

March 13 & 14, 2012 • Hyatt Regency Calgary

RESULTS!
NEB's Arctic Offshore
Drilling Review,
Geological & Seismic Arctic Data

ARCTIC OIL & GAS SYMPOSIUM

North America's Premier Arctic Oil & Gas Conference

HEAR FROM DISTINGUISHED FACULTY INCLUDING:



Joseph L. Handley
Former Premier
Northwest Territories
Conference Chair



Hon. Bob McLeod
Premier, Northwest
Territories (invited)



David Ramsay
Minister of Industry,
Tourism and Investment,
Minister of Transportation



Hon. Eva Aariak
Premier, Nunavut



Richard Nerysoo
Gwich'in Tribal Council



Robert Steedman
National Energy Board



Cece McCauley
Norman Wells Land Corp



Larry Persily
Alaska Natural Gas
Transportation Projects



Mervin Gruben
Mayor of Tuktoyaktuk



John Hogg
MGM Energy Corp.



Dr. Jacob Verhoef
Natural Resources Canada



Ned Farquhar
Deputy Assistant Secretary
U.S. Department of the
Interior

NEW FOR 2012 Gain Valuable Insights into the Pressing Issues

- Learn results from the **NEB's Arctic Offshore Drilling Review**
- Realize what the Northwest Territories' **record land sales** could mean for the North
- Hear the latest infrastructure details on the **Mackenzie Valley Development Corridor**
- Discover progress on **Arctic offshore oil spill preparedness and response**
- Addressing **hydraulic fracturing and water concerns** in the emerging unconventional play in the North
- Obtain more details on **Alaska's oil and gas** project development, challenges and opportunities
- **Identify the size of the prize in the Arctic** – gain insight into major geological and seismic research on the resource potential of Canada's North

Essential Topics Back by Popular Demand

- Get up-to-the minute **Arctic pipeline project updates**
- Gain valuable **insight from Northern Aboriginal leaders** on how they see Arctic development moving forward
- **Assess the impact of shale** on Arctic resource development and the opportunities for these resources in a global context

Unparalleled Networking with Everyone You Need To Know

- **Meet** distinguished government officials, industry experts and peers interested in moving responsible Northern development forward
- **Network** with influential decision makers from government, industry and Aboriginal groups over two days in a relaxed social setting
- **Achieve** more interaction with audience polling, panel sessions, receptions, lunches and refreshment breaks

Enrich your experience by attending in-depth workshops:

- A** Remote Sensing for Northern Project Development
- B** An Introduction to Drilling, Hydraulic Fracturing and Water Use in Shales

Presented by:



Sponsored by:



Industry Partners:



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Just some of the many organizations that have benefitted by attending this Symposium...

AECOM Canada Ltd.	Kavik Axys Environmental Consulting
Aboriginal Affairs and Northern Development Canada	KBR Canada
Aboriginal Pipeline Group	Keyano Pimée Exploration Company Ltd
Acklands-Grainger Inc	Kiewit Energy Construction Corp
ADK Corporate Group	Kwanlin Dun First Nation
Akita Drilling Ltd	Lawson Lundell LLP
Alaska Department of Natural Resources	Ledcor Industries Limited
Alaska Department of Revenue	Liidii Kue First Nation
Alaska Highway Aboriginal Pipeline Coalition	Lloyd's Register Technical Services
AltaGas	Mackenzie Aboriginal Corp
AMEC Americas Ltd	Mackenzie County
APA Petroleum Engineering	Mackenzie Valley Land & Water Board
Apache Canada	Mackenzie Valley Pipeline Office
ARC Financial Corporation	Mackenzie Valley Review Board
ASRC Energy Services	Mammoet Canada
ATCO Group of Companies	Macro Enterprises Inc.
Aux Sable Canada	Marathon Oil Company
Baker Hughes Canada Company	Mears Canada Corp
Bantrel	MGM Energy Corp
Bennett Jones LLP	MI SWACO
BG Canada Explorations & Production Inc	Michael Baker Jr Inc
BJ Pipeline Inspection Services	Nabors Canada
Boskalis Offshore	National Energy Board
BP Canada and BP Exploration Alaska Inc	Norman Wells Claimant Corp
Canadian Association of Petroleum Producers	Norterra Inc
Canadian Standards Association	Northern Project Management Office CanNor
Canadian Freightways Ltd	North American Construction Group
CanNor	Northern Dynasty Minerals Ltd
Caterpillar Inc	Northern Gas Project Secretariat
CH2M HILL	Northern Pipeline Projects Ltd
Challenger Geomatics Ltd	Northern Transportation Company Ltd
Champion Technologies Ltd	Northwest Territories Hydro Corporation
Chevron Canada Limited	Northwestel
CIBC World Markets Inc	NRCan Northern Pipeline Agency
ConocoPhillips	Nuna Logistics Limited
Deh Gah Gotie Dene Council	Nunavut Tunnagavik Inc
Dehcho First Nations	NWT Water Board
Deline Land Corporation	Offshore Recruiting Services Inc
Dene Tha' First Nation	Osler Hoskin & Harcourt LLP
Devon Canada Corporation	Pacific & Western Bank of Canada
EBA Engineering Consultants Ltd.	Panthera International Corporation
Enbridge Pipelines Inc	Paramount Resources Ltd
EnCana	Peak Oilfield Service Company
ENSR International	Pehdzehki First Nations
Environment Canada	Peter Kiewit Sons Co
Environmental Resource Management	Petro-Canada
EOS Pipeline & Facilities Inc	PGS Onshore Inc
ESS Support Services	Platinum Capital
Evergreen Helicopters Inc	Precision Drilling Co.
ExxonMobil Corporation	Producers Oilfield Services Inc
Finning Canada	Provident Energy Ltd
First Nations Summit	PTI Group Inc
Flint Energy Services Ltd	Reconnaissance Energy Corp
Fluor Canada Ltd	Sahtu Secretariat Inc
Fugro SESL Geomatics Ltd	Sambaa K'e Dene Band
Geological Survey of Canada	Schlumberger Canada Ltd
Golder Associates Ltd	Seabridge Marine
Government of the Northwest Territories	Contractors Ltd
Government of Alaska	Seaspan (Cyprus) Ltd
Government of Alberta	SecureCheck
Government of Yukon	Shaw Pipe Protection Limited
Gwich'in Tribal Council	Shehtah Drilling
GX Technology	Shell Canada
Halliburton Energy Services	Snamprogetti Canada
Hallmark Tubulars Ltd	SNC Lavalin Inc
Hamlet of Tuktoyaktuk	Sodexho
HDR Inc.	StatoilHydro
Horizon North Logistics Inc	Stantec
IHS Energy Canada Inc	Talisman Energy Inc
IMG-Golder Corporation	Tanana Chiefs Conference
Imperial Oil	TD Securities Inc
Industry Canada	Total E&P Canada Ltd
Innovation Norway	Town of Inuvik
Inter Pipeline Fund	TransCanada Pipelines Ltd.
International Union of Operating Engineers	Treaty 8 Tribal Association
Inuvialuit Development Corporation	Tri Ocean Natchiq Engineering Ltd
ION-GX Technology	Tulita District Land Corporation
Jacques Whitford Environment	Tundra Engineering Associates Ltd
Jean Marie River First Nation	Universal Pegasus
Justice Canada	VECO Canada Ltd
K'ahsho Got'ine Lands Corp Ltd	Western Lakota Energy Services Inc
K atloodeche First Nation	Western Oilfield Servicing
	WesternGeco Limited
	Yukon Cold Climate Innovation Centre
	Yukon Environment and Socio-economic Assessment Board

WELCOME MESSAGES



PRIME MINISTER . PREMIER MINISTRE

I am pleased to extend my warmest greetings to everyone participating in the 12th annual Arctic Oil & Gas Symposium.

Canada's North harbours a wealth of natural resources that are creating unprecedented opportunities. The Alaska Highway Pipeline Project and the Mackenzie Gas Project are bringing enormous capital investments to Canada's Arctic regions. Moreover, northern Canada is the site of one quarter of Canada's remaining discovered petroleum and one half of our country's estimated potential. In the Northwest Territories, 1.6 billion barrels of oil and 12.2 trillion cubic feet of natural gas have been discovered, while known oil and gas resources in Nunavut rival those of Newfoundland and Labrador.

I would like to thank the organizers, the Canadian Institute, for bringing together industry players, community leaders, and government experts to discuss strategies for Arctic development. The information and ideas that you share, as well as the relationships that you build over these two days, will bring significant benefits to northern communities. I am certain that everyone taking part in this symposium will benefit from the depth of experience represented here and will come away with a renewed vision for bringing prosperity to the Arctic.

On behalf of the Government of Canada, I offer you my best wishes for a memorable and productive meeting.



The Rt. Hon. Stephen Harper, P.C., M.P.

OTTAWA
2011

Dear Colleagues,

On behalf of your host, **CI Energy Group**, I am pleased to welcome you to what is sure to be another successful **Arctic Symposium**.

2012 marks the 12th year of this annual event which began as a forum to bring together those looking to realize and capitalize on the Mackenzie Gas Project but has grown to encompass so much more.

All these years later, the will to see the Mackenzie Gas Project through is still very much alive. Now closer to reality than ever before, the project received approval by the National Energy Board (NEB) and federal cabinet approval – these are huge milestones surpassed. The major question of the day is whether the project is still a “go” given the current market climate.

This year excitement around Arctic development has been fully reinvigorated! In March of 2011, the **federal government pledged \$150 million towards building an Arctic highway** between Inuvik and Tuktoyaktuk, N.W.T. In July 2011, the N.W.T. saw a **record land sale of 2.2 million acres in the Norman Wells region of the Central Mackenzie Valley** with commitments from major players like Husky Energy, ConocoPhillips, Imperial Oil, MGM Energy and Shell Canada of over \$500 million. And finally, Shell received tentative approval for permission to drill exploratory wells in Arctic waters for the summer of 2012 and the NEB is expected to have the **results from the Arctic Offshore Drilling Review** by the end of 2011.

Today, this event continues to gather all those interested in seeing an Arctic gas pipeline take shape, as well as those interested in offshore and other emerging Arctic oil and gas opportunities.

This is **THE** event that people attend to get their Arctic updates, solidify existing relationships, make new connections and forge new deals and partnerships that will take their business to the next level.

The 2012 program is full of passionate and knowledgeable speakers who will provide you with timely information, project updates, and experience that will inform your business strategy. Attending this event puts you in the room with the thought leaders who are enabling sustainable Arctic development.

Listen, ask your questions and bring your business cards to **Canada's premier Arctic oil and gas** event. We look forward to seeing you in March!

Best regards,



Joseph L. Handley
Former Premier, Northwest Territories



North America’s Premier Arctic Oil and Gas Conference gathering industry players, community leaders and government officials involved in northern projects since 2001.

Are you are interested in the future of oil and gas development in Canada’s Arctic? Do you want to understand the current climate and challenges? Learn about emerging opportunities.

The Arctic is resurfacing as an area for business opportunities. Investment in the Arctic is at an all-time high. Critical to Arctic development are the growing demand for resources, the increased interest in Northern economic sustainability, energy security and a warming climate.

Join us March 13 & 14 for **CI Energy Group’s 12th Annual Arctic Oil & Gas Symposium**. As we’ve reflected in the title, this year we look to expand the offshore and other Arctic prospect opportunities on the program. You do not want to miss this exciting forum to **get critical updates, discuss pertinent issues, and network amongst your peers and competitors.**

This annual event is a must attend for anyone involved or looking to get involved in Arctic oil & gas development. Register today by calling toll-free at **1-877-927-7936** to secure your spot or online at **www.ArcticGasSymposium.com**.

“**Excellent... [I liked the] speakers, networking and topics!**
Dr. John Harper, Director, Geological Survey of Canada
(11th Annual Arctic Gas Symposium, March 2011)”

WHY YOU SHOULD ATTEND

MEET leading industry players, community leaders and government regulators involved/interested in oil and gas projects north of 60°

HEAR an outstanding speaker line-up representing leading pipeline and production companies, service firms, regional and federal governments, and Aboriginal groups

GAIN timely and thought-provoking information on the latest policies, challenges and opportunities facing Canadian and U.S. Arctic development

EXPERIENCE an unmatched opportunity to network with colleagues and competitors involved in and interested in northern projects



WELCOME RECEPTION

Monday, March 12, 2012 • 5:00 pm – 7:00 pm

Take advantage of this opportunity to sign in early, avoid the morning rush and pick up your conference materials. Join us Monday evening and jump-start your networking with fellow symposium peers.



COCKTAIL RECEPTION

Tuesday, March 13, 2012 • 5:15 pm – 7:15 pm

At the conclusion of Day 1, we invite you to join government representatives, key speakers, sponsors and industry colleagues in a relaxed social setting. Debate the issues raised during the day’s sessions while enjoying drinks and canapes.

SYMPOSIUM CHAIR

Joseph L. Handley
Former Premier, Northwest Territories

DISTINGUISHED FACULTY

Paul Adlakha
Executive Director, LOOKNorth

Hon. Eva Aariak
Premier, Nunavut

Peter Clarkson
Director of Regional Operations
for the Beaufort Delta and Sahtu
Department of Executive, GNWT

Patricia A.L. Cochran
Executive Director
Alaska Native Science Commission

Dr. Keith Dewing
Carbonate Stratigrapher,
Geological Survey of Canada
Natural Resources Canada

Ned Farquhar
Land and Minerals Management
Deputy Assistant Secretary
U.S. Department of the Interior

Dale George
Chief Technical Officer, Buoyant Aircraft
Systems International, BASI

Mervin Gruben
Mayor of Tuktoyaktuk, NT

Dr. John D. Harper
Market Director – Energy Development
EBA, A Tetra Tech Company

John Hogg
Vice President, MGM Energy Corp.

Cece McCauley
President, Norman Wells Land Corp.

Shannon MacDonald
Principal, TRIOX Environmental Emergencies

Ian Nathan
Global Gas Research, Energy Intelligence

Richard Nerysoo (tentatively confirmed)
President, Gwich’in Tribal Council

Drue Pearce
Senior Policy Advisor, Crowell & Moring LLP

Larry Persily
Federal Coordinator
Alaska Natural Gas Transportation Projects

David Ramsay
Minister of Industry, Tourism and
Investment, Minister of Transportation
Government of Northwest Territories

Sheila Riordon
Director General, Environment
Energy and Sustainable Development
Bureau, Department of Foreign Affairs
and International Trade Canada (invited)

Barrie Robb
Vice President, Mackenzie Aboriginal Corp.

Robert Steedman
Professional Leader, Environment
National Energy Board

Stephen Traynor
Director, Resource Policy and Programs
Aboriginal Affairs and Northern
Development Canada

Dr. Jacob Verhoef
Director, UNCLOS Program
Natural Resources Canada

Representative
Aboriginal Pipeline Group (invited)



8:00 Coffee and Registration

9:00 Opening Remarks by Conference Chair



Joseph L. Handley
Former Premier, Northwest Territories

9:15 Opening Keynote Address



Hon. Bob McLeod
Premier, Northwest Territories (invited)

9:45 Chair to lead “Meet Your Peers”
Speedy Delegate Introductions

10:00 Networking Coffee Break

10:20 Assessing the Impact of North American Shale Gas in a Global Context and What it Could Mean for Plans to Develop Arctic Gas



Ian Nathan
Global Gas Research
Energy Intelligence

- Exploring North American natural gas supply/demand conditions
 - What is the impact of the ever-expanding shale activity?
 - How does this impact the potential of an Arctic gas pipeline coming online?
 - When will Arctic gas be necessary?
 - Based on market conditions, which project seems more likely to be built first, an Alaska Gas Pipeline or the Mackenzie Gas Project?
 - What is the potential for Arctic gas to flow to Alberta?
 - What’s being done with respect to technological innovations for oil and gas development?
- Exploring the global price for oil and how this impacts natural gas projects
- Examining the commercial players in Arctic gas: who are they? What are their interests and motivations?
- Could Canadian or U.S. Arctic resources compete on a global scale for markets?
- What are the prospects for other unconventional oil and gas production North of 60°?
 - Shale: How close is shale to being commercialized in the North?
 - Gas Hydrates: How close is it to being commercially viable? What is the size of the resource in the Arctic? Where are the opportunities – on or offshore? How would this impact oil and gas development going forward?
 - Gas to Liquids: What were the results of Alaska’s feasibility study? How feasible does the Alberta project seem?
- How does LNG impact the need for Arctic gas?
- What scenario is necessary (market conditions) to make an Arctic Gas pipeline feasible?

“**Exceptionally well organized from beginning to end**
Vernon Stephens, Pipeline Rep.
Plumbers & Pipefitters local 488
(10th Annual Arctic Gas Symposium, March 2010)”

11:20 What is the Size of the Prize in the Arctic? Identifying Current and Future Hot Spots for Oil & Gas Resource Potential in the Canadian Arctic

Dr. Keith Dewing
Carbonate Stratigrapher, Geological Survey of Canada
Natural Resources Canada



Dr. Jacob Verhoef
Director, UNCLOS Program
Natural Resources Canada

- Results to date from the \$100 million Geomapping for Energy and Minerals (GEM) program in the North
 - Examining which areas are most likely to hold economic resources for exploration and why
 - Of these regions, which are most accessible from a geographic perspective?
 - Examining which areas are not as favourable for exploration and why
- What are the implications of this research?
- Assessing which analogues may be best to refer to from other parts of the world in order to compare the potential for Canadian discoveries
- Exploring the progress of the acquisition of scientific data and the research to determine the outer limits of Canada’s Extended Continental Shelf in both the Arctic and Atlantic Oceans, according to Article 76 of UNCLOS (United Nations Convention on the Law of the Sea):
 - Why is Canada doing this work?
 - What does this research mean for Canada?
 - What is the time frame for the submission and the process of determining the outer limits?
 - According to the data, does Canada have an Extended Continental shelf (beyond 200 nautical miles)?
 - Given the current research, is there an oil and gas resource potential in the extended area?
 - What are the other Arctic coastal states doing and is there a potential for overlaps and future boundary disputes?

12:15 Networking Luncheon for Delegates and Speakers

SPOTLIGHT ON
NORTHERN INFRASTRUCTURE

1:30 Keynote Address



David Ramsay
Minister of Industry, Tourism and Investment
Minister of Transportation
Government of Northwest Territories

1:55 Mackenzie Gas Project: Yesterday, Today and Tomorrow

- Representative**
Aboriginal Pipeline Group (invited)
- Where does the MGP stand today?
 - Exploring progress made
 - Estimated timelines for project costs, start and completion
 - Understanding the history and significance of Aboriginal participation
 - Exploring the current project challenges
 - What is required for the project to move forward?
 - Realizing the significant benefits the project will provide to the North
 - What is the anticipated lifespan of an Arctic gas pipeline?

2:30 Networking Refreshment Break

2:50 Infrastructure Developments in the Mackenzie Valley Development Corridor



Barrie Robb
Vice President
Mackenzie Aboriginal Corp.



Richard Nerysoo
President
Gwich’in Tribal Council (tentatively confirmed)



Peter Clarkson
Director of Regional Operations for the Beaufort Delta and Sahtu
Department of Executive, GNWT

- Examining project specs for the all-weather road:
 - Physical: length of road, number of bridges required etc.
 - Timelines: How long will it take to build? How soon can construction start?
 - Financial: How much money has been allocated to this project? What is required to get the job done?
 - Crucial project milestones
- Progress report on the Mackenzie Valley Fiber Optics Link Project
 - Examining project details – location, cost
 - Status and next steps
- Understanding how stakeholders were engaged right from the start
- What do these projects mean to the North?
- How do these projects compliment an Arctic gas pipeline?

“**A great way to get fully up-to-date on Northern pipeline projects and an excellent networking opportunity in two days**
James Allen, Communications & Research, Alaska
Hwy Aboriginal Pipeline Coalition
(10th Annual Arctic Gas Symposium, March 2010)”

4:00 Northern Leaders Perspectives on Arctic Development



Cece McCauley
President
Norman Wells Land Corp.



Mervin Gruben
Mayor of Tuktoyaktuk, NT



Patricia A.L. Cochran
Executive Director
Alaska Native Science Commission

- KEYNOTE PANEL**
- Identifying key areas of concern for Northern communities associated with oil and gas development in the North
 - Exploring some examples of what’s worked and what hasn’t with respect to Northern development?
 - Discovering positive examples of relationship building and engagement with Northern communities
 - Identifying areas where there is room for improvement
 - Details on any established principles for oil and gas development

5:15 Chair’s Closing Remarks and Conference Adjourns

Cocktail Reception
5:15 – 7:15 pm

We invite you to join government representatives, key speakers, and your industry colleagues and peers in a relaxed social setting. Debate the issues raised throughout the day while enjoying drinks and canapés.





8:00 **Coffee is Served**


9:00 **Opening Remarks by Conference Chair**

 **Joseph L. Handley**
Former Premier, Northwest Territories

9:15 **Keynote Address**

 **Hon. Eva Aariak**
Premier, Nunavut

9:35 **Results from NEB’s Offshore Drilling Review: What Does This Mean for the Future of Offshore Drilling in Canada?**

 **Robert Steedman**
Professional Leader, Environment
National Energy Board

- Understanding the responsibilities of the NEB in Canada’s Arctic to put the Arctic Review into context
- Critical highlights from the Inuvik Roundtable meetings and discussions
- Discussion on results from the Arctic Offshore Drilling Review

10:15 **Networking Coffee Break**

“ **I would definitely recommend this event to a colleague**
Kathy Van Bibber, Councillor
Champagne & Aishihik First Nations
(10th Annual Arctic Gas Symposium, March 2010) ”

10:35 **Exploring Progress on Arctic Offshore Oil Spill Preparedness and Response**

 **Drue Pearce**
Senior Policy Advisor
Crowell & Moring LLP

 **Sheila Riordon**
Director General, Environment,
Energy and Sustainable Development Bureau
Department of Foreign Affairs and
International Trade Canada (invited)

Shannon MacDonald
Principal
TRIOX Environmental Emergencies

- Examining details of the plans and the deliverables for both the spill prevention and response task force and the prevention of spills working group under the Arctic Council
 - How do these two projects intersect?
 - What impact will this work have on the governance of Arctic energy development?
 - What does this mean going forward for companies doing business in the Arctic?
- How is the Joint Industry Program providing input to the Arctic Council?
 - Examining details on various industry initiatives addressing spill preparedness and response
- Exploring solutions for minimizing the impact of marine oil spills
- Addressing the benefits in training local peoples as likely first-responders to emergencies
- Addressing the necessity to plan and establish relationships with communities and government agencies

11:35 **Northwest Territories Record Land Lease Sale: Why Is This A Game Changer? What Does This Means for Northern Development?**

 **John Hogg**
Vice President
MGM Energy Corp.

- How does this land sale compare with that of previous years?
- Where is the excitement focused? What is the potential of the region?
- Exploring the amount of work has been committed through winning bids and what the timeframes are to act upon them
- Examining potential infrastructure requirements to facilitate the plans brought forth
- What work is already underway?

“ **An outstanding calibre of speakers, great interactivity following the presentations and great food too!**
Ian Laing, Project Manager, State of Alaska
(10th Annual Arctic Gas Symposium, March 2010) ”

12:05 **Addressing Hydraulic Fracturing and Water Concerns Around Emerging Unconventional Development in the North**


 **Dr. John D. Harper**
Market Director – Energy Development
EBA, A Tetra Tech Company

- Understanding hydraulic fracturing practices and what to expect
- Showcasing best practices in water usage and management
- Realizing how the regulatory landscape is changing to address environmental concerns

12:35 **Networking Luncheon for Delegates and Speakers**

1:50 **Alaska Oil & Gas Opportunities, Challenges and Progress**

 **Larry Persily**
Federal Coordinator
Alaska Natural Gas Transportation Projects

 **Ned Farquhar**
Land and Minerals Management,
Deputy Assistant Secretary
U.S. Department of the Interior

- Alaska Gas Pipeline status and future plans
- What other natural gas transportation projects are currently proposed and which projects seem likely to proceed?
- What does the decreasing flow through the Trans Alaska Pipeline System mean for the rest of the world?
- North Slope update: what is the level and extent of current activity?
 - What are the opportunities?
- Where are the emerging areas of interest or renewed interest in Alaska?
 - What type of resource potential do these areas hold?
- What are Shell’s plans in Alaska’s offshore?
 - Which parts of their plans have been approved?
- Examining Alaska’s biggest impediment to new oil and gas development

2:40 **LOOKNorth: A Research and Technology Focused Resource Tool for Industry, Government and Communities in Canada**

 **Paul Adlakha**
Executive Director
LOOKNorth

- Who is LOOKNorth? And how does this program look to raise Canada’s profile among Arctic nations?
- Exploring ways LOOKNorth can be a resource for your development project

- Examining the types of solutions available to support oil and gas development in Canada’s North
- What are some of the exciting new technologies?
- Examining the benefits of a partnership with LOOKNorth

3:10 **Networking Refreshment Break**

3:25 **Exploring Progress on the Action Plan to Improve Northern Regulatory Regimes – A Focus on the Northwest Territories Surface Rights Board Tribunal Act**

Stephen Traynor
Director, Resource Policy and Programs
Aboriginal Affairs and Northern Development
Canada

- Understanding the new draft for the Northwest Territories’ *Surface Rights Board Tribunal Act* legislative proposal
 - Outlining the new *Act*
 - Examining the nature of the *Act* and what it proposes to do
 - Understanding how it will apply in the Northwest Territories
 - Realizing how the new surface rights tribunal will be structured and what its duties will be going forward

“ **[I really enjoyed] the diverse group of people that attended... [The keynote presentation by Mr. Berger was] off the cuff... good sharing!**
Joachim Bonnetrouge, Chief,
Deh Gah Gotie Band First Nation
(11th Annual Arctic Gas Symposium, March 2011) ”

4:05 **Overcoming Arctic Access and Transport Issues with Airships**

 **Dale George**
Chief Technical Officer,
Buoyant Aircraft Systems International
BASI

- Exploring how airships are a game changer for transportation
 - Realizing how far the technology has come
- Examining the role airships can play in frontier logistics including Alaska and Northern Canada
 - What specific challenges can airships help address?

4:30 **Chair’s Closing Remarks and Prize Draw**

4:45 **Conference Adjourns**

Join the conversation!

For special offers, free downloads and the latest program updates...

Follow us on 
www.Twitter.com/CI_Energy
Use hashtag #AOGS12

Connect with us on 
The Arctic Oil & Gas Network

Pre-Conference Interactive Workshops

Monday, March 12, 2012



A Remote Sensing for Northern Project Development: Realize How Your Project Can Benefit from Utilizing Remote Sensing technology

Monday, March 12 • 9:00 am to 12:30 pm (Registration opens at 8:30)

Workshop leader:



Paul Adlakha
Executive Director
LOOKNorth

Northern resource development offers many potential economic benefits to Northerners. However development must be done with an understanding of the unique social and natural character of the North. It must also take into account the realities of working in challenging, remote environments. Understanding the environment before a project is executed provides a baseline against which project impacts can be measured. Real-time information on the environment during project operations can support safer, more cost-effective and environmentally responsible operations. Monitoring the environment before and after a project can quantify the success of a reclamation strategy to return the land to an acceptable condition. Advances in remote sensing technologies, especially Earth observation (EO) satellites, have provided a significant increase in information gathering capabilities in recent years. Satellites are ideally suited for monitoring remote regions, independent of ground infrastructure such as power, communications and environmental enclosures. Radar satellites add the benefits of night/day, fog/cloud

penetration. Recently launched satellites have much higher revisit capabilities and increased resolution for finer detail, providing better classification capabilities. Advanced processing techniques have made it possible to understand even subtle changes such as ground deformation, where accuracies of less than a centimetre are now possible. This session will provide insight into:

- Advances in remote sensing technologies, especially Earth observation (EO) satellites and what the numerous capabilities are
- Useful applications for the oil & gas sector
- Use of remote sensing for programs that support natural resource development

This workshop will be of interest to resource companies, regulators, interveners in the permitting process, and small businesses providing services to these organizations.

LOOKNorth is a designated Centre of Excellence for Commercialization and Research focused on sustainable development of the North by promoting the use of remote sensing technologies.

B An Introduction to Drilling, Hydraulic Fracturing and Water Use in Shales with a Focus on the Central Mackenzie Valley Corridor

Monday, March 12 • 1:30 p.m. – 5:00 p.m. (Registration opens at 1:00 p.m.)

Workshop leaders:



Dr. John D. Harper
Market Director – Energy Development
EBA, A Tetra Tech Company



John Hogg
Vice President, MGM Energy Corp.

This workshop is meant as a 101 on shale. It will provide insight into: What is shale? Why all the hype? Where do the concerns around shale practices stem from? This interactive session will examine:

- Exploring the difference between an early exploration program and a development program in shales
- What is shale and how is it different from conventional oil and gas production?
- What has changed to make shale production viable?
- Understanding some of the challenges in shale development and how these are being overcome
- Outlining key shale production techniques: horizontal drilling, hydraulic fracture stimulation, pad drilling, multilateral drilling
- Water usage and recycling
- How is shale regulated on federal lands?

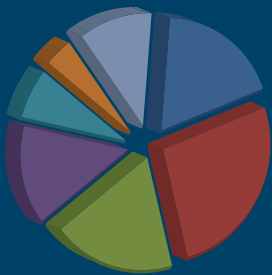
WHO YOU WILL MEET

Since 2001, the **Arctic Symposium** has gathered oil & gas professional, industry experts, Aboriginal leaders and government officials to discuss the latest developments in policy and projects, as well as the latest opportunities and challenges in northern oil and gas development.

This event is a must-attend for professionals involved in northern resource development. The spectrum of job responsibilities includes:

- Business Development
- New Ventures
- Project Managers
- Aboriginal Affairs
- Land Management & Environmental Approvals
- Community Affairs & Public Relations
- Policy and Risk
- Regulatory and Government Affairs
- Sales and Marketing
- Engineering and Construction
- Legal Affairs
- Logistics, Infrastructure, Transportation
- Finance and Procurement
- President and C-level Executives

INDUSTRY PARTICIPATION*



- Oil & Gas Companies
- Government & Regulatory Agencies
- Aboriginal Groups
- Service & Supply, Construction & Engineering Companies
- Environmental
- Manufacturing & Transportation
- Other

* Arctic Gas Symposium 2006 – 2011 attendee profile

Administrative Details

PROGRAM MATERIALS

Program participants will receive a comprehensive set of program materials prepared by the speakers, as an excellent reference source after the program. If you have paid and are unable to attend, the program materials will be shipped to you upon request only. Request must be received within 30 days upon conclusion of the conference.

PAYMENT POLICY

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