SPE RUSSIAN OIL & GAS
EXPLORATION AND PRODUCTION
TECHNICAL CONFERENCE AND EXHIBITION
14-16 October 2014 | All-Russian Exhibition Center | Moscow, Russia

CONFERENCE AND EXHIBITION PREVIEW

SUSTAINING AND OPTIMISING PRODUCTION:
CHALLENGING THE LIMITS WITH TECHNOLOGY
SPE Russian Oil & Gas Exploration and Production Technical Conference and Exhibition brings together senior executives, engineers, academia and young professionals with leading national and international E&P companies to debate the latest industry issues and invest in the transfer of knowledge. The event is driven by an industry committee of experts from across the value chain.

CONTENTS

WELCOME FROM THE PROGRAMME COMMITTEE COCHAIRS.............. 3

SPE RUSSIA AND CASPIAN ADVISORY COMMITTEE ........................... 4

PROGRAMME COMMITTEE ................................................................ 5

EVENT HIGHLIGHTS ........................................................................... 6

SCHEDULE OF EVENTS OVERVIEW .................................................. 8

PLENARY SESSIONS SUMMARY ......................................................... 9

PLENARY SESSION OVERVIEWS ....................................................... 10

TOPICAL LUNCH OVERVIEWS ............................................................ 15

TECHNICAL PROGRAMME ................................................................ 16

PROGRAMME COMMITTEE Q&A ...................................................... 22

EXHIBITION - FEATURES AND EXHIBITOR LIST .......................... 26

REGISTRATION INFORMATION ......................................................... 27

SPE TRAINING COURSES .................................................................. 28

TRAVEL AND VENUE ........................................................................ 30

HOTELS AND BOOKING TERMS & CONDITIONS .......................... 31

KEY EVENT STATISTICS

- A total attendance of 3000+ people from more than 30 countries
- 750+ conference attendees
- Over 140 technical presentations
- 3 high-level plenary sessions
- More than 100+ innovative exhibitors

“This is a very upscale exhibition and conference where one can see many oil and gas experts, find out about new technologies and learn from the experiences of others not only in Russia but also abroad which is important.”

Radmila Garifullina, Gazprom Neft NTC.
Dear Colleagues,

On 14–16 October 2014, Moscow will host the fifth SPE Russian Oil & Gas Exploration and Production Technical Conference and Exhibition.

Since the conference launched in 2006 it has become a key international scientific and technical forum on oil and gas exploration and production in Russia. It provides opportunities for oil and gas industry professionals to meet and network with representatives of leading universities and institutes.

We invite you to share your experiences and collect best practices in applying technology to address the challenges of tomorrow. The theme for the 2014 conference is “Sustaining and Optimising Production: Challenging the Limits With Technology”.

The Conference Programme Committee selected the theme of sustaining production levels as one of the most important challenges Russia and other producing countries currently face. Sustainable development is a shared responsibility that needs action today. Energy companies face the challenge of developing business strategies and practical implementation plans whilst demonstrating the highest standards of environmental stewardship and socially responsible performance. Field development will result in reserves deterioration and the role of unconventional and hard-to-recover reserves will increase.

The development of unconventional reserves will require new technology applications as well as financial investment. New upstream asset development and more effective operations in existing fields compensate for production drawdown in major fields.

With the depletion of explored reserves, the industry will need to increase exploration in remote and underexplored areas as well as implement state-of-the-art seismic technologies to discover new deposits in explored areas. For the effective development of hard-to-recover reserves, the industry will require the improvement of existing technologies as well as new technology implementation, development of new equipment, and enhanced oil recovery techniques.

With the above issues in view, the Programme Committee has selected topics for paper submission that include the standard technical disciplines as well as those of high importance to the industry today such as:

- Full-field development in greenfields in East Siberia, Yamal, and others
- New approaches and technologies for sustaining production in brownfields
- Unconventional and hard-to-recover reserves.

A proven event format will give you the opportunity to learn about the latest industry technologies as well as discuss challenges and solutions with colleagues in the plenary sessions, 18 technical sessions, round tables, and topical luncheons.

We look forward to meeting you at the event.
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<tr>
<th>Name</th>
<th>Title and Affiliation</th>
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<tr>
<td>VLADIMIR MLYAK</td>
<td>Vice-President, Science and Technology LUKOIL SPE Advisory Committee Cochair</td>
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<td>RENAUD GAUCHET</td>
<td>Geosciences Director Total E&amp;P Russie</td>
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<td>ANDREY GALDKOV, PhD</td>
<td>Russian and Caspian SPE Regional Director President and CEO Modeling Technology Center</td>
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<td>RAVIL IBATULLIN</td>
<td>Director TatNIPIneft</td>
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<td>KENZHEBEK IBRASHEV</td>
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<td>OLEG KARPUSHIN</td>
<td>CEO Salym Petroleum Development</td>
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<td>MARS KHASANOV</td>
<td>Director for Technology Development Gazprom Neft</td>
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<td>SERGEY KOLBIKOV</td>
<td>Head of Field Development Forecast and Monitoring Division NOVATEK</td>
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<td>VLADIMIR LITVINENKO</td>
<td>Rector National Mineral Resources University</td>
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<td>GOKHAN SAYGI</td>
<td>President Russia and Central Asia Schlumberger SPE Advisory Committee Cochair</td>
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<td>VICTOR MARTYNOV</td>
<td>Rector Gubkin Russian State Oil and Gas University</td>
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<td>ANDREW MCGRAHAN</td>
<td>Country Manager Chevron</td>
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<td>EMERSON MILENSKI</td>
<td>Technology Advisor to President Rosneft</td>
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<td>JOHN MILNE</td>
<td>Director of Exploration Russia, Statoil</td>
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<td>VIKTOR PETERSILYE</td>
<td>Deputy Director General All-Russian Research Geological Oil Institute (VNIGNI)</td>
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<td>IGOR SHPUROV</td>
<td>General Director State Committee on Reserves</td>
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<td>MIKHAIL STAVSKII</td>
<td>First Vice Stavskiy Member of the Management Board Bashneft</td>
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<td>MIKHAIL TOKAREV</td>
<td>CEO, Moscow State University Oil &amp; Gas Center</td>
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</table>
ALEXEY VASHKEVICH
Gazprom neft
Programme Committee Cochair

DEAN KAMINSKI
Weatherford
Programme Committee Cochair

ANTON ABLAEV
Schlumberger

MARIYA BELYANUSHKINA
Modeling Technology Center

IRINA BOBB
Tatneft

STANISLAV BUCHINSKY
TNNC

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Halliburton

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SAMEH MACARY
Tengizchevron

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TyumenNIIgipro gaz

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GE Oil & Gas

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Schlumberger

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VNIGNI

VADIM SALYAEV
Rosneft

ALEXEY SAPOZHKINOV
LUKOIL-Engineering

GENNADY SARKISOV
ROXAR

IGOR SAYAPIN
Total

ALEXANDER SHANDRYGIN
Gazprombank Neftegazservice

PATRICK TARDY
Total

EDUARD TIMASHEV
SamaraNIPIneft

ANDREY TSUNEVSKIY
Gazprom

YAKOV VOLOKITIN
Salym Petroleum Development
EVENT HIGHLIGHTS

SPE Russian Oil & Gas Exploration and Production Technical Conference and Exhibition is where industry professionals gather to share experiences and best practice in applying technology today and addressing the challenges of tomorrow.

CONFERENCE
The theme for the 2014 SPE Russian Oil & Gas Conference is ‘Sustaining and Optimising Production: Challenge the Limits with Technology’. The Conference includes high-level plenary sessions and a technical programme with over 100 papers presented from leading Russian and international industry experts.

2014 Conference Topics Include:

- New Approaches and Technologies for Sustaining Production on Brownfields
- Full-Field Development on Greenfields in East Siberia, Yamal and Others
- Unconventional and Hard to Recover Reserves
- Health, Safety and Environment
- Geology and Geophysics
- Reservoir Engineering and EOR
- Well Construction – Drilling and Completion
- Facilities, Construction and Projects
- Production Operations
- Offshore Development Challenges
- Recruitment and Human Capabilities

To view the full conference programme, please turn to pages 16-21

EXHIBITION
Make sure you include a visit to the exhibition into your schedule, where over 100+ exhibitors will be showcasing a wide range of upstream technologies and innovations that will be discussed in the conference sessions. For more information and to view all exhibition features, visit page 26.

TOPICAL LUNCHEONS
Topical luncheons will be held throughout the event, and include:

Tuesday, 14 October, 1230-1330
Presented by: Robert Fulks, Global Director of Strategic Marketing, Unconventional Resource Team (URT) Director, Weatherford

Wednesday, 15 October, 1230-1330
Topic: Perspective Technologies of Integrated Thermobaric-Chemical Impact on Low-Permeability Reservoirs and Shale Oil
Presented by: Oleg Kravchenko, Scientific Consultant, Industrial Technologies Group Ltd., Deputy Director for Science, Podgorny Institute of Mechanical Engineering Problems, Ukraine National Academy of Science

For more information please visit page 15 and visit www.russianoilgas.ru/lunch to book your place.
EVENT HIGHLIGHTS

➤ YOUNG PROFESSIONALS SPECIAL TECHNICAL SESSION
Spearheaded by the Russia and Caspian SPE Advisory Committee, SPE will conduct this session for the second time. SPE invites the winners (first to third place) of internal corporate young professionals contests to speak. These contests are held 2013 to 2014 in Russian and Caspian oil and gas and service companies.

This format was pioneered at the SPE Arctic and Extreme Environments Technical Conference and Exhibition in 2013. Young professionals from Gazprom, Rosneft, Gazprom Neft, LUKOIL, Tatneft and other companies presented their papers.

➤ ROUND TABLE - HSE
Theme: Emergency Response Management for High North Projects.

➤ ROUND TABLE ON OIL PRODUCTION ALLOCATION FOR RECOVERY METHODS, INCLUDING TERTIARY METHODS
Gazprom Neft, LUKOIL, Salym Petroleum Development, and other companies will participate.

➤ SPE REGIONAL AWARDS CEREMONY
This event will take place on 14 October during the Opening Plenary Session.

➤ KNOWLEDGE SHARING ePOSTER PRESENTATIONS
Knowledge Sharing ePoster presentations will be on display in the exhibition hall from 1200 to 1600 on each day of the event. For full details of the presentations, please see pages 20-21.

➤ UNDERGRADUATE/POSTGRADUATE STUDENT PAPER CONTEST
There will be two divisions: undergraduate contest (16 October) and postgraduate contest (Diploma and Candidate, 17 October).

The Student Paper Contest highlights SPE’s global links with universities and student support groups around the world.

The winner of each division will be invited to attend the international SPE student paper contest to be held at the 2015 SPE Annual Technical Conference and Exhibition in Houston, Texas, USA. All travel expenses and accommodation will be covered by SPE.

For further information, please contact Antonina Kozmina, SPE Moscow office, at spemos@spe.org or +7 495 268 04 54

➤ ENERGY4ME (TRAINING COURSE FOR SCHOOL TEACHERS)
To address the challenges of the big crew change, SPE’s Energy4me programme works worldwide to enhance energy education in schools, increase public awareness, and help attract young people to the industry.

A pilot training course in Russia will run on 16 October during SPE Russian Oil & Gas 2014.
# Schedule of Events Overview

## Day 1 – Tuesday, 14 October 2014

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<tr>
<th>Time</th>
<th>Room 1</th>
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<td>Knowledge Sharing ePoster Presentations</td>
<td>Young Professionals Special Session</td>
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<td>1330–1530</td>
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## Day 2 – Wednesday, 15 October 2014

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<td>Knowledge Sharing ePoster Presentations</td>
<td>Undergraduate Student Paper Contest (0900–1800)</td>
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<td>1530–1600</td>
<td>Round Table on Oil Production Allocation for Recovery Methods, Including Tertiary Methods (1530–1730)</td>
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## Day 3 – Thursday, 16 October 2014

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<td>Plenary Session 3: Unconventional and Hard to Recover Reserves</td>
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PLENARY SESSION 1
Tuesday, 14 October, 1000-1200

FULL-FIELD DEVELOPMENT ON GREENFIELDS IN EAST SIBERIA, YAMAL AND OTHERS

Session Moderators:
Alexey Vashkevich, Gazprom Neft
Sergey Kolbikov, NOVATEK

- Integrated Approach to Hydrocarbon Fields Development
  Presented by: Sergey Skrylev, General Director, TyumeNIIgiprogas

- Going from Caterpillar to Butterfly: Strategy of Involving Low-Priority Cluster of Oil Fields into Development Process
  Presented by: Vasily Grinchenko, Director of Geology and Development of Large Projects, TNNC

- Risk Minimisation for Prirazlomnoye Arctic Offshore Field Development
  Presented by: Sergey Anufriev, Head of Oil and Gas Production Department, GAZPROM NEFT SHELF

- TBC
  Presented by: LUKOIL

PLENARY SESSION 2
Wednesday, 15 October, 1000-1200

NEW APPROACHES AND TECHNOLOGIES FOR SUSTAINING PRODUCTION ON BROWNFIELDS

Session Moderators:
Konstantin Fedorov, Academy of Oil and Gas Engineering
Mikhail Gelfgat, Weatherford

- Cost Effective Technologies to Rejuvenate Brownfields
  Presented by: Usman Ahmed, Vice President and Chief Reservoir Engineer, Baker Hughes

- Brownfields Optimising Experience in Perm Region
  Presented by: Nadezhda Lyadova, General Director, LUKOIL-Engineering PermNIIPnEft

- Using Analytical Simulation to Slow Decline in Brownfields
  Presented by: Jeff Spath, 2014 SPE President, Vice President Industry Affairs, Schlumberger

- Salyim Group of Fields: Reservoir Management and Beyond
  Presented by: Luc van Son, Technical Director, Salyim Petroleum Development

PLENARY SESSION 3
Thursday, 16 October, 1000-1200

UNCONVENTIONAL AND HARD TO RECOVER RESERVES

Session Moderators:
Alexander Shandrygin, Gazprombank Neftegazservice
Andrey Gladkov, Modeling Technology Centre

- Hard-to-Recover Reserves: Classification, Evaluation and Development Issues
  Presented by: Igor Shpurov, General Director, Russian State Reserves Committee

- The Appraisal and Early Development of Source Rock Reservoir Resources
  Presented by: Scot Evans, Vice President, Integrated Asset Management; C&PM New Business and Commercialisation, Halliburton

- Prospects of Oil-Bearing Capacity Domanikits in Tatarstan
  Presented by: Venera Bazarevskaya, Head of Research and Exploration Geology Department, TatNIIPlneft

- International Unconventional Best Practices
  Presented by: Jeff Meisenhelder, Vice President, Unconventional Resources, Schlumberger
PLENARY SESSION OVERVIEWS

PLENARY SESSION 1

FULL-FIELD DEVELOPMENT ON GREENFIELDS IN EAST SIBERIA, YAMAL AND OTHERS

Tuesday, 14 October, 1000-1200

Integrated Approach to Hydrocarbon Fields Development

SERGEY SKRYLEV
General Director
TyumenNIIgiprogas

Biography

In 1977 Sergey graduated from Semipalatinsk Geological Engineering School, and in 1982 from the Tyumen Industrial Institute named after Lenin Komsomol, Tyumen, where Sergey was a candidate of geological and mineralogical sciences. Sergey is a full member of the of Academy of Technological Sciences of the Russian Federation (2012). Sergey has been awarded the medal “For Merits in Mineral Resources Exploration” (1990) and Medal “International Technologies” of RF Technology Sciences Academy (niobium) for his contribution to the international technological cooperation.

Career:

1982 – 1986 - Service Technician, Geophysical Operator, Group Leader of Krasnoleninskneftegeophysica Trust
1993 – 1995 - Chief Geologist, Priobneneftegeophysica
1996 – 1997 - Thematic Expedition Manager, Chief Geophysicist of Complex Geological Expedition, Condpetroleum, KhMAO, Nyagan, Tyumen Oblast
1997 – 1998 - Department Manager, Urainefteegas, LUKOIL – West Siberia
1998 – 2000 - Laboratory Manager, SibNIINP
2000 – 2002 - Department Director, Deputy General Director on Geology, Tyumen Institute of Oil and Gas
2002 – 2007 - Laboratory Manager, TyumenNIIgiprogas
2007 –2009 - Deputy General Director, Geology and Geophysics, TyumenNIIgiprogas
2009 - present - General Director, TyumenNIIgiprogas.

Presentation Overview

The period from the beginning of design and survey operations through bringing a field into development typically takes four to five years. The difficulties are often related to poor cooperation of performers, discordance of approaches, and standards used. A comprehensive approach demonstrated by LLC TyumenNIIgiprogas in some fields allowed for reduced operations terms and improved quality. The Nydinsky site of the Medvezhie field is an example. The company performed a full range of complex activities, from the design of geological exploration and field development to designing field set-up and manufacturing process equipment.

Caterpillar to Butterfly: Strategy for Involvement into Development of Low Priority Oilfield Cluster

VASILY GRINCHENKO
Director of Geology and Development of Large Projects
TNNC

Biography

Vasily graduated from the Tyumen State Oil and Gas University in 2003. In 2005 he was awarded a master’s degree for Petroleum Engineering under the joint program of Heriot-Watt University (Edinburgh) and Tomsk Polytechnic University. He also holds a PhD in Engineering, specialising in “Development and Exploitation of Oil and Gas Fields”.

Vasily has nine years experience in engineering and support of Greenfield and Brownfield developments, contributing to the development of strategies and support for major projects, such as Bolshekhetskiy (Suzunskoye, Tagulskoye, Russko-Rechenskoye fields), Uvatkiy, and Verkhnechonskiy.

Presentation Overview

Currently, there are virtually no “light” reserves left. Petroleum companies are urged to reclaim new regions, develop hard to recover reserves and launch new large-scale projects. The Uvatkiy Project in the south of the Tyumen Region may be cited as an example of participation in the development of a whole oilfield cluster. The fundamental problem, which has arisen after the project start, is that there are over 30 minor and medium-sized fields accommodated on over 20,000 sq. km of a hard-to-reach territory with no infrastructure at all. Most oilfields were found to be underexplored and described as low reservoir properties, hence, full-scale development has been deemed ineffective given the conditions.

In recent years however, the Uvatkiy District has been evolving into a large oil production hub. East Uvat oilfields of Urmenskoye and Ust-Tegusskoye are being developed at the same time, with Central Uvat oilfields of Tyamkinskoye, Yuzhno-Petiegskoye and Radoniozhskoye included. The company has a long-term oilfield preparation and development programme in place for the south of the Tyumen Region.

Key to greater efficiency is the use of innovative technologies, both technical and managerial. The conventional approach of exploration phases, development engineering and infrastructure planning following each other in succession has now transformed into a continuous cycle with mandatory feedback between the phases.
**PLENARY SESSION OVERIEWS**

### Risk Minimisation for Prirazlomnoye Arctic Offshore Field Development

**SERGEY ANUFRIEV**  
Head of Oil and Gas Production Department  
GAZPROM NEFT SHELF

**Biography**  
Sergey has many years of experience working in leadership positions on various projects in Western Siberia oil production management. He is also a regular participant in different Russian and international artificial lift conferences.

**Presentation Overview**  
The objective of Prirazlomnoye Arctic offshore oilfield development is to minimise the impact on the environment and maximise oil recovery. Gazprom Neft Shelf meets these challenges by integrating different types of advanced technologies and equipment. A considerable amount of time is devoted to the planning of all operations on the platform to minimise potential risks.

The focus of this presentation is on completion and production. In view of long term production plans and possible well interventions this presentation describes various engineering and systemic approaches to risk management, minimisation of operations on the platform and protection of the environment. It will also explore engineering solutions to prevent reservoir damage during downhole operations and running of equipment are of special importance.

A number of long term solutions that make this project not only the first one but also unique in Russia will be explored.

### NEW APPROACHES AND TECHNOLOGIES FOR SUSTAINING PRODUCTION ON BROWNFIELDS

**PLENARY SESSION 2**  

**NEW APPROACHES AND TECHNOLOGIES FOR SUSTAINING PRODUCTION ON BROWNFIELDS**

**Wednesday, 15 October, 1000-1200**

**Cost Effective Technologies to Rejuvenate Brownfields**  
**USMAN AHMED**  
Vice President and Chief Reservoir Engineer  
Baker Hughes

**Biography**  
With more than three decades of petroleum engineering experience, Usman Ahmed is Baker Hughes’ Vice President and Chief Reservoir Engineer. He addresses Baker Hughes’ reservoir-driven and integrated solution approach to unconventional resources development and reservoir technology in general. Ahmed joined Baker Hughes in 2010 and has previously worked for Schlumberger, TerraTek, as well as running his own reservoir and production engineering consulting firm, Energy Resources International. He holds a BSc and MSc (both in Petroleum Engineering) from Texas A&M University. Looked to as a technical and professional industry leader, Ahmed has two patents and is the author and co-author of more than 100 industry papers and textbooks, and he has been invited to numerous events as key note speaker and panellist. He is the SPE 2013-2014 Distinguished Speaker on “Unconventional Resources Development.”

**Presentation Overview**  
More than 70-80% of the world’s remaining conventional reserves are contained in fields that are already on production. IOR and EOR methods are needed to access even a fraction of these remaining reserves. Several field case studies have illustrated that a mere 1% increase in recovery factor would yield more than 80 BOE. These studies have also shown that arresting the decline rate of these mature fields by 3% would yield in excess of 500 million bbls/yr of oil production. The Petroleum Technology Research Center in Canada documents the Weyburn field in Canada (www.ptrc.ca) as a classic example where application of advanced technology has resulted in improved oil recovery over the years, and the same is projected through the next several decades.

The International Energy Agency (IEA) of the US illustrates that the world oil production as we see it is in a steady decline in world oil production from 2009 onwards. Monitoring hydrocarbon production in the US alone, one will note that since 2008, oil production in the US has continued to increase as a result of the unconventional oil production in the Bakken, Eagleford, and several other emerging basins. On a global scale such oil production from unconventional resource is yet to be documented.
This further illustrates the need for enhanced technology, including intelligent monitoring of conventional matured fields in IOR and EOR operations to arrest the global oil production decline. One of the ways to address the above scenario is to come up with an extremely reliable system that is electronic and IP-based rather than hydraulic (the current tradition) to address the intelligent monitoring and control. Combining such systems of data monitoring with the most up-to-date reservoir simulation system using the Jewel Earth platform can result in fast and accurate responses to reservoir monitoring and respond with the ultimate goal of enhancing the reservoir recovery factor. The paper uses field examples to illustrate the features as described.

**Brownfields Optimising Experience in Perm Region**

**NADEZHDALYADOVA**

**General Director**

**LUKOIL-Engineering PermNIIPneft**

**Biography**

Nadezhda is a mining geological engineer and Associate Professor of geological and mineralogical sciences, once a recipient of the Prize of the Russian Federation Government in science and technology. In 1980-1997 Nadezhda practiced and taught at Perm Polytechnic University. In 1998-2006 Nadezhda held the position of head of department and deputy director of LLC PermNIIPneft. Nadezhda is currently director of LUKOIL-Engineering Limited PermNIIPneft in Perm.

**Presentation Overview**

The oil fields in the Perm region have an operational background that demonstrates brownfields have the potential for substantial increases in production. Additional site exploration, including 3D seismic methods, allow for more certain evaluations of remaining reserves in containment areas. New technologies are selected based on geological-hydrodynamic models and current state of development analysis, with consideration for specific structural features in every case. The results of sidetrack, horizontal and multilateral drilling, hydrofracturing, dual completion and radial drilling will be explored. The Polymer flooding pilot project results will be shared. Continuous scientific support in field development, along with the introduction of new technologies has provided stabilisation and an increase in production in the oldest oil producing region in Russia.

**Using Analytical Simulation to Slow Decline in Brownfields**

**JEFF SPATH**

**SPE 2014 President**

**Vice President Industry Affairs**

**Schlumberger**

**Biography**

Jeff Spath is Vice President of Industry Affairs for Schlumberger Limited, based in Houston, Texas, USA. Prior positions include president of the Reservoir Management Group and president of Data and Consulting Services. Jeff joined Schlumberger as a well testing field engineer in 1984 and has held various global positions in reservoir engineering, research, and management. He holds BS and MS degrees in petroleum engineering from Texas A&M University and a PhD in reservoir engineering from the Mining University of Leoben, Austria.

He has served as Technical Director for Management and Information on the SPE Board of Directors, as SPE Distinguished Lecturer on Production Enhancement, and in 2011 he was named SPE Distinguished Member. Jeff has published 24 technical papers and holds 14 patents.

**Presentation Overview**

Conventional numerical reservoir simulation is seldom used to optimise brownfield production, due primarily to time constraints and insufficient data. Fast and accurate analytical simulation allows engineers to model the reservoir routinely and determine the best solution to improve both production rates and ultimate recovery.

**Salym Group of Fields: Reservoir Management and Beyond**

**LUC VAN SON**

**Technical Director**

**Salym Petroleum Development**

**Biography**

Luc van Son is Technical Director of Salym Petroleum Development, based in Moscow. He began his career 25 years ago as a Shell wells site operations engineer in Argentina followed by assignments as reservoir engineer, petroleum engineer and asset manager in a range of Shell operating units and joint ventures in Latin America, Africa, Asia and Europe.

**Presentation Overview**

This session will highlight how implementation of a “lifecycle thinking” in early and mid-stages of a project can significantly improve performance and increase ultimate recovery from an oilfield. In Salym Petroleum, some technologies tested and implemented during the initial “project” phase are now paying off in terms of wells and facilities uptime.
and understanding reservoir potential. The objective of this session is to concentrate not so much on the hardware (e.g., fibre optic cables) technologies, but more on technologies around data acquisition and management, data analysis and integrated well, reservoir and facilities management processes. One of the case studies discussed will focus on the development of waterflood diagnostics and implementation of waterflood management at early to middle stages of field life, when operators usually have more means at their disposal. A second case study will reinforce the common sense notion about the need to research and pilot suitable EOR technology early in the field life.

PLENARY SESSION OVERVIEWS

**PLENARY SESSION 3**

**UNCONVENTIONAL AND HARD TO RECOVER RESERVES**

Thursday, 16 October, 1000-1200

**Hard-to-Recover Reserves: Classification, Evaluation and Development Issues**

**IGOR SHPUROV**

General Director

Russian State Reserves Committee

**Biography**

Igor graduated from the Tyumen Industrial Institute in 1987. He holds a Candidate of Sciences degree in Geology and Mineralogy. From 1985 to 1999, he worked in OJSC Siberian Research and Development Institute for Petroleum Industry. From 1999 to 2000, he worked as Director of Geology and Development Department for the Samotlor Field. From 2000 to 2004, he held the position of General Director at Paritet Oil Company. From 2004 to 2013, he held the position of General Director at FGPU West Siberian Research and Development Institute for Geology and Geophysics. In 2013, he was appointed General Director of the State Reserves Committee. He is the author and co-author of more than 150 publications, including 20 publications by the Higher Attestation Commission, four monographs, and 16 inventions registered as patents in the area of methods, technologies, and equipment for exploration and development of hydrocarbon deposits.

**Presentation Overview**

The session discusses the concept and classification of hard-to-recover hydrocarbon reserves. The concept of hard-to-recover reserves from conventional sources is explained with reference to the new classification of reserves and resources. An expert review of conventional hard-to-recover reserves to total reserves will be provided. This session also proposes how to use reserves classification tools for strategic planning and public-private partnership purposes. The concept of hard-to-recover reserves is determined as a way of innovative development for the fuel and energy sector. This session will prove why differentiated recording and classification of hydrocarbon reserves from both conventional and unconventional sources is essential.

**The Appraisal and Early Development of Source Rock Reservoir Resources**

**SCOT EVANS**

Vice President, Integrated Asset Management

C&PM New Business and Commercialisation

Halliburton

**Biography**

Scot Evans is an E&P leader with a combined 32 years of experience with Exxon and Landmark Graphics/Halliburton. Currently vice president of Halliburton’s Integrated Asset Management group, his background is in production geoscience, reservoir engineering, and new ventures. He has helped develop several methodologies and technologies in the area of field development planning that are now industry standards. He has been involved with unconventional and naturally fractured reservoirs for 25 years beginning with the Monterey Shale in California. Scot is an active member of the SPE with over 10 publications to date.

**Presentation Overview**

As source rock reservoir exploration and production continues to grow outside of North America, the process of moving from an identified resource to an economic development has become an area of key focus. The challenges are both technical and organisational. From a technical perspective, source rock reservoirs require a very different approach compared with conventional reservoirs, with the need for a more extensive piloting and appraisal phase. What were initially considered homogenous shale plays are now recognised as having subtle but complex and highly variable reservoir properties with a strong influence on productivity. The use of North American analogues to characterise new source rock reservoirs has proven to have limited value overall. However, the technical workflows to characterise, model, and identify optimal completion approaches have proven valuable in all settings.

From an organisational perspective, successful companies have extended the multi-disciplinary team approach to full well and completion planning and through to actual operations. This session will
describe the workflows and multi-domain approach to progressively high-grade areas and zones for development, and identify cost-effective wellbore and stimulation programmes with examples from the Barnett and Wolfcamp shales.

**Prospects of Oil-Bearing Capacity of Domanikits in Tatarstan**

**VENERA BAZAREVKAYA**  
Head of Research and Exploration Geology Department  
TatNIPIneft

**Biography**

Venera currently holds the position of Head of Exploration Geology Department, TatNIPIneft. Venera has a Candidate of Sciences degree in Geology and Mineralogy from Oktyabrsky Oil Industry College and began her career in the Tatneft Association System in 1981.

The main scientific research topics that are covered in her department are: studying the geological structure of territories to discover hydrocarbon reservoirs and searching for ways to improve exploration efficiency; calculating and recalculating hydrocarbon reserves, both within Tatarstan and in neighboring and far-abroad countries. Venera has authored more than 110 scientific papers and more than 500 manuscripts in co-authorship. She has been awarded with honorary prizes and certificates including the Medal in Commemoration of Extraction of the Three Billionth Ton of Oil in the Republic of Tatarstan and winner of the State Award of the Republic of Tatarstan in Science and Technology.

**Presentation Overview**

The Domanikit sediments of the Volga-Ural oil and gas province have been studied by many scientists: G.I. Gurari, S.G. Neruchev, Ye.A. Rogozina, I.A. Zelichenko, M.I. Zaidelson, S.Ya. Vainbaum et al. The term itself, initially “domanik,” derives from the name used to designate Upper Devonian suit sediments of the Ukhta and Southern Urals. However, this term has become a common name for formations of similar composition and is often used to describe clay reservoir rocks of marine origin in the fields of Western Siberia, the Peri-Caspian Depression, Timan-Pechora Oil and Gas Basin, etc. When defining the term “domanik of the Volga-Ural Province,” scientists agree that it refers to high-bituminous siliceous-clay-carbonate rock masses with high organic matter content, which are oil-source rocks and stratigraphically confined to the sediments of the Semiluksk and Mendymsk (Domanik) horizon. Domanikits constitute a belt stretching along the Urals from north to south from the Pechora Sea to the Peri-Caspian Depression (through Bashkortostan and Tatarstan). These sediments are represented by bituminous clay, clay-carbonate, siliceous-clay-carbonate and siliceous varieties of rocks that contain dispersed organic matter of sapropel type with concentrations within 4-12% (sometimes up to 30%) in the territory of the Republic of Tatarstan.

Studying domanikits and searching for ways to recover oil from them are very topical because oil accumulations with significant rates have been discovered in these sediments. OJSC Tatneft has approved and will implement a programme to study domanikit and its efficient methods for reservoir prospecting and development.

**International Unconventional Best Practices**

**JEFF MEISENHELDER**  
Vice President  
Unconventional Resources  
Schlumberger

**Biography**

With over 33 years of industry experience, Jeffrey Meisenhelder is Vice President of Unconventional Resources for Schlumberger. Based in Houston, he is responsible for the R&D strategy, operational support and marketing of Schlumberger services for shale gas and liquids, coalbed methane and tight gas.

Meisenhelder began his career with Schlumberger in 1980 as a Wireline field engineer. He has held various technical and managerial roles in North and South America, Australia, Asia and Africa. His career includes diverse experiences in conventional oil, tight gas, HP/HT and deep gas, H2S, and unconventional resources.

Meisenhelder graduated with a BSc in Physics from the University of Illinois. He has also been a member of the Society of Petroleum Engineers for over 28 years.

**Presentation Overview**

The achievements of the shale gas and oil operators in North America have been widely publicised – however the same factors that have driven the rapid increases in production have also added considerable waste to the operation. This presentation will examine the presence and absence of these drivers in the international arena – and make a case that this will ultimately make shale development outside of North America more successful technically, and as a result more efficient in the use of capital and other resources.
NORTH AMERICAN HORIZONTAL COMPLETIONS - CURRENT BEST PRACTICES 2014
Tuesday, 14 October, 1230-1330

ROBERT FULKS
Strategic Marketing Director, Unconventional Resource Team Director, Weatherford

Biography
Robert “Rob” Fulks is Weatherford’s global director of strategic marketing and heads their Unconventional Resource Team (URT), chartered to transfer shale oil and gas services best practices into emerging unconventional markets. Rob has been with Weatherford for 23 years. After graduating with a BS from Virginia Military Institute (VMI) as class valedictorian, Rob earned an MBA at the University of Houston. He began his oilfield career in 1980 as a mud engineer, mud logger, and LWD logging engineer in the offshore Gulf of Mexico. After returning to the US from Sakhalin, Russia in 2005, Rob has focused exclusively on integrated fracturing and horizontal completion practices in North American onshore basins. A 34 year veteran of the oil and gas industry, Rob Fulks is a member of SPE and AAPG and has authored numerous articles describing onshore and offshore drilling and completion projects.

Presentation Overview
In the United States each day, approximately 1,600 rigs can be found drilling horizontal wellbores. A few hundred more are at work in Canada. The world class efficiencies attained by these rigs are well documented. At the same time in the US, approximately 425 wells are being hydraulically fractured each day with another 54 being fractured in Canada. However, by contrast the performance of horizontal completions in North America is not keeping pace with the efficiencies witnessed in drilling.

Reservoir drainage efficiency in unconventional shale gas formations at 20–39% is considerably less than the 60% found in conventional completions. Completion practices in North American shales have traditionally relied on geometric stage spacing in cased and cemented horizontal wells to achieve reservoir drainage. Likewise, perforation cluster spacing was also geometric. A recent SPE study presented production log evidence that documented evenly spaced perforation clusters resulted in poor production distribution. More than 30% of clusters contribute virtually nothing to gas or oil production.

During 2013, three new approaches were used in North America to increase completion effectiveness. This presentation will describe each approach. The first method involved higher proppant loading to achieve higher near wellbore conductivities which increased Bakken initial production (IP) rates by as much as 300%. The second method integrates data obtained during the drilling of the horizontal to geologically position stages and perforation clusters to improve overall production by 25–30%. The third approach employs mechanical/chemical diverting agents to focus fracturing into a single set of perforations. Each approach will be described in this session.

TOPICAL LUNCH OVERVIEWS

PERSPective TECHNOLOgiES OF INteGRateD THERMOBAriC-chemiCaL IMPACT On LOW-PeRmeABILITY RESERVOirs AND SHALE OIl
Wednesday, 15 October, 1230-1330

OLEG KRAvCHENkO
Scientific Consultant, Industrial Technologies Group Ltd., Deputy Director for Science, Podgorny Institute of Mechanical Engineering Problems, Ukraine National Academy of Science

Biography
After graduating from N.E. Zhukovskiy Kharkov Aeronautical Institute, Oleg began his career at the A.N. Podgornyi Institute for Mechanical Engineering Issues under the Ukrainian National Academy of Sciences (IPMash NANU). Oleg holds a PhD in Science (1995), and since 2000 has held the position of Deputy Director for Research in IPMash NANU, Head of Unconventional Power Technology Department. Oleg is author to over 100 scientific publications, studies and 20 patents in the field of heat and mass transfer, improvement of processes and tools used in chemical production stimulation and hydrocarbon processing. Since 2013, Oleg has been a Scientific Consultant for Industrial Technology Group Ltd.

Presentation Overview
This presentation outlines the existing development methods for fields with high-viscosity hydrocarbons and low-permeability reservoirs, as well as shale oil and gas field development methods. It also introduces an innovative approach to well production enhancement and development intensification for fields with hard-to-recover reserves, which is based on a multistage thermal gas-chemical process that emits gases, including hydrogen, and hot acids – nitric and hydrochloric (fluorhydric acid in specific cases). Hydrogen evolving at the initial stage of the thermochemical process improves permeability of a low-permeability reservoir and facilitates infiltration of reactive components into the formation. This is where secondary reactions with its mineral portion and colmatants take place. During the high-temperature stage (250-350°C) at high pressures, with atomic and molecular hydrogen and catalysts, ARPD (asphaltene, resin and paraffin deposits) hydrocracking takes place with formation of gas and distillate fractions.
TECHNICAL PROGRAMME - 14-16 OCTOBER

TECHNICAL SESSION: NEW APPROACHES AND TECHNOLOGIES FOR SUSTAINING PRODUCTION ON BROWNFIELDS

171145 An Innovative Approach to Reverse Production Decline in Brownfields
F. Guerhia, A. Collaku, Schlumberger

171156 Reservoir Conrate Water Satality and Chemical Compositions Variations Effect on the Low-Salinity Waterflooding
A. Shehata, Texas A&M

171146 Improved Oil Recovery Potential by Using Emulsion Flooding
N. Likhanova, A. Mocuteza Berthier, R. Hernández Perez, Mexican Petroleum Institute; O. Oliveses Korrel, Benemerita Universidad Autonoma de Puebla; I. Demikhova, L. Lianova, National Polytechnic Institute

171144 Successful Application of Through Casing Petrophysical Technology to Increase Oil Production in a Brownfield Well
S. Plugra, Roke International; K. Kremer, Roke Technologies Ltd; F. Salimov, LUKOIL – West Siberia; M. Chertentkov, LUKOIL; V. Afanasiev, Geoinformational Technologies and Systems

171148 Experience of Using the New Technologies of Dual Production and Injection in One Well
P. Medvedev, S. Sharov, Upstream Peer Review and Technical Development Centre, OJSC RN Management Branch in Tyumen; E. Muslimov, M. Movseyan, Rosneft; A. Krasikov, A. Grechanik, Baker Hughes; Yu. Khainovsky, L. Khuzin, Orenburgneftegaz

171151 Using Remote Optimization to Increase Production and ESP Runlife in a Western Siberia Brownfield
S. Haberer, A. Krasikov, Baker Hughes

TECHNICAL SESSION: FULL-FIELD DEVELOPMENT ON GREENFIELDS IN EAST SIBERIA, YAMAL AND OTHERS

171159 Optimization of Greenfield Development Plan Through Complex Well Ranking Criteria
A. Levanov, A. Strikyko, Yu. Utyashev, E. Usyugova, T. Pospela, Tyumen Oil Scientific Center LLC

171162 Gas Condensates and Oil-Rim Low Permeable Reservoir Characterization with Use of Wipline Formation Testing Tools
S. Novikov, P. Weinrebber, M. Charupa, D. Rudenko, N. Lopatina, V. Bliinov, Schlumberger; A. Yaskov, A. Millushkin, N. Shadchenkov, ARCTICGAS; M. Piana, ENI E&P

171163 Application of Mathematical Optimization Techniques for Well Pattern Selection
V. Babin, M. Khasanov, D. Meltcheva, A. Tarakanov, O. Ushmaev, Gazpromneft STC; D. Echeverna Caurin, IBM Research - Watson Research Center; A. Semenikhin, IBM Science and Technology Center

171160 Optimizing the Gas Field Development Strategy by Using “Reservoir-Network” Integrated Modelling
D. Merezhkov, A. Sullauga, NOVATEK STC; A. Vanyuk, Schlumberger Lugaiko Inc.

171157 Geomechanical Model Reconstruction for Minimization Development Strategy Risks
M. Mitryayev, A. Botorin, Gazpromneft STC

171158 Risk Evaluation of Investment Decision During Low Oil Prices
S. Kolbikov, NOVATEK; A. Sholudko, E. Kolbikova, PFUR

TECHNICAL SESSION: UNCONVENTIONAL AND HARD-TO-RECOVER RESERVES

171171 State of the Art in Prediction of Fluvial Sandbodies in Low-Permeability Tyumen Formation of Western Siberia (Case Study of Successful Well Placement Based on Data Integration of Seismic, Geology, Reservoir Engineering and Well Testing)
M. Martynov, I. Shishmandi, A. Kozlov, L. Melnikov, F. Leskin, TNK-Nyagan

171174 Pressure/Production Transient Analysis for Low-Permeability Reservoir with Nonlinear Filtration
D. Ivashchenko, V. Baikov, A. Davletbayev, RN-UfaNIPinft

171172 The Results of the Field Tests and Prospects of Termongas Development of Bazhenov Formation in RITEK
V. Kokorev, V. Danischev, I. Akhramshidin, K. Shchekoldin, RITEK, A. Bokserman, Zarubezhneft

171168 Complex Lithophysical Typification of the Bazhenov Formation Based on Core Investigations and Well-Logging
N. Balushkina, G. Kalmykov, V. Belokih, E. Kononchenko, N. Petakova, A. Bakay, R. Khamidulin, Lomonosov Moscow State University, Geological Faculty, Oil and Gas Geology Department

171173 Application of NMR-Relaxometer for Study of Racks in Hard-to-Recover Reserves Oil Fields
V. Galvín, T. Galiyev, A. Kunakasov, E. Sorokina, LUKOIL-Engineering KogalymNIPinft Branch Office in Tyumen

171165 Gazpromneft’s Experience in Bazhenov Formation Development
V. Zhukov, Gazpromneft STC

171166 Successful Fast-Track Start-up of Bazhenov Unconventional Resources Appraisal Drilling Campaign
M. Bakici, A. Matveev, S. Pereslegina, P. Van Welsenes, Salyum Petroleum Development

171167 High Pressure Tight Gas Condensate Well Testing in Jurassic and Aichimov Deposits of Bolshekhetskaya Depression
A. Davidovskiy, M. Bekov, S. Abramochkin, M. Aranom, Schlumberger Logelco Inc.; V. Stenin, I. Mandrik, LUKOIL

171167 Integrated Approach for Successful Development of Unconventional Reservoirs
S. Sadykov, S. Koto, Baker Hughes, O. Guy, G. Castilo, S. Vasyev, CGG

171177 Cross Correlation of Weline Data and SEM-Based Mineralogical and Textual Vertical Well Data: a New Tool for Intelligent Completion Designs and Better Production Predictions
K. Flavin, C. Jackson, S. Centurion, Baker Hughes; L. Vinh, G. Oliver, G. Spence, CGG

171181 Factors Impacting the Load Recovery in Tight Reservoirs: An Experimental Investigation of Spontaneous Imbibition
E. Gharehi, Q. Lan, M. Dehghanpour, H. Byers, Terra-Ecology

171164 Oil in Unconventional Reservoirs of Tatarstan
R. Khisamov, Tatneft; V. Bazearevskaya, TatNIPinft

TECHNICAL SESSION: HEALTH, SAFETY AND ENVIRONMENT

171167 High Technologies for Process Control and Environmental Monitoring Under Oil and Gas Development Treatment and Refining
N. Latiunov, EHP-Tekniik Ltd.

171134 Modern and Efficient Solutions in Oil Spill Response During Oil Production
I. Kuznetsov, R. Golovkin, D. Nemov, Terra-Ecology

171185 Ecological-Economic Indicators of Sustainable Development of Oil and Gas Enterprises
M. Redina, A. Khaustov, PFUR

171186 A Journey to Gas Flaring Reduction at Tengizchevroil LLP (TCO)
G. Tulegenova, L. Byers, Tengizchevroil

TECHNICAL SESSION: GEOLGY AND GEOPHYSICS

171124 Practical Step-by-Step Planning and Field Works Control During Exploration and Appraisal Well Testing at South Tyumen Region for Improving Well Test Data Quality
O. Kulyakin, Rosneft; A. Kulk, RN-Uvatneftegaz

171123 Oil Viscosity Impact on Invasion Zone Structure and Resistivity Measurements
I. Karpov, A. Makarov, I. Eltsov, Baker Hughes

171207 Petrophysical Evaluation of Laminated Reservoirs: Hidden Problems
A. Khabarov, A. Malshakov, I. Oshmyakov, Tyumen Oil Scientific Centre

171120 Application of 2D Technology of Numerical Sedimentary Modeling for the Prediction of Traps in the Sedimentary Cover
A. Yershov, D. Linev, M. Lineva, Center “GeoGrid”

All author names and paper titles are listed as submitted to SPE.
171210 An Approach of Tight Paleokarst Zones in Upper Devonian Sediments, Timan-Pechora Basin Identification Based on Integrated Use of 3D Seismic Surveys, Core and Well-Log Data
A. Skvortsov, LUKOIL-Komi; V. Kuleshov, LUSTU

171211 Exploring Petrophysical Uncertainties Thanks to Stochastic Well Log Data Interpretation: Tomokantovsky Field Case
G. Samoturova, B. Bronnimann, Total E&P Russia

171204 Integrated Workflow to Tackle Heterogeneous Kars Dominated Reservoirs: Khanyaga Example
A. Ovrynnykov, Total E&P RUSSE; I. Pauguet, V. Neilo, Total S.A.

171208 Specification of a Geological Structure of Production Formations Based on Seismic Data During Production Drilling
L. Guryevskikh, Gazpromneft STC

171205 Viscosity Estimation of High-Viscosity Heavy Oils Based on NMR-Studies Results
T. Abdullah, I. Bobb, K. Musin, Tatneft STC

171212 Geology and Petroleum Potential of the Gulf of Mexico, Cuba
V. Ananev, V. Vezhbitskiy, Gazpromneft STC; A. Obukhov, D. Borisov, G. Norieve, Gazpromneft

171209 Techniques of Successful Heavy Oil Sampling
M. Charupa, Schlumberger; A. Abramov, LUKOIL

171206 Uncertainty Analysis for the Main Reservoirs of the Giant Multilayer Gas-Condensate Field
T. Gataullin, A. Ilyushina, A. Kurkin, NOVATEK STC; S. Medvedev, NOVATEK-YUKHAROVNETEGAZ

TECHNICAL SESSION: RESERVOIR ENGINEERING AND EOR

171239 Review and Case Study of a Forbident Technology with High Potential: Nitrogen IOR in the World’s Largest Nitrogen Based IOR Project in the Giant Field Canareel, Mexico
M. Guzmán, Linde AG

T. Yushchenko, Moscow Institute of Physics and Technology (State University); A. Brusilovsky, Gazpromneft STC

171234 Towards Total Steam Management in SAGD Wells Using Reliable and Permanent Real Time ESP based Thermal Monitoring
M. Shaid, R. Caporuscio, T. Bistock, Weatherford

171217 Multilateral Horizontal Wells: Case Study from Lemesinskoe Field, Bashneft
V. Trofimov, BashNIPIneft

171232 Field Studies on Spontaneous Growth of Fracture in Fractured Injection Wells
G. Bikkulovata, A. Davletbayev, V. Bailo, RN-UfannPIneft; R. Asmandiyarov, E. Nazargalin, A. Slabetskiy, RN-Yuganskneftegaz; A. Serdyuchev, Manager

171224 Relative Permeability Hysteresis at Water Gas Impact on Oil Reservoir
V. Kokorev, V. Karpov, V. Darishevich, I. Akmadeishin, K. Bugayev, V. Shekeloldin, V. Odedechnko, RITEK; A. Polischuk, Independent Nonprofit Organization NTO "ITIN"; E. Sheharyo, Gubkin Russian State University of Oil and Gas

171218 Integrated Modeling to Optimize Giant Multireservoir Gas Condensate Field Development
S. Mustayeva, D. Menzentev, NOVATEK STC; A. Yuzhaninov, Yamal SPG

171225 Dynamic Modeling of Samotlor Field with High Resolution Grids
E. Borovkov, D. Tolyktlykin, I. Rayev, Rosneft; K. Bogachev, RFD LLC

171219 Recovery Increase by Permanent Downhole Gages Data. Western Siberia Field Case Study
D. Gulyaev, S. Melnikov, V. Kokurina, Gazpromneft STC

171228 New Well-Test Interpretation Method for Carbonate Reservoirs with Rare Long Fractures for Field Development Optimisation
N. Morozovsky, M. Kremenetsky, Gazpromneft STC

171254 New Way of Individual Evaluation of Tight Coninyled Reservoirs
S. Melnikov, V. Kokurina, M. Kremenetsky, E. Pananna, Gazpromneft STC

171236 Horizontal Well Monitoring Based on Temperature Profile Measuring with Distributed Temperature Sensors (DST)
I. Kaeshikh, K. Usalevich, A. Buyanov, Gazpromneft STC

171229 Multi-Criteria Analysis and Optimization of Waterflooding Systems in Brownfields
A. Vaznyak, Schlumberger; A. Rykov, Tyumen Oil Scientific Center; V. Kotov, Surgutneftegaz

171255 Building of a Multiple Layer Oil and Gas Condensate Field Integrated Simulation Model
M. Kurzavano, D. Glumov, S. Bucinlky, E. Reitblat, Tyumen Oil Scientific Center

171242 Acid Treatment Design for HT Carbonates of RTrebs Oilfield, Timano-Pechora Oil and Gas Province
A. Folomeyev, BashNIPIneft

171237 Calculating Prediction Uncertainty Using Posterior Ensembles Generated from Proxy Models
S. Fillacier, R. Hamnemersley, I. Koltkova, T. Fincham, J. Heritage, G. Peacock, V. Solovev, Rosnef

171230 Compositional Integrated Modeling of Grachevskoe Field
A. Grimazov, E. Sergeyev, V. Nikolayev, E. Sadreyev, BashNIPIneft

171231 Comparison of Hydraulic Fracturing and Horizontal Well Drilling Efficiency within the Jurassic Deposits of the Nyzhnevartovskoy Arch
I. Sinitsov, VNIneft - West Siberia

171233 Field Study of Temperature Simulators Application for Quantitative Interpretation of Transient Thermal Logging in a Multipay Well
R. Valiullin, A. Ramazanov, A. Sadredinov, R. Sharafuddinov, Bashkir State University; V. Shaka, Schlumberger; M. Sidorova, Schlumberger Moscow Research Center; D. Kuyuchakov, Kompofnama测fоmфойка

171226 Reservoir Monitoring of Hydrocarbon-Water Flood Front by Gravimetry Integrated within Reservoir Simulation
A. Mansala, S. Lynga, Saudi Aramco; A. Loermans, Saudi Aramco (retired); D. Georgi, Aramco Services Company; G. Dyatlov, A. Vitilevsky, V. Dashewsky, C. Edwards, Baker Hughes Inc.

171257 Multi-Stage Frac Optimization on Horizontal Wells and Side-Tracks
V. Klimov, Gazpromneft STC

171227 Tackling of a Complex Composite Field through a Dedicated History-Match Scheme and Software
D. Dzhafarov, Total E&P Russie; L. Pauget, B. Pignot, Total SA

171220 Optimization of the System “Reservoir-Well-Pipeline—CGTL” on the Basis of the Integrated Modeling
S. Bikkulovata, A. Smirnov, V. Buleiko, I. Makenin, S. Romashkin, ROSPAN INTERNATIONAL

171216 Digital Core Analysis for Flow Process Evaluation is Myth or Reality?
A. Shandrygin, Gazprombank Neftegas Services

171215 Integrated (4D) Geomechanical and Hydrodynamical Modeling of Oil Field Development During Evolution
I. Garagash, A. Dubovskaya, Schmidt Institute of Physics of Earth of Russian Academy of Sciences (IPE RAS); D. Korneva, Research and Production Association "Soymneftegazservice"; M. Gasemi, Gubkin Russian State University of Oil and Gas

171211 Use of Channel Fracturing Technology Increases Production and Reduces Risks in Horizontal Wellbores Completions. First Experience in Russia, South-Probskskoe Oil Field
N. Chetbikin, A. Tolmachev, Gazpromneft – Khantos; A. Yudin, A. Gromovorivk, Schlumberger

171256 The Experience of Integrated Modelling based on the Simulation and Surface Gathering Network Models Conjunction using the Integrated Production Modelling (IPM) Software
I. Chamyeyev, D. Nenodenkov, NOVATEK STC
<table>
<thead>
<tr>
<th>Session Code</th>
<th>Title</th>
<th>Authors</th>
</tr>
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<td>171320</td>
<td>Integration of Forecasting Methods of Faults and Fractured Zones Detection in Order to Reduce Risks while Drilling ERD Wells With Ultra-Long Horizontal Sections (6000m) at Y. Korchagina Field</td>
<td>M. Golenkin, A. Alekseyev, A. Shtun, LUKOIL-Nizhnevolskneft, L. Sadykov, I. Zakharov, Schlumberger, P. Popova, VolgogradNIPimomeftef</td>
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<td>171318</td>
<td>On the Importance of the Quality of Conceptual and Engineering Design of Marine Structures used in the Development of the Russian Arctic Offshore Petroleum Resources</td>
<td>A. Papusha, Murmansk State Technical University; A. Zolotukhin, Gubkin Russian State University of Oil and Gas</td>
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**TECHNICAL SESSION: RECRUITMENT AND HUMAN CAPABILITIES**

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<tr>
<td>171189</td>
<td>How Knowledge Management has Played a Key Role in Deepwater Cementing: A Service Company’s Perspective</td>
<td>N. Gupta, Schlumberger</td>
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<tr>
<td>171190</td>
<td>Professional Adaptation of Shift Workers in the Arctic Oil and Gas Companies</td>
<td>Ya. Korneyeva, N. Simonova, M.V. Lomonosov Northern (Arctic) Federal University; G. Degteva, Northern State Medical University</td>
</tr>
</tbody>
</table>

Programme correct as of May 12 2014. All author names and paper titles are listed as submitted to SPE.
**KNOWLEDGE SHARING ePOSTER PRESENTATIONS: RESERVOIR ENGINEERING AND EOR**

| 171240 | Monitoring of EOR Methods and Well Stimulation Techniques by Oil Optical Properties Measurements |
| 171244 | 171245 Monitoring of EOR Methods and Well Stimulation Techniques by Oil Optical Properties Measurements |
| 171247 | Modeling experience in Grant Oil and Gas Field Development Using Sectoral Model System |
| 171253 | Procedure for Analysis of Waterflooding Dual Permeability Reservoir Performance by Example of Bashkirian Deposit, Romashkinskoye Field |
| 171241 | New Approach to PVT Correlation Selection for Oil Properties Estimation |
| 171248 | Development and Implementation of the Technological Associated Gas Complex for Increase in Oil Recovery |

**KNOWLEDGE SHARING ePOSTER PRESENTATIONS: FULL-FIELD DEVELOPMENT ON GREENFIELDS IN EAST SIBERIA, YAMAL AND OTHERS**

| 171189 | 171190 Making the Best of Integrated Asset Modelling |

**KNOWLEDGE SHARING ePOSTER PRESENTATIONS: CONVENTIONAL AND HARD-TO-RECOVER RESERVES**

| 171183 | Single-Size-Ball Interventionless Multi-Stage Stimulation System Improves Stimulated Reservoir Volume and Eliminates Milling Requirements: Case Study |
| 171175 | Examples of Mini-Frac Data Interpretation in Low-Permeability Reservoir |
| 171178 | Laboratory Study Peculiarities of Petrophysical Properties of Structurally Complex Carbonate Reservoirs at High-Viscosity Oil Fields |
| 171170 | Prospects of Shale Oil Bazhenov Formation in the South-East of Western Siberia |
| 171169 | Vertical and Horizontal Integration to Overcome Extreme Operational Challenges for the Achimov Tight, Samotlor Condensate Formation |
| 171176 | Streamlined Data Workflows for Rapid Unconventional Resources Exploration |
| 171182 | An Integrated Approach Using Geochemistry to Unlock the Secrets of Low-Permeability Reservoirs |

**KNOWLEDGE SHARING ePOSTER PRESENTATIONS: HEALTH, SAFETY AND ENVIRONMENT**

| 171133 | How IT technology is Changing the Established Approach to Safety and Reducing Operational Risks |
| 171188 | Offshore Oil Spill Response Technologies Overview |
| 171184 | Management and Maintenance of PSI (Process Safety Information) Master Documents in Tengizchevroil |

**KNOWLEDGE SHARING ePOSTER PRESENTATIONS: FULL-FIELD DEVELOPMENT ON GREENFIELDS IN EAST SIBERIA, YAMAL AND OTHERS**

| 171161 | Making the Best of Integrated Asset Modelling |

**KNOWLEDGE SHARING ePOSTER PRESENTATIONS: PHYSICAL AND MATHEMATICAL MODELING**

| 171149 | Sustaining Production by Limiting Water Cut and Gas Break Through With Autonomous Inflow Control Technology |
| 171153 | Technologies Based on Hydrocarbon-Base Surfactant Compositions for Enhanced Oil Recovery |
| 171155 | Hydraulic Fracturing as the Main Tool of Development of Hard-to-Recover Reserves in Low Permeable and Clayey Formations at the Late Stage of Romashkinskoye Field Development |
| 171147 | Hydraulic Fracturing Optimization Restores Development Prospectives in Challenging Environment of Rastashimskoe Field, Orenburg Region |
| 171150 | Criteria and Techniques of Waterflooding Adjustment for Brownfields |
| 171152 | Conceptual Modeling in Monitoring of Vyngayakhinskoye Field Development |
| 171154 | The Study of Remaining Oil Location in Multi-Ports at Micro and Nano Scale |

**KNOWLEDGE SHARING ePOSTER PRESENTATIONS: GEOLOGY AND GEOPHYSICS**

| 171197 | Advantages of Continental Deposits Object Geomodeling |
| 171196 | Thin Beds Potential: Identifying Hidden Pay in Gulf of Mexico |
| 171200 | Economic Evaluation of Prospective Oilfields in Traditional Oil-Producing Provinces |
| 171199 | A Methodology for Early Detection of Semi-Permeable Filtration Barriers |
| 171193 | Measurement of Water-Oil Ratio and Formation Porosity using Dielectric Spectroscopy in Borehole Environment |
| 171194 | Complex of Surface Electromagnetic Methods with Using VECS for Testing of Oil-Saturation of Targets |
| 171195 | Well Placement and Reservoir Characterization Advancement in VTSM Field with New Multiple Boundary Delineation Technique |
| 171198 | Conceptual Geological Modelling for Oilfield Development on the Example of Sugmutskoe Oilfield |
| 171201 | Integrated Stratigraphic and Petroleum System Modelling of the Pechota and Barents Shelf |

**KNOWLEDGE SHARING ePOSTER PRESENTATIONS: RESERVOIR ENGINEERING AND EOR**

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171246 Treatment of Production Well Bottom Hole Zones by Oil-Water Emulsion in order to Limit the Production of Breakthrough Gas at Yu.Korchagina Field
A. Byakov, M. Golenkin, S. Delia, LUKOIL-Nizhnevolsknefte

171261 Condensate Production Optimization by MEPO and Eclipse-Network Software
D. Glumov, D. Skvortsov, Tyumen Oil Scientific Center

171259 Complex Research of Reservoir Properties on Cores from Achimov Deposits
N. Dmitriy, M. Kvaschenko, M. Dmitriev, S. Tsibulsky, Gubkin Russian State University of Oil and Gas

171263 Development of Microbial Enhanced Oil Recovery Technology for Carbonate Formations, Phase 1
M. Khisametdinov, T. Nazina, Tatneft

171262 Multi-Sensor Technologies of Horizontal Well Surveying: Current Status and Application Experience at Russian Fields
R. Yanullin, R. Valiullin, R. Shafaiutdinov, A. Ramazanov, A. Sadretdinov, Bashkir State University; R. Mukhamadiev, V. Bashenov, A. Imanyev, TNG Group; D. Semikin, M. Rakhin, LUKOIL-Nizhnevolsknefte

171243 Injection Test of Carbonate Reservoir with Complex Porosity Including Porous Matrix, Fractures, Vuggy Zones
R. Abdullin, A. Davletbayev, G. Brikulovskaya, RN-UfNiPIneft; A. Ignatiev, RN-Severnaya nefte; L. Yarnalov, Rosneft

171258 Enhanced Oil Recovery in Carbonates with “Smart Water”
N. Kazankapov, A. Zhumukhambetov, Nazarbayev University

171249 Unification of Approaches in Studying Gas-Condensate System Characteristics
D. Fateyev, A. Nesterenko, TyumenNIIgiprogaz

171250 Visco-Elastic Flow Impact in PTA Interpretation
V. Iktisyanov, Tatneft STC; A. Gorchakov, KAPPA FSU OOO

171244 Laboratory Investigation and Field Performance of Ignition Program due to Air Injection Projects
V. Klinichev, A. Ushakov, V. Zatsepin, S. Telyshev, Zarubezhneft

171260 Solving of Non-Equilibrium Filtration Tasks by Use of Commercial Simulators
A. Cheremisin, N. Cheremisin, S. Kostyuchenko, Tyumen Oil Scientific Center

171282 Optimization of Cement Spacer System for Zonal Isolation in High-Pressure High-Temperature Wells
S. Tabatabaree Morad, N. Nikolov, National Mineral Resources University

171274 Artificial Neural Networks in Drilling Troubles Prediction
Yu. Lind, BashNiPIneft; A. Kabirova, Bashkir State University

171289 On Issue of Drilling-In Quality Improvement with Use of Oil-Based Muds
D. Molokanov, N. Deminskaya, V. Sledkov, LUKOIL-Engineering; A. Kuznetsov, LUKOIL-Komi

171279 Application of the Intelligent Control Systems for Horizontal Well Placement
I. Kolchanova, Yu. Bushkova, Weatherford

171291 An Integrated Experimental Approach to Determining How Invaded Mud Components Modify Near-Wellbore Properties
N. Ryzhikov, D. Mikhailov, V. Shako, Schlumberger

171285 Overview Solids Transport Study and Application in Oil and Gas Industry
J. Liu, Trican Well Service Ltd; L. Bernie, Trican Well Service Ltd

171268 Unique Successful Experience of Water Shutoff Treatment Using Two Coiled Tubing Inflatable Packers in Horizontal Well with Multistage Fracturing Completion
K. Burdin, Schlumberger

171275 Comparative Analysis of Drilling Technologies with Vertical and Inclined Drilling Rigs for Development of the Yarega Field of Heavy Oil by Using SAGD Method with Opposing Wells
G. Buslayev, USTU; D. Loparev, LUKOIL-Engineering-PechoriNiPIneft Branch Office in Ukhta

171264 A Novel High Temperature Insulating Packer Fluid
K. Eriksen, B. Panamarathupalayam, W. Foxenberg, E. Chumakov, M. I. SWACO

171300 Closed Production Cycle - A New Paradigm of Natural Resources Development in Remote Areas of Siberia
A. Muraviev, A. Nikonov, Weatherford; L. Tyurina, Lomonosov Moscow State University; S. Zhukov, A. Krupskiy, ROMAN-CAPITAL

171295 Improving Efficiency of Paraffin Deposit Removal from Oil Pipelines
M. Turbakov, Perm National Research Polytechnic University; E. Ryabokon, IPF School

171297 Effective Dehydration of Heavy Crude Oil
E. Selman, P. Mandewalkar, Cameron

171311 Problems of Oil and Gas Production Associated with Gypsum Depositing in the Verkhnechonskoye Oil and Gas Condensate Field
E. Chertovskikh, Verkhnechonskneftegaz; S. Alekseyev, Institute of the Earth’s Crust SB RAS

171306 Mathematical Model of the Output Mode Process for Wells Equipped with Electric Centrifugal Pump Units (ECPU)
V. Astafiev, L. Balandin, O. Gribennikov, Samara State Technical University

171309 Increasing Service Quality in Arctic Conditions - Three Years of Lessons Learned
V. Agadullin, Welltec

171303 An Approach for Optimal Bottom Hole Pressure Estimation on Artificially Lifted Wells
R. Khabibullin, M. Khasanov, Gazpromneft STC; V. Krasnov, T. Musabayev, S. Sokolov, Rosneft

171307 Prediction of Critical Gas Velocity of Liquid Unloading for Entire Well Deviation
H. Zhang, University of Tulsa; J. Li, Trican Well Service Ltd

171308 Preparation of Well-Killing Fluids in Conditions of Bashneft’s Oil Fields
S. Vakhrushev, A. Mikhailov, A. Karpov, BashNiPIneft

171323 The Potential of CSEM-Method in Oil and Gas Exploration in Arctic Region
P. Bahitina, Gazpromneft STC

171322 Coiled Tubing Hydrates Plug Removal in Subsea Gas Pipeline
M. Nepomnyashchii, Murmansk State Technical University; V. Steleetskaya, Gubkin Russian State University of Oil and Gas

171321 Power Distribution in Subsea Production Systems: A System Engineering Perspective
J. Morenza-Trejo, AKER Solutions; T. Markeset, University of Stavanger

171191 Competencies Transfer for Offshore Russian Operators
V. Lavrov, Oilteam

171192 Evaluation of Efficiency of Environmental Services Activity: Experience of the Creating of the Evaluating System for Gazprom
M. Redina, A. Khaustov, PFUR

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HOW EFFICIENT ARE EVENTS SUCH AS SPE RUSSIAN OIL & GAS, AS A PLATFORM FOR SHARING EXPERIENCE, KNOWLEDGE, TECHNOLOGIES AND IDEAS?

We are all busy people, and do not have many opportunities to meet our colleagues for detailed discussions of the issues we are concerned about in the industry. As recently seen, most companies send their delegates to the annual SPE conferences, and some top managers feel it is important to personally attend. This is why the SPE conference seems to me an ideal place to combine both pleasure and business. In addition to an excellent chance to learn about domestic and international experiences, it is the perfect opportunity to network and make new contacts.

SPE Russian Oil & Gas is the largest annual SPE event in Russia and the Caspian region, and is an ideal platform for sharing experience, knowledge and technologies. Besides the various technical sessions and young professionals contest, the conference also offers educational events (such as Energy4me) for school teachers.

THE MAIN CONFERENCE THEME IS “SUSTAINING AND OPTIMISING PRODUCTION: CHALLENGING THE LIMITS WITH TECHNOLOGY”. WHY DO YOU THINK THIS THEME IS IMPORTANT TODAY?

Production growth in Russia is, essentially, due to the involvement of undeveloped resources by a massive application of hydraulic fracturing, infill drilling, lateral horizontal drilling and other EOR techniques.

This issue is important because Russia has reached an oil production peak and it is very difficult to replace the recovered oil only by geological exploration. Not only do unconventional hydrocarbon resources have to be found, but also new production technologies.
TELL US ABOUT TWO OF THE KEY INDUSTRY AREAS THAT WILL BE ADDRESSED AT SPE RUSSIAN OIL & GAS

PUNEET DHAMIJA
VP Marketing & Business Development, Russia and Caspian
Baker Hughes

With the number of mature brownfields requiring rejuvenation or redevelopment, sustaining and optimising production to improve ultimate recovery is a very important theme today. What is possible today is very different from what was possible few years ago. A lot of investment has gone into research and development, which has led to the development of appropriate technology. Fit for purpose technology application is the key to improve recovery and optimising production in mature fields. This theme is most relevant in Russia and many other basins in the world.

ALEXANDER SHANDRYGIN
Chief Expert, Expert Group
GPB Neftegaz Sevices B.V.

The hydrocarbon resource structure deteriorating both in Russia and the world calls for creating efficient technologies for the development of hydrocarbon deposits.

1) Shelf development is a challenge for the key oil players in Russia.
2) As for stimulation of production from brownfields, companies have accumulated interesting experiences and sharing this experience is an important task for the engineering community and certainly SPE.

KONSTANTIN FEDOROV
Rector
Academy of Oil and Gas Engineering

1) Hard-to-recover and unconventional hydrocarbon resources (oil). Russia has tremendous hard-to-recover oil reserves.
2) Efficient EOR solutions and ways to stimulate their application. Huge residual oil reserves can be engaged in production by EOR.

MIKHAIL GELFGAT
R&D and Engineering Director
Weatherford

1) Hard-to-recover or unconventional resources is one of the most important topics discussed at all world forums in the recent years; the reason is the occurrence of new drilling and completion technologies that make the production from low-permeability reservoirs, certainly one of the primary oil sources in the nearest decades, commercially viable.
2) Optimisation of brownfield production; Russia has acquired technologies; it is only a matter of their systematic implementation.

CAN YOU DESCRIBE SOME OF THE LATEST TECHNOLOGY AND TECHNICAL ISSUES THAT WILL FEATURE IN THE SPE TECHNICAL PROGRAMME?

KONSTANTIN FEDOROV
Rector
Academy of Oil and Gas Engineering

Building integrated reservoir models, multistage hydraulic fracturing and improved instruments for reservoir studies.

SEYMOUR KOLBIKOV
Head of Field Development Forecast and Monitoring Division
NOVATEK

Drilling super-long horizontal wells and multistage hydraulic fracturing in horizontal wells. Multilateral wells and their applications.
1) All aspects of multi-zone hydraulic fracturing related to increasing the efficiency and reliability of well completions will be discussed both at the technical sessions and topical luncheons.

2) Drilling with borehole-reservoir pressure control (managed pressure drilling) will be reflected in the programme being one of the key methods to increasing safety and efficiency of well construction in abnormal pressures and unstable reservoirs.

3) Current status and features of horizontal drilling and multilateral wells is an important topic for the development of both brownfields and drilling in low-permeability reservoirs.

MIKHAIL GELFGAT
R&D and Engineering Director
Weatherford

1) Moving the development of new oil and gas fields to the Russian Arctic and East requires integrated solutions to extremely complicated infrastructure challenges; safety and efficiency in the well construction and further exploitation become of primary importance.

2) One of the main industry issues is the reliability of reserve estimates based on geological prospecting works, planning efficiency improvement, including application of the latest technologies in early development phases.

ANTON ABLAEV
SPE Russia and Caspian Regional Director 2015-2017

In my opinion, the primary goals of the industry are maintaining the hydrocarbon production levels in the short and long-term, and I am sure that the technologies and new approaches to be presented at the conference will help to achieve these goals.

PLEASE CAN YOU DESCRIBE SOME OF THE LATEST TRENDS IN OUR INDUSTRY

MIKHAIL GELFGAT
R&D and Engineering Director
Weatherford

1) All aspects of exploration, appraisal, drilling and completion will be addressed and existing experience reviewed. The main problem is optimisation of hydraulic fracturing and minimising adverse environmental impact from all operations.

2) Drilling with borehole-reservoir pressure control (managed pressure drilling) will be reflected in the programme being one of the key methods to increasing safety and efficiency of well construction in abnormal pressures and unstable reservoirs.

3) Current status and features of horizontal drilling and multilateral wells is an important topic for the development of both brownfields and drilling in low-permeability reservoirs.

VLADIMIR POROSKUN
Deputy Director General for Geoinformatics
VNIIGNI

A wide range of issues will be addressed – from geological features of various unconventional hydrocarbon deposits to their exploration and production technologies. This is very interesting as such operations are only just beginning in Russia and any experience in exploring and developing such reserves will be very useful for the Russian companies.

WHICH AREAS OF ‘UNCONVENTIONAL AND HARD-TO-RECOVER’ RESERVES WILL BE TOUCHED ON IN THE CONFERENCE? WHAT DO YOU PERSONALLY SEE AS ONE OF THE MAJOR CHALLENGES IN THIS INDUSTRY AREA?

VLADIMIR POROSKUN
Deputy Director General for Geoinformatics
VNIIGNI

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SPE Russia and Caspian Regional Director 2015-2017

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ANDREY Kharitonov
Regional Technical Manager
Eurasia - Halliburton

It may seem simple – drill-frac-recover hydrocarbons. However, the very first attempts to drill for and produce shale hydrocarbons revealed a myriad of problems almost at every project stage – environmental protection, target selection, conventional drilling solutions are not always applicable in such cases and call for customised approaches in every specific project; completion techniques, EOR, production and refining themselves – all call for unique solutions. It is interesting that operators have different approaches to these issues. I believe it is extremely important to develop the unconventional resources in order to identify the solutions.

MIKHAIL GELFGAT
R&D and Engineering Director
Weatherford

All aspects of exploration, appraisal, drilling and completion will be addressed and existing experience reviewed. The main problem is optimisation of hydraulic fracturing and minimising adverse environmental impact from all operations.
An important factor in determining the possibility of developing hard-to-recover reserves is the level of the expenditures accepted by the investor for the development of such reserves compared to additional investments into the EOR methods required to fully recover considerable (sometimes comparable) residual reserves in the existing fields.

WHAT CHALLENGES DOES THE INDUSTRY FACE IN THE DEVELOPMENT OF BROWNFIELD SITES AND HOW WILL THE CONFERENCE AID THESE CHALLENGES?

ANDREY Kharitonov
Regional Technical Manager
Eurasia - Halliburton

This challenge is not new, but still on the front burner. From a drilling perspective, brownfields present a number of issues that require optimum solutions. In general, these issues are related to the fact that as such fields are being developed, the subsurface conditions and the rock structure itself significantly change. Firstly, it is a drop in the reservoir pressure in depleted deposits, reservoir flooding which, with time, results in inefficiency or considerably lower efficiency for the brownfields of the technologies used in the initial development phase. With these problems in mind, things like continuous optimisation of the drilling practices, selection of optimum well courses and telemetry instruments, selection of drilling fluids, absorption fighting strategies, drill bit selection, and casing practices become more and more important.

Konstantin Fedorov
Rector
Academy of Oil and Gas Engineering

There are no traditional well-established research practices for brownfields, which is why field monitoring does not provide a clear picture of the field production and remaining reserves. The programme has some papers that help answer some questions.

Alexandr Shandrygin
Chief Expert, Expert Group
GPB Neftegaz Sevices B.V.

Possible development technologies and more importantly, ways to stimulate their application, without which the application of these technologies is impossible.

WHAT DO YOU THINK THE MOST IMPORTANT STEPS WILL BE TO MEETING FUTURE PRODUCTION TARGETS?

Konstantin Fedorov
Rector
Academy of Oil and Gas Engineering

Accumulate experience and practices in using permanent well performance monitoring systems, their high-quality interpretation, applying modern solutions in the oilfield geophysical studies, work out a production monitoring and management procedure, and, undoubtedly, accumulate experience in different designs of directional drilling and multistage hydraulic fracturing drilling.

Alexandr Shandrygin
Chief Expert, Expert Group
GPB Neftegaz Sevices B.V.

- EOR by LoSal water injection
- Water emulsion injection
- Multilateral wells
- Ways to stimulate field development and EOR
The innovations and technologies discussed in the conference will be showcased in the leading exhibition. View the products, meet the Russian and international suppliers and discuss how their products and services can assist your company.

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<td>- Access to all three days of conference sessions</td>
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<td>- CD of Conference Proceedings</td>
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<td>- Invitation to the Gala Reception</td>
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TOPICAL LUNCHES
A unique opportunity to socialise with your fellow industry professionals and hear leading experts discussing specialist topics whilst you dine. Simply select the Topical Lunch you wish to attend whilst registering for the event.

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<tr>
<th>DATE</th>
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<td>North American Horizontal Completions - Current Best Practices 2014</td>
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<td>Perspective Technologies of Integrated Thermobaric-Chemical Impact on Low-Permeability Reservoirs and Shale Oil</td>
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HOW TO REGISTER
Online registration is available now at www.russianoilgas.com. Payment is possible by credit card, debit card or by invoice.
HORIZONTAL WELL COMPLETIONS
17-18 OCTOBER 2014, MOSCOW

DESCRIPTION
This two day course develops strategies for completing horizontal wells. It covers both consolidated and unconsolidated formations and the completions tools and techniques that are used in these applications.

Participants will learn the applications and dynamics of horizontal wells, including hole displacement, cementing, perforating, openhole completions and stimulation (both sand control and hydraulic fracturing). They will also learn the guidelines for selecting completions in consolidated formations and stand-alone screens and executing horizontal gravel packs in unconsolidated formations.

TOPICS INCLUDE:
- Completion options for consolidated formations
- Completion comparison for consolidated formations
- Completion options for unconsolidated formations
- Zonal isolation and inflow control
- Displacing the drill-in fluid

WHY YOU SHOULD ATTEND
Horizontal drilling was a step-change in the industry, but the technology is more expensive and riskier than drilling vertical or deviated wells. As a drilling, completion or reservoir engineer, it is important for you to understand the many challenges and options of horizontal drilling.

WHO SHOULD ATTEND
This course is designed for drilling, completion and reservoir engineers, and for service company personnel involved with planning, drilling, completing and operating horizontal wells.

INSTRUCTOR
Mr. Sudiptya Banerjee is a completion engineer within the Baker Hughes’ Center for Technology Innovation who specialises in inflow control technology and reservoir simulation. He began his career as a cementing and stimulation field engineer for Schlumberger well services, living and working in locations from Western Oklahoma to Saudi Arabia. Since joining Baker Hughes, Mr. Banerjee has focused on new product design and global technical support, developing and launching products ranging from premium sand control screens to new hybrid-geometry inflow control devices. He holds three patents related to adaptive inflow control alone.

Mr. Aaron Burton is the business development manager for Unconventional Completions, a group primarily focused on the completion of shales and similar unconventional plays that require multistage hydraulic fracturing. Mr. Burton joined Baker Hughes as a field engineer trainee for completion tools after graduation. During his tenure in operations, he has held the roles of field engineer, operations coordinator, and district engineer. He has completed wells in several unconventional plays in North America, including the Bakken, Marcellus, and the Lower Huron.

Registration is open. For more details and registration please contact Mariya Tishkova at mtishkova@spe.org
ASSET MANAGEMENT - TOOLS, PROCESS AND PRACTICE
17 - 18 OCTOBER 2014, MOSCOW

DESCRIPTION
Participants of this two day course will learn to develop and put in context an integrated asset management plan. They will begin by defining the asset from the earliest phases and work through its lifecycle, including all of the infrastructure, facilities, equipment and services.

TOPICS INCLUDE:

- Define the contents of an asset management plan
- External factors such as fiscal terms, host government policies, regulatory requirements, etc.
- Macroeconomic factors such as the price of products, goods, and services
- Internal factors such as company policies, external commitments, resources, decision-making processes and criteria, roles and responsibilities, authority guidelines, rewards, and budgets
- The asset management process, including key decisions and deliverables
- Roles of multi-disciplinary team members and monitoring their performance
- Information needed from each discipline in various stages of the asset lifecycle
- Role of benchmarking, post-auditing, and continuous improvement
- An overview of asset management tools and examples from the field, including frequent mistakes

WHY YOU SHOULD ATTEND
You will learn asset management strategies and skills that can immediately be utilised in the field.

WHO SHOULD ATTEND
This course is designed for professionals across the full spectrum of oil and gas operations.

INSTRUCTOR
Mr. Alok Jain is a director of Asset Management Solutions Inc., a training and consulting firm that he formed after taking retirement from ConocoPhillips in 2004. With over 40 years of experience in the oil and gas industry, including 23 years with ConocoPhillips, Mr Jain served in technical and leadership roles in asset management, project management and reservoir engineering. Prior to Conoco, he worked for 11 years in the petroleum industry in Canada, United States and Libya in economic evaluation, reservoir engineering and development and as a reservoir simulation engineer with Gulf Oil Company in Venezuela, Nigeria and Canada.

Registration is open. For more details and registration please contact Mariya Tishkova at mtishkova@spe.org
TRAVEL AND VENUE

VENUE
All-Russian Exhibition Center,
Pavilion 75 VDNKH, Estate 119,
Mir Prospect, Moscow, 129223

DATES
Tuesday, 14 October 2014
Wednesday, 15 October 2014
Thursday, 16 October 2014

TRAVEL – GETTING TO MOSCOW

There are three international airports in and around Moscow.
- Sheremetyevo is located in the north of the city and can be reached by taxi in approximately 45 minutes.
- Domodedovo Airport is about 22 km south of the city and a taxi ride into town takes approximately 1 hour 30 minutes.
- Vnukovo Airport is located 10 km south-west of Moscow and is mainly served by the German operator Germanwings. A taxi will take about 60 minutes to the city centre.

From the airport, Aeroexpress trains are also available from all city airports on a regular basis. The journey takes between 35-45 minutes, and you will arrive in either Belorussky Terminal (from Sheremetyevo), Paveletsy Terminal (from Domodedovo) or Kievsky Terminal (From Vnukovo)

TRAVEL – GETTING TO THE VENUE

FREE SHUTTLE BUSES
Free shuttle buses will be running between the venue and a number of hotels in the area every day of the event. Please visit the website for further information.

SUBWAY
From the centre of Moscow, please take the orange line (Kaluzhsko-Rizhskaya line) of the underground railway in direction north to the station “VDNKH” (ВДНХ).
From there, it is a 10 minute walk (approximately) to the Main Entrance of VDNH.

TAXI
Taxi rides should to be booked in advance as the number of licensed taxi operators in Moscow is quite limited compared to other European cities.
Most hotels will have their own transport desk and will be able to make arrangements.

APPLYING FOR A VISA
Visa support will be provided by Russkie Prostori on full payment of accommodation booked through them.

We strongly advise you apply for your Visa by 1 September 2014 to ensure it is processed in time.

Please note, if visa support is provided and accommodation is cancelled, a EUR 50 cost will be incurred. Visa support will not be provided for accommodation not booked through Russkie Prostori, Please contact your hotel or accommodation agency directly.
For more information visit www.russianoilgas.ru/visa

LOCAL BUSES
To travel to the venue from Moscow City Centre on public bus, you should alight at VDNKH Metro Station Stop.
Bus Numbers: 33, 56, 76, 93, 136, 154, 172, 195, 239, 244, 803
Trolley Buses: 14, 48, 76
Trams: 11, 17

For more information visit www.russianoilgas.ru/visa
OFFICIAL HOTELS

Our official accommodation agent is Russkie Prostori

The following hotels can be booked at www.russianoilgas.ru/bookhotel

HOLIDAY INN SUSCHEVSKY HOTEL
Standard room
13-17/10 SNGL/DBL 8000/9000 RUB per room per night including breakfast and VAT 18%
Fri, Sat, Sun (12-13/10 and 17-18/10) SNGL/DBL 3200/3900 RUB per room per night including breakfast and VAT 18%
Prices are valid until 24/9/14.

COSMOS HOTEL
Standard superior room
13-17/10 SNGL/DBL 5000/5500 RUB per room per night including breakfast and VAT 18%
Fri, Sat, Sun (12-13/10 and 17-18/10) SNGL/DBL 4000/4550 RUB per room per night including breakfast and VAT 18%
Prices are valid until 24/9/14.

For any queries, please contact Anna Kim
T: +7 812 703 44 00
E: anna.kim@russkie-prostori.com

100% payment is required on booking.

TERMS AND CONDITIONS

➢ To attend SPE Russian Oil & Gas Conference and Exhibition, full payment is required by the delegate to Reed Exhibitions Limited, the Organiser, in advance either by Visa Card, Master Card, Amex or by cash, cheque or bank transfer.

➢ Notice confirming your place on the SPE Russian Oil & Gas Conference and Exhibition, together with an invoice will be sent to you in advance of the event.

➢ After filling in the registration form on the website you will receive an e-ticket which will be sent to the email address you have provided. Please, print this e-ticket and exchange it at internet registration counter for your personal badge to enter the exhibition and conference. If you have any queries please call +44 (0)20 8439 8890.

➢ If you have booked as a paying conference delegate you will also receive further details of paying via invoice or credit card.

➢ If the invoice has not been settled by cleared funds prior to the date of the event, we will require payment onsite.

➢ All cancellations must be submitted in writing to Reed Elsevier LL C at: Bolshaya Nikitskaya str. 24/1, building 5, Moscow, Russia before 22 August 2014 in order to receive a refund.

➢ Cancellations received before 22 August 2014 will receive a 50% refund.

➢ For cancellations received on and after 22 August 2014, no refunds will be paid although substitutions may be made until 26 September 2014.

➢ To substitute another delegate, please email Charlotte Fewlass at charlotte.fewlass@reedexpo.co.uk with the following information: Your name and the name, email address and telephone number of your replacement delegate.

➢ The delegate shall be entitled to a full refund in the event that the SPE Russian Oil and Gas Conference and Exhibition is cancelled by the Organiser, save where this is due to circumstances outside the Organiser’s control.

➢ The delegate shall comply with the SPE Russian Oil and Gas Conference and Exhibition Admissions Policy. The full Policy can be found at www.russianoilgas.com
The Reed Exhibitions Energy & Marine Group delivers global contacts, content and communities with the power to transform the upstream oil & gas industry.

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- **Queensland Gas Conference & Exhibition**
  Brisbane, Australia
  www.queenslandgasconference.com.au

- **Oceanology International China Conference & Exhibition**
  Shanghai, China
  www.oichina.com.cn

- **Oceanology International Conference & Exhibition**
  London, UK
  www.oceanologyinternational.com

- **Interspill Conference & Exhibition**
  Amsterdam, Netherlands
  www.interspill.com

- **Spillex Conference & Exhibition**
  London, UK
  www.oceanologyinternational.com/spillex

- **SPE Offshore Europe Conference & Exhibition**
  Aberdeen, UK
  www.offshore-europe.co.uk

- **SPE Russian Oil & Gas Exploration and Production Technical Conference & Exhibition**
  Moscow, Russia
  www.russianoilgas.ru

- **IBP/SPE Brasil Offshore Conference & Exhibition**
  Macaé, Brazil
  www.brasiloffshore.com

- **IBP Santos Offshore Conference & Exhibition**
  Santos, Brazil
  www.santosoffshore.com.br

- **SPE Intelligent Energy International Conference & Exhibition**
  Dubai, UAE
  www.intelligentenergy-me.com

- **SPE Intelligent Energy International Conference & Exhibition**
  Utrecht, Netherlands
  www.intelligentenergyevent.com

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