<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>08:30 - 09:15</td>
<td>Registration and coffee</td>
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<tr>
<td>09:15 - 09:25</td>
<td>Chair's welcome</td>
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<tr>
<td>09:25 - 09:45</td>
<td>Participants</td>
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<tr>
<td></td>
<td>Michael Broad - President, Shipping Federation of Canada</td>
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<tr>
<td>09:45 - 10:20</td>
<td>STRATEGIC OVERVIEW OF ARCTIC DEVELOPMENT</td>
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<tr>
<td></td>
<td>• Goals for the new Arctic Region</td>
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<td>• Progress on Arctic programs, services and initiatives</td>
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<td>• Marine awareness information system</td>
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<td>• Northern low-impact shipping corridors</td>
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<td>• Arctic emergency response and SAR</td>
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<td>• Icebreaking capacity, current and future</td>
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<td>Participants</td>
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<td></td>
<td>Thomas Paterson - Senior Vice President, Ship Owning, Arctic and Projects, Fednav Limited</td>
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<td>10:20 - 10:45</td>
<td>Future drivers for resource development in the North: implications for shipping, ports and other Infrastructure</td>
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<td>• Current mines and projects: status and future plans</td>
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<td>• Progress with the new port at Iqaluit</td>
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<td>• Further requirements and planned projects</td>
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<td>• Offshore developments: projects and forecasts</td>
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<td>• Community perspective</td>
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<td>Panellist: Inuuteq Holm Olsen - Head of Representation, Greenland Representation</td>
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<td>Panellist: John Vandenburg - Assistant Deputy Minister, Programs &amp; Services, Department of Infrastructure, Government of Northwest Territories</td>
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<td>Panellist: Mike Paulin - Technical Adviser, Intecsea</td>
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<td>Moderator: Christopher Wright - Marine Logistics Specialist, Advisian</td>
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<td>11:10 - 11:40</td>
<td>Networking coffee break</td>
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<td>11:40 - 12:00</td>
<td>STRATEGIC OVERVIEW OF ARCTIC DEVELOPMENT</td>
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<td>Yuri Sekretev - Director, Arctic Bulk AG</td>
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<td>12:00 - 12:20</td>
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<td>Bjørn Gunnarsson - Associate Professor, Centre for High North Logistics (CHNL), Nord University</td>
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<td>14:15 - 14:20</td>
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<tr>
<td>14:20 - 15:05</td>
<td>ICEBREAKER INDUSTRY FOCUS SESSION</td>
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<td></td>
<td>• Design criteria and capabilities for new icebreakers</td>
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<td>• The “Xue Long 2”</td>
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<td>• Update on the US Polar Security Cutter project</td>
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<td>• The Canadian Royal Navy’s AOPs vessels</td>
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<td>Panellist: Thom Burke - VP Washington Operations, ST Engineering North America Inc</td>
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<td>Panellist: Andrew Kendrick - Vice President, Vard Marine Inc</td>
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<td>Panellist: Jukka Salminen - Sales Manager, Aker Arctic Technology Inc</td>
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</tbody>
</table>
Panel discussion: Arctic icebreaking support, today and tomorrow
15:05 - 15:45
ICEBREAKER INDUSTRY FOCUS SESSION
• What is happening now in the Canadian and US Arctic?
• How does this compare with the Russian Arctic?
• Light icebreakers as part of providing icebreaking services for winter navigation
• How will demands change as traffic patterns and ice conditions change?
• Will icebreakers be required in 2050?

Participants
Panellist: RAdm Nigel Greenwood, RCN (Ret’d) - Associate, Martech Polar Consulting Ltd
Panellist: Jarkko Toivola - Director, Alfons Hakans Ltd

Audience feedback
15:45 - 15:55
ICEBREAKER INDUSTRY FOCUS SESSION

Networking tea break
15:55 - 16:20

Chair’s welcome
16:20 - 16:25
SPECIAL FOCUS TRACK 1: EMISSIONS MANAGEMENT, FUEL OPTIONS AND SHIP DESIGN FOR ICE-GOING VESSELS

Participants
Matthw Thomas - Senior Engineer, Vard Marine

Chair’s welcome
16:20 - 16:25
SPECIAL FOCUS TRACK 2: ARCTIC CRUISE TOURISM AND ENVIRONMENTAL CONCERNS

Participants
Christopher Wright - Marine Logistics Specialist, Advisian

Community engagement and concerns: initiatives to mitigate risks and enhance benefits of ship transits
16:45 - 17:05
SPECIAL FOCUS TRACK 2: ARCTIC CRUISE TOURISM AND ENVIRONMENTAL CONCERNS
• MOU between the Govt of Nunavut and AECO to work together on cruise tourism
• Increasing community partnerships to monitor ship passages in sensitive areas

Participants
Alex McNeil - Director of Product, Quark Expeditions

Propulsion solution supporting Canadian Arctic shipping
17:25 - 17:45
SPECIAL FOCUS TRACK 1: EMISSIONS MANAGEMENT, FUEL OPTIONS AND SHIP DESIGN FOR ICE-GOING VESSELS

Participants
Samuli Hanninen - Key Account Director, ABB

Audience feedback
17:45 - 17:50
SPECIAL FOCUS TRACK 2: ARCTIC CRUISE TOURISM AND ENVIRONMENTAL CONCERNS

Audience feedback
17:45 - 17:50
SPECIAL FOCUS TRACK 1: EMISSIONS MANAGEMENT, FUEL OPTIONS AND SHIP DESIGN FOR ICE-GOING VESSELS
Close of day one and networking drinks reception
17:50 - 19:20
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<td>10:20 - US policy towards the Arctic: current and future plans</td>
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<td>10:45 - Russian plans for the Arctic: reorganisation of the Northern Sea Route Administration and future requirements for resource projects</td>
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| 15:00  | 15:05 - Panel discussion: Arctic icebreaking support, today and tomorrow  
15:45 - Audience feedback  
| 16:00  | 16:20 - Chair's welcome  
16:25 - Managing the new ice class correction for EEDI  
16:55 - Fuel options after IMO 2020 | 16:20 - Chair's welcome  
16:25 - The expedition cruise market to 2024: significant expansion  
16:45 - Community engagement and concerns: initiatives to mitigate risks and enhance benefits of ship transits | | |
| 17:00  | 17:50 - Close of day one and networking drinks reception | 17:25 - Propulsion solution supporting Canadian Arctic shipping  
17:45 - Audience feedback  
17:50 - Close of day one and networking drinks reception | 17:05 - Understanding the changing ice conditions and its impact on shipping routes, ship traffic and local communities  
17:45 - Audience feedback  
17:50 - Close of day one and networking drinks reception | 17:50 - Close of day one and networking drinks reception |
Networking coffee break
10:50 - 11:15

How does the process of achieving a polar ship certificate work?
11:15 - 11:40
OPERATIONALIZING THE POLAR CODE

Participants
Morten Mejlaender-Larsen - Director, Arctic Operation and Technology, DNV GL

Case study: a shipowner’s experience to achieving a polar ship certificate
11:40 - 12:05
OPERATIONALIZING THE POLAR CODE

Participants
James Bond - Director, Business Development – Global Government, ABS

Enforcing the Polar Code: how will this work in practice?
12:05 - 12:35
OPERATIONALIZING THE POLAR CODE

Participants
Panellist: Vladimir Kuzmin - PCO, Federal Agency for Maritime and Inland Shipping

Networking lunch
12:45 - 13:45

Analysis of the Guidelines for Assessing Ice Operational Risk
13:45 - 14:10
RISK MANAGEMENT

Participants
Drummond Fraser - Marine Safety Policy Adviser, Transport Canada

Using POLARIS: vessel reporting and ice chart comparisons
14:10 - 14:35
RISK MANAGEMENT

Participants
James Bond - Director, Business Development – Global Government, ABS

Audience feedback
14:35 - 14:45
RISK MANAGEMENT

Networking tea break
14:45 - 15:05

Case study: rescue towing
15:05 - 15:25
EMERGENCY PREVENTION, RESPONSE AND SAR

Participants
Jim Butler - Director, External & Regulatory Affairs, AlaskaSeas

Audience feedback
15:25 - 15:30
EMERGENCY PREVENTION, RESPONSE AND SAR

Ice forecasting: using the data effectively
15:30 - 16:15
MARITIME DOMAIN AWARENESS: ICE FORECASTING, MAPPING AND CHARTING

Participants
Panellist: Pascale Bourbonnais - Ice Analyst, Enfotec
Panellist: Keld Qvistgaard - Client Relations Manager/Senior Ice Advisor, Greenland Ice Service, Danish Meteorological Institute
Panellist: Scott Weese - Chief of Operations, Canadian Ice Service

Operational realities for ice-going ships: managing logistics, weather and unexpected events
10:10 - 10:50
CHALLENGES FOR SHIP OPERATIONS IN ICE-COVERED WATERS

Participants
Panellist: Niels Gram - President, Fathom Marine Inc
Panellist: Sarah Norgaard - Senior Fleet Operator, Arctic Operations and Projects, Fednav

Audience feedback
10:00 - 10:10

The view from ICC Canada: ensuring sustainable environmental, transport, economic and security developments in the Arctic
09:40 - 10:00

Participants
Lisa Koperqualuk - Vice President (International), Inuit Circumpolar Council Canada

Audience feedback
12:35 - 12:45

Networking coffee
08:30 - 09:00

Chair’s welcome and recap of day one
09:00 - 09:10

Participants
Tom Ekgegren - Senior Vice President, Arctica Icebreaking Ltd

Opening address: Ensuring safety and security in the Canadian Arctic
09:10 - 09:40

• Managing ship activity in the Canadian Arctic
• Oceans Protection Plan
• Emissions reduction
• Underwater noise
• Cruise ship guidelines
• Safety measures for non-SOLAS vessels

Participants
Bruce Burrows - President, Chamber of Marine Commerce

The view from ICC Canada: ensuring sustainable environmental, transport, economic and security developments in the Arctic
09:40 - 10:00

• Developing an Arctic Policy Framework
• Understanding the impact of climate change on local communities
• Gaining community engagement
• Undertaking impact benefit agreements

Participants
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Audience feedback
10:00 - 10:10

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Audience feedback
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Panellist: Scott Weese - Chief of Operations, Canadian Ice Service

Audience feedback
15:25 - 15:30
EMERGENCY PREVENTION, RESPONSE AND SAR
### Focus Session: Communications in the Arctic: requirements, gaps and solutions

16:15 - 17:00
MARITIME DOMAIN AWARENESS: ICE FORECASTING, MAPPING AND CHARTING

**Participants**

- **Chris Schonhut** - Maritime Sales Manager, Applied Satellite Technology Ltd (AST)
- **Jeffrey Osborne** - Co-founder and VP Business Development, Kepler Communications Inc
- **Steve Noel** - Product Line Director, Thales
- **Dan Rooney** - Director, Maritime LOB, EMEA & Russia, Iridium

### Audience feedback

17:00 - 17:15
MARITIME DOMAIN AWARENESS: ICE FORECASTING, MAPPING AND CHARTING

### Chair's summary and close of conference

17:15 - 17:20
## Challenge for Ship Operations in Ice-Covered Waters

- **08:30 - Networking coffee**
- **09:00 - Chair's welcome and recap of day one**
- **09:10 - Opening address: Ensuring safety and security in the Canadian Arctic**
- **09:40 - The view from ICC Canada: ensuring sustainable environmental, transport, economic and security developments in the Arctic**

## Emergency Prevention, Response and SAR

- **08:30 - Networking coffee**
- **09:00 - Chair's welcome and recap of day one**
- **09:10 - Opening address: Ensuring safety and security in the Canadian Arctic**
- **09:40 - The view from ICC Canada: ensuring sustainable environmental, transport, economic and security developments in the Arctic**

## Maritime Domain Awareness: ICE Forecasting, Mapping and Charting

- **08:30 - Networking coffee**
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- **09:10 - Opening address: Ensuring safety and security in the Canadian Arctic**
- **09:40 - The view from ICC Canada: ensuring sustainable environmental, transport, economic and security developments in the Arctic**

## Operationalizing the Polar Code

- **08:30 - Networking coffee**
- **09:00 - Chair's welcome and recap of day one**
- **09:10 - Opening address: Ensuring safety and security in the Canadian Arctic**
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## Risk Management

- **08:30 - Networking coffee**
- **09:00 - Chair's welcome and recap of day one**
- **09:10 - Opening address: Ensuring safety and security in the Canadian Arctic**
- **09:40 - The view from ICC Canada: ensuring sustainable environmental, transport, economic and security developments in the Arctic**

**09:00**
- Audience feedback
- **10:00 - Audience feedback**
- **10:50 - Networking coffee break**

**10:00**
- **11:00**
  - How does the process of achieving a polar ship certificate work?
  - **11:15** - How does the process of achieving a polar ship certificate work?
  - **11:40** - Case study: a shipowner's experience to achieving a polar ship certificate

**12:00**
- Networking lunch
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<td>09:40 - 09:55</td>
<td>Meet your fellow attendees</td>
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<td>09:55 - 10:40</td>
<td>Crew training: simulation and modelling for ice navigation</td>
<td>Christopher Hearn - Director, Centre for Marine Simulation, The Marine Institute, Memorial University</td>
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<td>10:40 - 11:20</td>
<td>Identifying ice conditions and communicating these to the ship</td>
<td>Keld Qvistgaard - Client Relations Manager/Senior Ice Advisor, Greenland Ice Service, Danish Meteorological Institute Pascale Bourbonnais - Ice Analyst, Enfotec</td>
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<td>11:40 - 12:15</td>
<td>Risk assessment for vessel activity in ice</td>
<td>RAdm Nigel Greenwood, RCN (Ret'd) - Associate, Martech Polar Consulting Ltd</td>
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<td>Winterization: developing a notation to comply with the Polar Code</td>
<td>Morten Mejlaender-Larsen - Director, Arctic Operation and Technology, DNV GL</td>
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<td>13:45 - 14:15</td>
<td>Management of ice accretion to ensure equipment performance</td>
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<td>14:15 - 14:45</td>
<td>Discussion session: ensuring functionality of equipment in low temperatures</td>
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<td>14:45 - 14:50</td>
<td>Close of seminar</td>
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<td>TIME</td>
<td>09:00</td>
<td>09:30</td>
<td>09:40</td>
<td>09:55</td>
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<td>09:00 - Registration and coffee</td>
<td>09:30 - Chair’s welcome and introduction</td>
<td>09:40 - Meet your fellow attendees</td>
<td>09:55 - Crew training: simulation and modelling for ice navigation</td>
<td>10:00 - Identifying ice conditions and communicating these to the ship</td>
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