Dear Colleague,

We are living in an era of challenges and changes touching all aspects of our lives. Changes affecting all industries including our oil and gas event formats, methods of personal communication and everyday business activities.

But we consider the current situation as an incentive for further development and the opportunity to search for new methods and solutions. To achieve this goal, we have extended the conference programme. As well as our traditional topics of EOR, hydraulic fracturing, hard-to-recover reserves, innovations and digitalization, we have also included “hot topics” which include industry decarbonization and transfer to unconventional resources. With the help of industry experts, we will try to determine whether it is possible to build a hydrocarbon-free future, what steps have already been taken and also what lies ahead.

The extensive conference programme includes round tables on the most relevant topics, lectures from famous industry experts, special sessions and knowledge sharing sessions. The SPE Russian Petroleum Technology Conference remains one of the most respected technical events in Russia. It provides each delegate a platform to discuss the latest developments in the industry and share experience in technology implementation in a noncommercial and noncompetitive environment.

This year, the SPE Russian Petroleum Technology Conference will be held online on 12-15 October 2021.

Detailed information about the conference programme is available on the event website and in this conference preview brochure.

We are looking forward to seeing you at the 2021 conference!

Nikolay Smirnov, PetroGM
Yury Petakov, ZYFRA
Maxim Koval, SamaraNIPlneft
There is always the need to stay at the peak of technology progress. For the oilfield, it has paramount importance in our days’ transformation. Only this way we develop the right solution and achieve the highest production on a dollar spent.

Nikolay Smirnov, PetroGM

Registration is open. Visit go.spe.org/21rptc-preview-en to learn more.

Disciplines

- Multi-disciplinary
- Management
- Projects Facilities and Construction
- Health, Safety, Environment, and Sustainability
- Drilling
- Production and Operations
- Data Science and Engineering Analytics
- Completions
- Reservoir Description and Dynamics

Learn more at go.spe.org/21rptc-preview-en
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Alexander Shandrygin, Independent Expert
Alexey Sobolev, Geonaft
Vyacheslav Solonitsyn, OILTEAM Engineering
Dmitry Surnachev, OGRI RAS
Vii Syrtlanov, Baker Hughes
Olga Tatur, Geonaft
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Alexander Tsibrankov, Belorusneft
Mikhail Tsibulsky, Halliburton
Rim Valiullin, GeoTEK
Stanislav Vasyutkin, LUKOIL
Alexander Zamkovoy, TGT Oilfield Services

About the Society of Petroleum Engineers
The Society of Petroleum Engineers (SPE) is a not-for-profit professional association whose more than 140,600 members in 143 countries are engaged in oil and gas exploration and production. SPE is a key resource for technical knowledge providing publications, events, training courses, and online resources at www.spe.org.
Round Table: Fiber Optic Technologies

Although fiber optic technology is not a novelty, the oil and gas industry today strives towards continuous efficiency, improvement and cost reduction and requires special accurate measurements, high intensity data acquisition, transfer and even real time interpretation. With all these aspects considered, fiber optics is bound to make new breakthroughs.

This round table discussion will focus on the recent progress and innovation the industry has achieved by improving connectivity and massive data transmission, designing more robust and durable equipment, sensor packages, software and interpretation methods in distributed temperature, acoustic and stress sensing. New interpretation of technologies develop in the wake of improved architecture and design and manufacturing methods for equipment providing safety, effectiveness and durability in harsh environments including high temperature, pressure, erosion, vibration and a wide range of wellbore and pipeline fluids.

Speakers:

- Timur Zharnikov, Aramco Innovations
  Spatial and Temporal Resolution of Distributed Fiber Optic Measurements for Downhole Applications
- Dmitry Miklashevsky, Schlumberger
  Intelligent Well: Phase Inflow Rate Profile from Distributed Optic Sensing, Qualitative in Near-Real Time, Quantitative in Automated Update Mode
- Andrey Ipatov, Gazpromneft STC
  Application of Distributed Seism Acoustic Effects (DAS) in the Fields of Gazprom Neft
- Anton Egorov, Aramco Innovations
  Modelling of Seismic Data Acquired with DAS Sensors and the Potential of DAS Full Waveform Inversion

Round Table: Digital Rock

We will discuss various aspects of activities covered by the term ‘digital rock’, including creation of rock and fluids, digital models, calculation of petrophysical and hydrodynamic properties, and operational experience. Our goal is to achieve understanding of the current situation in this area, positive experiences, challenges and to identify the paths to development. At this round table you will have an opportunity to share your knowledge and experience and to expand your vision of the current and potential capabilities of the digital core.

Speakers:

- Oleg Dinariev, Schlumberger Moscow Research Center
  Current Experience in Pore-Scale Modelling of Hydrodynamic, Physical and Chemical Processes
- Alexey Cheremisin, Skoltech
  Investigation of Low-Permeability Core Samples from Achimov Deposits using a Digital Core Approach
- Ivan Yakimchuk, Schlumberger Moscow Research Center
  Peculiarities of Nanoscale Digital Rock Model Construction based on 3D FIB-SEM Data
- Anton Kusov, BP
  Application of Digital Rock Results to Dynamic Modelling in Complex Reservoirs

Learn more at go.spe.org/21rptc-preview-en
Round Tables

Round Table: Lessons Learned, Best Decisions and Practices for Using AI

Supported by:

The round table discussion is devoted to AI evolution as a way of solving applied tasks in the field of exploration and production. In recent years, researchers and companies accumulated extensive experience in practical solutions creation and development in optimising ongoing processes, automate routine activities and obtain rapid and more accurate results.

By immersing ourselves in terminology and generic solutions, we have gained certain skills. Logically, the next stage of development will be a step towards unifying solutions and ‘system out of system’ creation. This would require improvement of the decision-making chains governed by application systems based on the wide range of AI technologies and formalised knowledge in the format of digital business processes.

Issues such as related industries experience in AI, expertise of the leaders in the area and features of the general artificial intelligence (GAI) systems are also on the agenda of the round table.

Round table: Capture and Sequestration of CO2 (Carbon Dioxide): Problems and Solutions

During this round table we will discuss:

- Prospects for the implementation of CO2 sequestration technologies in the industrial regions of Russia
- Prospects of oil and gas basins for the implementation of CO2 capture and storage projects
- Innovative approaches in CCS technologies
- Experience in the implementation and operation of the CCUS value-chain and its elements
- Problems associated with the injection and storage of CO2 for sequestration and EOR operations:
  - Search and selection of reservoirs for CO2 storage
  - Mechanisms of CO2 interactions with porous rock and formation fluids
  - Monitoring and regulation of the CO2 injection and storage
  - Solution of corrosion problems of surface and downhole equipment when using CO2
  - Mitigation of risks during CO2 sequestration in the subsurface

Speakers:

- Sergey Glazkov, SPD
  Carbon Emission Management System in SPD
- Yuriy Petrakov, ZYFRA
  Existing Solutions for Candidates/Fields Identification, Injection Volume Calculations and Monitoring, Technological and Infrastructure Risk Assessment during CO2 Storage
- Mikhail Panfilov, Institut des Mathématiques Élie Cartan Université de Lorraine/CNRS; Institut Jean le Rond d’Alembert, Sorbonne université/CNRS
  Physical Pros and Cons of Underground Biomethanation Technology when Storing Mixtures of Hydrogen and CO2
- Nikolay Glavnov, Gazpromneft STC
  CO2 Injection: Gazprom Neft Experience

Learn more at go.spe.org/2Irptc-preview-en
Digitalisation creates opportunities for the potential use of machine learning and artificial intelligence, a data-driven environment that enables pattern detection and provides dynamic insights into the complex interdependencies that exist in real time production. As part of the lecture practical examples will be used as they discuss the advantages and problem areas of three operational approaches where neural networks are used. These include:

- Reservoir Management
- ESP Operation and Maintenance
- Real Time Drilling Optimisation

He started his career at the Moscow State University as a leading researcher on regional studies in geology and petroleum habitats of the Eastern Caucasus foreland. Later Konstantin worked at VNIGNI where he supervised the regional study of structural and petroleum geology of folded belts in the FSU, for such companies as YUKOS, TNK-BP and Shell E&P. Currently Konstantin is the Chief Geologist of the North Uralian Petroleum Company.

Dr. Sobornov has been a visiting researcher at the University of Calgary and Cornell University. He is the author of over 80 papers on various aspects of oil and gas exploration geology and petroleum habitats of Russia and structural and petroleum geology of fold-and-thrust belts. In 2013 he won AAPG’s Search and Discovery Shelton Award for the best paper of the year.

Synopsis: The lecture will focus on the cyclical sequence and the primary drivers of petroleum exploration development in Russia. Dr. Sobornov will summarise the key factors for the successful development of the oil and gas production resource base. The current industry climate will be discussed in the context of global trends and participants will look at possible scenarios for the development of petroleum exploration in Russia.
Special Events

**Special Session ‘New Materials Towards the Future’**

**Supported by:**

![Gazprom](image1)

The development of the oil and gas industry is linked with the increasing level of complexity of emerging technological challenges. The successful implementation of ambitious projects in various conditions requires the use of all available potential opportunities. ‘New materials’ is undoubtedly one of the key industry elements, which relates to all technological processes from design to working agents. It is difficult to overestimate the potential opportunities offered by the evolution of materials and their adaptation to meet current technological challenges.

This session identifies opportunities of development that can be accomplished by ‘new materials’ and the application and move towards their implementation.

**Thursday–Friday, 14–15 October**

**Regional Student Paper Contest**

The 2022 Student Paper Contest traditionally takes place alongside the SPE Russian Petroleum Technology Conference.

The contest has three divisions:

- Undergraduate Division
- Postgraduate Division: Masters and Diploma projects
- Candidates

This year winners are invited to attend the International SPE Student Paper Contest to be held at the 2022 SPE Annual Technical Conference and Exhibition.

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Learn more at [go.spe.org/21rptc-preview-en](go.spe.org/21rptc-preview-en)
Plenary Session: Prospects for Hydrocarbon Energy and Transition to Renewable Energy Sources

Moderator: Tatyana Bondarenko, Petroguide

Speakers: Alexander Shandrygin, Gazprom VNIIgaz; Anton Guzev, Baker Hughes

In the plenary session, we plan to discuss the short and long-term prospects of hydrocarbon energy in the context of increasing decarbonisation trends and the active development of renewable energy resources. Leading scientists and well-known oil and gas experts will present their views on various aspects of the hydrocarbon production process and technological developments in terms of reducing the hydrocarbon energy impact on climate change, the role of oil and gas production and consumption in the overall world structure of “primary” energy and answer the question whether it is possible to completely abolish hydrocarbon consumption in connection with the transition to “green energy”.

Dmitry Pisarenko, TotalEnergies; Oleg Ushmaev, Gazprom Neft; Konstantin Sobornov, North Uralian Petroleum Company; Vladlena Bukhareva, BP; Mikhail Panfilov, Institut des Mathématiques Élie Cartan Université de Lorraine/CNRS; Institut Jean le Rond d’Alembert, Sorbonne université/CNRS will take part in the discussion.

Tuesday, 12 October

Alexander Shandrygin, Gazprom VNIIgaz

Alexander Shandrygin graduated from the Grozny Petroleum Institute in 1980. He received a Ph.D. in 1985 and a DSc in 1993, majoring in the development of oil and gas fields.

For 40 years, Alexander was engaged in pedagogical, engineering and scientific activities in the domain of oil and gas field development, reservoir physics, thermodynamics and EOR. He is the author of over 100 scientific works, including two monographs.

For a quarter of a century, Alexander has been an expert advisor in the activities of the Russian State Reserves Committee and the Central Commission of Field Development. He has participated in the work of SPE committees including: Distinguished Lecturer; SPE Forums; Oil and Gas Reserves Committee and various other SPE conference programmes.

It is Too Early to Talk About the Decline of the Hydrocarbon Era

Currently the reduction of the natural hydrocarbons role caused by the need to decarbonise the economy and prevent the currently observed climatic changes is widely declared as the modern trend in the development of world energy. At the same time, the projected estimate of the rate of decrease in the share of hydrocarbons in the global energy balance are extremely different. For example, the proportion of hydrocarbons in the world energy in 2050 is indicated from 25 to 50% in various forecasts. The main role in the projected decline of oil and gas production and consumption is assigned to the accelerated transition to carbon-free energy sources (including renewable energy sources, «green hydrogen», biofuels, etc.), as well as nuclear energy which is being actively developed.

The development of «green» energy in many countries of the world is ensured by political and protectionist measures, as well as by various methods of government regulation. At the same time, we completely ignore the fact that renewable energy sources also require significant amounts of various mineral resources for the manufacture of elements for the production and storage of renewable energy, including mineral resources that are extremely limited. In addition, there are certain areas of human activity where there is no alternative to hydrocarbon energy even in the long term, and there are other domains (for example the transport sector) in which the rejection of...
hydrocarbon fuel will require complete restructuring of existing infrastructure. This restructuring is also associated with the consumption of mineral resources and requires a significant amount of time.

Our analysis of existing technologies to produce and develop «green» energy as well as human demand indicates favorable prospects for hydrocarbon energy. Due to the above problems, the rates of production of most types of «green» energy will be lower than projected, and they may even reach some maximum possible values in the long term. In such conditions the steady growth of mankind’s demand for energy conditions will cause stabilization of oil consumption volumes and even a certain increase in gas consumption volumes. This will also be facilitated by the development of technologies for capturing and burying CO2.

This report presents our estimates of the dynamics of global oil and gas production and consumption in the current period up to 2050 and compares them with the forecast estimates of leading oil and consulting companies. The main directions of the development of hydrocarbon energy are given.
## Technical Session: Hard-to-Recover Reserves

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<tr>
<th>Paper #</th>
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| 206400  | Experience in Testing and Predicting Production of the Bazhenov Formation  
| 206401  | The EOR Technology Selection for Ultra-Low-Permeability Reservoirs of the Achimov Formation of Priobskoe Field  
A. Gimazov, E. Sergeev, A. Sheremeev, Gazpromneft STC; R. Uchuev, E. Khudiev, Gazpromneft-Khantos |
| 206403  | Electromagnetic Induction Heating for Bitumen Recovery: A Case Study in Athabasca Oil Sands  
A. Sherwali, W. Dunford, University of British Columbia; M. Noroozi, Subterra Energy Consulting |
| 206404  | Efficiency of Gel and Foam with Polymer for Gas Shut-Off in Horizontal Wells  
M. Zvada, Gazpromneft STC; E. Sayfullin, M. Varfolomeev, Kazan Federal University |
| 206405  | Express Evaluation of High-Molecular Components Extraction from Gas-Condensate Fields  
D. Sumachev, N. Skibitskaya, M. Baganova, OGRI RAS |
| 206406  | Scientific Approach for Refracturing in Multistage Fracturing Completion in Tight Reservoirs  
A. Sadykov, S. Erastov, D. Kashapov, D. Ardislamova, M. Antonov, RN-BashNIPIneft; I. Sakhipova, Kondanef |
| 206407  | Delineating the Multi-Stacked Domanik Play in the Troitsk Field, Volga-Ural Basin, Russia  
| 206408  | Flood Control Method in Fields with Hard-to-Recover Reserves  
A. Syundyukov, G. Khabibullin, A. Trofimuk, D. Shaykhatdarov, RN-BashNIPIneft; D. Sagitov, Ufa State Petroleum Technological University |
| 206409  | Realising the Effective Development in Deep Heavy Oil Using a New Cold Production Method: CO2 Assisted Bottom-Water Driving (CABD)  
C. Hai-ying, L. Dong-ping, Dagang Oilfield Company, PetroChina |
| 206410  | Improving the Development Efficiency of Low-Permeability Formations When Completing the Openhole MTL in the Conditions of Weakly Cemented Rocks  
I. Khomenok, N. Smirnov, V. Reyes, PetroGM; A. Maltsev, N. Kudiaeva, Yu. Polushina, Eurotek-Yugra |
| 206411  | Technical Analysis of Sand Production for Offshore Natural Gas Hydrate Trials in the South China Sea  
K. An, L. Lau, X. Tang, China National Offshore Oil Corporation |
| 206412  | Investigation of Horizontal Wells with Multi-Stage Hydraulic Fracturing Technological Efficiency in the Development of Low-Permeability Reservoirs  
A. Fedorov, Kh. Suleymanov, RN-BashNIPIneft; A. Miroshnichenko, V. Korotovskikh, T. Musabirov, Rosneft |

All authors' names, companies' and paper titles are listed as submitted to SPE. The programme is relevant as of 20 May 2021.
## Technical Session: Enhanced Oil Recovery

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<td>206417</td>
<td><strong>Pilot Project Evaluating WAG Efficiency for Carbonate Reservoirs in Eastern Siberia</strong>  &lt;br&gt; V. Zharko, D. Burdakov, Irkutsk Oil Company</td>
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<tr>
<td>206418</td>
<td><strong>Determination and Application of Diffusion Coefficients in Gas EOR Simulation for Bazhenov Shale Formation</strong>  &lt;br&gt; V. Lompik, E. Mukhina, P. Khmelenko, A. Cheremisín, A. Mukhametdinova, Skolkovo Institute of Science and Technology; M. Zvada, A. Ushakova, Gazpromneft STC</td>
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<td>206419</td>
<td><strong>Industrial Application of Nickel Tellurate Catalysts During Cyclic Steam Stimulation in Boca de Jaruco Reservoir</strong>  &lt;br&gt; A. Vakhin, I. Mukhamatdinov, M. Varfolomeev, D. Nurgaliyev, Kazan Federal University; Ya. Simakov, A. Latypov, VNIIneft; O. Petrashev, A. Solovyev, G. Sansiev, Zarubezhneft</td>
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<td>206420</td>
<td><strong>Pilot Injection of Surfactant-Polymer Composition to Improve Oil Recovery from the Carbonate Reservoir of Kharyaga Oilfield - Planning and Evaluation</strong>  &lt;br&gt; M. Arsamakov, Yu. Trushin, A. Aleshchenko, O. Zoshchenko, Zarubezhneft-dobycha Kharyaga; A. Kornilov, VNIIneft; G. Fedorchenko, Zarubezhneft</td>
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<td>206421</td>
<td><strong>Hydrocarbon Saturation Determination with the Single-Well-Chemical-Tracer-Test (SWCTT) for EOR Methods Estimation. From Theory to Experiment</strong>  &lt;br&gt; F. Koryakin, Gazpromneft STC; N. Tretyakov, V. Vershinin, R. Ponomarev, Tyumen State University; I. Koltsou, Gazpromneft-Technological Partnerships</td>
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<td>206422</td>
<td><strong>Physics of Phase Behavior in Alkali/Surfactant/Oil/Brine Systems</strong>  &lt;br&gt; H. Saboorian Jooybari, Z. Chen, University of Calgary</td>
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<td>206423</td>
<td><strong>Studies to Develop In-Situ Thermal Foamy Systems as a New Method of Enhanced Heavy Oil Recovery</strong>  &lt;br&gt; A. Mikhailov, SamaraNIPIneft</td>
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<td>206424</td>
<td><strong>A Comprehensive Project of Thermal, Gas and Chemical EOR Method Application for Bazhenov Shale Formation</strong>  &lt;br&gt; A. Ushakova, I. Baykov, A. Kasyanenko, Gazpromneft -Technological Partnerships; A. Cheremisín, Skolkovo Institute of Science and Technology</td>
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<td>206426</td>
<td><strong>Calculation of Graded Viscosity Banks Profile on the Rear End of the Polymer Slug</strong>  &lt;br&gt; S. Tikhomirov, F. Bakharev, A. Enin, K. Kalinin, Yu. Petrova, St. Petersburg University; A. Groman, Gazpromneft -Technological Partnerships; A. Kalyuzhnyuk, Gazpromneft STC</td>
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<td>206427</td>
<td><strong>Evaluation of the Efficiency of Gas Injection at the Central-Khoreyver Uplift Field with the Risk of Asphaltenes Precipitation: Laboratory Studies and Modelling</strong>  &lt;br&gt; E. Sadreev, A. Medvedev, VNIIneft; G. Sansiev, Zarubezhneft</td>
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<td>206428</td>
<td><strong>Determination of Adsorption-Retention Constants and Inaccessible Pore Volume for High-Molecular Polymer</strong>  &lt;br&gt; K. Fedorov, A. Gilmanov, T. Kovalchuk, A. Shevelev, Tyumen State University; T. Pospelova, A. Kobyashev, Tyumen Petroleum Research Center</td>
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<td>206430</td>
<td><strong>A Three-Step Reaction Model for Numerical Simulation of In-Situ Combustion</strong>  &lt;br&gt; A. Rojas, C. Yuan, M. Varfolomeev, V. Sudakov, Kazan Federal University; A. Zarirov, TatNIPIneft; B. Ganeev, Tatneft</td>
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## Technical Session: Well Construction – Drilling and Completion

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| 206437 | The Use of a Sensor Modules System for Measuring Drilling Parameters in a Bit Significantly Reduces the Construction Time of Wells in Eastern Siberia  
| 206438 | 7-Inch Casing While Drilling (CWD) with Retrievable Bottom Hole Assembly (BHA)  
A. Usmanov, A. Shishkin, A. Merzlyakov, D. Karimov, Schlumberger; V. Khlebnikov, Rosneft Upstream Peer Review and Technical Development Center; A. Fedorov, Samaraneftegaz |
| 206439 | Construction of a Multipurpose Exploration Well in the Jurassic Deposits. Subsequent Transfer to Production Enabled by Metal Expandable Barrier Installed Behind the Casing  
I. Lebedev, Weltec; A. Gabdullin, O. Korepin, Weltec Oilfield Services (Rus); S. Novikov, S. Feklenkov, A. Staroshchuk, Arctic LNG-2; E. Bannov, O. Tolstoguzov, NOVATEK STC |
| 206440 | Successful Field Trial of Retrievable, Instrumented and Tandem Downhole Deployment Valve (RIT-DDV) System  
D. Amangeldiyeva, A. Aliyeva, S. Toralde, T. Higginson, Ye. Amanbayev, Weatherford; Yo. Fan, G. Cameron, Tengizchevroil |
| 206441 | Continuous Improvement: Rotary Steerable System with Electromagnetic Telemetry as an Approach to Reduce Well Time  
F. Rakhmangulov, P. Dorokhin, Halliburton |
| 206442 | Application of High-Density Foam Cement to Mitigate the Risk of Annular Channeling and Crossflows in the Production Zones  
A. Fomenkov, I. P-inspired, M. Tsibulskiy, D. Terentyev, Halliburton; A. Fedyanin, Orenburgneft |
| 206443 | Integration and Multi-Segment Collaboration for Overcoming Cementing Challenges in Narrow Pressure Window Environments  
D. Lobastov, S. Nafigova, I. Akhmetzhanov, A. Novosyolov, Schlumberger; I. Melnikov, NDP Chepakovskoe |
| 206444 | Successful Application of Novel Polymeric Clay Inhibitors for Exploration Drilling in the Astrakhan Area  
P. Ryabtsev, S. Popov, A. Korolev, AKROS; A. Akvirlov, A. Evdokimov, Eurokhem |
| 206445 | An Integrated Approach to Efficient Drilling through Unstable Coal Intervals Using Different Types of Mud in the Yamal Region  
A. Kabanov, A. Galimkhanov, A. Kharitonov, Halliburton; R. Mavlyutov, V. Pogurets, Yamal LNG; S. Sokovnin, NOVATEK STC; E. Golovatova, NOVATEK-Tarkosalmeftegaz |
| 206446 | Comprehensive Study of the Lost Circulation while Drilling Fractured Carbonates  
E. Echevarria, Schlumberger |
| 206447 | Hollow Glass Spheres (HGS) in Drilling Fluid: Case Study of Preventing and Mitigating Total Losses  
V. Sherishorin, BP Exploration Operating Company Ltd.; M. Ryance, IXL Consulting; Yu. Tuzov, O. Krokheleva, TYNGD; E. Tikhonov, Baroid; I. Shirakov, Rosneft Upstream Peer Review and Technical Development Center |
| 206448 | Engineering Fluids and Hydraulics to Drill the First Sub-Horizontal Well with Narrow ECD Window in the Eastern Urengoy License Area  
A. Kharitonov, A. Kabanov, A. Matsara, Halliburton; P. Sergeev, ROSPAN INTERNATIONAL; A. Kozyrev, A. Mordyukov, Rosneft Scientific and Technical Center |
| 206449 | Successful Application of Managed Pressure Drilling and Cementing Technology in Naturally Fractured Carbonates Environment on Exploration Wells at Prokhorovskoe Oilfield  
D. Krivolapov, A. Polyarush, Schlumberger; A. Pozdnyakov, LUKOIL-Komi; A. Valisevich, P. Ivanov, LUKOIL |

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<td>206450</td>
<td>Pushing the Limits: Delivering Complex Bilateral ERD Well in Odoptu-More Field, Sakhalin</td>
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<td>A. Shakhova, I. Lebedeva, N. Lisyutina, R. Famiev, D. Marushkin, R. Savinov, A. Dementyev, E. Monakhova, Schlumberger; V. Bochkarev, E. Bolychev, Rosneft; V. Surmin, RN-Sakhalinmorneftegaz</td>
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<td>206451</td>
<td>TAML-3 Multilateral Wells Construction with Multi-Stage Fracturing in Producing Wells</td>
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<td>S. Tuzhilkin, A. Burkov, Baker Hughes; F. Brednev, A. Yastreb, Gazpromneft STC; R. Uchuev, A. Parshakov, R. Zubaydullin, A. Islamov, Gazpromneft-Khantos</td>
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<td>206452</td>
<td>Application of the Advanced Methods to Investigate Incidents and Drilling Engineering Principles to Prevent Critical Wear-Out of Downhole Equipment When Drilling Wells in Chayandinskoye Field</td>
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<td>N. Abaltusov, A. Perunov, A. Ryabov, Weatherford; S. Rublev, Gazpromneft STC; S. Mitrokhin, I. Mukhachev, R. Fomchenko, Gazpromneft-Zapolyarye</td>
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<td>206454</td>
<td>Development and Implementation of the Method of Cementing Production Casing 178 mm with Pressure on the Cement Slurry on the East Part of the Orenburg Oil and Gas Condensate Field</td>
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D. Tokarev, Salym Petroleum Development; A. Ablaev, Skolkovo; D. Tailakov, Laboratory for Fundamentals of Energy Technologies Kutateladze Institute of Thermophysics SB RAS |
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