In association with Lloyd's List Exclusive access to Lloyd's List online for 3 models for FREE! See booking form for more details... Exclusive access to Llovd's List online for 3 months

Organised by informa maritime events Scan with smartphone QR Reader App

North





# Exploring strategic challenges and commercial opportunities in the Arctic

Monday 29th & Tuesday 30th October 2012

Montréal Marriott Château Champlain Hotel, Montréal

SAVEup to \$500! Book by 27th July 2012

## **NEW FOR 2012**

- FOCUS on recent experiences in Arctic offshore projects and ice management for offshore operations
- SHIP OPERATORS' PANEL discussing strategies for logistics, infrastructure and aids to navigation
- **CASE STUDY** on the new Canadian Coast Guard icebreaker
- SPOTLIGHT on Arctic shipping assessments in Nunavut
- TECHNICAL INSIGHTS into dynamic positioning in ice with 3 experts
- **INDUSTRY PANEL** analyses the question: do we need to winterize?

## LIVE INTERVIEW

A shipping company's experiences of operating ships in the Arctic

- **Thomas H Paterson** Senior Vice President

Interviewed by Robert Wright US Industry correspondent Financial Times

**Fednav Limited** 

## Expert contributors will include:

- > Anders Backman, Viking Supply Ships
- > Jens Boye, Royal Arctic Line
- > Tim Keane, Canarctic
- > Rvan Barry. Nunavut Impact **Review Board**
- > Derek Buxton, Canadian Coast Guard
- > Dr Mikhail Grigoriev, GECON

- > Allan Idd Jensen, Royal Arctic Line
- > Christopher King, Petro-Nav
- > Capt Uwe Pahl, Polarstern
- > Ilja Leo Lang, AECO
- > Dan McGreer, STX Canada Marine
- > David Jackson, Canadian Ice Service

2 HALF DAY POST-CONFERENCE SEMINARS (separately bookable) Wednesday 31st October 2012 AM Ice Navigation Training and Development: moving towards a standard for competent ice-going crew PM Communications in the Arctic: requirements, gaps and solutions



Registration Hotline: +44 (0)20 7017 5511 • For latest programme and to book online, please visit: www.arcticshippingforum.com/northamerica





'Very good opportunity to get a firmer understanding of the concerns of maritime operations and the concerns in the arctic' J EVANS. DEPT OF NATIONAL DEFENCE

A warm welcome to ASF North America 2012 - the largest and original Arctic shipping conference. The

leading event for shipping professionals involved in operations in ice-covered waters, ASF North America 2012 is designed to give you the knowledge you need to prepare for the increase in Arctic activity. Leading experts from a diverse background will discuss and analyse the latest strategic, operational and technical developments.

## Key themes for 2012:

- > Resource projects for the Arctic and implications for shipping
- Policy and development strategies for the Arctic >
- > Challenges for ship operations in ice-covered waters
- Offshore operations in harsh environments
- > Environmental security and management of Arctic activities
- > Ship design, shipbuilding and technology for ice-going vessels
- PLUS two half day seminars on crew training and ice > navigation and communications in the Arctic

We look forward to welcoming you to Montreal in 2012.

Vanessa Darnborough Research Manager, Informa Maritime Events

## FEATURES FOR 2012:

## HOT TOPIC ROUNDTABLE DISCUSSIONS: 4 themed

roundtable discussions on the crucial topics of MARPOL implementation for waste management, oil spill and emergency response and insurance for ice-going voyages.

### **BREAKFAST BRIEFINGS:**

- 1. Planning under uncertainty: risk management development and planning for Arctic projects with reference to a pilot study in the **Bering Strait**
- 2. WWF-Canada report: best practices in Arctic shipping: results from a recent study on potential impacts of shipping activity and recommendations for best practices

SPOTLIGHT PANELS:

# **KEY FACTS AND FIGURES**

180+ professionals attending annually

55+ expert speakers, featuring international industry leaders

8 years experience delivering the largest dedicated Arctic shipping events

### Sunday 28th October 2012

18.00 Welcome drinks reception

## Day One: Monday 29th October 2012

08.30 Coffee and registration

## 09.30 Chair's welcome

Peter Harrison PhD

Professor, Stauffer-Dunning Chair and Director, School of Policy Studies, Queen's University

## POLICY AND DEVELOPMENT STRATEGIES FOR THE ARCTIC

#### 09.45 KEYNOTE ADDRESS

A video message from Senator Lisa Murkowski. US Senator for the State of Alaska

## RESOURCE PROJECTS FOR THE ARCTIC AND IMPLICATIONS FOR SHIPPING

### 10.05 A MINISTERIAL ADDRESS: Developments in the North: projects,

### progress and opportunities

- Key projects, timelines and future plans
- What impact is the changing climate having on potential projects?
- Investment opportunities

#### 10.30 Program for exploration and development of the continental shelf of Russia to 2030

- Location of the Arctic projects
- Applicability of Canadian and US high latitude installation decisions Dr Mikhail Grigoriev



#### 10.55 Coffee and networking break

#### 11.20 Impacts and considerations around Arctic shipping in Nunavut

 Looking at completed and ongoing assessments Ryan Barry, Executive Director, Nunavut Impact Review Board

#### 11.45 SPOTLIGHT PANEL: Evaluation of new resource exports in the Arctic: what do you need to know to develop a project successfully?

- Methodology for evaluation
- Lessons learned
- Environmental requirements
- Local community aspects

Dermot Loughnane

### 12.20 Audience feedback

12.35 Lunch

## CHALLENGES FOR SHIP OPERATIONS IN ICE-COVERED WATERS

Chair: Robert Wright US Industry correspondent Financial Times

#### 13.50 LIVE INTERVIEW: A shipping company's experiences of operating ships in the Arctic

Thomas H Paterson, Senior Vice-President

Fednav Limited Interviewed by: Robert Wright, US Industry correspondent, Financial Times

## 14.10 OPERATOR PANEL DISCUSSION: Managing the challenges for logistics, infrastructure and aids to navigation

- · How do companies deal with the lack of information and up to date charts?
- Where are the gaps and what is being done to meet these?
- · What are their priorities and where would investment be best made?
- · Comparisons in services to Nunavut and Greenland





Refreshment break





'Great opportunity to interact with arctic shipping representatives from all relevant aspects of the marine industry. Current objectives and industry experience are well represented' J KAIGHIN, SHELL

Moderated by: Christopher Wright, The Mariport Group Ltd Panellists will include:

Tim Keane, Manager Operations, Canarctic

Christopher King, Director of Operations, Petro-Nav

James D Frost, MariNova Consulting

#### 14.50 The perspective from a non-Arctic nation of the Arctic's potential for trade routes and resources

& Vice-President. Enfotec

- What are the main drivers and what are the main obstacles to developing the Arctic?
- What key strategic decisions need to be made to ensure security for development?

Dr. Baozhi Cheng, Research Fellow, Shanghai Institutes for International Studies (subject to final cont

## 15.10 SPOTLIGHT PANEL DISCUSSION: What will be the key decisions for stakeholders in the next

## few years?

- What will be Canada's priorities as Chair of the Arctic Council in 2013-2015?
- What are the US's aims for their Arctic policy?
- How do resource companies see the future potential being exploited?
- How does the rapid change in climate impact on commercial strategies and policy?
- Is AMSA being implemented and if so how?

#### Lt Cdr Kenneth J Boda, Science, Environment & Enerav Strategic Analvst US Coast Guard

Dr. Baozhi Cheng, Research Fellow, Shanghai Institutes for International Studies (subject to final confirm

Dr Jackie Dawson, Canada Research Chair in Environment, Society and Policy, Institute for Science, Society and Policy (ISSP), University of

Dr Mikhail Grigoriev GECON

Wylie Spicer QC Norton Rose Canada

15.50 Tea and networking break

### OFFSHORE OPERATIONS IN HARSH ENVIRONMENTS

Chair: Anders Backman, Manager Polar Operations/Ice Council Chairman, Viking Supply Ships

### 16.10 CASE STUDY

#### Experiences from recent offshore projects

- Project management and logistics
- Problems encountered and overcome
- Ship design for use in ice environments
- Ensuring environmental security
- 16.35 Determining the ice management capability
  - Principal factors for physical ice management • How the ice management requirement can be determined
  - Model scale testing
  - Calculation tools
  - Real-time simulation techniques

Reko-Antti Suojanen, Naval Architect, Manager, Research and Development, Aker Arctic Technology Inc

### Ice detection for offshore operations

- Experiences from Greenland and Labrador
- Risk assessment
- Sten Warnfeldt Area Managel Sea-Hawk Navigation AS

#### 17.15 Dynamic positioning in ice: key challenges and technical solutions

- What are the problems and how do you solve them?
- Operating experiences in practice: reality versus theory Training for DP in ice
- Vessel requirements in different conditions



Capt Uwe Pahl, Master, Polar Stern, Reederei F. Laeisz (Bremerhaven) GmbH on behalf of Foundation Alfred-Wegener-Institute for Polar and Marine Research

#### Anders Backman, Manager Polar Operations/Ice Council Chairman, Viking Supply Ships

Capt Christopher Hearn, Director, Centre for Marine Simulation. The Marine Institute. Memorial University

#### 17.45 Developments in provision of ice information for offshore operations



18.15 Close of day one and networking drinks reception

## Day Two: Tuesday 30th October 2012

## 0800 BREAKFAST BRIEFING 1

## Planning under uncertainty: risk management development and planning

## for Arctic projects

- Methodologies for future planning under uncertain conditions
- This type of 'stress test' is valuable in situations where it is difficult to predict future conditions
- Understanding system weaknesses can lead to solutions that reduce risk across a range of potential
- future conditions A pilot study examining future collision risk in the Bering Strait to illustrate these concepts





1 11 RAND Corporation

## 0800 BREAKFAST BRIEFING 2

#### WWF-Canada report: best practices in Arctic shipping

Results from a study on potential environmental and social impacts of shipping activity in the Arctic and recommendations for best practices companies can adopt to minimize negative impacts and promote greater sustainability.

Led by: James R. Parsons, Owner Operator, Global Marine Solutions

Marc Gagnon, Director, Government Affairs, Fednav Limited Martin von Mirbach, Arctic Program Director, WWF-Canada

#### 08.50 Coffee

#### ENVIRONMENTAL SECURITY AND MANAGEMENT OF ARCTIC ACTIVITIES

#### 09.15 Chair's introduction

Julie Gascon, Director, Design, Equipment and Boating Safety and Acting Director, Domestic Vessel Regulatory Oversight, Marine Safety and Security, Transport Canada

#### 09.20 Sustainable investments in Arctic shipping - a Greenland perspective

- · Factors to consider to achieve sustainable growth in
- Arctic shipping
- How to handle high risk profiles
- Investments in offshore and mining projects Update on cruise ship developments •

For the latest programme or to register visit: www.arcticshippingforum.com/northamerica

Danish Maritime Authority

Per Sønderstrup . Head of Centre

#### 09.45 Expedition cruise operations: sustainability, safety, development and future growth

- About AECO (organization, objective, strategies, structure and work)
- · About AECOs guidelines (operational, visitors and sitespecific) and AECO's work for responsible, sustainable and safe expedition cruise operations in the Arctic
- About AECO's members (vessels (sizes and numbers) and geographical area
- Expedition cruise tourism in the Arctic (numbers, expected development and future growth?)



Ilja Leo Lang, Project Manager AECO (Association of Arctic Expedition Cruise

## 10.10 CASE STUDY

#### Northwest Passage transits by very large passenger vessels

- Challenges and solutions for these transits:
- Charts and aids to navigation Harbour facilities and passenger landing zones
- Search and rescue provision, and emergency response
- Coordination of passenger vessel transits
- Seasonal supply and refuelling facilities
- \_ Future of large cruise ships in the Arctic

#### Captain Patrick R. M. Toomev Canadian Coast Guard (retired), Owner

Isbiorn International

#### 10.35 The Polar Code: status report and projected timetable



Vice-President Ottawa Operations STX Canada Marine

Panellists: James Bond, Director, Shared Technology, ABS

Discipline Leader, Arctic Operations and

Bud Streeter, Vice President & Marine Manager for Canada,

Attendees can participate in two of the four groups as

MARPOL implementation, port

protection for Arctic shipping

Led by: William Adams

Coast Guard (subject to final confirmation,

RESTCO

dealt with?

infrastructure and environmental

Led by: Capt David A Condino, Facility Safety Branch, US

2 Oil spill response in ice covered waters

Vice President, Strategic Planning

Emergency preparedness, rescue and

Programme, National Search and Rescue Secretariat

4 Insurance for ice-going voyages: what

are the risks covered and what are

Led by: François Janson

insurers' main concerns?

Holland & Knight

Led by: Ron Kroeker, A/Director Policy and

response: how would a major incident be

Allan Idd Jensen, Nautical Superintendent Roval Arctic Line Morten Mejl nder-Larsen

Technology, DNV

11.45 ROUNDTABLE DISCUSSIONS

Llovd's Register Canada Ltd

11.15 Coffee and networking break

each will be repeated.

1



Provided good updates on arctic shipping, network opportunities and a view of Canadian challenges' p sønderstrup, dma

'A good chance to compare European and North American approach to Arctic development' v kuzmin, admiral makarov state maritime academy

### 12.15 Repeat of roundtable discussions

12.45 Feedback to the plenary session from the discussions

13.00 Lunch

## SHIP DESIGN. SHIPBUILDING AND TECHNOLOGY FOR ICE-GOING VESSELS

Chair: Morten Mejlænder-Larsen Discipline Leader, Arctic Operations and Technology, DNV

#### 14.15 Design of an Arctic LNG powered patrol vessel

- A flexible vessel designed to meet multiple scenarios
- Modular design for patrol, research, supply, search and rescue
- Mark Keneford, President, Wärtsilä Canada

### 14 40 Ice accretion on deck structures in a marine environment

- The effects of cold temperatures and wind on vessels operating in the Arctic
- Measurement of power consumption of heat tracing on board vessels
- Future requirements for energy efficient vessels Knut Espen Solberg, Senior Consultant, DNV

#### 15.05 PANEL DISCUSSION: Do we need to winterize?

- What should be included?
- Do we need a Notation? •
- What should/should not be included?
- · Practical experience from the audience, what works/ doesn't work, and why
- Is the supply industry ready to deliver equipment for low temperatures and Arctic conditions?

#### Panellists include

Jens Boye, Fleet Manager, Royal Arctic Line

#### John Dolny, Engineer, ABS Harsh Environment Technology Centre

Knut Espen Solberg, Senior Consultant, DNV Guido Schulte, Head of Project Design Department Nordic Yards



Business Development Manager, Winterization & CT h Arctic Solutions, Tranberg / Thermon

#### 15.45 Tea and networking break

#### 16.00 Understanding the formation of pressured ice

- Updates done to the pressured ice model to be used as a tool for predicting pressured ice build-up and dynamics of ice in the Strait of Belle Isle
- · Identifying zones that present risk of besetting

- Examining parameters influencing besetting of vessels and proposing new besetting criterion that includes ice pressure, ridging and convergence
- An approach for the analysis of besetting incidents and for predicting besetting risks Ivana Kubat, Project Engineer, NRC-Canadian Hydraulics

Centre

### 16.25 US icebreakers comparison to IACS Polar Class

James Bond, Director, Shared Technology, ABS

### 16.50 CASE STUDY: Design criteria for building new ships for the Arctic

- The Canadian Coast Guard polar icebreaker proiect
- Operational context and the development of requirements
- The design process and overview of the current design

Derek S Buxton, Project Manager Polar Icebreaker, Major Crown Projects Directorate, Canadian Coast Guard

Dan McGreer, Project Manager, Polar Icebreaker Design, STX Canada Marine

17 20 Audience feedback

17.30 Close of conference

## TWO HALF-DAY SEMINARS (separately bookable)

## AM: ICE NAVIGATION TRAINING AND DEVELOPMENTS: MOVING TOWARDS A STANDARD FOR COMPETENT ICE-GOING CREW

An expert panel of maritime educators, master mariners, ship operators and regulators will give you the key criteria for developing competent ice navigators and ice-going crew, focusing on the Nautical Institute's Ice Navigator project for a global standard. Through presentations, group work and plenary discussions this seminar will give you a solid basis for understanding the standard and allow you to give your input into the development process.

#### Chaired by: Capt David Snider, Vice President and Chair of Ice Navigator Working Group, The Nautical Institute

#### Workshop leaders

Capt Christopher Hearn, Director, Centre for Marine Simulation, The Marine Institute,

Memorial University Vladimir Kuzmin, Senior Lecturer, Admiral

Makarov Maritime State Academy

Per Sønderstrup Head of Centre Danish Maritime Authority

#### 09.00 Coffee and registration

### 09.30 Chair's introduction: the Nautical Institute's Ice Navigator project final draft standard

- Aims and objectives
- Areas of concern · Regulatory requirements

## 09.50 Ice navigator training

- · Development of unified standards of skills and competency
- Development of appropriate training for different levels of certification

- Use of simulators: how much time should be spent in the classroom as opposed to practical ophoard experience? Follow-on phase after ice navigation
- standards agreed 10.30 What is the definition of an ice

## navigator?

- Review and finalisation of levels of skills and knowledge required
- Determination of competencies required to provide skill and
- knowledge · Understanding of ice conditions and
- standardisation of requirements Practical experience necessary
- 11.10 Coffee and networking break

#### 11.30 Views from the ship operator and regulator

- What are the operator's main concerns?
- Requirements for competence and skills in ice conditions
- 12.10 Debate on finalizing the Ice Navigator project for submission to the Nautical Institute's Professional **Development Committee**

## 12.45 Close of morning seminar and lunch

13.30 Registration for afternoon seminar Chaired by David Jackson, Director,



## Wednesday 31st October 2012

## PM: COMMUNICATIONS IN THE ARCTIC: **REQUIREMENTS, GAPS AND SOLUTIONS**

## 13.45 Overview of current

situation in the Arctic Lack of effective communications and relevant infrastructure in the Arctic are significant hazards to safe operations. Where are the current gaps? What are the options and solutions to the difficulties?

14.00 Vessel traffic management and navigation in the Arctic

- Monitoring systems Coordination and communication
- Louis Robert, MCTS Officer, Canadian Coast Guard

## 14.25 Space based support for Arctic operations

- Status of the Arctic
- Current satellite coverage of the Arctic
- Providing broadband sitcom for the Arctic
- Dr Leslie Wickman. Senior Engineering Specialist,

#### Space Architecture Dept, The Aerospace Corporation

## 14.55 Tea and networking break

- 15.10 Communicating in the Arctic: weather information, sea ice conditions, ship-to-ship and ship-to-shore
  - Accessing and communicating accurate information Current communications
  - systems and future possibilities
  - Cost issues

Registration Hotline: +44 (0)20 7017 5511

#### Panellists. Guennadi Kroupnik. Director, Satellite Communications and Space Environment Projects, Canadian Space Agency



Dr Jan Osburg Fnainee RAND Corporation

15.50 Aids to navigation: fixed

aids, shore-based or

satellite-based

Challenges

Future needs

Christopher Wright,

The Mariport Group Ltd

16.30 DISCUSSION SESSION

What needs to be

improved for safe

17.00 Close of seminar

operations with the

increase in Arctic traffic?

and expectations

Jack Rigley, Director, New Satellite Initiatives, Telesat

and floating, long range

Overview of the current status

Tim Keane, Manager Operations,

Canarctic & Vice-President, Enfotec



"I truly got a lot out of the conference. The information acquired from all of the presentations greatly expanded my limited arctic knowledge and experience. Informa did a great job organising and facilitating." J LALLY, US COAST GUARD

#### SILVER SPONSORS



Fednav Limited, formed in 1944, is a privatelyowned company and the largest dry-bulk shipping group in Canada. The group operates a fleet of 85 bulk carriers-50 of which are ice-class-ranging in sizes from 17,500 to 55,700 DWT. In 2011, the Fednav fleet performed over 800 voyages worldwide and transported more than 2888

million tonnes

Fednav has been operating in the Canadian Arctic for over 60 years and today transports over two million tonnes industrial minerals annually from the North. Fednav owns the two largest, highest-class ice-breaking bulk carriers in the world, the MV Arctic and MV Umiak I, both of which operate unescorted year-round in the Canadian Arctic.

A subsidiary of the Group, Enfotec Technical Services, specializes in ice analysis and vessel-routing services for ships operating in ice-covered waters.

Headquartered in Montreal, the group maintains commercial offices overseas in London. Hamburg, Antwerp, Brisbane, Rio de Janeiro, Singapore, and Tokyo. www.fednav.com



DNV is a global provider of services for managing risk, helping customers to safely and responsibly improve their business performance. As companies today are operating in an

increasingly more complex and demanding risk environment, DNV's core competence is to identify, assess, and advise on how to manage risk. Its technology expertise and industry knowledge, combined with its risk management approach, have been used to manage the risks involved in numerous high-profile projects around the world. Organised as an independent, autonomous foundation, DNV balances the needs of business and society, based on its independence and integrity. With its objective of safeguarding life, property and the environment, DNV serves a range of industries, with a special focus on the maritime and energy sectors. Established in 1864, the company has a global presence with a network of 300 offices in 100 countries

## **BRONZE SPONSOR**



Lloyd's Register assesses and certifies ships, systems and facilities to help improve quality and increase safety. We provide ship yards, owners and operators with innovative solutions that help improve performance in ship design, construction and operation. We respond to change and lead the developments that make lives safer and help preserve the environment. Because life matters, safety and a responsibility for the environment are not negotiable. Standards have to be applied consistently. Lloyd's Register has the confidence, independence and experience to do this. Besides classing ships, we provide a wide range of advisory, consultancy and training services. For Lloyd's Register, life matters.

## Additional Sponsors and Exhibitors to date



ABS has been the preferred classification society for the offshore and energy industry for more than 50 years. Acknowledged by the industry as a technology leader in the offshore and energy markets, ABS offers practical standards for the design, construction, operation and maintenance of offshore drilling

and production units and gas carriers. To this end, the ABS Harsh Environment Technology Centre, located on the campus of Memorial University of Newfoundland, was opened in 2009. The Centre supports the development of technologies for ships and offshore structures operating in harsh environments, particularly the Arctic.



Nordic Yards with its shipyards in Wismar and Rostock combine innovative concepts and high-tech manufacturing with strict adherence to delivery dates and an outstanding quality of their products. This competence is based on a team of more than 150 engineers that are active in research, development and design as well as a highly qualified production staff, state-of-the-art and

weather independent facilities. More than 100 vessels of ice class 1A and above have been designed and built at Nordic Yards shipyards mainly for Arctic deployment. In September 2011 Nordic Yards has delivered a dual classed RMRS/ DNV ARC7/ICE15 icebreaking product tanker for Norilsk Nickel



Since its establishment in March 2000 Sea-Hawk Navigation AS has worked intensively with research and development aiming to improve radar sensor technology as an important contribution to improve safety at sea. Our slogan 'Enhanced Visibility - Improved Safety' is inspired by this ambition. Our ambition is also to contribute to

improvements within areas like environmental surveillance (e.g. oil spill detection), detection and tracking of ice/icebergs, ship and at-shore/inshore/offshore terror strike warning, homeland security and general vessel traffic surveillance. www.sea-hawk.no



## **Official Publication** Lloyd's List

# Media Partner

Canadian | Transportation & Sailings | Trade Logistics www.conodione

### Sponsorship and Exhibition opportunities at this event

The ASF North America Forum and Seminars provide a gateway to the cold climate shipping industry and attracts senior level representatives on a global scale, providing unmatched networking opportunities.

Extend your reach to the shipping industry and join the companies that are supporting this industry acclaimed event. There are a limited number of sponsoring, branding and exhibitor packages available, which can be tailor-made to complement your company's goals and objectives

For further information about sponsorship and exhibition opportunities, contact Paul Skinner on +44 (0)20 7017 4402, paul.skinner@informa.com

## Past attendees have included

Groupe Desgagnes Inc

Dept of Aboriginal Affairs and

Northern Development

Institut Maritime Du Quebec

Lloyds Register North America

Maritime & Ocean Engineering

Maritime Simulation & Resource

Logistec Stevedoring Inc

Research Institute

International Registries Inc Inuvialuit Game Council

Island Tug and Barge

Konasbera Maritime

Groupe Ocean Hurtigruten ASA

Industry Canada

Isbjorn Intl

Inc

Marin

Marinvest AB

Centre

McInnes Cooper

McKeil Marine Ltd

National Research Council

National Search & Rescue

Nord Marine Services Ltd

Northern Transportation

Company Ltd

Administration

Nunavut Eastern Arctic

Nunavut Impact Review Board

PF Collins Intl Trade Solutions

Technology

Shipping Inc

Oldendorff Carriers

Petro Canada

Petro-Nav Inc

NYJ Line

Nordic Yards Wismar GmbH

National Defence

Canada

NOAA

Secretariat

ABB Oy Marine Aker Arctic Technology Inc Algoma Central Marine American Bureau of Shipping Anglo American Services UK I td Arctia Offshore Ltd Atlantic Canada Opportunities Agency Atlantic Towing Ltd Autoridad del Canal de Panama Baffinland Iron Mines RP

Belledune Port Authority Borden Ladner Gervais Llp Canada Steamship Lines Canadian Coast Guard Canadian Ice Service Canship Ugland Ltd Cape Harrision Marine . ClassNK ConocoPhillips Converteam Canada Corporation of Lower St Lawrence Pilots Crowley Sakhalin LLC Daewoo Shipbuilding & Marine Eng Ltd Dampskibsselskabet Norden

A/S Danish Maritime Authority Deltamarin Ltd Department of National Defence Department of Transport Marine Norwegian Coastal Safety Det Norske Veritas (Canada) Ltd NRC Institute for Ocean DVB Bank NV Fisheries & Oceans Canada Gecon Ltd GeoVentures Government of Greenland Government of Newfoundland & Oceanex Inc Labrador

Government of the Northwest Territories Greenpeace USA

# Linked in

Join our Arctic Shipping Linked-in Group: converse with fellow attendees and other interested parties involved in Arctic shipping. Continue networking outside of the conference, stay informed of industry developments and meet new contacts!

Quebec Port Authority RDC **Bio Tinto** Robert Allan Ltd Royal Arctic Line A S Saguenay Port Authority Samsung Heavy Industries Scana Propulsion Systems Scan-Trans Inc Seaspan International Seaspan Marine Corp Shell Snc Lavalin Defence Programs Inc Stena Bulk AB Stena Rederi AB STX Canada Marine Subsea Industries NV Suomi Shipping Services Oy I td Svitzer Canada Ltd Svitzer Salvage BV Svitzer Wijsmuller Caribbean Ltd Thordon Bearings Inc Tidewater Tranberg AS Transport Canada Transportation Safety Board of Canada Ubitec BV United Kingdom Hydrographic Office United States Coast Guard US Transportation Command USDOT Maritime Administration USTRANSCOM Wartsila Canada Inc Wartsila France S A S Wartsila Ship Powe William M Sharpe Barristers & Solicitor Worley Parsons Westman

Pompeii Shipping Inc

Qikitani Inuit Association



To make payment by Credit Card: To ensure we provide the highest level of security for your credit card details we are unable to accept such payments via email or fax which ensures that these details are never stored on our network. To make payment by credit card on-line, please enter your credit card details in our secure payments website that you will use when making your booking via the event website (the event web address is near the top of the booking form). Alternatively call our customer service team on +44 (0)20 7017 5511 Delegates who do not pay with their booking are requested to provide a copy of their credit card / cheque details to help payment allocation. Staff at the event will request a credit card guarantee for

LP/LE/VGD/TC/KL/PW/TR

Fax

Fax

Email

Email

delegates without proof of payment

Informa plc Company number 102786, Registered in Jersey, Registered office address: 22 Grenville Street, PO Box 87, St Helier, Jersey, JE4 8PX Address: Gubelstrasse 11, CH-6300, Zug, Switzerland.

and submitting this registration form, you confirm that you

Delegate Terms and Conditions and you agree to be bound

have read and understood the Informa Maritime Events

by them