SPE Arctic & Extreme Environments
Technical Conference & Exhibition

Conference Preview

18 - 20 October 2011

ALL RUSSIA EXHIBITION CENTER, PAVILION 75, MOSCOW, RUSSIA

Extreme Challenges For Exploration & Production

www.arcticoilgas.com
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## REGISTER TO ATTEND SPE ARCTIC AND EXTREME ENVIRONMENTS CONFERENCE AND EXHIBITION

Online registration now open:  
www.arcticoilgas.com

For queries regarding registration, please call:  
+7 (495) 626 46 46

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Official publication  
Oil & Gas Eurasia

Show Supporter  
Издательство ГазоОил Пресс

International Media Supporter  
Offshore Engineer
Dear Colleagues,

The SPE Arctic and Extreme Environments Conference and Exhibition will take place in Moscow on 18-20 October 2011.

The decision by SPE to conduct such an event in Russia has solid foundations: Russia has enormous hydrocarbon resources associated with extreme environments and harsh climatic conditions, in coastal Arctic areas and shelves of the northern seas. The Russian arctic shelf amounts to the equivalent of 100 billion tonnes of oil and its exploitation will continue as long as is required by Russia and the international community.

However, the development of these enormous resources is associated with colossal technical and technological challenges that require solutions to a number of new problems including the development of new and efficient technologies, ways of minimising a negative impact on the environment and the ecosystem as a whole, maximising an industrial safety system and enhancing education systems and professional training and its quality. Finally, hard work from society as a whole, researchers and specialists of the oil and gas industry is required in order to enable participation of local people as active stakeholders to create solutions to all of these problems.

We are very pleased to invite you to participate in this event. We expect industry leaders from around the world and representatives from service companies, international R&D institutions and universities will come to Moscow in order to share their experience with us and to discuss the most important issues that are faced by the Russian and international petroleum industry and science.

This Arctic and Extreme Environments event represents a superb opportunity to showcase the latest technology and debate technical issues across key elements of arctic and extreme environment operations.

We look forward to seeing you at the conference in October.

Brezitsky Sergey Vladimirovich
Executive Vice-President,
TNK-BP Management

Zolotukhin Anatolii Borisovich
Deputy Rector of International Affairs, Doctor of Science, Professor,
Gubkin Russian State University of Oil and Gas;
Member of Russian Academy of Natural Sciences;
VP of World Petroleum Council
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<td>Steering Committee Co-chair, TNK-BP Management</td>
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<td>Zolotukhin Anatolii Borisovich</td>
<td>Steering Committee Co-chair, Gubkin Russian State University of Oil and Gas</td>
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<td>Agaev Gurbat</td>
<td>Statoil ASA</td>
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<td>Audibert-Hayet Annie</td>
<td>Total E&amp;P</td>
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<td>Bates Larry</td>
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<td>Birkeli Trygve</td>
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<td>Shtokman Development AG</td>
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<td>Reed Exhibitions, Raffles Energy Pte Ltd.</td>
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<td>Gubaidullin Marsel Grigorievich</td>
<td>North Arctic Federal University</td>
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<td>Kolbikov Sergey Valentinovich</td>
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<td>Papusha Alexander Nikolaevich</td>
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<td>Surguchev Leonid Mikhailovich</td>
<td>International Research Institute of Stavanger (IRIS)</td>
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<td>Tiebout Han</td>
<td>SBM Offshore</td>
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<td>Tsunevskiy Andrey Yaroslavovich</td>
<td>Gazprom</td>
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### CONFERENCE THEMES

- Exploration and Geology
- Drilling and Well Construction Technology
- Offshore and Onshore Field Development
- Production and Reservoir Management
- Latest Technology and Technical Limits
- Current Challenges of Arctic Offshore and Onshore Projects
- Physical Environment and Human Capabilities for Arctic Field Development
- Safety, Environment and Social Responsibility
- Arctic Pipelines

### REASONS TO ATTEND

- Be a part of the leading technical conference and exhibition covering Arctic and Extreme Environments
- Learn about new and future technologies
- Exchange best practices in dealing with production issues, investing in the development of new technologies and applying innovative methods for managing the business processes
- Meet leading figures from the industry
- Demonstrate your products and services to more than 3000 specialists
- Evaluate the recent market offers
GALA RECEPTION
A Gala reception will take place in the exhibition hall from 18:00 to 21:00 on Tuesday 18 October. By invitation only.

EXHIBITION
The exhibition will host over 80 leading companies from Russia and around the world. For more information see page 16.

TOPICAL BREAKFASTS AND LUNCHEONS
To book to attend breakfasts and luncheons, please visit http://www.arcticoilgas.com/en/Registration/

TOPICAL BREAKFASTS
19 October, Wednesday
Topic: Making Reliability a Given in Extreme-Environment Operations
Speaker: Geir Utstot, Arctic Manager, and Dean Watson, VP Deepwater, Schlumberger

20 October, Thursday
Topic: Beaufort Sea Floating Exploration Drilling – Then and Now
Speaker: Bill Scott, Manager, Arctic Centre, Chevron Canada Ltd

TOPICAL LUNCHEONS
18 October, Tuesday
Topic: Arctic Oil Spill JIP
Speaker: Stein Erik Sorstrom, Program Manager, SINTEF JIP

19 October, Wednesday
Topic: Addressing Arctic Aspirations
Speaker: Mark Shrimpton, Senior Associate, Socio-Economic Services, Santec Consulting Ltd, Canada

KNOWLEDGE SHARING ePOSTER PRESENTATIONS
Over 40 ePoster presentations will be on display in the exhibition hall from 0900 – 1700 hours on each day of the event. For full details of the presentations, please see pages 10-14.
## SCHEDULE OF EVENTS

### DAY 1 – TUESDAY 18 OCTOBER 2011

<table>
<thead>
<tr>
<th>Time</th>
<th>Room 1</th>
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<tbody>
<tr>
<td>0830-1730</td>
<td>Registration (Exhibition open 0900-1800)</td>
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<tr>
<td>1000-1200</td>
<td>Plenary Session 1: Technology Enablers to Meet Challenges of E&amp;P</td>
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<tr>
<td>1200-1330</td>
<td>Lunch / Knowledge Sharing ePoster Presentations (on exhibition floor)</td>
<td>Topical Luncheon 1 (Room 3)</td>
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<tr>
<td>1330-1500</td>
<td>Technical Session 1: Exploration and Geology</td>
<td>Technical Session 2: Drilling and Well Construction Technology 1</td>
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<tr>
<td>1500-1530</td>
<td>Coffee / Knowledge Sharing ePoster Presentations (on exhibition floor)</td>
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<tr>
<td>1530-1700</td>
<td>Technical Session 3: Drilling and Well Construction Technology 2</td>
<td>Technical Session 4: Offshore and Onshore Technology</td>
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<td>1800-2100</td>
<td>Gala Reception</td>
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### DAY 2 – WEDNESDAY 19 OCTOBER 2011

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<td>0900-1030</td>
<td>Topical Breakfast 1 (Room 3)</td>
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<td>1000-1030</td>
<td>Coffee / Knowledge Sharing ePoster Presentations (on exhibition floor)</td>
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<tr>
<td>1030-1200</td>
<td>Plenary Session 2: Future of Arctic Exploration</td>
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<td>1200-1330</td>
<td>Lunch / Knowledge Sharing ePoster Presentations (on exhibition floor)</td>
<td>Topical Luncheon 2 (Room 3)</td>
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<tr>
<td>1330-1500</td>
<td>Technical Session 5: Production and Reservoir Management</td>
<td>Technical Session 6: Latest Technology and Technical Limits</td>
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<tr>
<td>1500-1530</td>
<td>Coffee / Knowledge Sharing ePoster Presentations (on exhibition floor)</td>
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<tr>
<td>1530-1700</td>
<td>Technical Session 7: Current Challenges of Arctic and Onshore Projects</td>
<td>Technical Session 8: Physical Environment and Human Capabilities for Arctic Field Development</td>
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### DAY 3 – THURSDAY 20 OCTOBER 2011

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<tr>
<td>0830-1400</td>
<td>Registration (Exhibition Open 0900-1500)</td>
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<tr>
<td>0900-1000</td>
<td>Topical Breakfast 2 (Room 3)</td>
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<tr>
<td>1000-1030</td>
<td>Coffee / Knowledge Sharing ePoster Presentations (on exhibition floor)</td>
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<tr>
<td>1030-1200</td>
<td>Technical Session 9: Safety, Environment and Social Responsibility</td>
<td>Technical Session 10: Arctic Pipelines</td>
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<td>1200-1330</td>
<td>Lunch / Knowledge Sharing ePoster Presentations (on exhibition floor)</td>
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<tr>
<td>1330-1430</td>
<td>Plenary Session 3: Environment, Safety and Social Responsibility</td>
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PLENARY SESSION 1

Theme: Technology Enablers to Meet Challenges of E&P
Tuesday 18 October, 10:00am - 12:00pm

Moderators: Brezitsky Sergey Vladimirovich, TNK-BP Management
Zolotukhin Anatoli Borisovich, Gubkin Russian State University of Oil and Gas

Vladimir Vladimirov, Vice Governor of YNAO
Michael Borrell, Senior Vice President Continental Europe & Central Asia, Total E&P

«Operating in Extreme Cold conditions: TOTAL’s Experience»

PLENARY SESSION 2

Theme: Future of Arctic Exploration
Wednesday 19 October, 10:30am - 12:00pm

Anatoly Zolotukhin, Gubkin Russian State University of Oil and Gas
«Russian Arctic Petroleum Resources: Challenges and Future Opportunities»

Christian Bukovics, Vice President Exploration Russia and CIS, Shell Exploration and Production Services (RF) B.V.
«Arctic Offshore Exploration - Past Achievements and the Challenges of the Future»

Gro Gunleiksrud Haatvedt, Senior Vice President Exploration Norway, Statoil
«Arctic - A Priority Area for Statoil»

Peter Kiernan, Consultant Editor, Infield Systems, UK
«Offshore Arctic Oil and Gas Activity Profile: Policy and Market Drivers and Restraints to Offshore Hydrocarbons Development in the Arctic»

PLENARY SESSION 3

Theme: Environment, Safety and Social Responsibility.
Thursday 20 October, 1:30pm - 2:30pm

Tatiana Achirgina, Vice-president, Inuit Circumpolar Council, Russia
«The Bering Sea: from the Conflict of Interests to Harmony of Principles of (Reserves & Resources) Development»

Marsel Gubaidullin, North Arctic Federal University
«Innovative Staff Training in NArFU to Solve Problems of Oil and Gas Resources Development in Arctic Zone of Russia»

Alexander Papusha, Professor, Head of Continuum Mechanics & Offshore Exploration Department Murmansk State Technical University

For updates on the plenary sessions, please visit www.arcticoilgas.com

PRESENTATION OVERVIEWS

(Available at time of print)

Operating in Extreme Cold Conditions: Total’s Experience
Michael Borrell, Senior Vice President Continental Europe and Central Asia
Total has been involved for 40 years now in many exploration projects and more recently, in exploitation in cold areas such as Russian tundra (Kharyaga), the Barents sea (Snohvit) or the Canadian plains. New projects such as Shtokman, located in the Barents sea, 500 km offshore; Termokarst; located in Yamalo-Nenets; or Yamal LNG in the Yamal peninsula, are under study in environmentally protected areas with harsh weather conditions (temperature, snow, wind, ice and icebergs, permafrost, polar night, etc.) Numerous challenges have to be faced and require strong technical skills. Anticipating the move towards new frontiers, Total launched R&D studies on operating in extreme cold climate some years ago. The program aimed at identifying technology gaps and proposing solutions that will ensure that our future operations will be fully responsible. With a more active role in different international committees and R&D programs such as OGP and Barents 2020, Total now clearly appears as one of the leaders in the extreme cold projects and R&D studies with European and international operators. With huge hydrocarbon potential, extreme cold areas really concern protected areas with sensitive ecosystems. No universal techniques may be used but need to be adapted to local context; this also requires to reinforce expertise and to build strong partnerships.

Offshore Arctic Oil and Gas Activity Profile: Policy and Market Drivers and Restraints to Offshore Hydrocarbons Development in the Arctic
Peter Kiernan, Consultant Editor, Infield Systems, UK
The presentation will offer an assessment of the current state of play of offshore oil and gas development in the Arctic regions of Russia, US, Canada, Greenland and Norway. It will assess how far offshore Arctic oil and gas development has come and what the prospects are for development in the short to medium term future. The presentation will also assess the drivers and constraints posed by the national policies of governments, and by global oil and gas market dynamics, towards the development of offshore hydrocarbons in the Arctic region. The presentation will take the form of an analysis of four key areas, including resource and reserve estimates in the offshore Arctic region, global oil and gas demand in the Arctic region, an Arctic offshore oil and gas profile, and capital expenditure forecasts for offshore Arctic regions. It will then conclude with an assessment of offshore Arctic oil and gas activity and the growing global need for energy, including an analysis of the drivers and constraints to offshore Arctic regions meeting these needs.
Innovative Staff Training in NARFU to solve Problems of Oil and Gas Resources Development in Arctic Zone of Russia.

Marsel Gubaidullin, Northern (Arctic) Federal University, Arkhangelsk, Russia

One of top-priority tasks for the Northern (Arctic) Federal University (NARFU), is establishing an innovative research and education centre for performing competitive R&D work. This needs to be done in conjunction with using methods and environmentally safe techniques of oil and gas field development in the European North of Russia and the continental Arctic shelf; by focusing on advanced technological developments, solving staff issues and investing required financial resource. This gives engineers a competitive advantage academically but also provides training which develops special competences for companies. Graduated engineers will receive a range of theoretical and experimental knowledge and practical skills with regard to study and description of the hydrocarbon reservoir, experimental and mathematic modeling, scaling of the obtained knowledge matrix results to a specific field with establishment of optimum techniques for its development.

The Bering Sea: from the Conflict of Interests to Harmony of Principles of (Reserves & Resources) Development

Tatiana Achrigina, Vice-President, Inuit Circumpolar Council, Russia

Communities of native minorities of the Russian North need both healthy environment and healthy economy. Development of non-renewable resources shall be performed in a responsible way, and only in this case it will make an important and useful contribution allowing aboriginals of the North to improve the prosperity of current and future generations – both through a private domain (employment, getting salaries, involvement in business) and a public one (tax revenues, development of regional infrastructure, etc.). We encourage cooperation based on equal partnership, using mechanisms of coordination with resource-producing structures, governments and local communities – taking into account basic principles of environmental and social responsibility.

TOPICAL BREAKFAST

Making Reliability a Given in Extreme-Environment Operations

Geir Utskot, Arctic Manager, and Dean Watson, VP Deepwater, Schlumberger

E&P operations in extreme environments are inherently complex. Technological challenges are exacerbated. Logistics are unusually tedious and communications are often unreliable. In fact, almost all factors seemingly conspire to add complexity and increase uncertainty. Reliability at all points becomes a primary goal for the operator, who ideally selects service partners that address this issue using multiple approaches. We present results from a service company initiative that focuses on three major areas—people, process, and technology—to deliver reliability of service quality and technology. Methodology includes global knowledge management that achieves consistency in personnel training and accelerates time to competency, plus implementation of a certification program that ensures competency in specific skills. Standardisation of centres for field support promotes consistency in operations and speeds implementation of process improvements and application of new technologies. Systematic reliability engineering and testing, as well as centralised maintenance and a lean-driven maintenance philosophy, provide efficiency and cost savings. The project-planning process incorporates a unique assessment tool that is used to establish the status of project “readiness” for go and no-go decisions. For a holistic approach, an integrated services project management team promotes overall efficiency and facilitates logistics. During the past five years, application of this process has resulted in a step change in reliability of technologies and in effectiveness and efficiency of the service delivery process for projects taking place in extreme environments around the world. Examples include reduction in lost time/rig month and improvement in other key E&P performance indicators. E&P operations will continue to grow in complexity, targeting prospects in increasingly remote locations and extreme environments. An initiative dedicated to excellence in job execution—which includes tools to identify project risks and uncertainties so that optimal contingency plans formulated before project kick-off—contributes greatly to bringing a project to completion on time and on budget.

TOPICAL LUNCHEON

Addressing Arctic Aspirations

Mark Shrimpton, Senior Associate, Socio-Economic Services, Stantec Consulting Ltd., Canada

This presentation will help companies, who are planning and implementing Arctic activities, learn how to facilitate positive relationships with local people. Mark will review best practice responses to the aspirations and concerns of Arctic Community related to petroleum and mining activity. The presentation will describe and explain typical local expectations and review initiatives that have facilitated resource access in the Arctic and other Northern regions. His talk is based on his work in Canada, Greenland, Norway and Russia.
SESSION 1 - EXPLORATION AND GEOLOGY

Session co-chairs:
Andy Lewis, BP
Adil Mukhitov, Schlumberger

SPE-149909
Experience in Geosteering During Drilling of Horizontal Wells in Conditions of a Saline Reservoir in Eastern Siberia
Anatoly Chashkov, OJSC Verkhnechonskneftegaz (TNK-BP)

SPE-149613
New Technologies Applied in the Acquisition and Processing Over Permafrost Areas in West Siberia
A. Zhukov and Hermann Priebe, TNK-BP Management

SPE-149733
Effective Non-Thermal Heavy Oil Recovery Technology for the Arctic Conditions
Stanislav Oursegov, LUKOIL; Vladimir Lysenko, RITEK

SPE-149203
1000 km of Under Ice Seabed Survey with an AUV
Richard Milns, James Ferguson and Jean-Marc Lathamboise, ISL Ltd.

SESSION 2 - DRILLING AND WELL CONSTRUCTION TECHNOLOGY 1

Session co-chairs:
Eric Limon, TNK-BP
Han Tiebout, SBM Offshore

SPE-149762
Multilateral Wells Reduce Capex and Opex of Gas Development in Russia’s Arctic in Environmentally Responsible Way
Rene Querquyn and Andreas Grossmann, Halliburton

SPE-149629
Geometric Referencing in the Arctic Environment
Benny Poedjono, Schlumberger; Carol Finn and Bill Worthington, USGS

SPE-149740
Methodology to Assess Thaw Subsidence Impacts on the Design and Integrity of Oil and Gas Wells in Arctic Regions
Jueren Xie and Cameron Matthews, C-FER Technologies

KNOWLEDGE SHARING ePOSTER PRESENTATIONS

SPE-149910
Differential-Normalized Electrical Exploration Method (DNEEM) - An Effective Tool of Searching for Hydrocarbons Onshore and Offshore
Peter Legeido, CJSC «SGNPK»

SPE-149911
Application of Modern Techniques for Predicting Reservoir Porosity and Permeability Based on Seismic Data for Fields Located in Difficult Geological Conditions
Ilmir Khamtul, TNMC LLC (TNK-BP); Yekaterina Marchenko, TNK-BP

SPE-148676
Informational Advantages and Accuracy Characteristics of the Adaptive Well Log Data Interpretation
Ivan Deshenenkov, Dmitry Kozhevnikov and Kazimir Kovalenko, Gubkin Russian State University of Oil & Gas

SPE-149912
Establishment of Research and Practical Base of JSC Gazprom Neft in Connection with the Preparation to Develop the Russian Arctic Shelf
Vasily Ananiev and Dmitry Komissarov, Gazprom Neft NTC LLC

SPE-149630
Case Study: Top of Cement Isolation in Subsea Field Development for Well Integrity
Terje Abrahamsen, Halliburton-Easywell; Ottar Larsen, BP

SPE-148985
JBF Arctic - a Mobile Offshore Drilling Unit for Severe Arctic Conditions
Alexei Bereznitski and Dieter Wilkening, Huisman BV

SPE-148859
Abandonment of Offshore Exploration Wells using a Vessel Deployed System for Cutting and Retrieval of Wellheads
Arild Saasen, Sturla Wold, Odd-Inge Sorheim, Bjorn Ribesen and Trond Svirstyen, Det Norske Oljeselskap ASA; Nhat Tu Tran, DNV; Dan Pedersen, Ove Fjerg and Jarle Vesperstad, Odfjell Well Management; Oystein Kanestrom, Erling Wigg and Thomas Breien, Norse Cutting & Abandonment

SPE-149584
New well foundation concept, as used at the Dovregubben well
Trond Svirstyen, Det Norske Oljeselskap ASA; Harald Strand, NeoDrill

SPE-149720
Estimating Friction Reduction for casing operations in high angle wells in the Arctic region - a Russia case history
Chimerebere Nkwochi, GeoPro Technology Ltd; Eugene Glebov; Alexey Zhidlov; Sergey Gortonov; David Kay, Teree Oilfield Products

SPE-149568
Implications of using gas precharged accumulators in cold ultra deepwater environments
Paul Potter, Ocean Riser Systems; Illb Allwood, The Society for Underwater Technology
**SESSION 3 - DRILLING AND WELL CONSTRUCTION TECHNOLOGY 2**

**Session co-chairs:**
- Eric Liron, TNK-BP
- Han Tiebout, SBM Offshore

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<th>Title</th>
<th>Authors</th>
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<tr>
<td>SPE-149913</td>
<td>Solution of complex tasks during implementation of a project for construction, survey and testing of exploration wells in Kriniky Block on the Sakhalin shelf.</td>
<td>Paul Tsemkalo, D.A. Sorokin and S. Zorina, Gazflot LLC; A. Zaprometov and K.E. Kuptsov, Schlumberger</td>
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<tr>
<td>SPE-149687</td>
<td>Hindered Strength Development in Oilwell Cement due to Low Curing Temperature Lorentz Reinars, StatOil; Helge Hodne, University of Stavanger; Vibeke Henriksen, University of Stavanger</td>
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<td>SPE-149719</td>
<td>Reliability of Extended-Season Exploration, Construction and Export Activity in the Arctic</td>
<td>Alex Bound, Tom Morrison, Paul Spencer, Mohamed El-Seify and Harry King, Ausenco Sandwell</td>
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**KNOWLEDGE SHARING ePOSTER PRESENTATIONS**

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<tr>
<td>SPE-149569</td>
<td>Deep-Water Salvage Operation</td>
<td>Paul Potter, Ocean Riser Systems; Renzo Cesaroni, Cesaroni Consultants SRL</td>
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<td>SPE-149699</td>
<td>Wellbore Anti-Collision Safety: Separation Distances Must Be Increased Due To Degraded Positioning Accuracy In Northern Areas</td>
<td>Jon Bang and Torgeir Torkildsen, SINTEF Petroleum Research</td>
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<td>SPE-149707</td>
<td>Aluminium drill pipe in Arctic application - well known tool changing the development strategy</td>
<td>Alexey Vakhrushev, Aquatic Company</td>
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<td>SPE-149715</td>
<td>The Oil Based Mud Formulation Improvement To Reduce ERD Drilling Risks In The Arctic Conditions</td>
<td>Dmitry Valuev and Stanislav Usynin, M-I SWACO; Roman Voronin, Nova Energy Services LLC</td>
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<td>SPE-149627</td>
<td>High Performance KO-Based Mud Provides Outstanding Drilling Performance in Kyrtael, Komi Republic, Russia</td>
<td>Andrey Khartunov, Dmitry Zapotylyok and Natalia Collins, Halliburton; Mikhail Chertenkov, Lukoil-Komi</td>
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<td>SPE-149914</td>
<td>VAMS Family Dope-Free Solution (CLEANWELL) for Tubing and Casing Premium Connections. Experience of application in Russia.</td>
<td>Katsutoshi Sumitani, Masayoshi Sasaki, and Yasuhiro Yamamoto, Sumitomo Metal Industries</td>
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**SESSION 4 - OFFSHORE AND ONSHORE TECHNOLOGY**

**Session co-chairs:**
- Knut Aaneland, NorthEnergy
- Sergey Kolbikov, Novatek

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<th>Paper ID</th>
<th>Title</th>
<th>Authors</th>
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</thead>
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<tr>
<td>SPE-149574</td>
<td>The Challenges of Russian Arctic Projects</td>
<td>Richard Barnes, Energol Consulting Ltd.</td>
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<tr>
<td>SPE-149916</td>
<td>Assessment of Capital Expenditures for Construction of Offshore Oil-Producing Facilities in the Arctic Region</td>
<td>Sergey Nekhaev, Kristina Sevastianova, Mikhail Kuznetsov and Peter Tarasov, RN-SakhalinNIPmorneft</td>
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<tr>
<td>SPE-149917</td>
<td>Approaches to Development of Gas and High-Viscosity Oil Fields in Arctic Conditions Using the Example of the Russian Field</td>
<td>Inna Edelman, CJSC TNK-BP Management; Iskander Zakirov, CJSC Rospan International (TNK-BP); Alexander Shandrygin, Colin Bruce and Egor Makarov, CJSC TNK-BP Management; Nikolai Ivantsov, TNNC LLC (TNK-BP)</td>
</tr>
<tr>
<td>SPE-149918</td>
<td>Algorithm for Optimization of Well Placement at an Offshore Gas Reservoir</td>
<td>Ilya Estafiev, Alexander Semenov, Roman Akimov and Yekaterina Golichenko, Gazprom VNIGAZ LLC</td>
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**KNOWLEDGE SHARING ePOSTER PRESENTATIONS**

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<tr>
<td>SPE-149919</td>
<td>Basic Principles of Continuous Scientific Support of Field Development in Difficult Geological Conditions</td>
<td>Alexander Timchuk, Azat Sunagatullin and Sergey Sokolov, TNNC LLC (TNK-BP)</td>
</tr>
<tr>
<td>SPE-149920</td>
<td>Stochastic Methods for Assessing Efficiency of Projects for Exploration and Development of Fields in the Arctic shelf</td>
<td>Kristina Sevastianova, Mikhail Kuznetsov, Peter Tarasov and Sergey Nekhaev, RN-SakhalinNIPmorneft</td>
</tr>
<tr>
<td>SPE-149654</td>
<td>Potential For Oil And Gas Projects In The New Oil And Gas Province Shared Between Russia And Norway</td>
<td>Maria Bulakh, Gubkin Russian State University of Oil &amp; Gas; Anatoly Zolotukhin, Gubkin Russian State University of Oil &amp; Gas; Ove Gudmestad, University of Stavanger</td>
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<tr>
<td>SPE-149921</td>
<td>Problems of Hydrocarbon Cross Flow Between Subsurface Areas When Gas Condensate Reservoirs Are Developed by Several Subsurface Users</td>
<td>Sergey Romashkin, CJSC Rospan International (TNK-BP); Iskander Mukminov and Alexander Ignatiev, CJSC TNK-BP Management; Anton Yushkov and Alexey Shapiev, TNNC LLC (TNK-BP)</td>
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<td>SPE-149922</td>
<td>Experience in the Application of Systems for Measurement of Multi-Phase Flow Parameters</td>
<td>Alexander Lamukhin and Sergey Romashkin, CJSC Rospan International (TNK-BP); Vladimir Afnasiev, Schlumberger Logelco Inc.</td>
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<tr>
<td>SPE-149537</td>
<td>Breaking the Frontiers for Effective Flow Assurance Using Integrated Asset Models (IAM)</td>
<td>Charles Okafor, Schlumberger</td>
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<tr>
<td>SPE-149638</td>
<td>Integrated Operations Centres to optimize the management of distant fields</td>
<td>Ashot Mosesyan, Petroleum Technologies (PETEC); Leonid Surguchev, Inti Research Inst of Stavanger; Henrik Larsen, EPSIS AS; Sergey Nagorny, Petroleum Technologies (PETEC)</td>
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Correct as of 14 of June 2011
SESSION 5 - PRODUCTION AND RESERVOIR MANAGEMENT

Session co-chairs:
Dr. Dan Fu, Program Manager, Schlumberger Novosibirsk Technology Center
Gurbat Agaev, Statoil ASA

SPE-149716
How Recent PLT Results in Horizontal, Commingled Reservoir, Wells Drive Smart-Well Implementation & Field Redevelopment
Mike Sumrow and Andre De Wit, Sakhalin Energy Investment Company; Alexey Yakovlev, Sakhalin Energy; Nikolay Matusevich, Sakhalin Energy Investment Company; Gero Janssen and Dmitry Pavlov, SEIC; Oxana Urzakovskaya, Dmitry Smirnov and Hans Visser, Sakhalin Energy Investment Company

SPE-149765
Arctic Drilling Operations Planning and Execution: Feedback from Kharyaga Field, Russia
Howard Fletcher, Total

SPE-149924
Modeling of Process Operations on Multiple-Zone Wells
Evgeniy Yudin and Alexander Lubnin, RN-Yuganskneftegaz

SPE-149678
EOR Methods: Applicability Analysis for Heavy Oil Reservoirs under Polar Circle Conditions
Maria Sverovskaya, Rospan International

 Session 6 - LATEST TECHNOLOGY AND TECHNICAL LIMITS

Session co-chairs:
Andrey Tsunevsky, Gazprom
Lukasz Ostrowski Baker Hughes

SPE-149928
Experience in Development and Application of Arctic Plugging Systems for Casing Cementing in Permafrost Rock Intervals at Gas and Condensate Fields
Alexey Korosteleye, OJSC Gazprom, TsumenOilNizhnebshkneft LLC

SPE-149929
Development and Implementation of an Integrated Approach to Identifying Kick Sources in Annular Space of Wells (Case Study: Yu.Korchagin Offshore Oil, Gas and Condensate Field)
Dmitry Semkin and Andrey Zhakovshchikov, LUKOIL-Nizhnebshkneft LLC

SPE-149635
Snake-Arm Robots for Remote Inspection and Maintenance of High Value Assets
Benjamin Quinn and Rob Buckingham, OC Robotics

SPE-149671
Subsurface Drill Platforms
Robert Trent and Hughes, H2T

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SPE-148827
Well Placement Optimization at Yak3-7 Reservoir on the Vankor field
Andrey Semenov, ROSNEFT

SPE-149651
Samotlor: Implementation of Real Time Production Optimization Process for the Largest Russian Oil Field
Eduard Muslimov, Sergey Shevchenko, Dmitry Mironov and Roman Pchelnikov, TNK-BP; Danila Kondakov, Modeling Technologies Center; Andrey Gladkov, ModelTech

SPE-149724
Significant Production Improvement Through Effective Well and Reservoir Management On Sakhalin Energy’s Astokh Field
Marat Yambayev, Sakhalin Energy; Malcolm Jones and David Brown, Shell; Alexander Kovalev, SEIC; Kenny Forest, Shell

SPE-149717
Completion and Start-Up Experience of the First Smart Water Injection Wells in Piltun Field, Waterflood Operations Offshore Sakhalin Island
Michael Sumrow, Sakhalin Energy; Andre De Wit, Sakhalin Energy Investment Company; Alexey Yakovlev, Sakhalin Energy; Nikolay Matusevich and Ivan Makropoulo, Sakhalin Energy Investment Company

SPE-149925
Multi-stage Hydraulic Fracturing in Horizontal Wells as a Method for Effective Development of Gas Condensate Fields in the Arctic Region
Iskander Mukminov, Alexander Ignatiev, Evgeniya Vikulova and Roman Pepelyayev, OJSC TNK-BP Management

SPE-149926
Approach for Full Field Scale Smart Well Modeling and Optimization
Alexey A. Khrulenko, Gubkin Russian State University of Oil and Gas

SPE-149927
New Approaches to Improving Economical Efficiency of Oil and Gas Condensate Reservoir Development
Anton Yushkov and Alexander Romanov, TNNC LLC (TNK-BP); Iskander Mukminov and Alexander Ignatiev, OJSC TNK-BP Management; Sergey Romashkin, CJSC Rospan International (TNK-BP)
19 OCTOBER, WEDNESDAY
15.30-17.00

SESSION 7 - CURRENT CHALLENGES OF ARCTIC OFFSHORE AND ONSHORE PROJECTS

Session co-chairs:
Leonid Surguchev, International Research Institute of Stavanger (IRIS)
Mikhail Kuznetsov, Rosneft

SPE-149930
Interface of an Offshore Gravity-based Oil and Gas Producing Platform with a Subgrade
Alexander Papusha, D.Gontarev, MSTU (Murmansk State Technical University)

SPE-149582
Arctic Drilling System for Water Depths from 50 - 500 meters - Selection Process
Richard Simpson, BP

SPE-149585
Lessons Learned From Fifty Years of Operating in the Arctic
Curtis Wendler and Amit Sharma, Halliburton

SPE-149655
Strategy Of The Kara Sea Oil And Gas Field Development And Evaluation Of Economy Uncertainties
Maria Bulakh and Anatoliy Zolotukhin, Gubkin Russian State University of Oil & Gas; Ove Gudmedstad, University of Stavanger

SESSION 8 - PHYSICAL ENVIRONMENT AND HUMAN CAPABILITIES FOR ARTIC FIELD DEVELOPMENT

Session co-chairs:
Marsel Gubaidullin, North Arctic Federal University
Annie Audibert-Hayet, Total E&P

SPE-149933
Permafrost Rocks and Other Hazardous Engineering-Geological Processes and Phenomena on the Shelf of Arctic Seas
Konstantin Kornishin, RN-SakhalinNIPimomeft; Yaroslav Elimov, Gubkin Russian State University of Oil & Gas

SPE-149712
Risks Management In Russian Offshore Geotechnical Prospecting
Ove Gudmestad, University of Stavanger

SPE-149634
Developing Professional Capability for Russia’s Arctic Offshore
Paul Mcmorran, INTEGRA

KNOWLEDGE SHARING ePOSTER PRESENTATIONS

SPE-149931
Vibration of Structures Under the Action of Ice (Numerical modeling of stationary structures vibration under the action of ice)
Karl Shkhinek and Alexander Zhilenkov, Saint Petersburg Polytechnical University; Graham Thomas and Richard Gebson, BP

SPE-149725
Liquefied Natural Gas and Oil Rm Development in Severe Sub-Arctic Conditions
Igor Ivantsiv, Sakhalin Energy Investment Company; Jeroen Webers, Shell; Abdullah Alhadhrami, Sakhalin Energy Investment Company; Arne Boersheim, Sakhalin Energy

SPE-14932
Mathematical Modeling of Behavior of Floating Anchored Objects Under the Action of Flat or Ritted Ice
Karl Shkhinek, Alexander Bolshev and Sergey Frolov, Saint Petersburg State Polytechnical University

KNOWLEDGE SHARING ePOSTER PRESENTATIONS

SPE-149551
Detection of Oil Below Ice in Arctic scenario: Performance Analysis of Radar Sounder System
Maria Rosaria Santovito, CO.RI.S.T.A.; Francesco Giordani, Thales Alenia Space; Giovanni Alberti and Stefania Mattei, CO.RI.S.T.A.; Emanuele Stolfi, Thales Alenia Space

SPE-149934
New Model for Training of Environmental Safety Specialists for Oil Production and Transport in Arctic Conditions
Alexander Khustov and Margarita Redina, Peoples’ Friendship University of Russia

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## SESSION 9 - SAFETY, ENVIRONMENT AND SOCIAL RESPONSIBILITY

**Session co-chairs:**
Marsel Gubaidullin, North Arctic Federal University  
Annie Audibert-Hayet, Total E&P

**SPE-149711**  
Environmental Baseline Research in Support of Exploration Activities in the Canadian Arctic  
Cynthia Pye, BP Exploration Operating Company Limited

**SPE-149935**  
The Establishment of an Emergency Rescue Support System for Exploration Targets, Hydrocarbon Production Sites and Marine Transport Facilities in the Arctic Region  
Sergey Gubkin and Victor Ilyukhin, Association for Development of Search and Rescue Equipment and Technologies (NO ARPSTT)

**SPE-149721**  
Key Lessons in Social Engagement and Impact Assessment in the Arctic  
Kim Swanzey and Anne Southam, ERM

**SPE-149575**  
Drilling Waste Handling in Challenging Offshore Operations  
Torgirm Svensen and Knut Taugbol, Statoil

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## KNOWLEDGE SHARING ePOSTER PRESENTATIONS

**SPE-149738**  
Oilfield Product Development For Arctic Regions Has Unique HSE Challenges  
Bethicia Prasek, Stephen Rabke, Nathan Rife, Tim Johnson, Ingrid Helland and Yvind Karlbom, M-I SWACO

**SPE-149731**  
Hunting Black Swans in Arctic Environments  
Philip Liguori, EmbarkOnIt Inc.

---

## SESSION 10 - ARCTIC PIPELINES

**Session co-chairs:**
Don MacIntyre, ERM  
Alexander Papusha, MSTU (Murmansk State Technical University)

**SPE-149936**  
Control of Subsea Multi-phase Product Gathering and Transport Systems in the Arctic Shelf of Russia  
Alexander Papusha, A. Nankin, MSTU (Murmansk State Technical University)

**SPE-149937**  
Experience in Offshore Pipeline Design for Development of Arctic Offshore Fields  
Tatyana Lapteva, Gazprom VNIIGAZ LLC

**SPE-149938**  
Trenching of Pipelines for Protection in Ice Environments  
Dr. Mike Paulin and Damien Humby, INTECEA

**SPE-149581**  
Offshore Pipeline Installation in Arctic Environment  
Frank Lange, Kees Van Zandeijk and Jan Van Der Graaf, Heerema Marine Contractors

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Chevron
Commercial Finnish Pavilion
Commercial Norwegian Pavilion
DC Eurasia
Edwards Oil Tools
Engineering practice
Epak-Service
ERM

Gas Industry
ION
KV Avangard
Murmanshel
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Upstream
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Trolley buses No. 14, 48, 76
Trams No. 11, 17

MAP OF THE ENTRANCE TO THE ALL RUSSIA EXHIBITOR CENTER

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Or contact Anna Kim, tel: +7 812 703 44 00
E-mail: anna.kim@russkie-prostori.com

OFFICIAL HOTELS*

<table>
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<tr>
<th>Hotel</th>
<th>Single room inc breakfast</th>
<th>Double room inc breakfast</th>
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<tr>
<td>Holiday Inn Suschevsky ****</td>
<td>8 980</td>
<td>9 680</td>
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<tr>
<td>Cosmos ****</td>
<td>4 500</td>
<td>4 950</td>
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<tr>
<td>Renaissance Hotel ****</td>
<td>upon request</td>
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* Rates are indicated in rubles per room per night including VAT

Please visit http://www.arcticoilgas.com/en/Venue-and-Accommodation/Accommodation/ to view booking terms and conditions for these and other hotels.

BUSES
Buses – a free bus service will be provided from the following hotels to the exhibition centre on each day of the event: Holiday Inn Suschevsky, Cosmos and Renaissance
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If you have any questions regarding registration please call: +7 (495) 626 46 46

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<th>REGISTRATION TYPE</th>
<th>Euros</th>
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<td>460</td>
<td>542.8</td>
<td>18 500</td>
<td>21 830</td>
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| • Access to all sessions during the 3 days of the Conference  
• Conference proceedings  
• Invitation to the Gala Reception |
| Conference Delegate (SPE Member) | 375 | 442.5 | 15 100 | 17 818 |
| • Access to all sessions during the 3 days of the Conference  
• Conference proceedings  
• Invitation to the Gala Reception |
| Author/Speaker/Chairman/Committee | 220 | 259.6 | 8 900 | 10 502 |
| • Access to all sessions during the 3 days of the Conference  
• Conference proceedings  
• Invitation to the Gala Reception |
| Day Delegate (non SPE Member) | 340 | 401.2 | 13 700 | 16 166 |
| • Access to all sessions during 1 day of Conference, day optional  
• Conference proceedings |
| Day Delegate (SPE Member) | 240 | 283.2 | 9 700 | 11 446 |
| • Access to all sessions during 1 day of Conference, day optional  
• Conference proceedings |
| Student | | Entry free of charge.  
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Valid student ID required. |
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Registration required. |
| • Access to the exhibition only |
| Exhibitor | | | | |
| • Access to the exhibition hall – see Schedule of Events, page 7 |
| Topical Breakfast 1  
(19 October, Topic: Making Reliability a Given in Extreme-Environment Operations) | 60 | 70.8 | 2 400 | 2 832 |
| Topical Breakfast 2  
(20 October, Topic: Beaufort Sea Floating Exploration Drilling – Then and Now) | 60 | 70.8 | 2 400 | 2 832 |
| Topical Luncheon 1  
(18 October, Topic: Arctic Oil Spill JIP) | 70 | 82.6 | 2 800 | 3 304 |
| Topical Luncheon 2  
(19 October, Topic: Addressing Arctic Aspirations) | 70 | 82.6 | 2 800 | 3 304 |
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To register to attend topical breakfasts and luncheons, please select the option in the online registration form.

Topical Breakfasts:
19 October, Wednesday
Topic: Making Reliability a Given in Extreme-Environment Operations
Speaker: Geir Utskot, Arctic Manager, and Dean Watson, VP Deepwater, Schlumberger

20 October, Thursday
Topic: Beaufort Sea Floating Exploration Drilling – Then and Now
Speaker: Bill Scott, Manager, Arctic Centre, Chevron Canada Ltd

Topical Luncheons:
18 October, Tuesday
Topic: Arctic Oil Spill JIP
Speaker: Stein Erik Sorstrom, Program Manager, SINTEF JIP

19 October, Wednesday
Topic: Addressing Arctic Aspirations
Speaker: Mark Shrimpton, Senior Associate, Socio-Economic Services, Santec Consulting Ltd, Canada

COMPLIMENTARY STUDENT REGISTRATIONS

There will be a limited number of complimentary places available to students to attend the event. Further details are available on the event website: www.arcticoilgas.com

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