SPE Annual Caspian Technical Conference
Digital Transformation: Enabling the Future

16–18 October 2019
Fairmont Flame Towers
Baku, Azerbaijan

Conference Programme
Conquering challenging Caspian reservoirs by safe and efficient drilling operations

For more information please visit: www.socar-aqs.com
Dear Colleagues

As conference chairpersons, and on behalf of the Conference Executive and Technical Programme Committees, we thank you for attending the SPE Annual Caspian Technical Conference.

This year’s conference theme “Digital Transformation: Enabling the Future” will focus on various ways the oil and gas industry is using digital technology and how it can help our industry become more sustainable and value-adding. The velocity and magnitude of price volatility has pushed the industry to focus on chasing efficiency to enhance the value of the ultimate products. Digital technology is a key contributor to this objective.

Increasing this value capture requires a deep understanding of the people behind the technologies. The modernisation of the industry generated by the digital technology is then required to adapt to a new cultural focus, utilising new skill and mind-sets.

Oil and gas operators, contractors, service providers, universities and governments, all have a role to play in digital transformation so that it effectively improves the sustainability of our industry. Therefore, your active participation is essential.

The conference theme will be explored further in the three keynote panel sessions – Past, Present, and Future; Sustainability, Growth and Profit and New Generation Talent and Human Factors. In these sessions, you will hear from high-profile speakers and panellists drawn from government, operators, service providers, advisory firms, universities and energy research companies.

Twelve technical and several knowledge sharing poster sessions will encompass presentations across a range of technical topics. These presentations will offer the opportunity to share knowledge in an open and constructive environment.

We hope that you take the opportunity to meet and network with old and new colleagues, discover new technologies and insights into the industry, engage in the debate, and share your experiences.

Sincerely,

Welcome From the Executive Committee Co-Chairs

Khosbakht Yusifzadeh Baghi Oglu,
First Vice President of State Oil Company of Azerbaijan Republic (SOCAR) Academician of the Azerbaijan National Academy of Sciences (ANAS)

Denis LeMarchal,
Managing Director TOTAL E&P Azerbaijan

Emmanuel Okugbaye,
New Well Delivery Manager, BP
Equinor – a broad energy company

We are Equinor, a broad energy company with 20,000 committed colleagues developing and producing oil, gas, wind and solar power in more than 30 countries worldwide.

Driven by our Nordic urge to explore beyond the horizon, our dedication to safety, cooperation, equality and sustainability, we are shaping the future of energy.

equinor.com

The Society of Petroleum Engineers

The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose more than 156,000 members in 154 countries are engaged in oil and gas exploration and production. SPE is a key resource for technical knowledge providing publications, events, training courses, and online resources at www.spe.org.

Table of Contents

Sponsors and Supporters 5
About SPE and Partners 6
Venue Floor Plan 7
Schedule of Events 8
Executive Committee 9
Opening Ceremony 10
Conference Programme 11
Technical Programme 12
Speakers’ Biographies 26
General Information 31
Student Development Summit 33
Regional Award Winners 34
Media Supporters 35

About SPE

The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose more than 156,000 members in 154 countries are engaged in oil and gas exploration and production. SPE is a key resource for technical knowledge providing publications, events, training courses, and online resources at www.spe.org.
Thank You to Our Sponsors (As of September 2019)

Host Organisation
SOCAR

Platinum Sponsor
bp

Silver Sponsor
SOCAR AQS

Bronze Sponsors
Total
ICD
Worley

Lunch Sponsor
Schlumberger

Coffee Break Sponsor
BAKER HUGHES, a GE company
equinor

Student Conference Sponsor

Registration & Lanyards Sponsor
HALIBURTON

Sponsors
Caspian Geo

In Participation With
AAPG
AAGC
EAGE
SEG
Society of Exploration Geophysicists
Supporting Partners

AAPG
The American Association of Petroleum Geologists (AAPG) is the world’s oldest and most established petroleum geoscience organisation. Celebrating its 100th anniversary in 2017, AAPG continues to be the global centre of petroleum geology science and data. With tens of thousands of members worldwide, AAPG’s professional scientists deliver the science needed by companies, governments, and institutions across the globe.

ANGC – AZƏRBAYCAN NEFTÇİ GELOQQLARı CƏMİYYƏTİ
The Azerbaijan Society of Petroleum Geologists (ASPG), established in 1993, became affiliated with the American Association of Petroleum Geologists (AAPG) in 1994. It has held a number of international conferences, some of which were jointly organised with AAPG and EAGE. It has organised local Republic conferences, as well as many seminars, workshops, and field trips. ASPG publishes the Azerbaijan Geologist scientific and monthly information bulletin. ASPG also works with students, holding annual student conferences, as well as special lessons, field trips, and technology days to help students determine their future professions and other activities.

EAGE
The European Association of Geoscientists and Engineers (EAGE) is a professional association for geoscientists and engineers with a world-wide membership, enabling a global network of professionals to share their knowledge and experience. Since 2003, EAGE LC Azerbaijan has done most of its work jointly with the Azerbaijan Society of Petroleum Geologists (ASPG).

SEG
The Society of Exploration Geophysicists (SEG) is a not-for-profit organisation that promotes the science of applied geophysics and the education of geophysicists and was founded in 1930. SEG is an international organisation that fulfils its mission through its publications, conferences, forums and educational opportunities. Since 1993 the AMGK also operates as a local chapter of SEG in Baku, Azerbaijan.

AMGK
(Azerbaijan Milli Geofizika Komitesi) is the Azerbaijani title of National Committee of Geophysicists of Azerbaijan (NCGA), which was established in 1993 and devoted its activity to launching various studies in Azerbaijan, integration of Azerbaijan’s geophysicists into the international geophysical community and organising international and local conferences and workshops.

SPE Disciplines Covered

- Multi-disciplinary
- Management and Information
- HSE
- Projects Facilities and Construction
- Drilling
- Production and Operations
- Completions
- Reservoir Description and Dynamics

www.spe.org/go/19ctce
COMMITTED TO SMART IDEAS
Leading in the deep offshore through successful innovation
## Schedule of Events

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday 16 October 2019</td>
<td>0830 – 0930</td>
<td>SPE Conference Room 1</td>
<td>Registration</td>
</tr>
<tr>
<td></td>
<td>0930 – 1030</td>
<td>SPE Conference Room 1</td>
<td>Conference Opening Ceremony</td>
</tr>
<tr>
<td></td>
<td>1030 – 1100</td>
<td>SPE Conference Room 2</td>
<td>Coffee Break and Knowledge Sharing Poster Session</td>
</tr>
<tr>
<td></td>
<td>1100 – 1230</td>
<td>SPE Conference Room 1</td>
<td>Opening Keynote Panel Session: Past, Present and Future</td>
</tr>
<tr>
<td></td>
<td>1230 – 1330</td>
<td>SPE Conference Room 2</td>
<td>Lunch and Knowledge Sharing Poster Session</td>
</tr>
<tr>
<td></td>
<td>1330 – 1500</td>
<td>SPE Conference Room 1</td>
<td>Technical Session 1: Reservoir Characterisation</td>
</tr>
<tr>
<td></td>
<td>1500 – 1530</td>
<td>SPE Conference Room 2</td>
<td>Technical Session 2: Digitalisation Impact in Oil and Gas Industries</td>
</tr>
<tr>
<td></td>
<td>1530 – 1700</td>
<td>SPE Conference Room 1</td>
<td>Technical Session 3: Near Wellbore Characterisation</td>
</tr>
<tr>
<td></td>
<td>1700 – 1830</td>
<td>SPE Conference Room 2</td>
<td>Welcome Drinks Reception</td>
</tr>
<tr>
<td>Thursday 17 October 2019</td>
<td>0930 – 0940</td>
<td>SPE Conference Room 1</td>
<td>Regional Awards Ceremony</td>
</tr>
<tr>
<td></td>
<td>0940 – 1115</td>
<td>SPE Conference Room 2</td>
<td>Keynote Panel Session: Sustainability, Growth and Profit</td>
</tr>
<tr>
<td></td>
<td>1115 – 1145</td>
<td>SPE Conference Room 2</td>
<td>Coffee Break and Knowledge Sharing Poster Session</td>
</tr>
<tr>
<td></td>
<td>1145 – 1315</td>
<td>SPE Conference Room 2</td>
<td>Technical Session 5: Reservoir Surveillance</td>
</tr>
<tr>
<td></td>
<td>1315 – 1415</td>
<td>SPE Conference Room 2</td>
<td>Technical Session 6: Performance and Technology Improvements in Well Construction</td>
</tr>
<tr>
<td></td>
<td>1415 – 1545</td>
<td>SPE Conference Room 2</td>
<td>Technical Session 7: Addressing the Challenges of Harsh Downhole Conditions</td>
</tr>
<tr>
<td></td>
<td>1545 – 1615</td>
<td>SPE Conference Room 2</td>
<td>Coffee Break and Knowledge Sharing Poster Session</td>
</tr>
<tr>
<td></td>
<td>1615 – 1745</td>
<td>SPE Conference Room 2</td>
<td>Technical Session 8: Lowering Uncertainties and Costs Using New Techniques and Tools in Drilling and Maintenance</td>
</tr>
<tr>
<td>Friday 18 October 2019</td>
<td>0930 – 1100</td>
<td>SPE Conference Room 2</td>
<td>Keynote Panel Session: New Generation Talent and Human Factors</td>
</tr>
<tr>
<td></td>
<td>1100 – 1130</td>
<td>SPE Conference Room 2</td>
<td>Coffee Break and Knowledge Sharing Poster Session</td>
</tr>
<tr>
<td></td>
<td>1130 – 1300</td>
<td>SPE Conference Room 1</td>
<td>Technical Session 11: Production System Optimisation</td>
</tr>
<tr>
<td></td>
<td>1300 – 1400</td>
<td>SPE Conference Room 2</td>
<td>Technical Session 12: Unconventional Methods of Well Construction: Pushing the Boundaries</td>
</tr>
</tbody>
</table>

**Sessions**
- Opening / Plenary Session
- Panel Session
- Special Session

**Technical Sessions**
- Multi Discipline
- Reservoir Description & Dynamics
- Drilling and Completions
- Production and Operations
- Management & Information
- Facilities Engineering and Projects
- Completions
### Committees

#### Executive Committee

**Co-Chairs**
Academician Khoshbakht Yusifzadah, SOCAR
Emmanuel Okugbaye, BP
Denis Lemarchal, TOTAL E&P Azerbaijan

**Committee:**
Rauf Aliyarov, Azerbaijan State Oil Academy
Khairul Anwar Nasrudin, PETRONAS Azerbaijan
Elchin Bagirov, SOCAR
Eimear Bonner, Tengizchevroil
Philippe Dupouy, TOTAL E&P Absheron
Harun Guzel, TAM International
Ramiz Hasanov, Azerbaijan State Oil Academy
Bahram Huseynov, SOCAR
Rinat Iskakov, Satpaev Kazakh National Research Technical University
Aydin Kerimov, Schlumberger
Darrell Lancaster, Halliburton
Yashar Latifov, SOCAR
Eldar Maharramov, Oil & Gas Proserv
Akif Narimanov, EAGE
Marat Nukhaev, RESMAN
Fawad Quraishi, Equinor

#### Programme Committee

**Co-Chairs**
Ali Sheydayev, BP
Philippe Dupouy, TOTAL E&P Absheron

**Committee:**
Nazim Abdullayev, BP/SEG
Abzatdin Adamov, ADA University
Farhad Aliyev, Baker Hughes, a GE Company
Bolat Amangaliyev, Tengizchevroil
Khairul Anwar Nasrudin, PETRONAS Azerbaijan
Ehtiram Azizov, BP
Elchin Bagirov, SOCAR
David Bargé, Schlumberger
Subhan Bashirli, Schlumberger
Matteo Ce, Equinor
Emmanuel Ellenberg, Schlumberger
Teyrun Gahramanov, Halliburton
Ali Hasanli, SOCAR AQSS
Hamlet Isaxanli, Khazar University
Elshan Ismayilov, SOCAR AQSS
Arzu Javadoya, BP/ EAGE
Atageldi Kakayev, Dragon Oil Turkmenistan
Aydin Kalantarli, Equinor
Olzhas Karibayev, NCOC
Bagilya Karsybayeva, NCOC
Valery Kucherov, ERM
Adrian Ledroz, Gyrodata
Ali Naghiyev, SPE Baku Section
Emil Nasirov, JOCAP
Marat Nauryzgallyev, NCOC
Marat Nukhaev, RESMAN
Mona Nyland Berg, Equinor
Rizvan Ramazanov, Halliburton
Elshan Rzayev, BP
Diana Shigapova, Roxar
Baghir Suleymanov, Oil and Gas Scientific Research Project Institute
Nurbolat Tlepbergenov, Tengizchevroil
Mikhail Varfolomeev, Kazan Federal University
Jennifer Villinski, BP
Carlos Webel, Schlumberger
Laurie Whitesell, SEG
Aytan Zeynalli, SOCAR AQSS
Conference Programme

Opening Ceremony

Wednesday 16 October 2019  0930 – 1030, SPE Session Rooms 1 and 2

To mark the opening of the SPE Annual Caspian Technical Conference in Azerbaijan, leading industry figures will address delegates and journalists, providing insight and vision on the oil and gas industry in the Caspian region.

Shauna Noonan, 2020 SPE President, Occidental Petroleum
Academician Khoshbakht Yusifzadah, First Vice President, SOCAR
John Stephenson, VP Production, BP
Denis Lemarchal, Managing Director, TOTAL E & P Azerbaijan
Elchin Babayev, Rector, Baku State University

Continuous innovation, from pore to pipeline.

In 1927, Conrad and Marcel Schlumberger used their new electrical well logging technique to identify formations in the Pechelbronn oil field in the Alsace region of France — a first in the oil and gas industry. Today Schlumberger continues to innovate by introducing pioneering technologies delivered with technical expertise gained from decades of experience. From reservoir characterization and drilling to production and processing, we integrate multidisciplinary products and services to optimize hydrocarbon recovery and maximize production for our customers.

slb.com
## Keynote Panel Sessions

### Wednesday, 16 October 2019

**Keynote Panel Session**

**Opening Keynote Panel Session: Past, Present and Future**

**1100 – 1230 | SPE Session Rooms 1 and 2**

**Panellists:** Thierry Debertrand, Vice President Petroleum Facilities, **TOTAL**; Ramin Isayev, General Director, **SOCAR AGS**; Yashar Latifov, Vice President for Field Development, **SOCAR**; Dr Luis Quintero, Chief Advisor – Production Management, **Halliburton**; Gokhan Saygi, President of Russia and Central Asia, **Schlumberger**

**Moderator:** Fawad Quraishi, Vice President, Country Manager Azerbaijan and Kazakhstan, **Equinor**

**Session Chairpersons:** Darrell Lancaster, Vice President Caspian West, **Halliburton**; Fawad Quraishi, Vice President, Country Manager Azerbaijan and Kazakhstan, **Equinor**

In recent years, the Upstream O&G industry has sought to find ways to improve its overall performance, through operational execution excellence and by reviewing and improving the workflow process in order to eliminate waste, add value and improve financial performance.

Many companies are already learning from the Past by gathering and analyzing data, adopting the use of digital technologies in the Present, such as the cloud and artificial intelligence, in order to enable step changes in the Future.

When considering Past, Present and the Future, nothing is omitted. Mature field development is already part of the Present and as data analytics evolve, part of the Future does too.

So, what does the Future hold? Improved efficiencies and lower risk associated with a reduced number of human interventions? The adoption of automation and robotics, which are already part of the past and present in other industries? Should we be living in the Past, be satisfied in the Present, or get back to the Future?

### Thursday, 17 October 2019

**Keynote Panel Session**

**Keynote Panel Session: Sustainability, Growth and Profit**

**0940 – 1115 | Session Rooms 1 and 2**

**Panellists:** Niall Henderson, Head of Planning and Commercial Operations, **BP**; Zaher Ibrahim, President, Saudi Arabia, North Gulf and East Mediterranean, **Baker Hughes, a GE Company**; Mikhail Krasik, JV and Development Director, **TOTAL E&P Absheron B.V**; Zaur Mammadov, Chief of Staff, **Ministry of Energy of the Republic of Azerbaijan**; Arnd Wilhelms, Vice President, Petroleum Technology, **Equinor**

**Moderator:** Yashar Latifov, Vice President for Field Development, **SOCAR**

**Session Chairpersons:** Yashar Latifov, Vice President for Field Development, **SOCAR**; Denis Lemarchal, Managing Director, **TOTAL E&P Azerbaijan**

The mission of an Energy company is to contribute to energy security, that is, to make available at an affordable price, the energy sources needed by an increasing world population. This objective shall be handled in a sustainable approach, that is “meeting the needs of the present without compromising the ability of future generations to meet their own needs” (United Nations Brundtland Commission 1987).

How do we integrate climate into Energy’s Strategy? What are the needs and environmental constraints in terms of energy supply and what is the adapted energy mix? How can the industry develop projects addressing the 3 three pillars of sustainability: economic, environmental, and social?

This session offers a platform to share innovative examples contributing to energy security where all stakeholders can identify their criteria for success, and find sustainable and profitable solutions.
Keynote Panel Session: New Generation Talent and Human Factors

0930 – 1100 | SPE Session Rooms 1 and 2

Panellists: Mehriban Ayyubova, HR Manager for GPO, RD and Strategy & Region, BP; Fabrice Bouchard, HR Director – Workforce Planning and Talent Management, Schlumberger; Emilya Mammadova, ASPIRE Services Operations, Baker Hughes, a GE Company; Charlotte Payen, General Secretary, French-Azerbaijani University

Moderator: Shauna Noonan, 2020 SPE President, Occidental Petroleum

Session Chairpersons: Emmanuel Okugbaye, ACG New Well Delivery Manager, BP; Asif Shefelqetov, Deputy Vice President on HR, IT and Regulations, SOCAR

The oil, gas and energy industry has continued to experience demographic change, which has in part been accelerated by the low oil price in recent years, and affected by the rapid growth of the alternative energy sector. As the population of millennials continues to grow in the workplace, the need to adapt the work environment to their expectations and capabilities and to adapt to the ever changing digital landscape will be even greater than before. The efficient transfer of knowledge becomes more important in an environment where information and data is growing at an exponential pace. This panel session will examine and discuss how successful industries have adapted to this change, what has been achieved in our industry and what further changes will need to be made to harness the full potential of the new generation talent.

Local delivery backed by a global network of over 60,000 experts to deliver sustained economic and social progress.

We are committed to a nationalization program supporting career development, expatriate succession and opportunities for graduates and interns.
**Technical Programme** (correct as of 30 September 2019)

**Wednesday, 16 October 2019**

**1330-1500**

**Location: SPE Session Room 1**

**Technical Session 01: Reservoir Characterisation**

**Session Chairpersons:** Philippe Dupouy, TOTAL E&P Absheron; Mona Nyland Berg, Equinor

Static and dynamic reservoir data synthesis is a key step for understanding the field at various stages of development. This session showcases stories of how integration of various geophysical, geological or monitoring data has helped identify main uncertainties, change the reservoir understanding and optimise the drainage strategy for green fields or brown fields. The featured cases highlight the integration of different data types, the development of specific static or dynamic reservoir modelling tools adapted to each situation as well as concrete examples of decisions taken on field redevelopment or green field development optimisation.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 1330  | 198333   | **The Role of Pressure Observation and Pressure Transient Analysis in Changing the Geological Concept of Mature Oil Field**  
Adil Mukanov, Aibek Aldazhar, PKKR JSC |
| 1400  | 198334   | **Integrated Dynamic and Static Characterisation Study to Redevelop Mature Reservoir in Gulf of Suez**  
Peter Falamouny, Ahmed Morsy, Mahmoud Kinway, Gulf of Suez Petroleum Company |
| 1430  | 198371   | **An Innovative and Integrated Reservoir Characterisation Driven by Modified Saturation Height Model and Fluid Contacts to Solve a Challenge in Complex Sandstone Reservoirs**  
Muhammad A Gibrata, Shawket Ghedan, Lamia Rouis, Dragon Oil (ENOC) |

**Knowledge Sharing Posters**

<table>
<thead>
<tr>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 198369   | **An Integrated 3D Geological Modeling Study of a Heavy Oil Field in Southeast Turkey**  
Safigul Tuba Kamanli, Turkish Petroleum Corporation (TPAO) |
| 198370   | **Impact of Aquifer Strength on Carbonate Gas Condensate Field Development Strategy, Case Study**  
Zhandos Yeshtay, Yerlan Bekenov, Zhasulan Karamergenov, KMG Engineering Caspimunaigas |
Technical Programme

1330-1500 Location: SPE Session Room 2

Technical Session 02: Digitalisation Impact in Oil and Gas Industries
Session Chairpersons: Olzhas Karibayev, NCOC; Abzetdin Adamov, ADA University

Year by year digitalisation invades the petroleum industry. Fields are getting digitalised, new approaches and methods, such as machine learning and advanced data analytics are being applied, which commemorates the beginning of a new era. New digital technology helps simplify many operational processes, reduces human work hours and helps improve equipment reliability and security. Operational cost saving is another major impact that digitalisation makes to companies. The session will feature digital applications which optimise and visualise the process, both field wide and domain wide.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1430</td>
<td>198374</td>
<td>Reservoir Value-engineering for West Siberian Oil Fields</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mikhail Naugolnov, Rustam Murtazin, LLC Gazpromneft NTC</td>
</tr>
<tr>
<td>1500</td>
<td>198337</td>
<td>Digital Transformation in Oil and Gas Industry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aytan Zeynalli, Ruslan Butdayev, Vugar Salmanov, SOCAR AQS</td>
</tr>
<tr>
<td>1530</td>
<td>198338</td>
<td>Implementation of Data Driven Machine Learning Methods and Physics Driven Concepts for Real-time Well Performance Estimation in Kashagan Field</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adilbek Mursaliyev, Adilbek Kushekov, Ruslan Sultangaliyev, NCOC N.V.</td>
</tr>
</tbody>
</table>

Knowledge Sharing Poster

<table>
<thead>
<tr>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>198372</td>
<td>Digital Twin of a Research Organisation: Approaches and Methods</td>
</tr>
<tr>
<td></td>
<td>Mars Khasanov, Gazpromneft; Fedor Krasnov, Gazpromneft STC</td>
</tr>
</tbody>
</table>
Technical Programme

Technical Session 03: Near Wellbore Characterisation
Session Chairpersons: Nurbolat Tiepbergenov, *Tengizchevroil*; Aydin Kalantarli, *Equinor*

Near wellbore characterisation provides critical information for identification of reservoir properties which helps to understand reservoir performance and to reduce unexpected occurrences during production. This session considers the application of an advanced logging system and well testing to evaluate and characterise complex reservoir and fluid systems for optimal reservoir management and development.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 1530  | 198339  | **Evaluation of Vertical Fracture Propagation Using Combined Spectral Noise Logging and High Precision Temperature Logging Data in a Low Permeability Sandstone Reservoir, Western Kaz**  
Doszhanyeleussinov, Dinmukhammed Bekmagambetov, Ivan Crabb, Alen Berdimuratov, Total E&P Dunga GmbH; Vener Nagimov, Aman Zhumekeshov, Azamat Makashev, Dmitry Makarov, TGT Oilfield Services |
| 1600  | 198377  | **Future Geosteering and Well Placement Solutions from an Operator Perspective**  
Kristine Hermanrud, Frank Antonsen, Maria Emilia Teixeira De Oliveira, Steen Agerlin Petersen, Monica Constable, Equinor ASA |
| 1630  | 198376  | **The Fracture Characterisation and Assessment of Gas Potential with Advanced Formation Tester in Low Permeability Fractured Carbonate Reservoir**  
Samat Ramatullayev, Vlad Blinov, Rustam Tukhtaev, Anton Filimonov, Nurhat Mendybaev, Murat Zeybek, Schlumberger; Muzafar Tillyabaev, Khurshid Abidov, Alexey Gavrilo, Vladimir Frik, Surhan Gas Chemical Operating Company LLC |
The Oil and Gas industry is one of the biggest contributors to the world economy despite being one of the most challenging with few technological advances made in recent years. Studies show that the amount of oil and gas production capacity required to meet demand during the next 20 years is more than twice the amount realised during the last decade. In order to meet the rising demand a number of factors need to be considered. These include; increasing capability, making projects economically viable; improving the safety and quality of the oil and gas industry and reducing the carbon footprint (energy efficiency). These requirements need a more analytical, data-driven, contemporary approach. This session focuses on alternative production strategies to conventional ones, new subsea technologies, and a new approach to dealing with environmental problems related to material characteristics.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1530</td>
<td>198342</td>
<td>Initial Research of Mineral Based Anti-Corrosion and Thermo-Resistant Multicomponent Composite Materials Emil Asgarov, SOCAR-AQS</td>
</tr>
<tr>
<td>1600</td>
<td>198343</td>
<td>Gas/Condensate Fields Development: Subsea to Shore Cost Effective Solution Luc Riviere, Clement Boireau, Rory Mackenzie, TOTAL</td>
</tr>
<tr>
<td>1630</td>
<td>Invited presentation</td>
<td>Implementation of Advanced Standards in Lifting Operations Elvin Shahmammadov, SOCAR-AQS LLC</td>
</tr>
</tbody>
</table>

Knowledge Sharing Posters

<table>
<thead>
<tr>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>198378</td>
<td>From Papers to Steel: Delivering First Stimulation Vessel in Caspian Sea Farid Hadiaman, Samir Mollayev, Ayaz Amirov, Fuad Ibrahimov, Ehtiram Azizov, BP Exploration (Caspian Sea) Limited; Hajagha Mammadov, Baker Hughes; Natalya Mammadova, Parviz Bakirov, BP Exploration (Caspian Sea) Limited</td>
</tr>
<tr>
<td>198379</td>
<td>Production Sustenance and Offshore Operation Safety Through Facility Optimisation and Debottlenecking Fatemeh Mehran, Ali Didanloo, Tu Le Mai Khanh, Schlumberger; Hung Le. Q, Thang Long JOC</td>
</tr>
</tbody>
</table>
Technical Programme

Thursday, 17 October 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 1145  | 198345  | **Value of Pressure Transient Analysis for Reservoir Surveillance and Production Optimisation During Early Production of Kashagan Field**  
Aigerim Bukharbayeva, Can Hatiboglu, North Caspian Operating Company; Ilyas Saurbayev, Shell Kazakhstan; John Reedy, Byron Haynes, Berik Uap, North Caspian Operating Company |
Artem Basov, Oleg Bukov, Vadim Kuznetsov, Dmitry Lazutkin, LLC Bazhen Technology Center; Kseniya Saprykina, Kirill Ovchinnikov, Andrey Guryanov, Alexander Katašov, Igor Novikov, Geosplit LLC |
| 1245  | 198385  | **Determination the Source of Sustained Annulus Pressure in High GOR Oil Wells by Using Acoustic Logging**  
Sergey Vasilyev, Nikolai Boltunov, Alena Shkaran, LLC Slavneft-Krasnoyarskneftegaz; Elena Kirpichikova, Roza Minakhmetova, Valeriy Pimantyev, Vener Nagimov, Asiya Zaripova, TGT |
Technical Programme

1145-1315  Location: SPE Session Room 2

Technical Session 06: Performance and Technology Improvements in Well Construction

Session Chairpersons: Elshan Ismayilov, SOCAR AQS; Ilkam Mukhamestshin, RESMAN

This session will explore well construction and performance improvement examples using the latest technology advancements where different techniques are applied to improve the well delivery standards.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1145</td>
<td>198348</td>
<td>The Heaviest and Longest 13 3/8” Full-String Casing Run in the Caspian Sea Region Elchin Akbarli, Elshan Ismayilov, Mohammad Masalmah, SOCAR-AQS</td>
</tr>
<tr>
<td>1215</td>
<td>198349</td>
<td>Cement Evaluation with New Generation Ultrasonic Tool in Multiple Casings Increases Operational Efficiency in Tengiz Field, Kazakhstan Zhalgasbek Ayazov, Tengizchevroil; Yegor Se, Chevron; Andrey Timonin, Schlumberger</td>
</tr>
<tr>
<td>1245</td>
<td>198350</td>
<td>Development of Automatic BHA Directional Tendency Prediction Based on Drill-Ahead Modeling Hendrik Suryadi, Tao Yu, Yuelin Shen, Jack Yang, Robin Chen, Wei Chen, Timur Khusaenov, Schlumberger</td>
</tr>
</tbody>
</table>

Knowledge Sharing Poster

<table>
<thead>
<tr>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>198384</td>
<td>Modelling of Fracture Geometry to Reduce the Risk of Intercepting Drilling Induced Fractures When Designing Sidetrack Trajectories Fergus Allan, David Shepherd, Abbas Abbasov, Jennifer Villinski, Reza Majidi, Ibrahimov Bagir, BP</td>
</tr>
</tbody>
</table>
Technical Programme

Technical Session 07: Addressing the Challenges of Harsh Downhole Conditions
Session Chairpersons: Emil Nasirov, JOCAP; David Barge, Tengizchevroil

Production from oil and gas reservoirs often face major operational challenges that require innovative technologies to maintain optimum well performance. Viable solutions are needed and sought out by operators. This session will present case studies on the application, development, and deployment of technologies to address sand and water production and downhole scale, three of the most common and challenging issues faced in production operations.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1415</td>
<td>198351</td>
<td>Water Shutoff Using Crosslinked Polymer Gels</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elchin F. Veliyev, Azizagha A. Aliyev, Vugar V. Guliyev, Nurana V. Naghiyeva, “OilGasScientificResearchProject” Institute, SOCAR</td>
</tr>
<tr>
<td>1445</td>
<td>198352</td>
<td>Successful Application of Scale Squeeze Inhibitor in Tengiz Field</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Akylbek Kamispayev, Elima Gazizova, Anton Skopich, Timur Munbayev, Edward Neubauer, John Clarke, Tengizchevroil LLP</td>
</tr>
<tr>
<td>1515</td>
<td>198388</td>
<td>Numerical Simulation of Water Shut-off for Heterogeneous Composite Oil Reservoirs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Baghir A. Suleimanov, Khasay A. Feyzullayev, “OilGasScientificResearchProject” Institute, SOCAR</td>
</tr>
</tbody>
</table>
New drilling and completion technologies are playing a critical role to allow cost-efficient and reliable well construction projects. From the use of Artificial Intelligence in order to increase the reliability of equipment and its predictive maintenance, to the use of ultra-deep boundary mapping technology to optimise well placement, this session is showcasing how the industry keeps employing innovative methods to enhance the drilling and completion of some challenging wells.

### Knowledge Sharing Posters

<table>
<thead>
<tr>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>198390</td>
<td>The Results of the Pilot Works on Well Completion Technologies and Continuous Monitoring on the Example of Extremely Long Horizontal Wells of the Yu. Korchagin Field in the Caspian Sea</td>
</tr>
<tr>
<td>198391</td>
<td>Technological Opportunities to Increase Efficiency of Primary Recovery of High Viscous Oil</td>
</tr>
</tbody>
</table>
Wells surveillance is the key to characterising the wells and hence the reservoir itself. These activities will help reveal any problems the wells might have and give vital information on production over the life of the asset. This session is devoted to showing improvements in real-time well metering and surveillance, especially usage of novel techniques and digital devices during production logging. New multiphase metering devices, which are becoming widely used lately by industry giants, are also in the focus.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1615</td>
<td>198394</td>
<td><strong>Optimisation of New Well Flowback Process</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Renat Sadyrbakiyev, Edward Neubauer, Anton Skopich, Olzhas Suleimenov, Abzal Aitzhanov, Tengizchevroil LLP</td>
</tr>
<tr>
<td>1645</td>
<td>198358</td>
<td><strong>Contemporary Technologies of Production Logging in Horizontal Wells as a Tool for Oil and Gas Fields Digitalisation</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marat Dulkarnaev, Povhneftegaz TME LUKOIL-West Siberia LLC; Kirill Ovchinnikov, Igor Novikov, Evgeny Malyavko, Geosplit LLC</td>
</tr>
<tr>
<td>1715</td>
<td>198359</td>
<td><strong>Operational Experience with MultiPhase Flow Meters</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Anton Skopich, Edward Neubauer, John Clarke, Chingiz Bopiyev, Tengizchevroil</td>
</tr>
</tbody>
</table>
Technical Programme

Technical Session 10: Breakthrough Wells Operation Through Strategic Technology Advancement

Session Chairpersons: Khairul Anwar Nasrudin, PETRONAS Azerbaijan; Hilde Marie Goldstein Seiertun, Equinor

The technology and strategy advancement in Drilling and Completion acts as a catalyst towards operational breakthrough especially for the challenging and complicated wells like ERD, HPHT and Deepwater. This session will discuss further on some of the successful application of the latest technology and strategy to unlock the potential hydrocarbon within complex reservoir drilling and completion. The operational breakthrough is proven by how much it has optimised the overall CAPEX and schedule of the project with zero impact towards reservoir performance and production.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1615</td>
<td>198360</td>
<td>Korolev Waterflood Pilot Completion Design for Water Supply and Injection Wells</td>
</tr>
<tr>
<td>1645</td>
<td>198361</td>
<td>Real-time Gas Influx Analysis and Control in Managed Pressure Drilling</td>
</tr>
<tr>
<td>1715</td>
<td>198362</td>
<td>Record-Breaking ERD Intelligent Completion System Installations in the North Caspian Sea: Challenges, Solutions and Multi-Disciplinary Approach</td>
</tr>
</tbody>
</table>

Knowledge Sharing Posters

<table>
<thead>
<tr>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>198396</td>
<td>Application of Alternative Tracer Technologies for Production Logging</td>
</tr>
<tr>
<td>198397</td>
<td>Evolution of Drillstring Integrity Planning and Monitoring</td>
</tr>
</tbody>
</table>
**Technical Programme**

**Friday, 18 October 2019**

**Technical Session 11: Production System Optimisation**

*Session Chairpersons: Atageldi Kakayev, Dragon Oil Turkmenistan and Mikhail Vafolomeev, Kazan Federal University*

To optimise production could be challenging based on multiple factors, ranging from well condition to oil characteristics. Although technology advancements address many of these factors and simplify some challenges, unique implementations of traditional solutions should not be neglected. This technical session presents three shared examples, where particular application of artificial lift, well stimulation method, and gas shut off operations with conformance control liner installation improve reservoir performance at three different fields.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1130</td>
<td>198363</td>
<td>Application of Conformance Control Techniques in Tengiz Field</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ilyas Yechshanov, Kanat Zhumagulov, Ilyas Tussupbayev, Chingiz Bopiyev, Yousef Ghomian, Bolat Amangaliyev, Tengizchevroil LLP</td>
</tr>
<tr>
<td>1200</td>
<td>198364</td>
<td>Auto Gas Lift Application in Azeri-Chirag-Gunashli Field, Azerbaijan, Caspian Offshore</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Samir Huseynzade, Charlie Hammond, Ahad Pashayev, Ilkin Allahverdiyev, Rovshan Mollayev, BP</td>
</tr>
<tr>
<td>1230</td>
<td>198365</td>
<td>First Implementation of High-Rate Pinpoint Technology in an Extremely Challenging Multilateral Well: Successful Lessons Learned from Tight Carbonate – Minagish Field, West Kuwait</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mohamed Mofti, Leopoldo Sierra, Alaeldin Saad Frag Alboueshi, Halliburton; Milan Patra, Sulaiman Ali, Abdullah Abu-Eida, Saad Matar, Kuwait Oil Company</td>
</tr>
</tbody>
</table>

**Knowledge Sharing Posters**

<table>
<thead>
<tr>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>198399</td>
<td>APC for Wellhead Chokes to Optimise Plant Performance in Tengiz Field</td>
</tr>
<tr>
<td></td>
<td>Arman Tanzharkov, Randy Cernik, Arman Shantayev, Tengizchevroil (TCO)</td>
</tr>
<tr>
<td>198401</td>
<td>Oil Production Stimulation by Creating a Vacuum in the Annular Space of the Well</td>
</tr>
<tr>
<td></td>
<td>Anatoly Andreevich Isayev, Rustem Shafagatovich Takhautdinov, Vladimir Ivanovich Malykhin, Almaz Amiryanovich Sharifullin, Sheshmaoil Management company LLC</td>
</tr>
</tbody>
</table>
Technical Programme

1130-1300 Location: SPE Session Room 2

Technical Session 12: Unconventional Methods of Well Construction: Pushing the Boundaries
Session Chairpersons: Diana Shigapova, Roxar; Subhan Bashirli, Schlumberger

Well construction has always been a great challenge and engineers continuously seek new ideas to optimise the drilling and completion methods and maximise well productivity down the road. This session will talk about unconventional methods of well completion, which opens up new horizons in well construction that tests the boundaries of current capabilities. Key topics of the session will be horizontal well completion, drilling optimisation in overpressured reservoirs and new cementing technologies.

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1130</td>
<td>198366</td>
<td>Well Cementing with Elastic Properties Cement Stone and Liner Rotation is the Key to the Successful Development of Hard-to-recover or “Tight Oil” Reserves from Bazhenov Formation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ivan Susliakov, Taras Shevchuk, Alexey Alekseev, «Technology center «Bazen», LLC; Alexey Dryaba, Andrey Alyakin, «GROUP MTO», LLC; Oleg Sekachev, PNG Service Company Ltd</td>
</tr>
<tr>
<td>1200</td>
<td>198367</td>
<td>Formation Pressure While Drilling Technology: Game Changer in Drilling Overpressured Reservoirs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Samat Ramatullayev, Akikat Makhmotov, Muratbek Zhabagenov, Schlumberger; Michele Cesari, Salvatore Torrisi, Graziano Capone, ENI Turkmenistan; Federica Ferrari, ENI Upstream</td>
</tr>
<tr>
<td>1230</td>
<td>198368</td>
<td>Hybrid Swell Packer – Water Prone Zone Isolation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Shian Ee Ma, Siti Nur Mahirah Bt M Zain, M Faizatulizuddin B Ishak, M Afiefe B Omar, PETRONAS; Jennie Chin Pui Ling, Schlumberger</td>
</tr>
</tbody>
</table>

Knowledge Sharing Posters

<table>
<thead>
<tr>
<th>Paper #</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>198403</td>
<td>Subsea Well Intervention – An Operator’s Experience in First Deepwater Temporary Wells Suspension in West Africa</td>
</tr>
<tr>
<td>198404</td>
<td>Development and Field Applications of Novel Oil-Based Mud in Western South China Sea</td>
</tr>
<tr>
<td></td>
<td>Yongbin Guo, Zhiqin Liu, Shen Guan, CNOOC China Limited-Zhanjiang</td>
</tr>
<tr>
<td>Paper #</td>
<td>Presentation</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>198405</td>
<td><strong>First Successful Application of Multistage Fracturing Completion in Cased Old Vertical Well</strong>&lt;br&gt;Nurlan Nurlybayev, KMG Engineering; Karim Asanov, Adilbek Bashev, Branch of KMG Engineering LLP&lt;br&gt;Caspimunaigas; Rauan Rakhymberdi, KazakhTurkMunay; Ivan Khlestov, Gryphon Oilfield Solutions; Stanislav Zagranichnyi, Temir Energy Central Asia</td>
</tr>
<tr>
<td>198406</td>
<td><strong>Workflow of Oil Spill Estimation</strong>&lt;br&gt;Eghbal Motaei, Dharshini Yeap May Chen, Raj Deo Tewari, PETRONAS Carigali Sdn Bhd; Elnur Mammadov, PETRONAS Azerbaijan; Jazaell Ballina Ruvalcaba, PETRONAS Carigali Sdn Bhd</td>
</tr>
<tr>
<td>198407</td>
<td><strong>Unconventional Drilling Fluid Design to Address Narrow Pressure Window and High Overbalance HPHT Offshore Well</strong>&lt;br&gt;Lingges Devadass, PETRONAS Carigali Sdn Bhd; Sasha Syrapushchynski, Jene Rockwood, Rockwood Impact Fluid Solutions</td>
</tr>
<tr>
<td>198410</td>
<td><strong>Artificial Intelligence Approaches in Achimov Formation Hierarchical Clustering Research Project</strong>&lt;br&gt;Andrey Sevostyanov, Azamat Timirgalin, Roman Oshmarin, STC Gazpromneft; Georgiy Volkov, Iskander Mukminov, Artem Kondratev, GPN-GEO LLC</td>
</tr>
<tr>
<td>198411</td>
<td><strong>A Novel Approach to Refinement Reservoir Proxy Model Using Machine-learning Techniques</strong>&lt;br&gt;Oleg Zotkin, Alena Osokina, Gazpromneft Science &amp; Technology Center; Maksim Simonov, Gazpromneft Science &amp; Technology Center, Peter the Great St. Petersburg Polytechnic University; Andrianova Alla, Anar Sharifov, Gazpromneft Science &amp; Technology Center</td>
</tr>
<tr>
<td>198412</td>
<td><strong>Space Unmanned Air Systems Support the Optimisation of Exploration and Reservoir Development Activities in AGT Region</strong>&lt;br&gt;Emil Bayramov, Jonathan Davis, Niyazi Azizov, Niyaziugur Ismayilov, Jalal Rahimov, Anar Isgandarov, Elchin Teymurlu, Gorkhmaz Karimov, BP (Azerbaijan-Georgia-Turkey) Region</td>
</tr>
<tr>
<td>198413</td>
<td><strong>Environmental Security and Threats to Biodiversity in the Caspian Sea</strong>&lt;br&gt;Shabnam Aliyeva, SOCAR AQS</td>
</tr>
<tr>
<td>198414</td>
<td><strong>HSE Orientation Process – Green Hat</strong>&lt;br&gt;Aleksandra Krujalo, Ayaz Hasanguluyev, SOCAR AQS</td>
</tr>
<tr>
<td>198415</td>
<td><strong>New Selective Isolation Method of Water Inflows into the Well Using Biologically Active Supplements</strong>&lt;br&gt;Fazil K. Kazimov, Sabina J. Rzaeva, “OilGasScientificResearchProject” Institute, SOCAR</td>
</tr>
<tr>
<td>198416</td>
<td><strong>The Results Implementation of a Set of Measures to Enhance the Production Efficiency of High-viscosity Oil</strong>&lt;br&gt;Anatoliy Andreevich Isaev, Sheshmaoil Management Company LLC; Mekhrail Mirzali Ogly, Almeteyevsk State Oil Institute; Rustem Shafagatovich Takhaudtino, Vladimir Ivanovich Malychkin, Almaz Amirzayanovich Sharifullin, Sheshmaoil Management Company LLC</td>
</tr>
<tr>
<td>198420</td>
<td><strong>A Cable-Controlled Zonal Production Technology with Real-Time Monitoring and Controlling</strong>&lt;br&gt;Qinghai Yang, Quanbin Wang, Chuan Yu, Deli Jia, Ming Li, Research Institute of Petroleum Exploration &amp; Development, CNPC</td>
</tr>
<tr>
<td>198421</td>
<td><strong>Development of New Methods and Devices for Measuring the Total Gas Content, Oil and Water Flow Rates, and Fluid Viscosity</strong>&lt;br&gt;Anatoliy Andreevich Isaev, Rustem Shafagatovich Takhaudtino, Vladimir Ivanovich Malaykin. Almaz Amirzayanovich Sharifullin, Sheshmaoil Management company LLC</td>
</tr>
<tr>
<td>198422</td>
<td><strong>Production Optimisation Without Spending a Single Penny (A Case Study)</strong>&lt;br&gt;Muhammad Saeed Akhtar, Muhammad Hasan Shahid, Sharveen Kumar, Muhammad Shakeel, Mariam Shakeel, Syed Khalid Ahmed, Orient Petroleum Inc.; Ruslan Gasimli, FLEXIM; Nazeer Ahmed, OGDL</td>
</tr>
<tr>
<td>198424</td>
<td><strong>Artificial Lift Method Selection for Mature Oil Fields: A Case Study</strong>&lt;br&gt;Arman Darvish Sarvestani, Ali Hadipour, Tarh-o-Palayesh Engineering Company</td>
</tr>
<tr>
<td>198425</td>
<td><strong>Collaborative and Multidiscipline Field Development Planning – A Caspian Case Study</strong>&lt;br&gt;Ekaterina Eliseeva, One Subsea; Fabien Hauchart, Subsea 7; Scott Wilson, One Subsea; Sergey Mukhin, Subsea 7</td>
</tr>
</tbody>
</table>
Speakers’ Biographies

**Fabrice Bouchaud.**
HR Director – Workforce Planning and Talent Management, Schlumberger

Fabrice Bouchaud is currently the Global HR Director for Workforce Planning and Talent Development at Schlumberger, serving since July 2017. He is based at the company’s corporate headquarters in Paris, France.

Mr. Bouchaud’s career with Schlumberger started in 1991 in Caracas, Venezuela. Across his multiple assignments in the HR function, he worked in Latin America, the USA, Egypt and Indonesia, as well as in his home country in France. He has worked in a variety of different businesses, spanning from Wireline, Testing, Well Services as well as Research & Engineering. Prior to his current role, Mr. Bouchaud served for 2 years as the Company’s HR Global Operation Director. Mr. Bouchaud holds a BSc degree from the Paris Institute of Political Sciences and a MSc in Economics & International Relations from the London School of Economics.

**Thierry Debertrand.**
Exploration and Production, Vice President Petroleum Facilities, TOTAL

Thierry joined Total in 1984 and has spent more than 19 years working abroad (Indonesia, UAE, Argentina, Venezuela, and Libya). After initial positions in reservoir and petroleum engineering, he worked as a development studies engineer and then focused his career, for around 10 years, on operations. His positions ranged from Offshore Installation Manager in the United Arab Emirates to the Operations Director in Total Austral (Argentina). He returned to Total’s head office as the Senior Negotiator in New Ventures. He held positions as Managing Director for Ypergas and Managing Director for Total E&P Libya. In 2010, he was named Senior Vice President HSE for the Total E&P branch. In September 2014, he became Vice President of Field Operations. On January 1st, 2017, Thierry Debertrand was appointed Vice President Offshore within Development & Support in the Operations Division. From September 1st, 2019, he was appointed Vice President of Petroleum Facilities.

**Zaher Ibrahim.**
President, Saudi Arabia, North Gulf & East Mediterranean, Baker Hughes, a GE company

Zaher Ibrahim is the President of Saudi Arabia, North Gulf & East Mediterranean, Baker Hughes, a GE company. In this role, Zaher is responsible for driving growth and operational excellence with BHGE customers in Saudi Arabia, North Gulf, and the East Mediterranean region across BHGE’s Fullstream portfolio; he also works with the team to set the strategic direction to further strengthen BHGE commercial intensity, co-create innovative solutions to meet customer needs, drive localisation and build local talent and capabilities.

Prior to his current position, Zaher was leading the MENAT & India sales and commercial organisation that was responsible for delivering topline growth through commercial intensity & key account management by exploring alternate channels to market, strategic growth programs & execution. He was focused on driving commercial discipline & excellence across the organisation.

Previously, Zaher was the Chief Executive Officer for the O&G business in Saudi Arabia based in Al-Khobar, responsible for driving growth, operation excellence and partnership with Saudi customers across the portfolio, setting strategic direction to drive top and bottom-line growth, strengthening commercial focus and building local capabilities. Zaher was also the Power Generation Services GM responsible for the services sales business in the Middle East.

Zaher joined GE in 2000 by attending Energy Services Field Engineering Program (FEP) in Schenectady, New York followed by several field assignments in the United States prior to moving back to the Middle East. On his return he carried out numerous operations roles including Project Manager looking after the maintenance projects in Iraq. Site lead in Saudi Arabia completing the installation of the first F technology power plant in Shedgum.

**Niall Henderson.**
Vice President Commercial for Caspian and Middle East Regions, BP.

Niall Henderson is Vice President Commercial for Caspian and Middle East Regions at BP. Niall was previously a manager in BP’s global Mergers and Acquisitions team based in London where he delivered over $12bn of transactions including the award winning Aker-BP deal and most recently the transactions that created Lightsource BP (solar developer) and BP Chargemaster (electric vehicle charging). Prior to that Niall was Head of Planning and Strategy for BP’s onshore shale gas business in the L48, US.

Niall is a Chartered Engineer, with Masters degrees in Petroleum Engineering (Heriot Watt, UK) and Chemical Engineering (University of Cambridge, UK). He is a graduate of the Sloan Fellows Program (MBA) from MIT. Niall is Advisory Chairman of Polysolar Ltd, a UK based start-up in Building Integrated Photovoltaics and was previously a member of the Ashoka Support Network supporting social entrepreneurs in various countries.
Speakers’ Biographies

Zaher was born in 1975 in Beirut. He attended the American University of Beirut and earned his bachelor’s degree in Mechanical Engineering in 1997.

Mehriban Kaziyeva, Strategic Integration Advisor, BP
Mehriban has been with BP for almost 25 years. She started her career within HR in the resourcing team and was leading campaign recruitment programs, such as Experienced hires, Challengers and Interns. In 2005 Mehri moved to the business facing side of HR and has been supporting various functions since then. In 2011 she was sent on assignment to the UK and worked 3 years in the BP UK office as HR for project organisation. Mehri has a Nottingham Trent University Professional CIPD Diploma and is a Chartered member of CIPD (Chartered Institute of Personnel Development).

Ayman Khattab, President & CEO, Gulf & North Africa, Baker Hughes, a GE Company
Ayman Khattab has been appointed as President & CEO for Gulf & North Africa for Baker Hughes, a GE company (BHGE) on January 1st, 2019; a region that includes the UAE, Oman, Qatar, Yemen, Egypt, Sudan, Iran, Iraq, Algeria, Tunisia, Morocco, Mauritania and Pakistan.

Khattab brings 30 years of diverse experience primarily in the oil and gas industry. He started his career with Schlumberger, as a field engineer working on projects in Egypt, Venezuela, Trinidad, Brazil and Argentina. During his 21-year tenure there, he held various leadership roles in the Middle East, North Africa, France and South America including Wireline & Testing General Manager, Recruitment, Training and VP for several geo-markets.

In 2008, Khattab joined General Electric (GE) as Middle East Oil & Gas General Manager where he achieved double-digit growth despite of the economic crisis. In 2011, he was appointed as the VP for Commercial Growth & Business Development for MENAT,
Speakers’ Biographies

and was responsible for developing growth platforms and new partnerships to expand GE’s presence and commercial footprint as well as developing investment initiatives across the region.

Between 2013 and 2016 Khattab was the CEO for Basin Holdings, a private investment group focused on manufacturing and servicing startups in the oil and gas industry. He led businesses in the US and helped establish the strategy and operations of startups in the Middle East, Latin America, East Africa, India, Russia and Canada.

Khattab rejoined GE as the President & CEO of North East Africa covering Egypt, Libya and Sudan, a post he was appointed to in March 2016. In his role, Khattab was responsible for driving the company’s operations, leading the development of strategy and execution of growth opportunities across the company’s entire portfolio.

Prior to his current role, Khattab moved to BHGE in July 2017 as the Vice President for the South Gulf and East Africa regions. Khattab graduated from the American University of Cairo with a BSc in Mechanical Engineering and is also an active member of the Society of Petroleum Engineers.

**Mikhail Krasik, JV & Development Director, TOTAL ESP Absheron B.V.**

Mikhail Krasik is JV & Development Director at TOTAL ESP Absheron B.V. since August 2018. He started his professional career in 1995 at Baker Hughes and joined TOTAL Exploration Production in 2000. Prior to his current role Mikhail held various management positions in Drilling Operations and in Field Development in Europe, Nigeria, Libya and Russia.

He holds an Engineering degree from Gubkin University on the Oil and Gas Industry in Russia, a diploma in Upstream Petroleum Management and an MBA from Henley Business School from the University of Reading in the UK.

**Darrell Lancaster, Vice President Caspian West Area, Halliburton**

Darrell Lancaster is Vice President of the Caspian West Area for Halliburton. Previously he served as Senior Operations Manager for the area.

Mr. Lancaster joined Halliburton in 1981 as a Field Engineer for the Wireline & Perforating product service line, serving in Libya, Netherlands, the United States, and the United Kingdom. In 1996 he was promoted to Operations Manager based in Kuwait, and in 2003 he became Senior Operations Manager in Thailand. In 2010 he was appointed Senior Manager of Wireline & Perforating for the US Northern Region, based in Denver, Colorado. In 2012 he became Global Operations Director for Wireline & Perforating based in Houston, and he moved to his most recent role as Senior Operations Manager for the Caspian West Area in 2017. Mr. Lancaster has completed levels I, II, and III of Halliburton Business Leadership Development, and he is a member of the Society of Petroleum Engineers.

**Yashar Latifov, Vice President for Field Development, SOCAR**

Mr Latifov was born in Baku in June 1965. In 1987 he graduated from the Moscow Oil and Gas Institute, majoring in Technology and Complex Mechanisation of oil and gas field developments. He started his career in Baku as a Production Site Operator, Foreman, and Geologist at the Oil and Gas Production Division of “Azneft”. Since 1989 he has held various long-term international project assignments in Vietnam, Russia, UK, and Turkey. Since 2012 he has served in the capacity of advisor to the SOCAR President, responsible for the management of SOCAR’s interests in Azeri-Chirag-Guneshli and Shah-Deniz mega field assets. In April 2016 he was appointed to the office of SOCAR Vice President for Field Development.

**Emilia Mammadova, ASPIRE Services Operations, Baker Hughes a GE Company**

Emilia Mammadova is currently assigned to the ASPIRE Services Operations program of Baker Hughes, a GE Company. Before this appointment she served as a Field Engineer in the LEAD program being exposed to different segments of Baker Hughes, a GE Company in Azerbaijan, Kazakhstan, UAE, USA and Kuwait. During those assignments she accomplished a range of various technical tasks and business cases.

She also holds a Bachelors degree in Petroleum Engineering from Baku Higher Oil School & Heriot-Watt university.

**Shauna Noonan, 2020 SPE President, Occidental Petroleum**

Shauna Noonan is the director of artificial lift engineering for Occidental Petroleum Corporation, based in Houston, where she directs the company’s efforts in artificial lift system performance globally. Prior to joining Oxy in late 2015, she worked worldwide on artificial lift projects and technology development at ConocoPhillips and Chevron for over 22 years. She
Speakers’ Biographies

has authored or co-authored more than 25 technical publications on the subject of artificial lift and is a frequent speaker at industry events. She has been an avid SPE volunteer in many roles since first serving as a student section officer. She served on the SPE International Board of Directors as the Technical Director for Production and Operations from 2012-2015. She has driven the development of industry standards and recommended practices for artificial lift systems while serving as chair for ISO and API committees, and has received industry awards for her contributions to the discipline. Noonan holds a BS degree in petroleum engineering from the University of Alberta. She is the proud mother of two daughters.

Charlotte Payen, General Secretary, French-Azerbaijani University

Charlotte Payen is a Masters Graduate in Political Sciences (Sciences Po Lille, France). From 2013 to 2015 she held the position of Attaché for the Academic and Scientific Cooperation at the French Embassy in Azerbaijan. In January 2016 she was appointed Project Coordinator for the French-Azerbaijani University (UFAZ) by the Ministry of Europe and Foreign Affairs of France. From February to September 2016 she assisted with the establishment and creation of UFAZ – an ambitious project opened in Baku in September 2016 thanks to an international partnership agreement between the University of Strasbourg (France) and the Azerbaijan State Oil and Industry University (Azerbaijan).

Since the opening of the University, which today has more than 500 students, Charlotte Payen fulfills the duty of Secretary General, representing the French bodies in the daily management of UFAZ.

Dr Luis Quintero, Chief Advisor – Production Management, Halliburton

Luis Quintero is the Chief Advisor of Production Management for Halliburton. He holds a BS in Electrical Engineering from Universidad Simón Bolívar, Venezuela; and Msc and Ph.D. in Petroleum Engineering with a minor in Geology from Louisiana State University, USA. His career spans 33 years in well logging, reservoir engineering, and production management in more than 40 countries. He was president of the Society of Petrophysicists and Well Log Analysts, SPWLA, during 2016-2017, and SPWLA’s VP of Technology (2015-2016). In 2014, Luis was awarded the Gold Medal of SPWLA for career services.

Luis is currently a member of the Oil and Gas reserves Committee (OGRC), a member of SPE’s Legion of Volunteers and has been a Technical Editor of SPE Reservoir Evaluation, and the winner of SPE’s International PhD Student Contest. Dr. Quintero has 14 patents and several dozen published papers in the areas of production management. He has had the privilege of offering his thoughts about the oil and gas industry in keynote speeches in India, Colombia, London, Houston, Japan, Argentina, Kuwait, Nigeria, and Saudi Arabia. Luis has written for the World Energy Monthly Review and offered TV interviews in the UK, and Colombia.

Fawad Quraishi, Country Manager, Azerbaijan and Kazakhstan, Equinor’s Office in London

Fawad Quraishi holds a degree in Mathematics and Physics from the Trinity College, University of Toronto (Canada). He entered the Canadian diplomatic service in 1987 and served at Canadian embassies in Moscow (1989-1990, 1995-1997), Almaty (1992) and Tehran (1992-1995). He left the diplomatic service in 1997 to join ABN AMRO Bank in Amsterdam, and worked on project and corporate finance transactions for clients in Azerbaijan, and oil and gas advisory assignments for Australian clients active in Iran and Pakistan. In 1999, Mr Quraishi joined McKinsey & Co as a management consultant in Toronto. He was a team member on corporate finance and strategy engagements in power generation, telecommunications and insurance sectors in Canada, Brazil and the United States. He joined Equinor in 2002 and has worked in business development and management roles, mainly in Equinor’s global exploration business. He was appointed Vice President in charge of Equinor’s global exploration business development group 2011-2015. Fawad has negotiated partnerships in Iran, Kazakhstan and Russia, including the Strategic Co-operation Agreement between Equinor and Rosneft (2012). On 1 January 2016, he was appointed Vice President (Exploration) in charge of Equinor’s joint venture projects with Rosneft in Russia (Offshore JV and Domanik JV). As of 1 July 2017, Mr Quraishi began a new assignment as Equinor’s Country Manager in Azerbaijan and Kazakhstan, based in Baku. Mr Quraishi speaks English, French, Urdu, Russian and Persian. He has a working knowledge of Norwegian, Dutch and Italian. Mr Quraishi is married with three children.
Speakers’ Biographies

Gokhan Saygi, President of Russia and Central Asia, Schlumberger

Gokhan Saygi is President of Schlumberger in Russia and Central Asia, a position he has held since April 2012. His responsibilities cover the Russian Federation, Kazakhstan, Turkmenistan, Azerbaijan and Uzbekistan.

Gokhan has held many field operations and management positions in the Middle East, Europe and Asia. Before his current role, his most recent postings were; VP Strategic Marketing for Schlumberger (Head Quarters in Paris/France) and Vice President for East Asia in Kuala Lumpur/Malaysia.

Gokhan received a Friendship Medal from the Russian Federation President Vladimir Putin due to the services he provided during a challenging exploration drilling project. He holds a Petroleum Engineering degree from the Middle East and Technical University in Ankara, Turkey.

John Stephenson, AGT Vice President Production, BP

John Stephenson is currently Vice President of Production for the Azerbaijan Georgia Turkey region based in Baku. Appointed to the role in 2017, he is accountable for cross functional integration in service of improved short and long term production, injection and GHG emissions for the giant ACG and Shah Deniz fields.

John joined BP in 2006 and has held a variety of technical and leadership roles in the North Sea, Angola, Alaska and most recently in Azerbaijan. Many of these roles have involved delivering innovative digital solutions to complex data integration and analytics for advanced surveillance and forecasting applications.

His technical background is in Petroleum and Reservoir engineering, and he holds an MSc in Physics and PhD in Statistics from the Imperial College, London.
General Information

Registration
Event registration is located in the conference foyer and is open from 0800 Wednesday 16 October. The registration desk is open throughout the conference for general queries. Full-conference delegates (excluding students) receive a copy of the conference proceedings; entry to all conference sessions, poster displays; coffee break refreshments and lunches; and attendance at the welcome reception on 16 October. Badges must be worn at all times. Please be prepared to show your photo ID to collect your badge. Students will be required to show a current, full-time student card.

SPE Badge Policy
All attendees are required to wear their name badge and badge holder at all times. Use of a badge by a person not named on the badge is grounds for confiscation. If you lose your conference badge, please return to registration to obtain a replacement. No one under the age of 15 are permitted in the conference area during official event hours.

Coffee Breaks
Coffee breaks are open to all attendees and are served in the lobby area.

Lunches
Lunch is included in the registration fee and is served in the pre-function area at the following times:
- Wednesday 16 October: 1230-1330
- Thursday 17 October: 1315–1415
- Friday 18 October: 1300–1400
All coffee and lunch breaks will be served in the Knowledge Sharing Poster area during the event and are included in the registration fee for all delegates.

Welcome Reception
All conference attendees are invited to join the committees for a welcome reception on Wednesday 16 October from 1700 – 1830 in the Fairmont Hotel. The Reception will provide ample opportunity to network with delegates, authors, sponsors, and industry contacts.

Conference Language
The conference is a tri-language event. All sessions will be presented in English and are translated into Azeri and Russian. Delegates will be asked to leave their ID card or Passport with the technician in order to obtain a headset.

Knowledge Sharing Poster Area
A variety of poster presentations are displayed throughout the duration of the conference in the coffee break area. We encourage all attendees to take a moment during session breaks to view these posters and listen to the short presentations made by their authors.

Digital Proceedings
One copy of the Proceedings is provided to all delegates. Proceedings are available at the registration desk and are delivered through OnePetro, the online library of technical literature for the oil and gas exploration and production (E & P) industry.

Author Check-In Room
Upon arrival at the venue, authors and speakers must check in at the author room to upload their presentations. The author room is located in Boardroom 1. Please meet with the session chairpersons in the session room 15 minutes prior to your session, to run through the session and cover any last-minute queries. Authors are required to sign in upon arrival in the author room, and any no-shows will have their paper removed from OnePetro.

Press Area
The press area is located in Boardroom 1.

Internet
To access the service please connect to Fairmont Meetings. No password required.

Mobile/Cell Phone Policy
As a courtesy to the speakers and your fellow attendees, please turn off all mobile phones during meetings and sessions.

Photography Policy
All SPE sessions are protected by international copyright laws. Photography and video/audio recording of any kind are strictly prohibited in the sessions and throughout the poster area. Please note there is likely to be a designated event photographer present and photos may be used in upcoming future publicity as well as on the SPE website. If you have any queries or do not wish to have your photo taken, please notify a member of staff. You may also wish to bear in mind that it is likely there will be members of the media in the audience.

Alcohol Policy
We recognise the legitimate serving of alcoholic beverages in the process of conducting business and social activities. We also recognise that the use and consumption of alcohol carries with
General Information

it the requirement for all attendees to consume those beverages responsibly and in keeping with our professional code of ethics and conduct. We strongly oppose the abuse and misuse of alcohol.

Smoking Policy
Smoking is permitted only in designated smoking areas of the building.

Safety
One of the key components to the success of the SPE Annual Caspian Technical Conference is the safety of our attendees and presenters. Due to the popularity of some session topics, it is possible for overcrowding to occur in a session or meeting room. Should this occur, we must comply with policies regarding room capacity and limit admittance to a room that is at capacity. Please make plans to arrive early for sessions that you have a strong interest in attending. In the event of an emergency, SPE staff and/or convention centre staff will provide conference attendees with any necessary information and instructions.

Emergency/Safety Procedures
Safety Instructions will be announced during the conference. If the fire alarm rings continuously, please evacuate the building through the nearest exit. Please make sure you are familiar with all the emergency exits; when exiting the hotel please make your way to the assembly point on Prospekti Street. Do not re-enter the building until it is safe to do so.

Sustainability
SPE is committed to ensuring that the environmental impact of our events is kept to a minimum. We aim to make progress in the field of sustainability through reducing energy usage, promoting eco-friendly mobility, reducing water consumption, and limiting waste, all core values in keeping with those of the oil and gas industry.

Sli.do
We are introducing Sli.do to the Keynote Panel sessions at the SPE Caspian Technical Conference to make sure we address your questions. Sli.do allows you to submit your questions as well as upvote the questions of other participants.

To join:
1. Connect to the Fairmont Wi-Fi and open your browser to www.slido.com
2. Enter the event code 19CTCE

sli.do
The SPE Regional Student Development Summit, will be held in conjunction with the SPE Annual Caspian Technical Conference.

This year will be its sixth annual event in a row, the third time in Baku. Fifty students from Russian and Caspian Universities will be gathered together on 13-16 October aiming to gain knowledge in professional and career development. The summit starts with a field trip and cases, followed by two days full of career and professional cases, debates and presentations. Summit participants have a privilege to attend the first day of CTCE.

As a separate SPE Event Summit, we provide students with the opportunity to collaborate with experts, apply their knowledge and skills through trainings and projects, meet each other and extend their professional network.

We would like to thank Student Development Summit Committee Members:

Eleonora Belova  
Gubkin University

Aliya Tolegenova  
Karatau Consulting

Alexandra Khramtseva  
BHGE

Alexandra Kuznetsova  
BHGE

Ainura Ismailova  
Schlumberger

Aigul Shadrina  
Petrokitchen Project

Regina Nafikova  ПRN-UfaNIPIneft

If you have any questions please contact Yaroslava Orlova yorlova@spe.org
Regional Award Winners

SPE’s regional awards recognise members who have made an exceptional technical contribution, professional excellence, career achievement, service to colleagues, industry leadership, and public service. SPE is pleased to announce the following winners of the 2019 Russia and Caspian Regional Awards:

**Completions Optimisation and Technology**
Kirill Ovchinnikov

**Drilling Engineering**
Kirill Bogatchev

**Formation Evaluation**
Aleksandr Belousov

**Health, Safety, and Environment**
Ilyas Sarybekov

**Management and Information**
Aleksey Pustovskikh

**Production and Operations**
Ildar Fayzullin

**Projects, Facilities and Construction**
Myrzakuat Karabalin

**Reservoir Description and Dynamics**
Kok-Thye Lim

**Sustainability and Stewardship in the Oil and Gas Industry Award**
Richard Howe

**Distinguished Achievement Award for Petroleum Engineering Faculty**
Aleksandr Salnikov

**Regional Public Service**
Marat Nurpeissov

**Young Member Outstanding Service**
Ilnur Sayfullin

**Young Member Outstanding Service**
Aleksandra Khramtseva

**Regional Service**
David Barge

**Regional Service**
Duncan Mcdougall

**Regional Service**
Dmitriy Serdyukov

**Regional Service**
Zhibek Shaimardan

**Distinguished Corporate Support Award**
TATNEFT
Thank you to our Media Partners

ASTANA TV | AŽER TAC | GEOExPro | Forbes

interfax | JPT | EMA | Oil & Gas INNOVATION

OilGas OF KAZAKHSTAN | Oil & Gas TECHNOLOGY | REPORT | ROGTEC

WorldOils

Inspired by the past. Leading into the future.

INNOVATION. COLLABORATION. EXECUTION.

We’ve come a long way since 1919. What started with a single product in a small town is now a global organization with more than 60,000 employees. For 100 years, we have earned our reputation as “the execution company,” delivering unparalleled customer service and innovative solutions to the oil and gas industry. Our inspiration comes from our people—past and present—and the values we stand for. Together, we will continue our legacy as one of the most well-respected energy services companies in the world as we prepare to lead into the future.

hal100.com
A major contributor to Azerbaijan’s economy for 25 years

Find out more on www.bp.com/caspian