimoto, Corporate HSE Manager, JGC Corporation, Japan,

Enhancing Offshore Safety and Environmental Performance - Key Learnings from Major Offshore Accidents

David Walker, CEO, DNV GL Group, Norway,

Co-author: Henrik Overgaard Madsen, DNV GL Group, Norway;

Following Through: How Industry and Government are Improving the Safety of Offshore Energy Development in the Post-Macondo Era

Holly Hopkins, Sr. Policy Advisor, American Petroleum Institute, United States,

Asset Integrity Management System Implementation

Cyrus Rezaei, Senior Consultant-HSE, Kuwait Oil Company, Kuwait,

Co-authors: Ahmed Abbas, Manager HSE Kuwait Oil Company (KOC); Faisal Abdulla Mirza, Team Leader HSE Systems Kuwait Oil Company (KOC), Kuwait;

F20 Posters

Keystones to Building A Culture of Safety

Jack Toellner, Senior Safety Consultant, ExxonMobil, United States,

Research and Monitoring to Support Responsible Offshore Oil and Gas Development in the Presence of the Western Gray Whale Population off Northeast Sakhalin Island, Russia

Daniel Egging, Sakhalin-1 SSH&E Manager, ExxonMobil Development Company, United States,

Co-author: Jennifer Dupont, ExxonMobil Upstream Research Company, USA;

Application of Simultaneous Operations in Saudi Aramco's Causeway Oilfields Development

James Arukhe, Lead Petroleum Engineer, Saudi Aramco, Saudi Arabia,

Co-authors: Shadi Hanbazazah; Abdulrahman Ahmari; Laurie Duthie; Saleh Al Ghamdi, Saudi Aramco, Saudi Arabia;

A RasGas Experience Conducting the Survey of Flare Passing Valves Using Acoustic Technology

Tachta Hidayat, ADVISOR (HOT ENGINEERING SECTION), RasGas Company Limited, Indonesia,

Co-author: Archie Musamma, RasGas Company Limited, Qatar;

ORYX GTL: The Road to Zero Harm and Beyond

Gerald Charles, Head of HSE, ORYX GTL, Qatar,

Analysis and Assessment of Risks Arising from Human Factors in Offshore Drilling Activities

Hadi Farahani, Faculty member, Research Institute of Petroleum Industry (RIPI), Iran,

Co-author: Payam Amir-Heidari, Amirkabir University of Technology, Iran;

Safety and Environmental Management Systems - a Foundation for Enhanced Safety Culture

Charlie Williams, Executive Director, Center for Offshore Safety, United States,

Moving from a prescriptive compliance to a performance compliance to manage Safety Risks: 3 years experience of Maximize Safety project

Annamaria Petrone, Safety Engineer, Eni E&P, Italy,

New Methodologies to Foresee Consequences of Major Accident Hazards and Enhance Emergency Response and Oil Spill Preparedness

Annamaria Petrone, Safety Engineer, Eni E&P, Italy,

F21 - Regulatory issues: governance, risks and compliance - GRC

Tuesday 17th June 16:00 - 17:30 (Block 4)

Poster Session Wednesday 18th June 13:00 - 15:00 (Poster Plaza)

Good governance, regulatory compliance and risk management are all key factors in ensuring the industry's sustainability. This session will describe how these factors need to be addressed thoroughly and effectively by all the industry stakeholders.

Chair Mr. George Osahon, Director, Department of Petroleum Resources, Nigeria,
Vice Chairs Mrs. Leanne Geale, Chief Ethics and Compliance Officer, Shell, Netherlands,
 Mr. Szabolcs FERENCZ I., Senior Vice President of Corporate Affairs, MOL, Hungary,

F21 Papers

How Did We Win the Sustainability Game Through Enterprise Risk Management?

Lakshmanan Ramanathan, Deputy Manager - CQA, Engineers India Limited, India,
 Co-author: Sanjay Kumar Badlani, Engineers India Limited, India;

São Francisco Basin - Brazil: a Challenging Frontier

Anderson Souza, Senior Engineer, CEMIG, Brazil,
 Co-authors: Roberto Borges; Giovani Silva; Monica Cordeiro; Romildo Filho, CEMIG, Brazil;

The Peruvian Main Transportation and Distribution Pipelines Guarantee as a Means of Promoting Natural Gas Industries and Energy Access

Lucio Andrés Sánchez Povis, LAWYER, SANTIVÁÑEZ ABOGADOS, Peru,
 Co-author: Cecilia del Pilar Fernández Canchos, Energy and Mines Ministry of Peru, Peru;

A Comparative Study of Regulatory Issues: Governance, Risks and Compliance

Shameek Chanda, Assistant Manager (Employee Relation), Bharat Petroleum Corporation Limited, India,

F21 Posters

Asset Integrity Meter

Abdullah Al-Ghailani, Inspection Unit Supervisor, Saudi Aramco, Saudi Arabia,

REACH Compliance in MOL Plc.

Judit Tóth, Reservoir modeling expert, MOL Plc., Hungary,
 Co-author: Krisztina Nagy, MOL Plc., Hungary;

Branding Qatargas Through Our Liaison Offices, a Tool for Successful Business Cooperation

Kuncheria George, Commercial Analyst, Qatargas, Qatar,

Global Oil & Gas Taxation Trends

Alexey Kondrashov, Partner | Global Oil & Gas Tax Leader, Ernst & Young, Russian Federation,
 Co-author: Andrea Teasdale, Ernst & Young, United Kingdom;

Assimilation of Noise Footprint Within Petroleum Refinery and Adoption of Strategy for Its Control and Sustainable Management of Human Health

S.V.R. SUBRAMANYAM, Assistant General Manager, Engineers India Limited, New Delhi, India,
 Co-authors: R.S. Prasad; J.K. Joshi; L.K. Vijh, Engineers India Limited, New Delhi, India;

Energy Policy of China in the Next 5 Years

Ksenia Kushkina, Ph.D student, Institute of World Economics and International Relations, Russian Academy of Sciences, Russian Federation,

Sustainable Business Models for Harnessing benefits of Sustainable Procurement in Upstream Petroleum Supply Chain through Life Cycle Assessment

Samir Shamsbery, Dy. General Manager, M/s Oil and Natural Gas Limited, India,

F22 - The role of innovation and technology in shaping the oil and gas industry

Wednesday 18th June 14:15 - 15:45 (Block 4)

Poster Session Thursday 19th June 11:00 - 13:00 (Poster Plaza)

Innovation and technology is vital in promoting best practice, piloting new research and linking the industry to academic and research institutions. This session will discuss how innovation and technology is used by the industry to ensure it continues to move forward to become ever more productive and efficient.

Chair Mr. Samer Ashgar, Manager, EXPEC Advanced Research Center, Saudi Aramco, Saudi Arabia,
Vice Chairs Mr. Yueqiang LI, Senior Vice President, CNPC Technical Services Company, China,

F22 Papers

Building Technology Innovation System Contribute NOC Transition

Hong Yang, Engineer, Economics & Technology Research Institute, CNPC, China,

Co-authors: Jianzhong Lu; Jian Jun Zhang, Economic & Technology Research Institute, CNPC, China;

Driving Force of Innovation and Technology Application Development in Oil and Gas Industry

Hualin Zhang, Director, CNPC, China,

Co-authors: Kaicheng Zhu, Research Institute of Petroleum Exploration & Development, CNPC; Yong Pei, CNPC; Xinchun He, Research Institute of Petroleum Exploration & Development, CNPC, China;

The Technical Edge - How Science and Technology Will Transform the Way We Find, Produce and Use Energy

David Eyton, Head of Technology, BP, United Kingdom,

EOR/IOR-Nanotechnologies: Present and Future

Alexander Khavkin, Deputy General Director, JSC IGI, Russian Federation,

Reservoir Simulation and Modeling - a Vision of 2020

Thomas James Byer, PETROLEUM ENGINEERING CONSULTANT, Saudi Aramco, Saudi Arabia,

F22 Posters

Leading Organizations Build Case for Green Infrastructure

Sachin Kapila, Manager: Environmental Footprint Innovation and Strategic Partnerships, Shell, United Kingdom,

How to Use Big Data Technologies to Optimize Operations in Upstream Petroleum Industry

Abdelkader Baaziz, Senior Manager at SONATRACH & PhD Researcher at IRSIC, Sonatrach & IRSIC Laboratory at Aix-Marseille University, Algeria,

Co-author: Luc Quoniam, Aix-Marseille University, France;

New Technologies and Their Impact on the Depletion and Productivity in Iran Oil and Gas Upstream Sector (A Econometric Approach to Measurement and Estimation)

Dariuosh Vafi, Faculty Member, IIES, Institute for International Energy Studies, IIES (Institute for International Energy Studies), Iran,

The Nature and Role of Technology in Upstream Petroleum Industry

Seyed Mahdia Motahhari, Manager of reservoir studies and field development division, Research Institute of Petroleum Industry, Iran,

Co-authors: Seyed Kamran Bagheri, Scuola Superiore Sant'Anna, Italy; Seyed Saleh Hendi, Research Institute of Petroleum Industry, Iran;

Controlled Release of Oil Field Chemicals

Dmitry Kosynkin, Petroleum Engineer, Saudi Aramco, Saudi Arabia,

Co-authors: Mazen Kanj, Lebanon; Jim Funk, Saudi Aramco, USA;

Tackling the Dilemma of Innovation-Risk & Inevitability: A Road Map for Systemic Innovation in Oil & Gas Industry

Apoorve Khandelwal, Senior Research Scientist, Bharat Petroleum Corporation Limited, India,

Nanotechnology in E&P, Microscopic Solutions to Mega Scale Problems

Shahab Ayatollahi, Professor, Shiraz University, Iran,

Hydraulic Fracturing as a Development Strategy - Successful Case Histories from the Congo Basin: A Matter of Technology and Risk Attitude

Loris Tealdi, Vice President, Eni E&P, Italy,

Co-author: Raffaele Perfetto, eni E&P, Italy;

F23 - Energy efficient technologies ensuring environmental sustainability of the oil and gas industry

Wednesday 18th June 16:00 - 17:30 (Block 4)

Poster Session Thursday 19th June 13:00 - 15:00 (Poster Plaza)

Energy efficient technologies, including carbon capture and storage (CCS), are seen as a potential major contributor in reducing greenhouse gas emissions. This session will address the latest developments from the entire value chain.

Chair Dr. Jean-Francois MINSTER, Senior Vice President, TOTAL SA/Scientific Development, France,
Vice Chairs Mr. Takashi Yasuda, Executive Officer, CTO, Technology Innovation Center, JGC Corporation, Japan,

F23 Papers

Improving Energy Efficiency with Cogeneration Technology

David O'Brien, , ExxonMobil, United States,

Treated Industrial and Process Water

Noora Al-Derham, Specialist (Development Planning), RasGas Company Ltd., Qatar,
Co-author: Tachta Hidayat, RasGas Company Ltd., Qatar;

Energy Management in Use: What Has Been Changed after ISO 50001 Introduction?

Johannes Penzkofer, Director, GCE Group, Germany,
Co-author: Sergej Galkin, GCE Group, Russian Federation;

Technical-Economic-Environmental Assessment of Hybrid Process for CO₂ Capture from Natural Gas

Lorena Fernanda Dos Santos de Souza, Research Technician, EQ - UFRJ, Brazil,
Co-authors: Ofélia Araújo; José Medeiros, Escola de Química, Federal University of Rio de Janeiro, Brazil;

F23 Posters

Gas Flaring Reduction in Kuwait Oil Company

Eisa AlHaddad, Instruments Maintenance Engineer, Kuwait Oil Company, Kuwait,
Co-author: Khalid Ben Amerah, Kuwait Oil Company, Kuwait;

Planning for Zero CO₂ Emission from LNG Production Plant

Farrokh Kamali, Technical Advisor, Iran LNG Company (ILC), Iran,

CCS—EOR Pilot Project of PetroChina in Jilin Oilfield, China

Liao Xinwei, 18 Fuxue Road, Changping, Beijing China, China University of Petroleum, Beijing, China,
Co-authors: Shen Pingping, RIPED, PETROCHINA; Li Ju, China University of Petroleum-Beijing, China;

Subsurface Bio-Electrochemical Conversion of Carbon Dioxide into Methane by using Indigenous Microorganisms

Naoya Fukushima, Assistant Professor, The University of Tokyo, Japan,
Co-authors: Haruo Maeda, INPEX Corporation, Japn; Kozo Sato; Hajime Kobayashi, The University of Tokyo, Japan;

Simultaneous Optimization of Carbon Dioxide Sequestration and Enhanced Oil Recovery in Oil Reservoirs Using Multi Objective Genetic Algorithm_Case Study

Mohammad Amin Safarzadeh, , Research Institute of Petroleum Industry, Iran,
Co-author: Seyed Mahdia Motahhari, Research Institute of Petroleum Industry, Iran;

Minimizing Fresh and Wastewater Using Water Pinch Technique in Petrochemical Industries

Wasif Mughees, Researcher/Student, King Saud University, Saudi Arabia,
Co-authors: Wasif Mughees; Malik Al Ahmad; Muhammad Naeem, King Saud University, Saudi Arabia;

Handling Impacts of Upstream Refinery Operations on Effluent Treatment Plant

Jayant Kumar Joshi, Head Environment, Engineers India Limited, India,
Co-authors: Parveen Goel; Mayank Gupta; Lalit Vijh, Engineers India Limited; Manoj Joshi, Independent Consultant, India;

ORC Plants Application for Secondary Energy Resources Recycling in Oil and Gas Sector Enterprises

Alexey Zakharov, Director, GCE Group, Russian Federation,

Renewable Energies versus CCS & Energy Efficient Technologies; Which One to Subsidize for Sustainable Energy Supply & Cleaner Environment?

Maryam Sohrabi, Senior Energy Researcher, Institute for International Energy Studies (IIES), Iran,
Co-authors: Erfan Vafaiefard, Institute for International Energy Studies / Skema Business School, Iran; Hamzeh Zarei, University of Melbourne, Australia;

Optimizing Operational and Environmental Stewardship in Offshore Operations

Brito Irma, GERENTE DE AMBIENTE DE DIVISION PRODUCCION COSTA AFUERA, Petroleos de Venezuela, PDVSA, Venezuela,

F24 - Human resources: challenges and opportunities

Thursday 19th June 14:15 - 15:45 (Block 4)

Poster Session Wednesday 18th June 15:00 - 17:00 (Poster Plaza)

In the oil and gas industry, manpower is one of the key drivers to success. This session will include all aspects of human resources, including education, recruitment, training and retention. It will also address actions necessary to attract both women and the younger generation to the technical professions in the industry.

Chair Ms. Louise Kingham OBE FEI, Chief Executive, Energy Institute, United Kingdom,
Vice Chairs Ms. Vlada Streletskaia, Executive assistant of rector, Gubkin Russian State University of Oil and Gas, Russian Federation,
 Mrs. Tina Hagen, HR and Competence Manager, The Norwegian Oil and Gas Association (OLF), Norway,

F24 Papers

Human Resources: Challenges and Opportunities

James Arnott, Managing Director, Business Services Lead-Accenture Capital Project Services (EALA), Accenture, United Arab Emirates,

Co-author: John Downie, Accenture, United Kingdom;

Needed to Fill the Talent Gap - Generation Y at Work

Katharina Gruenberg, Economist, Shell Upstream International, Netherlands,

Bridging the Skill Gap- Attracting Women Talent to Oil & Gas Industry

Mansi Dubey, Deputy Manager (HR), Bharat Petroleum Corporation Limited, India,

Co-authors: Swati Singh; Apoorve Khandelwal, Bharat Petroleum Corporation Limited, India;

Fueling African Oil & Gas Growth with Local Talents

Antoine Rostand, Managing Director, Schlumberger Business Consulting, France,

F24 Posters

The Dual Training System as a System of Long-Term Power Factor of Human Resources of the Exploration Companies

Alexandra Murtazina, economist, TNG-Group, Russian Federation,

Classics and Innovations in Educational Technologies of Gubkin University

Ravilya Safieva, professor, Gubkin Russian State University, Russian Federation,

Recruiting Gen Y Through Social Media in Oil and Gas Industry

Musa Bilgehan Akgun, HR Specialist, TPAO, Turkey,

Co-author: Gokce Kut, TPAO, Turkey;

Integration Of Multicultural Project Teams in Oil and Gas Companies

Zoheit Benmerkhi, Maintenance Planning Manager, Sonatrach, Algeria,

Reinventing HRM Boundaries: Enrolling the Indirect Workforce in Oil & Gas Sector for "Responsible Conduct"

Chaityparna Banerjee, Assistant Manager (Employee Relations), Bharat Petroleum Corporation Ltd., India,

Co-authors: Mansi Dubey ; Ullas Batra , Bharat Petroleum Corporation Ltd., India;

Production Engineering Specialist Program is Helping Saudi Aramco to Meet Technical Challenges in Upcoming Mega Projects

Karam Yateem, Lead Petroleum Engineer, Saudi Aramco, Saudi Arabia,

Co-authors: Samih M Alsayed; Syed A Warsi; James O Arukhe, Saudi Aramco, Saudi Arabia ;

How to Involve Students and Young Professionals in Shaping the Global Energy Future: the World Energy Council's and World Petroleum Council's Youth Initiatives

Anna ILLARIONOVA, PhD Student, WPC youth member from Russia, Russian Foreign Trade Academy, Russian Federation,

F25 - The role of the oil and gas industry in tackling energy poverty

Tuesday 17th June 16:00 - 17:30 (Room 5)

Poster Session Wednesday 18th June 13:00 - 15:00 (Poster Plaza)

Energy poverty is an increasingly acknowledged global challenge that impacts economic growth, development and social well being. As social responsibility becomes more and more a way of doing business for the oil and gas industry, so efforts to find ways to tackle energy poverty have become urgent. What can the oil and gas industry do as part of these efforts? How will energy poverty initiatives shape the operations of our industry? And the relations with local communities? How should the industry design its CSR policies to cope with energy poverty?

Chair Mr. Roberto Ramallo, Director, Corporate Social Responsibility, Pluspetrol SA, Argentina,
Vice Chairs Ms. Nazan Senol Topguder, EOR Advisor, Turkish Petroleum Corporation (TPAO) Research Center, Turkey,
 Mr. Victor Briggs, Managing Director, Nigerian Petroleum Development Company, NPDC - NNPC, Nigeria,

F25 Papers

Oil Reform and Poverty Abatement in Mexico: A New Perspective for Inclusive Green Growth
Remzi Xhemalce, Chief of Department of International Oil Markets, Secretariat of Energy, Mexico,

How World's Resources Companies Can Help Address Energy Poverty
Jean Marc Ollagnier, Resources CEO, Accenture, France,

Unleashing the Heroic Spirit of Oil industry- Energising Business & Society simultaneously
Apoorve Khandelwal, Senior Research Scientist, Bharat Petroleum Corporation Limited, India,
 Co-authors: Ullas Batra, Bharat Petroleum Corporation Limited; Mansi Dubey, Bharat Petroleum Corporation Ltd., India;

F25 Posters

The Analysis of CSR in Energy & Environmental Issues with Futures Studies Methodology (Case Study: PSEEZ (The Capital of Iran Energy))

Ali Rahneshtin, Senior in Foreign Procurement, Borzouyeh(Nouri)Petrochemical Co /PSEEZ/Hormozgan University, Iran,
 Co-authors: Reza Ahmadi Kahnali, Hormozgan University; Maryam Vakilzadeh, NIPC; Peyman Razmjoo, BPC, Iran;

Scenarios for a Sustainable Future Energy to 2050:Three Exploratory Scenarios to 2050

Ali Rahneshtin, Senior in Foreign Procurement, Borzouyeh(Nouri)Petrochemical Co /PSEEZ/Hormozgan University, Iran,
 Co-authors: Maryam Vakilzadeh, NIPC, Iran; John A. Sweeney, Hawaii University, USA; Reza Ahmadi Kahanali, Hormozgan University, Iran;

Role of Kazakhstan's Energy Sector in the Enhancement of ECO Energy Cooperation

Rosa Farboudmanesh, Expert, Institute for International Energy Studies, Iran,
 Co-author: Majid Mohammadi, Institute for International Energy Studies, Iran;

Policies for Tackling Energy Poverty in Peru

Cecilia del Pilar Fernández Canchos, Economic Analyst of the General Bureau of Hydrocarbons and Fuel Price Stabilization Fund, Energy and Mines Ministry of Peru, Peru,
 Co-author: Lucio Andrés Sánchez Povich, Law Firm "Santiváñez Abogados", Peru;

Transformation of Indian Oil & Gas Companies into Integrated Energy Companies: a Realistic Vision or Delusion?

Swati Singh, Deputy Manager (Training), Bharat Petroleum Corporation Ltd., India,
 Co-authors: Chaityparna Banerjee; Mansi Dubey, Bharat Petroleum Corporation Ltd., India;

Eradicating Energy Poverty through CSR: Empirical Evidences and Lessons from Indian Hydrocarbon Sector

Amanpreet Chopra, Manager, Chairman & Managing Director Office, Engineers India Limited, India,
 Co-author: Mohit Goel, Engineers India Limited, India;

Rasoi Ghar - A Successful CSR Initiative for Rural Development in India

Barman Sanjay Kumar, Chief Manager, Hindustan Petroleum Corporation Limited, India,
 Co-authors: Sonal Desai, India; A Surya Rao, Indai; Sanjay Barman; Narayanan Krishnamurthy; Gayatri Chandrashekar, HINDUSTAN PETROLEUM CORPORATION LTD, India;

Managing Energy Sources to Emit Environment Contaminants and Its Effect on Providing Needs.

Amin Amraei, Director, Pooya Sepehr Kish Energy Development (PSKED), Iran,
 Co-authors: Asadoolah Kalantar, Iranian Oil Pipeline & Telecommunication Company, Iran; Farid Amraei, Iranian Oil Pipeline and Telecommunication Company, Iran;

Changing the Geopolitical Scope Around Arctic Hydrocarbon Resources

Maria Morgunova, PhD student, Gubkin Russian State University of Oil and Gas, Russian Federation,
 Co-author: Elena Telegina, Gubkin Russian State University of oil and gas, Russia;

New Process for Hydrogen Energy Storage and Transportation in a Large-Scale

Yoshimi Okada, Principal Researcher, Chiyoda Corporation, Japan,
 Co-authors: Hironori Kawai; Kenichi Imagawa; Makoto Yasui, Chiyoda Corporation, Japan;

BPK8 - Knowledge management

Monday 16th June 12:00 - 13:00 (Block 4)

This Best Practice Keynote will address processes, strategies and policies to identify, create, represent, distribute and enable adoption of insight and experiences in the oil and gas industry. The main focus are the organisational objectives, such as improved performance, competitive advantages, innovation and sharing knowledge, as an enabler of organizational learning.

- Chair** Mr. David E.A. Williams, Managing Partner, Global Oil and Gas, The Highland Group, United Kingdom,
- Speakers** Ms. Rima Al-Awadhi, Team Leader Knowledge Management, Kuwait Oil Company, Kuwait,
Mr. Thierry Pilenko, Chairman and CEO, Technip, France,

BPK8 Papers

hHow can we better share & leverage expertise within the industry?

Thierry Pilenko, Chairman and CEO, Technip, France,

Knowledge Retention

Rima Al-Awadhi, Team Leader Knowledge Management, Kuwait Oil Company, Kuwait,

BPK9 - Ethics and anti-corruption

Tuesday 17th June 12:00 - 13:00 (Block 4)

Ethical and non-corrupt behaviors are key factors in ensuring the oil and gas industry's sustainability. Lessons learned and best practices from corporate responsibility and transparency initiatives will be presented in this session.

- Speakers** Mr. Philip Jordan, Senior Vice President Ethics, TOTAL S.A., France,
Mr. Jonas Moberg, Head of the International Secretariat Extractive Industries Transparency Initiative, EITI (Extractive Industries Transparency Initiative), Norway,
- Chair** Mr. Alexander Sokolov, Partner (Financial Advisory Services), Deloitte CIS, Russian Federation,

BPK9 Papers

Ethics and Business-Sustainable Growth and Value Creation for Stakeholders

Philip Jordan, Senior Vice President Ethics, TOTAL S.A., France,

Presentation Jonas Moberg, EITI

Jonas Moberg, Head of the International Secretariat Extractive Industries Transparency Initiative, EITI (Extractive Industries Transparency Initiative), Norway,

RT09 - Where are we now in the climate change agenda?

Wednesday 18th June 10:45 - 11:45 (Plenary Hall)

The oil and gas based industry accepts being a part of the climate change problem, and as such sees itself as a key player in finding and developing solutions. This Round Table will address the current status of the industry's responses to mitigate climate change.

- Moderator** Mrs. Hege Marie Norheim, SVP Environment & Climate, Statoil, Norway,
- Panelists** Mr. Brian Sullivan, Executive Director, IPIECA, United Kingdom,
Ms. Anita George, Senior Director of the World Bank Group Energy and Extractives Global Practice, World Bank, United States,
Mr. Dirk Forrister, President and CEO, International Emissions Trading Association, Switzerland,
Mr. Orlando Enrique Cabrales Segovia, Deputy Minister of Energy, Deputy Minister of Energy, Colombia,

RT10 - International cooperation

Wednesday 18th June 14:15 - 15:45 (Room 5)

In order to guarantee that the oil and gas industry will supply the energy needed to responsibly energise our growing world there is a greater recognition that cooperation and collaboration are required in the future to create commercial, operational and political synergies. What are the key elements for a successful strategy? What are the areas that NOCs / IOCs and SOCs can best cooperate with each other and with the other key stakeholders such as governments, suppliers, communities etc.?

Moderator Mr. Pedro Miras Salamanca, Chairman, Spanish National Committee of the WPC, Spain,
Panelists Mr. Wim Thomas, Chief Energy Advisor, Shell, United Kingdom,
 Mr. Petter Nore, Chief Energy Analyst, Norwegian Ministry of Foreign Affairs, Norway,
 Mr. Pekka Tiitinen, Head of Discrete Automation and Motion division Member of the Group Executive Committee of ABB Ltd, ABB, Switzerland,
 Mr. Neil Duffin, President, ExxonMobil Development Company, United States,
 Mr. Michael Borrell, Senior Vice-President Continental Europe-Central Asia, TOTAL, France,
 Mrs. Hosnia Hashim, Vice President, Operations, Kufpec, Kuwait,

RT11 - Transformation of oil companies into energy companies

Wednesday 18th June 16:00 - 17:30 (Room 5)

Many NOCs and IOCs have undergone or are undergoing changes which will see them transform themselves into National / International Energy Companies (NEOs / IEOs). This session will address and discuss the trend and the subsequent associated challenges which it brings.

Moderator Mr. Jorge Marques de Toledo Camargo, Member of the Board of Directors, IBP, Brazil,
Panelists Mr. Kirill Kravchenko, CEO, NIS-Gazpromneft, Serbia,
 Mr. Norbert Schwieters, Global Energy, Utilities & Mining Leader, PWC, Germany,
 Mr. Arturo Gonzalo Aizpiri, Corporate Director of Institutional Relations and Corporate Responsibility, Repsol, Spain,
 Mr. Olivier Cleret de Langavant, Senior Vice President Strategy Business Development R&D, TOTAL E&P, France,

RT12 - Geopolitics

Thursday 19th June 14:15 - 15:45 (Room 5)

The petroleum business is interconnected, globalised and interdependent, and as such geopolitical issues can impact many areas, such as access to exploration areas and poor boundary demarcation zones for example. These in turn impact supply and price as well as having a disruptive effect in general. These geo-political factors will be discussed from the perspective of business, government and academia.

Moderator Mr. Frank Mckenna, Deputy Chair, TD BANK CANADA, Canada,
Panelists Mr. Harry Brekelmans, Executive Vice President Operated Assets Upstream International, Shell, Russian Federation,
 Prof. Weidong Chen, Chief Energy Economist, CNOOC, China,
 Dr. Volkan Ediger, Coordinator, Strategy Development and Research; Head of Energy Systems Engineering Department, Kadir Has University, Turkey,

RT12 Posters

Geopolitics

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