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

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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**

**Show Supporter**
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, Gubkin Russian State University of Oil and Gas</td>
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<td>North Arctic Federal University</td>
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CONFERENCE OVERVIEW

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 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

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

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<tr>
<th>Time</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) / Topical Luncheon 1 (Room 3)</td>
<td>Technical Session 2: Drilling and Well Construction Technology 1</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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<tr>
<td>0830-1630</td>
<td>Registration (Exhibition Open 0900-1700)</td>
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<tr>
<td>0900-1000</td>
<td>Topical Breakfast 1 (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>Plenary Session 2: Future of Arctic Exploration</td>
<td>Technical Session 6: Latest Technology and Technical Limits</td>
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<tr>
<td>1200-1330</td>
<td>Lunch / Knowledge Sharing ePoster Presentations (on exhibition floor) / Topical Luncheon 2 (Room 3)</td>
<td>Technical Session 8: Physical Environment and Human Capabilities for Arctic Field Development</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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<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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<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>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 SESSIONS,
PRESENTATION OVERVIEWS

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 Anatolii 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 Achipigina, 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
Innovative Staff Training in NARFU to solve Problems of Oil and Gas Resources Development in Arctic Zone of Russia.

Marsel Guibaudillin, 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 mathematical 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 Achirgina, 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.

TOPOCAL BREAKFAST

Beaufort Sea Floating Exploration Drilling —Then and Now

Bill Scott, Manager, Arctic Center, Chevron Canada Limited

The presentation will address the successful history of offshore Arctic floating exploration drilling in the Canadian Beaufort Sea from the mid 1970s till the end of the 1980s — a period in which 38 wells were drilled from floating drilling systems. The various drilling systems (drilling rigs and marine support fleets) will be discussed along with many of the key insights and knowledge gained during this period. This experience remains unique to the present day and provides a firm foundation for the challenges as industry moves to deeper water in the Beaufort Sea and other Arctic basins around the world. Some of the key challenges associated with the current phase of Arctic exploration drilling will be addressed, and how past experience can address and overcome these challenges.

TOPOCAL 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.
18 OCTOBER, TUESDAY
13.30-15.00

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 Prieb, 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 Mills, James Ferguson and Jean-Marc Lafraimboise, ISL Ltd.

SESSION 2 - DRILLING AND WELL CONSTRUCTION TECHNOLOGY 1

Session co-chairs:
Eric Linon, 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 Quengruen and Andreas Grossmann, Halliburton

SPE-149629
Geomagnetic 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
A. Khämmitim, TNM LLC (TNK-BP); Ekaterina 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 Wijning, Huisman BV

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

SPE-149584
New well foundation concept, as used at the Dovregubben well
Trond Sivertsen, 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
Chimererebere Nkwocha, Geopro Technology Ltd; Evgeny Glebov; Alexey Zhudov; Sergey Galantsev; David Kay, Tercel Oilfield Products

SPE-149568
Implications of using gas precharged accumulators in cold ultra deepwater environments
Paul Potter, Ocean Riser Systems; Bob Allwood, The Society for Underwater Technology

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18 OCTOBER, TUESDAY
15.30-17.00

SESSION 3 - DRILLING AND WELL CONSTRUCTION TECHNOLOGY 2

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

SPE-149913
Solution of complex tasks during implementation of a project for construction, survey and testing of exploration wells in Krininsky Block on the Sakhalin shelf.
M.L. Tsemkalo, D.A. Sorokin and S. Zorina, Gazflot LLC; A. Zaprometov and K.E. Kuptsov, Schlumberger

SPE-149687
Hindered Strength Development in Oilwell Cement due to Low Curing Temperature
Lorents Reinas, Statoil; Helge Hodne, University of Stavanger; Vibekhe Henriksen, University of Stavanger

SPE-149719
Reliability of Extended-Season Exploration, Construction and Export Activity in the Arctic
Alex Baud, Tom Morrison, Paul Spencer, Mohamed El-Seify and Harry King, Ausenco Sandwell

SESSION 4 - OFFSHORE AND ONSHORE TECHNOLOGY

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

SPE-149574
The Challenges of Russian Arctic Projects
Richard Barnes, Energol Consulting Ltd.

SPE-149916
Assessment of Capital Expenditures for Construction of Offshore Oil-Producing Facilities in the Arctic Region
Sergey Nekhaev, Kristina Sevastianova, Mikhail Kuznetsov and Peter Tarasov, RN-SakhalinNIPmorneft

SPE-149917
Approaches to Development of Gas and High-Viscosity Oil Fields in Arctic Conditions Using the Example of the Russkoe Field
Inna Edelman, CJSC TNK-BP Management; Iskander Zakirov, CJSC Rospan International (TNK-BP); Alexander Shandrygin, Colin Bruce and Egor Makarov, OJSC TNK-BP Management; Nikolai Ivantsov, TNNC LLC (TNK-BP)

SPE-149918
Algorithm for Optimization of Well Placement at an Offshore Gas Reservoir
Ilya Estafiev, Alexander Semenov, Russian Akhmetov and Yekaterina Golichenko, Gazprom VNIGAZ LLC

KNOWLEDGE SHARING ePOSTER PRESENTATIONS

SPE-149569
Deep-Water Salvage Operation
Paul Potter, Ocean Riser Systems; Renzo Cesaroni, Cesaroni Consultants SRL

SPE-149699
Wellbore Anti-Collision Safety: Separation Distances Must Be Increased Due To Degraded Positioning Accuracy In Northern Areas
Jon Bang and Torgeir Torkildsen, SINTEF Petroleum Research

SPE-149707
Aluminium pipe in Arctic application - well known tool changing the development strategy
Alexey Vakhрушев, Aquatic Company

SPE-149715
The Oil Based Mud Formulation Improvement To Reduce ERO Drilling Risks In The Arctic Conditions
Dmitry Valuev and Stanislav Usynin, M-I SWACO; Roman Voronin, Nova Energy Services LLC

SPE-149627
High Performance KO-Based Mud Provides Outstanding Drilling Performance in Kyrtael, Komi Republic, Russia
Andrey Khartonov, Dmitry Zapotylok and Natalia Collins, Halliburton; Mikhail Chertenkov, Lukoil-Komi

SPE-149914
VAP5 Family Dope-Free Solution (CLEANWELL) for Tubing and Casing Premium Connections. Experience of application in Russia.
Katsuoshi Sumitani, Masayoshi Sasaki, and Yasuhiro Yamamoto, Sumitomo Metal Industries

SPE-149919
Basic Principles of Continuous Scientific Support of Field Development in Difficult Geological Conditions
Alexander Timchuk, Azat Sunagatullin and Sergey Sokolov, TNNC LLC (TNK-BP)

SPE-149920
Stochastic Methods for Assessing Efficiency of Projects for Exploration and Development of Fields in the Arctic shelf
Kristina Sevastianova, Mikhail Kuznetsov, Peter Tarasov and Sergey Nekhaev, RN-SakhalinNIPmorneft

SPE-149654
Potential For Oil And Gas Projects In The New Oil And Gas Province Shared Between Russia And Norway
Maria Bulakh, Gubkin Russian State University of Oil & Gas; Anatoly Zolotukhin, Gubkin Russian State University of Oil & Gas; Ove Gudmestad, University of Stavanger

SPE-149921
Problems of Hydrocarbon Cross Flow Between Subsurface Areas When Gas Condensate Reservoirs Are Developed By Several Subsurface Users
Sergey Romashkin, CJSC Rospan International (TNK-BP); Iskander Mukminov and Alexander Ignatiev, CJSC Rospan International (TNK-BP); Anton Yushkov and Alexei Shapiev, TNNC LLC (TNK-BP)

SPE-149922
Experience in the Application of Systems for Measurement of Multi-Phase Flow Parameters
Alexander Lomukhin and Sergey Romashkin, CJSC Rospan International (TNK-BP); Vladimir Afnansiev, Schlumberger Logelco Inc.

SPE-149537
Breaking the Frontiers for Effective Flow Assurance Using Integrated Asset Models (IAM)
Charles Okfor, Schlumberger

SPE-149638
Integrated Operations Centres to optimize the management of distant fields
Ashot Mosesyan, Petroleum Technologies (PETEC); Leonid Surguchev, Intl Research Inst of Stavanger; Henrik Larsen, Epsis AS; Sergey Nagornaev, Petroleum Technologies (PETEC)

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 Dmitriy Pavlov, SEIC; Oxana Urazovskaya, 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
Modelling of Process Operations on Multiple-Zone Wells
Evgeniy Yudin and Alexander Lubrin, RN-Yuganskneftegaz

SPE-149678
EOR Methods Applicability Analysis for Heavy Oil Reservoirs under Polar Circle Conditions
Maria Svarovskaya, 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 Gas Condensate Fields
Alexey Korostelov, OJSC Gazprom, TyumenNIIgiprogaz 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 Semikin and Andrey Zhakovshchikov, LUKOIL-Nizhnevolzhskneftegaz LLC

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

SPE-149615
Samadit: Implementation of Real Time Production Optimization Process for the Largest Russian Oil Field
Edward Muslimov, Sergey Shevchenko, Dmitry Mironov and Roman Pshethnikov, TNK-BP; Danila Kondakov, Modeling Technologies Center; Andrey Gladikov, ModelTech

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

SPE-149717
Completion and Start-Up Experience of the First Smart Water Injection Wells in Flitun Field, Waterflooding Operations Offshore Sakhalin Island
Michael Sumrow, Sakhalin Energy; Andre De Wit, Sakhalin Energy Investment Company; Alexey Yakovlev, Sakhalin Energy; Nikolay Matusevich and Ivan Mairopov, 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
Ilsander Mukminov, Alexander Ignatiev, Evgeniya Vukoiva and Roman Pepelyaev, OJSC TNK-BP Management

SPE-149926
Approach for Full Field Scale Smart Well Modeling and Optimization
Alexey A. Khruzenko, 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); Ilsander 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 Surgyuchev, 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  
Marina Bulakh and Anatoli Zolotukhin, Gubkin Russian State University of Oil & Gas; Ove Gudmenstad, University of Stavanger

### 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**  
Lumskaya, a Very Large Combined Gas and Oil Rim Development in Severe Sub-Arctic Conditions  
Igor Ivanov, Sakhalin Energy Investment Company; Jeroen Webers, Shell; Abdullah Alhadhrami, Sakhalin Energy Investment Company; Arne Boersheim, Sakhalin Energy

**SPE-149932**  
Mathematical Modeling of Behavior of Floating Anchored Objects Under the Action of Flat or Riggled Ice  
Karl Shkhinek, Alexander Bolshev and Sergey Frolov, Saint Petersburg State Polytechnical University

### SESSION 8 - PHYSICAL ENVIRONMENT AND HUMAN CAPABILITIES FOR ARCTIC 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  
Vladimir Bondarev and Andrey Lottiuk, DISC AMIGE

**SPE-149712**  
Risks Management In Russian Offshore Geotechnical Prospecting  
Konstantin Kornishin, RN-SakhalinNIPimomeft; Yaroslav Elmov, Gubkin Russian State University of Oil & Gas

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

### 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 Khaustov and Margarita Redina, Peoples’ Friendship University of Russia

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Correct as of 14 of June 2011
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 ARPSSTT)

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
Torgrim Svensen and Knut Taugbol, Statoil

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 VNIGAZ LLC

SPE-149938
Trenching of Pipelines for Protection in Ice Environments
Dr. Mike Paulin and Damien Huntby, INTECSEA

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

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 Heiland and Yvind Karlbom, M-I SWACO

SPE-149731
Hunting Black Swans in Arctic Environments
Philip Uglow, EmbankConit Inc.

Correct as of 14 of June 2011
SPE RUSSIAN OIL AND GAS
EXPLORATION AND PRODUCTION
TECHNICAL CONFERENCE AND EXHIBITION

16-18 OCTOBER 2012

QUICK STATS - RO&G 2010

- Over 3300 attendees from over 57 countries
- 1000 conference attendees
- Visitor attendance increased by 28% versus 2008

SPONSORS 2010
SPE ARCTIC AND EXTREME ENVIRONMENTS EXHIBITION

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<th>Burtechnologii PSK</th>
<th>Chevron</th>
<th>Commercial Finnish Pavilion</th>
<th>Commercial Norwegian Pavilion</th>
<th>DC Eurasia</th>
<th>Edwards Oil Tools</th>
<th>Engineering practice</th>
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<th>Oil-field Engineering</th>
<th>Polarcus</th>
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<th>Schlumberger</th>
<th>SGRDC</th>
<th>Territory Neftegas</th>
<th>TMK</th>
<th>Upstream</th>
<th>WMTC</th>
<th>YE International</th>
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The 2011 SPE Arctic & Extreme Environments Exhibition will provide exhibitors, delegates and visitors with an exclusive opportunity to discuss, debate and discover the future of this region.

The launch of the 2011 Technology Incubator offers companies with a cost-effective and accessible opportunity to actively participate in the exhibition demonstrate their capabilities and display new technologies.

To see the details:
www.arcticoilgas.com

Introducing a new feature for 2011
The Technology Incubator

For information on exhibiting opportunities please contact:
Adam Evan-Cook
+44 (0)20 8439 8905
adam.evan-cook@reedexpo.co.uk

Nataliya Yatsenko
+44 (0)20 8910 7194
nataliya.yatsenko@reedexpo.co.uk

Admission to the exhibition is free to all from the oil & gas industry. Register now at http://www.arcticoilgas.com/en/registration/
TRAVEL INFORMATION

VENUE ADDRESS:
All-Russian Exhibition Centre,
Pavilion 75 GAO VVC, Estate 119,
Mir Prospect, Moscow, 129223

FROM THE AIRPORT:
Taxis are available to transfer you to the VV Centre, Moscow.

Main Entrance
VDNKh metro station (first car of the train from the center; exit in the direction to VDNKh) VDNKh Metro Station stop:
Buses No. 33, 56, 76, 93, 136, 154, 172, 195, 239, 244, 803
Trolley buses No. 14, 48, 76
Trams No. 11, 17

MAP OF THE ENTRANCE TO THE ALL RUSSIA EXHIBITOR CENTER

VISA APPLICATIONS
Apply by 9 September 2011 to ensure your visa arrives in time.

Please use website http://www.arcticoilgas.com/en/Venue-and-Accommodation/Accommodation/ to download the visa application form or to book a hotel.
Or contact Anna Kim, tel: +7 812 703 44 00
E-mail: anna.kim@russkie-prostori.com

OFFICIAL HOTELS*

<table>
<thead>
<tr>
<th>Hotel</th>
<th>Single room inc breakfast</th>
<th>Double room inc breakfast</th>
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<tbody>
<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>
</tr>
<tr>
<td>Renaissance Hotel ****</td>
<td>upon request</td>
<td>upon request</td>
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</tbody>
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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
**REGISTRATION**

**HOW TO REGISTER TO ATTEND SPE ARCTIC AND EXTREME ENVIRONMENTS CONFERENCE AND EXHIBITION**

Online registration is open here:  
You can pay for your participation by credit card online or by cash at the exhibition.

If you have any questions regarding registration please call: +7 (495) 626 46 46

<table>
<thead>
<tr>
<th>REGISTRATION TYPE</th>
<th>Euros (inc 18% VAT)</th>
<th>Rubles (inc 18% VAT)</th>
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<tr>
<td>Conference Delegate (non SPE Member)</td>
<td>460</td>
<td>542.8</td>
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</tbody>
</table>
| • 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. Registration required. |
| • Access to all Conference sessions  
| Valid student ID required. |
| Exhibition visitor                      | Entry free of charge. Registration required. |
| • Access to the exhibition only |
| Exhibitor                                |                      |                      |                      |
| • Access to the exhibition hall – see Schedule of Events, page 7 |

| Topical Breakfast 1                        | 60                  | 70.8                 | 2 400                | 2 832               |
| (19 October, Topic: Making Reliability a Given in Extreme-Environment Operations) |

| Topical Breakfast 2                        | 60                  | 70.8                 | 2 400                | 2 832               |
| (20 October, Topic: Beaufort Sea Floating Exploration Drilling – Then and Now) |

| Topical Luncheon 1                         | 70                  | 82.6                 | 2 800                | 3 304               |
| (18 October, Topic: Arctic Oil Spill JIP ) |

| Topical Luncheon 2                         | 70                  | 82.6                 | 2 800                | 3 304               |
| (19 October, Topic: Addressing Arctic Aspirations) |
BOOKING INFORMATION

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If you wish to visit the exhibition only, entrance is free of charge. Please select the Exhibition visitor registration option when completing the registration process. All conference delegates and students automatically gain free entry to the exhibition.

REGISTER TO ATTEND THE TOPICAL BREAKFASTS AND LUNCHEONS
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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To help us ensure that all delegates are able to participate fully please let us know of any special requirements you have by Friday 8 September 2011.
Email arcticteam@reedexpo.co.uk

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To attend the SPE Arctic & Extreme Environments Technical 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 Arctic & Extreme Environments Technical Conference and Exhibition together with an invoice will be sent to you, by the organiser, by email, in advance of the conference. If the invoice has not been settled by cleared funds prior to the date of the conference, we will require payment on site. No refunds will be given if a delegate to the SPE Arctic & Extreme Environments Technical Conference and Exhibition cancels their place on or after 25 August 2011. If a delegate cancels their place prior to 25 August 2011, they shall be entitled to a refund of 50% of the full payment made. However, delegates may substitute another person in their place at no cost provided that this is notified to the organiser on or before 1st October 2011. To substitute another delegate, please email Abbi Modaberi at abbi.modaberi@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 Arctic & Extreme Environments Technical Conference and Exhibition is cancelled by the organiser, save where this is due to circumstances outside the organiser control. The delegate shall comply with SPE Arctic & Extreme Environments Technical Conference and Exhibition Admissions Policy set out at: http://www.arcticoilgas.com/en/registration/

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ORGANISERS OF EVENT:

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■ 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 innovation 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.