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# Arctic Oil Spill

## Advancing oil spill prevention and response strategies in ice and ice-covered waters

Tuesday 4th and Wednesday 5th October 2011 — Hilton London Paddington Hotel, London

### Chairmen

**David Dickins, P.Eng.**
DF Dickins Associates, LLC

**Stephen G. Potter, P.Eng.**
SL Ross Environmental Research Ltd

### Hear from some of the sector's leading experts:

The Arctic Oil Spill programme will bring together recognised experts and oil industry professionals providing a unique opportunity to knowledge share, discuss and debate!

- **Tim Nedwed**, Engineering Associate, **ExxonMobil Upstream Research Company**
- **Signe Nåmdal**, Director of the Department of Climate and Industry, **Climate and Pollution Agency**
- **Dr Rune Storvold**, Senior Scientist, **Northern Research Institute**
- **Dr Edward H. Owens**, Principal, **Polaris Applied Sciences, Inc.**
- **Dr Kenneth Lee**, Executive Director, Centre for Offshore Oil, Gas and Energy Research, **Fisheries and Oceans Canada**
- **Kurt A. Hansen,** Lead Project Manager, Oil Spill Response, **US Coast Guard Research and Development Centre**
- **Peter Newsom**, Vice President, **DESMI Ro-Clean/AFTI**
- **Saskia Sessions**, Senior Technical Advisor, **Sea Alarm Foundation**
- **Andrew Crawford**, Senior Vice President, **Lamor Corporation**
- **David Salt,** Operations Director, **Oil Spill Response**

Just some of the critical issues our panel of experts will address…

- Regulation and legislative requirements – the Norwegian perspective
- The **behaviour of offshore oil spills** in the Arctic and the **implications for response**
- Detecting and monitoring oil in ice
- **Protection and treatment strategies** of oil spills on Arctic shorelines
- Contingency planning – **development of an oil spill response plan**
- Understanding the **long term implications of oil spill** in the Arctic
- Developing **oil spill response strategies** and reviewing oil spill response technologies
- Burning of oil in ice – a practical perspective
- The latest developments for burning in ice
- Emerging practical challenges for responding to an oiled wildlife incident in the Arctic

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# Arctic Oil Spill

## The Arctic – remote, sensitive ecosystems, extreme temperatures and ice – one of the most challenging environments in the world!

The GoM incident has focused the world's attention on the devastating affects oil spills can have on the environment, marine wildlife and local communities. This has given rise to questions regarding the safety of offshore oil operations and the response and clean-up practices currently in place.

The Arctic has one of the most pristine marine environments in the world and could be seriously impacted if an oil spill caused by either a pipeline leak or blow-out occurred at a time corresponding to wildlife concentrations and migrations.

This topical event will provide information on the very latest industry research and developments, review what is being done to prevent oil spills on ice and in ice-covered waters and outline some of the methods in place for containing and cleaning up oil spills if they do occur.

The Arctic Oil Spill programme will **bring together recognised experts and oil industry professionals providing a unique opportunity to knowledge share, discuss and debate**!

- What are the realities of oil spill in ice – dispelling the misconceptions
- What are the true capabilities currently available to deal with an oil spill
- Do Arctic conditions make dealing with an oil spill a massive task?
- The very latest R&D initiatives and programmes

## Who will benefit from attending:

- International oil companies
- International organisations working with and guiding industry on potential impact of oil & gas exploration, drilling and production in the Arctic
- R&D organisations developing new technologies and solutions
- Spill contractors, consultants and manufacturers providing clean up services and equipment
- Regulators, legislators and governments

## Chairmen

**Stephen G. Potter, P.Eng., SL Ross Environmental Research Ltd.** Steve spent three years as a research engineer for Dome Petroleum Ltd., responsible for oil spill projects in support of Dome's Beaufort Sea exploration program. Since joining SL Ross he has performed research on a variety of countermeasures, including spill recovery devices for use in brash ice, techniques for dealing with spills of viscous waxy crude oils, development and testing of fire-resistant containment booms, tanker self-help techniques, and development and testing of a fast-water containment boom. Steve has been heavily involved in the field of spill response training and contingency planning.

**David Dickins, P.Eng., DF Dickins Associates, LLC.** David has a broad range offshore experience gained through 38 years of engineering projects focusing on offshore oil exploration and development, and the marine transportation of oil in Arctic waters. Since starting his own engineering consulting firm in 1978, David has developed a worldwide reputation as an expert in Arctic environmental studies, remote sensing, shipping routes in ice, oil spills, sea ice conditions and air cushion vehicles. His background includes managing hundreds of research projects for government and industry clients, authoring or contributing to over 70 conference papers and journal articles, and organising and chairing six international conferences on Arctic environmental and transportation issues.

## Day 1 – Tuesday 4th October 2011

09.00 Registration and coffee

09.30 Chairman's welcome to Arctic Oil Spill

09.40 **Key challenges facing Arctic oil spill response**
This presentation will provide an introduction to the Arctic global business from an oil spill perspective and will highlight some o f the key challenges facing the industry and review some lessons learned and best practice from other geographical regions.
- Introductory and scene setting presentation

10.20 **Regulation and legislative requirements – the Norwegian perspective**
- The Norwegian regulations and licensing of oil & gas activities with emphasis on preparedness and response to acute pollution
- Challenges we see when licensing drilling activities in the Barents Sea, close to the coast and close to environmentally vulnerable areas
- Need for improvement in emergency response to acute pollution, in particular in Arctic areas.

**Signe Nåmdal**, Director of the Department of Climate and Industry, **Climate and Pollution Agency**


**AN INVITATION TO PROMOTE YOUR PRODUCTS AND SERVICES**
The **Arctic Oil Spill** conference provides an excellent opportunity to demonstrate your expertise, products and services to a highly targeted group of industry professionals. There are a limited number of sponsorship and exhibition opportunities available. For more information please contact **Paul Skinner** on **+44 (0)20 7017 4402** or **paul.skinner@informa.com**


10.50 Question and discussion session followed by refreshments
Refreshment breaks sponsored by DESMI RO-CLEAN

11.30 **The behaviour of offshore oil spills in the Arctic and the implications for response**
This presentation will provide a description of basic oil behaviour in ice, using some of the most significant experimental spills carried out in Canada and Norway to illustrate key points such as:
- Oil containment under ice and limits on spreading and movement
- Oil encapsulation and lack of weathering through the winter
- Oil migration in the spring exposing the oil on the ice surface
- Oil and ice drift with variable pack ice concentrations
- Natural containment provided by slush and closely packed floes
- Differences in the fate of spills into different ice environments
- Experimental spills in the Arctic

**David Dickins, DF Dickins Associates, LLC**

12.10 **Oil spills on Arctic shorelines – protection and treatment strategies**
This presentation will provide the information necessary to deal with issues and to make decisions regarding shoreline protection and treatment following an oil spill.
**Dr Edward H. Owens**, Principal, **Polaris Applied Sciences, Inc.**

12.50 Questions and discussion session followed by lunch

14.00 **Detecting and monitoring oil in ice**
This session will highlight some of the problems in detecting and monitoring oil in ice using different platforms and sensor systems
**Dr Rune Storvold**, Senior Scientist, **Northern Research Institute**

14.30 **Advancing oil spill prevention and response techniques for application in the Arctic**

This presentation will illustrate the advances in the oils spill response technology and the different type of equipment available together with case studies of a couple of recent spills where the equipment was used.

**Andrew M. Crawford**, Senior Vice President, Global Business Development, **Lamor Corporation**

15.00 Questions and discussion session followed by refreshments

15.40 **Understanding the long term implications of oil spill in the Arctic**

Degradation of oil and impact on marine wildlife and the environment

**Dr Kenneth Lee**, Executive Director, Centre for Offshore Oil, Gas and Energy Research (COOGER), **Fisheries and Oceans Canada**

16.20 ROUNDTABLE DEBATE

**Key challenges and future co-operation**

This session will allow delegates and today's speakers to discuss and debate the key challenges surrounding oil spill prevention, containment and response and what is needed in terms of future cooperation between industry, government and R&D organizations.

17.00 Close of day 1. Followed by **NETWORKING DRINKS RECEPTION**

## Day 2 – Wednesday 5th October 2011

09.00 Chairman's welcome to Day 2

09.10 **Developments in oil spill response in the Arctic – US Coast Guard Research & Development**

**Kurt A. Hansen,** Lead Project Manager, Oil Spill Response, **US Coast Guard Research and Development Centre**

09.40 **Developing oil spill response strategies and reviewing oil spill response technologies**

The selection of one or more strategies to deal with a spill will depend on a variety of factors, including the size and type of spill, and local weather and sea conditions. In an Arctic spill scenario, the presence of ice adds an additional factor for planners and decision-makers, as no single technique is applicable to all ice situations. This presentation will describe how the three main techniques of containment and recovery, in-situ burning, and dispersant use might be employed for various potential spill scenarios and in ice conditions ranging from open water to complete ice cover.

**Stephen G. Potter, SL Ross Environmental Research Ltd**

10.20 Questions and discussion session followed by refreshments

10.50 **Contingency planning – development of an oil spill response plan**

Planning and preparedness – development of an effective oil spill response plan

**David Salt,** Operations Director, **Oil Spill Response**

11.30 **Oiled wildlife response in the Arctic**

In the event of an Arctic oil spill, authorities and the oil and shipping industries may be under considerable public pressure to do something about affected wildlife, regardless of the difficult conditions, particularly for species such as polar bears which are gaining more attention as a high conservation priority. This presentation will explain the importance of developing dedicated oiled wildlife response plans and outline some of the emerging practical challenges for responding to an oiled wildlife incident in the Arctic region.

**Saskia Sessions** and **Hugo Nijkamp, Sea Alarm Foundation**

12.00 Questions and discussion followed by lunch

13.15 **Burning in ice**

In-situ burning has been considered as a primary Arctic spill countermeasure since before the start of offshore drilling in the Canadian Beaufort Sea in the mid 1970's. The technique is particularly suited for Arctic conditions: the presence of ice reduces the spreading of oil, and the reduced wave activity within an ice field tends to reduce the weathering effects that make ignition of oil more difficult. This presentation provides a description of the basic processes involved in in-situ burning, a summary of the main developments in ISB relating to its use in open water and in ice-affected waters, and a summary of the environmental trade-offs and decision-making factors involved in its use.

**Stephen G. Potter, SL Ross Environmental Research Ltd**

13.45 **The development of equipment for Arctic spill response - a manufacturer's perspective**

**Peter Newsom**, Vice President, **DESMI Ro-Clean/AFTI**

14.20 Questions and discussion followed by refreshments

14.50 **Use of dispersants in ice**

Dispersants can be an effective method of response to an oil spill. This presentation will review the use of dispersants, what is known regarding impact of dispersants on the environment and the benefits of using chemical dispersants.

**Tim Nedwed**, Ph.D., P.E., Engineering Associate, **ExxonMobil Upstream Research Company**

15.30 **Wrap-up session – what's been going on and what's planned for future research**

Review of recent and upcoming international initiatives

**David Dickins, DF Dickins Associates, LLC**
**Stephen G. Potter, SL Ross Environmental Research Ltd**

16.00 Close of conference

## Sponsors to date

**Rutter Inc.** is a global enterprise with its headquarter in St. John's, Newfoundland. The technology division is focused on the development and supply of radar processors and systems for the marine industry. With the sigma S6 family of enhanced radar systems, Rutter Technologies is as market leader at the forefront of advanced processing and imaging signals of conventional radars. We are offering radar processors and complete radar systems for:

- Automatic detection and tracking of oil spills
- Navigation in Ice and ice monitoring for arctic offshore sites
- Small target detection and VTS system enhancements for coastal surveillance and protection.

**Lamor Corporation Ab** is the largest and most diverse manufacturer of oil spill response equipment in the world. The company has headquarters with principal manufacturing sites in Finland complemented with other satellite factories and regional offices in USA, UK and China. The company develops, manufactures, and supplies best available technology (BAT) oil spill recovery equipment and services to many sectors including Arctic oil spill response equipment where the company is a world leader. Included in its portfolio of solutions, Lamor offers contingency planning, risk assessments, equipment maintenance, rental and service coupled with IMO and MCA training.

## 7th Arctic Oil & Gas Conference

November 29th-30th, 2011
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IBC Energy is delighted to announce dates for the 7th annual Arctic Oil & Gas conference – the leading event in Europe for the Arctic oil and gas industry.

Arctic Oil & Gas will focus on market trends, commercial drivers and the technical challenges of offshore oil and gas production in Arctic and cold regions. In addition to the main event, there will be two intensive one-day workshops on **Arctic Pipelines** and **FPSOs for Arctic Operation**.

For further details please visit **www.ibcenergy.com/arctic**. If you are interested in submitting an abstract for consideration please contact **sue.woolley@informa.com**

# Arctic Oil Spill 2011

**Tuesday 4th and Wednesday 5th October 2011**
**Hilton London Paddington Hotel, London**

**VIP CODE:**

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Event Code
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**Grasp the realities of oil spill in ice and ice-covered water**

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## ACCOMMODATION DETAILS

**Reduced Rate Hotel Accommodation:** The cost of accommodation is not included in the event fee. To book accommodation for the Arctic Oil Spill conference we have created a HotelMap which displays live availability and allows you to book direct with each hotel **http://www.HotelMap.com/M3ASN**

Alternatively, if you prefer to book by phone, please call Daniel Spinner on +44 (0)20 7292 2335 quoting reference code **M3ASN**.

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