

## Programme for the AMAP Symposium on Oil and Gas Development in the Arctic

<b>Tuesday September 13</b>		
0830 – 1000	<b>Registration</b>	
1000 – 1630	<b>Opening of RAO/CIS 2005 Offshore Conference and Exhibition</b>	
1900 - 2300	<b>RAO/CIS 2005 Offshore and Arctic Oil and Gas Symposium Reception</b>	
<b>Wednesday September 14 : (Krysha Ballroom)</b>		
0815 – 0900	<b>Registration</b>	
0900 - 0920	<b>Opening and Welcome</b> <ul style="list-style-type: none"> <li>• Opening addresses: <ul style="list-style-type: none"> <li>Arthur Chilingarov, Deputy Chairman of the State Duma</li> <li>Vitaly Churkin, Chair of the Arctic Council Senior Arctic Officials</li> <li>Ethel Blondin-Andrew, Minister of State, Northern Development, Canada</li> </ul> </li> <li>• Practical information</li> <li>• The Arctic Council's 2006 Assessment of Oil and Gas Activities in the Arctic - Lars-Otto Reiersen (AMAP Secretariat), Dennis Thurston (Minerals Management Service, USA), Hein Rune Skjoldal (Institute of Marine Research, Norway)</li> </ul>	
0920 -1110	<b>Session 1: Oil and Gas Activities in the Arctic. Past, Present and Future</b> <ul style="list-style-type: none"> <li>• Oil and Gas Activities in the Arctic. Past, Present and Future - Robert Crandall (Alaska Oil and Gas Conservation Commission, USA)*</li> <li>• The Mackenzie Gas Project. A Gas Development Opportunity In Canada's Arctic – D. Seidlitz (ConocoPhillips Canada Ltd., Canada)</li> <li>• Oil Shipment From The Russian Arctic – A. Bambulyak and B. Frantzen (Svanhovd Environmental Centre, Norway)</li> <li>• Evolution of Oil and Gas Exploration and Development in Arctic Alaska – C.P. Thomas, D.D. Faulder (Science Applications International Corporation, USA), and D.M. Hite</li> <li>• Oil Exploration in The Faroe Islands: Environmental Administration and Experience – S. Petersen (Faroese Food, Veterinary and Environmental Agency, Faroe Islands)</li> <li>• Managing Offshore Drilling and Production Activities. The Authorities' Responsibilities and Duties – T. Sorgard (Norwegian Pollution Control Authority, Norway)</li> <li>• Session questions</li> </ul>	
1110 - 1130	<b>Coffee</b>	

1130 - 1345	<p><b>Session 2: Socio-economic Aspects of Arctic Oil and Gas Development, and Indigenous Peoples' Perspectives</b></p> <ul style="list-style-type: none"> <li>• The Social and Economic Effects of Oil and Gas Activities in the Arctic – M. Baffrey (US Department of the Interior, USA)*</li> <li>• Oil Development and Indigenous Peoples in the Russian Arctic: Environmental Challenges, Mistrust and Dialogue – V. Peskov (President of Nenets Association Yasavei, Russia) and Winfreid Dallmann (NPI, Norway)</li> <li>• Effects of Petroleum Development on Reindeer Herding in the Yamal-Nenets and Nenets Autonomous Okrugs (YNAO and NAO), Russia – B.C. Forbes (Arctic Centre, University of Lapland, Finland)</li> <li>• Co-existence of Reindeer Herding and Oil and Gas Activities in the Nenets Autonomous Okrug – T. Tuisku (Thule Institute, University of Oulu, Finland)</li> <li>• Conflicts, Agreements and Oilism. Case Study of the Khanti- Mansi Autonomous Okrug of Russian Federation – N. Novikova (Institute of Ethnology and Anthropology, Russian Academy of Sciences, Russia)</li> <li>• Statoil Environmental and Socio-Economic Management of Hydrocarbon Developments in The Barents Sea – B. Kristoffersen (Environment Statoil Barents Region, Norway)</li> <li>• Prospects of Significant Oil and Gas Development in Arctic Canada – D. Smith (President Inuit Circumpolar Conference Canada, Canada)</li> <li>• Approaches to Manage Social and Economic Effects of Oil and Gas Activity In the Canadian Arctic – T. Stubbs (Headwater Group Ltd., Canada)</li> <li>• Session questions</li> </ul>	
1345 - 1445	<b>Lunch</b>	
1445 - 1600	<p><b>Session 2: Socio-economic Aspects of Arctic Oil and Gas Development, and Indigenous Peoples' Perspectives (continued)</b></p> <ul style="list-style-type: none"> <li>• Project Sakhalin 1-2. Regional Focus. TNC and IP. From Conflict to Negotiation – A. Limanzo (President of Sakhalin Association of Indigenous Peoples, Russia)</li> <li>• Sustainable Livelihoods: Indigenous Perspectives on Oil and Gas Development in Alaska and Northwest Canada – J. Allen (Arctic Athabaskan Council, Canada)</li> <li>• Social Impact Assessment in Coastal Regions of Arctic Alaska – D. Williams (US Department of Interior, Minerals Management Service, USA)</li> <li>• Part 1: Socio-Economic Implications of Arctic Oil Gas Development R.S. Fjellheim (Saami Council and Jaruma AS, Sweden); Part 2: Indigenous Peoples Legal Perspectives on Oil and Gas Development in the Arctic – J.B. Henriksen (Jaruma AS, Norway)*</li> <li>• Session questions</li> </ul>	
1600 - 1620	<b>Coffee</b>	

1620 - 1830	<p><b>Session 5: Effectiveness of Regulations and Emergency, Preparedness and Response</b></p> <ul style="list-style-type: none"> <li>• OPA90: Integrating Government Authority in a Free Market Pollution Response System – Mark Meza (US Coast Guard, USA)</li> <li>• Assessment of International Oil Spill Response Preparedness to Meet Ongoing Arctic Oil Export Traffic from Russia – V. Jouravel (Rosshelf)</li> <li>• Fate and Behavior of Oil Spills under Arctic Conditions. Results from Field Experiments with Different Ice Conditions – P.J. Brandvik (UNIS, Norway), L-G Faksness, I. Singaas and P. S. Daling</li> <li>• Session questions</li> </ul> <p><b>Poster Viewing, including short (3-minute) presentations of selected posters</b></p>	
1830 – 2100	<p><b>Indigenous Peoples' Side Event</b> (venue: Café Mezzanine of Europe Grand Hotel)</p> <ul style="list-style-type: none"> <li>• Opening talk by Pavel Sulyandziga (Vice-President, Russian Association of Indigenous Peoples' of the North, Russia): Oil/Gas Industry Development and Indigenous Peoples of the North, Siberia and Far East. Look for the Future. Russia's case-study</li> <li>• Invited speakers, incl. the Honourable Ethel Blondin-Andrew (Minister of State, Northern Development, Canada)</li> <li>• Cocktail reception with traditional cultural programme, food and beverages</li> </ul>	
<b>Thursday September 15 : (a.m. - Krysha Ballroom, p.m. - Chaikovsky Conference Room)</b>		
0815 – 0900 -	<b>Registration</b>	
0900 - 1045	<p><b>Session 3: Sources, Inputs, Concentrations and Fate of Petroleum Hydrocarbons and PAHs in the Arctic Environment</b></p> <ul style="list-style-type: none"> <li>• Sources, Inputs, Concentrations and Fate of Petroleum Hydrocarbons and PAHs in the Arctic Environment – J. Klungsoyr (Institute of Marine Research, Norway) and S. Dahle (Akvaplan-niva, Norway)*</li> <li>• A Petroleum Hydrocarbon Budget For The Arctic – D. J. Thomas (Axys Group Ltd., Canada) and R. W. Macdonald (Department of Fisheries and Oceans, Canada)</li> <li>• Sources of Oil And Gas Pollution in The Western Arctic Shelf of Russia – G.I. Ivanov (Northern State Scientific-Production Company of Marine Geological Prospecting 'SEVMORGEO', Russia)</li> <li>• PAH in the Bottom Sediments of the Laptev and East Siberian Seas – S. Dahle (Akvaplan-niva, Norway), V. Petrova (VNIIOkeangeologia, Russia), T. Savinova, A. Kursheva and V. Savinov</li> <li>• Analyses of Polycyclic Aromatic Hydrocarbons in Sediments, Fish and Marine Mammals from the North Slope of Alaska – J.E. Reynolds (Mote Marine Laboratory, USA), D.L. Wetzel, C. Hanns, P. Mercurio and T. M. O'Hara</li> <li>• The Properties of Heavy Oils, Bitumens and Marine Fuels in Cold Water: A Second Look. – B.P. Hollebhone (Emergencies Science and Technology Division, Environment Canada, Canada), M.F. Fingas, Z. Wang, P. Smith and R. MacKay</li> <li>• Session questions</li> </ul>	

1045 - 1100	<b>Coffee</b>	
1100 - 1245	<p><b>Session 4: Effects of Petroleum Hydrocarbons on Arctic Biota and Humans</b></p> <ul style="list-style-type: none"> <li>• Effects of Pollutants Related to Oil and Gas Activities on the Arctic Terrestrial Environment and Arctic Aquatic Organisms – C.R. Macdonald (Northern Environmental Consulting and Analysis, Canada), L. Lockhart, and A. Gilman*</li> <li>• Evaluation of Risk of Environmental Harmful Effects from Drilling Activities using the Environmental Impact Factor (EIF) – Case Study from a Well in the Northern North Sea – T.R. Utvik (Norsk Hydro Oil &amp; Energy, Norway), J. Toft, H. Rye, R. Farestveit and O-A. Follum</li> <li>• Evaluation of Risk of Environmental Harmful Effects from Drilling Activities using the Community Disturbance Index (CDI) and Historical Field Data from Environmental Monitoring at the Norwegian Continental Shelf – B. Fredheim (Norsk Hydro, Norway), F. Brakstad and T.R. Utvik</li> <li>• Influence of Oil Mining and Transporting Objects on Vegetation Cover Based on Monitoring Results in Ardalin Oil and Gas Fields (Nenets Autonomous Okrug, Russia) – A.E. Batalov (Pomor State University, Russia) and E.V. Shavrina</li> <li>• Assessing the Impacts of Oil and Gas Development on Wild (<i>Rangifer</i>) Herds: Data Requirements, Assessment Tools and Policy Initiatives – D. Russell (Environment Canada, Canada), G. Kofinas and B. Griffith</li> <li>• BIOSEA JIP – Developing a Biomonitoring Tool for the Offshore Petroleum Industry: The Transfer of North Sea Knowledge to the Arctic Barents Sea – A. Skadsheim (RF-Akvamiljø, Norway), U.E. Moltu, L. Pinturier, M. Buffagni, L. Bracco, A. Kelley, L. Balk, J. Baršienė, S. Bamber, R.K. Bechmann, H. Berland, G. Jonsson, B.K. Larsen, L.P. Myhre, A. Nævdal, R. Sundt, I.C. Taban, A.H. Tandberg, S. Torgrimsen, K.B. Øysæd, S. Sanni</li> <li>• Session questions</li> </ul>	
1245 - 1345	<b>Lunch</b>	
1345 – 1600	<p><b>Session 4 (continued): Effects of Petroleum Hydrocarbons on Arctic Ecosystems</b></p> <ul style="list-style-type: none"> <li>• Vulnerability and Status of Arctic Populations and Ecosystems: A Synthesis of Results from the Assessment – H.R. Skjoldal, et al. (Institute of Marine Research, Norway)</li> <li>• Seabirds and Oil Spills in the Arctic – A. Mosbech and D. Boertmann (National Environmental Research Institute, Denmark)</li> <li>• The Development of an Ecological Landscape Model for Oil and Gas Best Management Practises – K. Simpson (Oil and Gas and Mineral Resources Directorate, Canada)</li> <li>• Ecosystem Assessment of Perspectives and Consequences of the Russian European Seas Oil Gas and Biological Resources Exploitation – G. Mathishov (Russian Academy of Sciences, South Scientific Centre)</li> </ul>	

	<p><b>Session 5 (continued): Managing Arctic Oil and Gas Development</b></p> <ul style="list-style-type: none"> <li>• Progressive, Sustainable Responsible: Managing Arctic Oil and Gas Development in Canada – the Honourable Ethel Blondin-Andrew, Minister of State, Northern Development, Canada.)</li> <li>• Managing Arctic Oil and Gas Development from an Environmental Perspective – U.E. Moltu (Total E&amp;P Norge AS, Norway)</li> <li>• Corporate Decision-making and Management Practices and the Resilience of High-latitude Ecosystems – G. Whiteman (RSM Erasmus University, Netherlands), F. Stuart Chapin III, B. Forbes, A. King and J. Niemelä</li> <li>• Prospects of Interaction Between Oil and Gas and Fishing on the Arctic Continental Shelf of the Russian Federation – O. Titov et al. (PINRO, Russia)</li> <li>• Climate Changes in the Arctic and their Consequences for Gas and Oil Field Development on the Arctic Shelf – A. Danilov (Arctic and Antarctic Research Institute, Russia)</li> <li>• Session questions</li> </ul>	
1600 - 1610	<b>Coffee</b>	
1610 - 1730	<b>Panel discussion</b>	
1730	<b>End of Symposium</b>	

All oral presentations are 15 minutes unless marked \* (20 minutes)

It is intended that the Panel include representatives from: socio-economic and natural sciences, Oil & Gas companies, governmental regulatory agencies, NGOs, PPs, and press and that this panel will spend most time responding to questions from the floor (not making statements)

Press are welcome to attend the Symposium, but we do not intend to arrange any Press conference.

**Posters**

**Session 1:**

- Large Scale, Deep Injection of Muds and Cuttings on the North Slope, Alaska – H.R. Engel (BP Exploration, Alaska)
- Well Integrity: Safely Operating Oil and Gas Wells – H.R. Engel, A Dube and J. Anders (BP Exploration, Alaska)
- Management and Oversight of Offshore Oil and Gas Operations in U.S. Federal Waters of Alaska – D. Thurston (U.S. Department of the Interior Minerals Management Service, USA)
- Arctic Offshore Oil and Gas Activities in the United States – Dennis Thurston (U.S. Department of the Interior Minerals Management Service, USA)
- North Slope Science Initiative – Managing Oil and Gas Development through Science on Alaska’s North Slope – K. Taylor (North Slope Science Initiative Alaska, USA)
- Integrated Management Plan for the Barents Sea – A Norwegian Initiative for Ecosystem Management and Conflict Resolution – G. Sander (Norwegian Polar Institute, Norway)
- Meeting Environmental Challenges of Offshore Oil & Gas Development in the Arctic: Lessons learned from Sakhalin-II Oil and Gas Project in Russia – I. Chestin, E. Shvarts and T. Serykh (WWF-Russia)

**Session 2:**

- Inuvialuit Views on Sustainable Development in the Mackenzie Gas Project, Inuvialuit Settlement Region, Northwest Territories, Canada – R. Salokangas (Tampere Polytechnic, Finland/Aurora Research Institute, Canada)
- Indigenous Legal Perspective on Oil and Gas Development in the Arctic – John Bernhard Henriksen (Jaruma AS, Norway)
- The Spread of Oil Development in America’s Arctic Arctic National Wildlife Refuge: Wilderness Preservation Or Oil Drilling? – A.M. Keller (University of Alaska Fairbanks, USA)
- Working in the North – Employees’ Everyday Life on Remote Production Sites of the Russian Oil Industry – M. Spies (University of Joensuu, Finland)
- Traditional Inupiaq Caribou Hunting Patterns and Oil Development on Alaska’s North Slope – S. Pedersen (Alaska Department of Fish and Game, USA) and J. Patkotak (Inupiat Community of the Arctic Slope, USA)
- Traditional Inupiat Subsistence Harvest Patterns and Energy Development: A Case Study from Nuiqsut, Alaska – S. Pedersen (Alaska Department of Fish and Game, USA)
- Case Study on the Application of the Akwé: Kon Guidelines on the Proposed Alaska Highway Pipeline Project (natural gas) – M. Alexander (Arctic Athabaskan Council)
- Development Of Integrated “Climate Forecast-Multi-User” Model To Provide The Optimal Solutions For Environment Decision Makers – O.M. Pokrovsky (Main Geophysical Observatory, St. Petersburg, Russia)

**Session 3:**

- Enhanced Levels of Naturally Occurring Radioactivity in the Oil and Gas Industry – A.L. Rudjord, T. Gåfvert and T. Bergan (Norwegian Radiation Protection Authority, Norway)
- Levels Of PAH and HC Concentrations in the Ecosystems of the Western Arctic Shelf of Russia – G.I. Ivanov (Northern State Scientific-Production Company of Marine Geological Prospecting ‘SEVMORGEO’, Russia)
- Chemical Analyses of Contaminants Originating from Offshore Petroleum Activities – S. Boitsov (Institute of Marine Research, Norway)
- Results of the Russian Federal Agency for Mineral Resources Programme ‘Geocological Monitoring of both Sediments and Near-bottom Waters around the Hydrocarbons Resources in the Barents Sea and in the White Sea for 1999-2004’ – O. Korneev and A. Rybalko (Northern State Scientific-Production Company of Marine Geological Prospecting ‘SEVMORGEO’, Russia)

**Session 4:**

- Effect of Artificial Sunlight on Long-term Toxicity of Water Soluble Oil Compounds in Arctic Marine Species – B.K. Larsen, D.M. Pampanin, S. Bamber, A. Gomiero, E. Lyng, N. Machella, F. Regoli, A. Nævdal, K.B. Øysæd, T. Baussant (RF-Akvamiljø, Norway; Università Politecnica delle Marche, Italy)
- Environmental Studies and Monitoring in Preparation for Exploration Drilling Offshore the Faroe Islands – M. Dam and K. Hoydal (Faroe Food, Veterinary and Environmental Agency, Faroe Islands)
- Oil and Plankton: Experiments on the Use of Cotton Grass Sorbent for Eliminating the Injurious Oil Effects on the Foundation of Pelagic Foodwebs in the Baltic Sea – J. Ikävalko, M. Romanstchuk and S. Suni (University of Helsinki, Finland)
- Risk Assessment For Marine Ecosystems Under The Impact Of Offshore Oil And Gas Production – V.N. Lystsov and N.V. Murzin (RRC ‘Kurchatov Institute’, Russia)
- Coastal Zone Canada 2006 Conference in Tuktoyaktuk, Northwest Territories, Canada – S. Newton (Fisheries and Oceans, Canada)
- A Mesocosm Experiment on Benthic Ecosystem Impact of Drill Cuttings Deposited on Sediment Communities from Arctic and Temperate Fjord Locations – M. Schaanning and B. Rygg (Norwegian Institute for Water Research, Norway)
- The Effect of ad hoc Tundra Travel Management on Oil Exploration on Alaska’s North Slope – S.L. Wall (University of Alaska Fairbanks, USA)
- No-go Areas for Oil Production in the Norwegian Barents Sea – S. Smith (WWF International Arctic Programme, Norway)

	<p><b>Session 5:</b></p> <ul style="list-style-type: none"><li>• Behaviour of Oil in Freezing Environments: A Literature Review – B.P. Hollebhone and M.F. Fingas (Emergencies Science and Technology Division, Canada)</li><li>• Joint Preparation to Identify Potential Oil Spills on Russian Arctic Oil Routes – V. Jouravel (Rosshelf) (coauthor – SINTEF)</li><li>• Special Economic Zones and Problems of Development of the Arctic Gas Deposits, Deep Oil and Gas Processing and Formations of a Transarctic Highway "Europe - Asia" – V. Mel (Stanitsa Georgievskaya Public Organisation)</li><li>• Ecological Aspects of Under-water/Under-ice Technologies of Gas Production in the Arctic – S.A.Lavkovsky (CDB Lazurit, N.Novgorod, Russia)</li></ul>	
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