

# SESSIONS

## ARCTIC SHIPPING EUROPE - DAY 1 (TIME ZONE CET) -

## Arctic Shipping Virtual Week

27 – 30 October 2020

Virtual Event: Live-Streamed & Available On-Demand  
CET - day 1 & day 2; EDT - day 3 & day 4

### Registration and welcome coffee

09:30 - 09:55

### Welcome address

09:55 - 10:00  
Day 1

### Participants

**Mikhail Grigoriev** - Co-owner and Director, GECON

### Opening Keynote

10:00 - 10:20  
Day 1

### Participants

**Sergey Khrushchev** - Vice-President, ROSGEO - Russian State Geological Holding

### Current developments in Russian policy and regulation in the Arctic and The Northern Sea Route

10:20 - 10:40  
Day 1

### Participants

**Magomed Gekhaev** - Vice-President, Far East Development Fund

### Polar Cruise Fleet - Impact of COVID-19

10:40 - 11:00  
Day 1

### Participants

**Eero Makinen** - Managing Owner, Emmanoa Ltd

### Live Q&A Session

11:00 - 11:20  
Day 1

Your opportunity to have your questions answered from the morning's three speakers.

### Morning Break

11:20 - 12:20  
Day 1

Take 15 minutes to grab yourself a coffee or check in on your emails. The networking room will also be open to attendees.

### The Nautical Institute's Ice Navigation Scheme

12:20 - 12:40  
Day 1

### Participants

**James Luetchford** - Assistant Manager, DP Certification Team, The Nautical Institute

### A snapshot of new vessels for Arctic operations

12:40 - 13:00  
Day 1

- What were their design criteria?
- What are their capabilities?

### Participants

**Reko-Antti Suojanen** - Managing Director, Aker Arctic Technology Inc

### Predictive maintenance in Arctic Shipping

13:00 - 13:20  
Day 1

### Participants

**Jarkko Sirrola** - Predictive Maintenance Manager, Steerprop

### Live Q&A Session

13:20 - 13:40  
Day 1

Your opportunity to have your questions answered from the morning's three speakers.

### Lunch

13:40 - 14:20

Take an hour to have some lunch, check your emails, or take a break. The networking room will be open for attendees.

### Russian Arctic SAR Region Medical Emergencies

14:20 - 14:40  
Day 1

### Participants

**Konstantin Logunov** - St. Petersburg University Clinic, Medicon LLC

### Automated route optimization for shipping in ice covered waters

14:40 - 15:00  
Day 1

### Participants

**Lasse Rabenstein** - CEO, Drift & Noise Polar Services

### Freedom of Navigation

15:00 - 15:20  
Day 1

### Participants

**Troy Bouffard** - Assistant Director of the Center for Arctic Security and Resilience, University of Alaska

### Q&A

15:20 - 15:40  
Day 1

### Close of Day 1

15:40 - 15:50

# SCHEDULE

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TIME	DAY 1
09:00	09:30 - Registration and welcome coffee 09:55 - Welcome address
10:00	10:00 - Opening Keynote 10:20 - Current developments in Russian policy and regulation in the Arctic and The Northern Sea Route 10:40 - Polar Cruise Fleet - Impact of COVID-19
11:00	11:00 - Live Q&A Session 11:20 - Morning Break
12:00	12:20 - The Nautical Institute's Ice Navigation Scheme 12:40 - A snapshot of new vessels for Arctic operations
13:00	13:00 - Predictive maintenance in Arctic Shipping 13:20 - Live Q&A Session 13:40 - Lunch
14:00	14:20 - Russian Arctic SAR Region Medical Emergencies 14:40 - Automated route optimization for shipping in ice covered waters
15:00	15:00 - Freedom of Navigation 15:20 - Q&A 15:40 - Close of Day 1

# SESSIONS

## ARCTIC SHIPPING EUROPE - DAY 2 (TIME ZONE CET) -

Arctic Shipping Virtual Week

27 – 30 October 2020

Virtual Event: Live-Streamed & Available On-Demand  
CET - day 1 & day 2; EDT - day 3 & day 4

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### Networking coffee

09:30 - 09:55  
Day 2

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### Chair's welcome and opening remarks

09:55 - 10:00  
Day 2

### Participants

**Mikhail Grigoriev** - Co-owner and Director, GECON

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### Development plans for resource projects, infrastructure and shipping in the Russian Arctic

10:00 - 10:20  
Day 2

### Participants

**Mikhail Grigoriev** - Co-owner and Director, GECON

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### The Changing Arctic Sea Ice Regimes - Past, Present and Future

10:20 - 10:40  
Day 2

### Participants

**Keld Qvistgaard** - Client Relations Manager/Senior Ice Advisor, Greenland Ice Service, Danish Meteorological Institute

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### Live Q&A Session

10:40 - 11:00  
Day 2

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### Morning Break

11:00 - 11:40

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### Managing Risk: Ice Class Selection is Key

11:40 - 12:00  
Risk Management for Arctic Voyages

### Participants

**James Bond** - Director, Polar Research and Ice Class Ships, ABS

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### Maritime claims in the Russian Arctic: Mapping and analysis through the Polar Code and POLARIS System

12:00 - 12:20  
Risk Management for Arctic Voyages

### Participants

**Laurent Fedi** - Associate Professor, KEDGE Business School

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### Ship design challenges in cold climate worldwide operations

12:20 - 12:40  
Risk Management for Arctic Voyages

### Participants

**Janne Valkonen** - Discipline Leader, Cold Climate Advisory Services, DNV GL - Maritime Advisory

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### Live Q&A Session

12:40 - 13:00  
Risk Management for Arctic Voyages

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### Lunch

13:00 - 14:00

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### Update from the International Ice Charting Working Group

14:00 - 14:20  
Day 2

### Participants

**John Falkingham** - Secretariat, International Ice Charting Working Group

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### Feedback from communities on the proposed LISC

14:20 - 14:40  
Day 2

### Participants

**Natalie Carter** - Community Research Lead, Department of Geography Environment, Society, and Policy Group, University of Ottawa

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### Research Needs for Polar Shipping – the Structural Perspective

14:40 - 15:00  
Day 2

### Participants

**Andrew Kendrick** - Vice President, Vard Marine Inc

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### Arctic Economic Council and its goals for Arctic shipping

15:00 - 15:20  
Day 2

### Participants

**Mikko Niini** - Managing Director, Arctic & Maritime Consultancy

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### Q&A

15:20 - 15:40  
Day 2

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TIME	DAY 2	RISK MANAGEMENT FOR ARCTIC VOYAGES
09:00	09:30 - Networking coffee 09:55 - Chair's welcome and opening remarks	
10:00	10:00 - Development plans for resource projects, infrastructure and shipping in the Russian Arctic 10:20 - The Changing Arctic Sea Ice Regimes - Past, Present and Future 10:40 - Live Q&A Session	
11:00	11:00 - Morning Break	11:00 - Morning Break 11:40 - Managing Risk: Ice Class Selection is Key
12:00		12:00 - Maritime claims in the Russian Arctic: Mapping and analysis through the Polar Code and POLARIS System 12:20 - Ship design challenges in cold climate worldwide operations 12:40 - Live Q&A Session
13:00	13:00 - Lunch	13:00 - Lunch
14:00	14:00 - Update from the International Ice Charting Working Group 14:20 - Feedback from communities on the proposed LISC 14:40 - Research Needs for Polar Shipping – the Structural Perspective	
15:00	15:00 - Arctic Economic Council and its goals for Arctic shipping 15:20 - Q&A	

# SESSIONS

## ARCTIC SHIPPING NORTH AMERICA - DAY 3 (TIME ZONE EDT) -

## Arctic Shipping Virtual Week

27 – 30 October 2020

Virtual Event: Live-Streamed & Available On-Demand  
CET - day 1 & day 2; EDT - day 3 & day 4

### Online networking and virtual coffee

08:30 - 09:30

### Welcome to the event

09:30 - 09:40

Session 1: Policy, Strategy and Planning for the North American Arctic

### Participants

**Tim Keane** - Senior Manager, Arctic Operations and Projects, Fednav Arctic Operations

### Canada's approach for Arctic Marine COVID-19 Mitigation

09:40 - 10:00

Session 1: Policy, Strategy and Planning for the North American Arctic

### Participants

**Jaideep Johar** - Manager for Marine Safety and Security branch, Transport Canada

### US strategy towards the Arctic and the review of icebreaking fleet requirements

10:00 - 10:20

Session 1: Policy, Strategy and Planning for the North American Arctic

- Arctic Strategic Outlook
- Current concerns and future strategies
- Polar Security Cutter program update
- Future Polar security icebreaking fleet acquisition review

### Participants

**Capt. Greg Stanclik**, US Coast Guard

### The Canadian Coast Guard perspective

10:20 - 10:40

Session 1: Policy, Strategy and Planning for the North American Arctic

- Oceans Protection Plan
- Icebreaking and navigation

### Participants

**Neil O'Rourke** - Assistant Commissioner, Arctic Region, Canadian Coast Guard

### Live Q&A

10:40 - 11:00

Session 1: Policy, Strategy and Planning for the North American Arctic

### Networking coffee break

11:00 - 11:15

Session 1: Policy, Strategy and Planning for the North American Arctic

### Moderator's welcome

11:15 - 11:20

Session 2: Understanding Climate Change and the Impact on Ice Conditions in the Arctic

### Participants

**MR Adam Chamberlain** - Partner, Gowling WLG

### The MOSAiC project: findings and lessons learned so far in Arctic ice conditions

11:20 - 11:40

Session 2: Understanding Climate Change and the Impact on Ice Conditions in the Arctic

### Participants

**Christian Haas** - Head of the Sea Ice Section, Alfred Wegener Institute for Polar and Marine Research (AWI)

### The changing ice patterns: an ice pilot's view

11:40 - 12:00

Session 2: Understanding Climate Change and the Impact on Ice Conditions in the Arctic

### Participants

**David (Duke) Snider** - President, Martech Polar Consulting Ltd

### Live debate and Q&A: how is the change in ice conditions likely to impact shipping operations and fisheries

12:00 - 12:20

Session 2: Understanding Climate Change and the Impact on Ice Conditions in the Arctic

### Participants

**Panellist: David (Duke) Snider** - President, Martech Polar Consulting Ltd

**Panellist: Pascale Bourbonnais** - Assistant Manager - Ice Services, Fednav

**Panellist: Christian Haas** - Head of the Sea Ice Section, Alfred Wegener Institute for Polar and Marine Research (AWI)

**Jody Illasiak** - Shipping Lead, IGC

**Moderator: MR Adam Chamberlain** - Partner, Gowling WLG

### Networking lunch break

12:20 - 13:35

Session 2: Understanding Climate Change and the Impact on Ice Conditions in the Arctic

### Understanding the processes for dealing with COVID 19

13:35 - 14:25

Session 3: Dealing with COVID 19 - Managing Arctic Shipping in a Pandemic

A discussion on how industry, government and agencies dealt with the COVID 19 pandemic: what were the processes, how and why were decisions made, planning for the future, developing protocols, liaison, cooperation and keeping the dialogue going

### Participants

**Panellist: Michael Patterson** - Chief Medical Officer of Health (CMOH), Department of Health, Government of Nunavut

**Panellist: Todd Frederickson** - Regional Director of Marine Safety & Security, Prairie and Arctic Region, Transport Canada

**Panellist: Christopher King** - Director of Operations, Petro-Nav

**Moderator: Neil O'Rourke** - Assistant Commissioner, Arctic Region, Canadian Coast Guard

### Live Q&A

14:25 - 14:55

Session 3: Dealing with COVID 19 - Managing Arctic Shipping in a Pandemic

### Networking coffee break

14:55 - 15:35

Session 3: Dealing with COVID 19 - Managing Arctic Shipping in a Pandemic

### Moderator's welcome

15:35 - 15:40

Session 4: Technology Corner: Ship Designs, Future Fuels and Polar Code Update

### Participants

**Andrew Kendrick** - Vice President, Vard Marine Inc

### Design criteria and technical development of new icebreakers for the Arctic and Antarctic

15:40 - 16:05

Session 4: Technology Corner: Ship Designs, Future Fuels and Polar Code Update

### Participants

**Andrew Kendrick** - Vice President, Vard Marine Inc

# SESSIONS

## ARCTIC SHIPPING NORTH AMERICA - DAY 3 (TIME ZONE EDT) -

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### How to comply with the IMO Polar Code?

16:05 - 16:25

Session 4: Technology Corner: Ship Designs, Future Fuels and Polar Code Update

DNV GL have issued more than 260 Polar Ship Certificates. In this session some of the challenges owners and operators have experienced during the process to achieve the Polar Ship Certificate will be discussed.

#### Participants

**Morten Mejlaender-Larsen** - Director, Arctic Operations and Technology, DNV GL

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### Polar Code update

16:25 - 16:45

Session 4: Technology Corner: Ship Designs, Future Fuels and Polar Code Update

#### Participants

**James Bond** - Director, Polar Research and Ice Class Ships, ABS

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### Live Q&A

16:45 - 17:00

Session 4: Technology Corner: Ship Designs, Future Fuels and Polar Code Update

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### Close of day 3 and networking

17:00 - 17:05

# SCHEDULE

ARCTIC SHIPPING NORTH AMERICA - DAY 3 (TIME ZONE EDT) -

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CET - day 1 & day 2; EDT - day 3 & day 4

TIME	SESSION 1: POLICY, STRATEGY AND PLANNING FOR THE NORTH AMERICAN ARCTIC	SESSION 2: UNDERSTANDING CLIMATE CHANGE AND THE IMPACT ON ICE CONDITIONS IN THE ARCTIC	SESSION 3: DEALING WITH COVID 19 - MANAGING ARCTIC SHIPPING IN A PANDEMIC	SESSION 4: TECHNOLOGY CORNER: SHIP DESIGNS, FUTURE FUELS AND POLAR CODE UPDATE
08:00	08:30 - Online networking and virtual coffee	08:30 - Online networking and virtual coffee	08:30 - Online networking and virtual coffee	08:30 - Online networking and virtual coffee
09:00	09:30 - Welcome to the event 09:40 - Canada's approach for Arctic Marine COVID-19 Mitigation			
10:00	10:00 - US strategy towards the Arctic and the review of icebreaking fleet requirements 10:20 - The Canadian Coast Guard perspective 10:40 - Live Q&A			
11:00	11:00 - Networking coffee break	11:15 - Moderator's welcome 11:20 - The MOSAiC project: findings and lessons learned so far in Arctic ice conditions 11:40 - The changing ice patterns: an ice pilot's view		
12:00		12:00 - Live debate and Q&A: how is the change in ice conditions likely to impact shipping operations and fisheries 12:20 - Networking lunch break		
13:00			13:35 - Understanding the processes for dealing with COVID 19	
14:00			14:25 - Live Q&A 14:55 - Networking coffee break	

# SCHEDULE

ARCTIC SHIPPING NORTH AMERICA - DAY 3 (TIME ZONE EDT) -

Arctic Shipping Virtual Week

27 – 30 October 2020

Virtual Event: Live-Streamed & Available On-Demand  
CET - day 1 & day 2; EDT - day 3 & day 4

TIME	SESSION 1: POLICY, STRATEGY AND PLANNING FOR THE NORTH AMERICAN ARCTIC	SESSION 2: UNDERSTANDING CLIMATE CHANGE AND THE IMPACT ON ICE CONDITIONS IN THE ARCTIC	SESSION 3: DEALING WITH COVID 19 - MANAGING ARCTIC SHIPPING IN A PANDEMIC	SESSION 4: TECHNOLOGY CORNER: SHIP DESIGNS, FUTURE FUELS AND POLAR CODE UPDATE
15:00				15:35 - Moderator's welcome 15:40 - Design criteria and technical development of new icebreakers for the Arctic and Antarctic
16:00				16:05 - How to comply with the IMO Polar Code? 16:25 - Polar Code update 16:45 - Live Q&A
17:00	17:00 - Close of day 3 and networking	17:00 - Close of day 3 and networking	17:00 - Close of day 3 and networking	17:00 - Close of day 3 and networking



# SESSIONS

## ARCTIC SHIPPING NORTH AMERICA - DAY 4 (TIME ZONE EDT) -

## Arctic Shipping Virtual Week

27 – 30 October 2020

Virtual Event: Live-Streamed & Available On-Demand  
CET - day 1 & day 2; EDT - day 3 & day 4

### Morning virtual coffee

08:30 - 09:00

Session 5: The View from the Northern Sea Route

### Moderator's welcome

09:00 - 09:10

Session 5: The View from the Northern Sea Route

### Participants

**Mikhail Grigoriev** - Co-owner and Director, GECON

### Russian resource developments in the Arctic until 2030 and the Northern Sea Transport Corridor

09:10 - 09:30

Session 5: The View from the Northern Sea Route

### Participants

**Mikhail Grigoriev** - Co-owner and Director, GECON

### North Sea Route activities

09:30 - 09:50

Session 5: The View from the Northern Sea Route

Number of voyages vessels, types, ice classes, ports, speed, distances

### Participants

**Sergey Balmasov** - Head of the CHNL Information Office, Centre for High North Logistics, Nord University Business School

### Live Q&A

09:50 - 10:00

Session 5: The View from the Northern Sea Route

### Participants

**Sergey Balmasov** - Head of the CHNL Information Office, Centre for High North Logistics, Nord University Business School

### Northern Sea Route, shipping activity today and how year around shipping is made possible in future

10:00 - 10:30

Session 5: The View from the Northern Sea Route

### Participants

**Alexey Shtrek** - Development Manager, Aker Arctic Technology LLC

### Networking break

10:30 - 10:40

Session 5: The View from the Northern Sea Route

### Moderator's welcome

10:40 - 10:45

Session 6: Operating Arctic Vessels: Managing Logistics, Ice Conditions and COVID 19

### Participants

**Tim Keane** - Senior Manager, Arctic Operations and Projects, Fednav Arctic Operations

### Arctic operations 2020: dealing with the unexpected

10:45 - 11:15

Session 6: Operating Arctic Vessels: Managing Logistics, Ice Conditions and COVID 19

### Participants

**Moderator: David (Duke) Snider** - President, Martech Polar Consulting Ltd

**Panellist: Terry Camsell** - Manager Business Development, Fathom Marine

**Panellist: Courtney Legault** - Assistant Manager - Arctic Projects, Fednav

### Audience Q&A

11:15 - 11:25

Session 6: Operating Arctic Vessels: Managing Logistics, Ice Conditions and COVID 19

### Cruise shipping: managing the return to Arctic cruising in 2021

11:25 - 11:45

Session 6: Operating Arctic Vessels: Managing Logistics, Ice Conditions and COVID 19

- Developing Clean Ship and Healthy People guidelines
- Mitigating measures to ensure safe operations

### Participants

**Panellist: Peter Garapick** - Director, Industry Relations, Quark Expeditions

**Panellist: Stephen Winter** - International Sales Director, Ponant

### Audience Q&A

11:45 - 11:50

Session 6: Operating Arctic Vessels: Managing Logistics, Ice Conditions and COVID 19

### End to end logistics in the Arctic

11:50 - 12:10

Session 6: Operating Arctic Vessels: Managing Logistics, Ice Conditions and COVID 19

### Participants

**Sean Thomas** - Vice President, Crowley Maritime Corporation

### Audience Q&A

12:10 - 12:15

Session 6: Operating Arctic Vessels: Managing Logistics, Ice Conditions and COVID 19

### Virtual coffee and networking

12:15 - 12:25

Session 6: Operating Arctic Vessels: Managing Logistics, Ice Conditions and COVID 19

### Moderator's welcome

12:25 - 12:35

Session 7: Emergency Response and Oil Spill Response in Ice Covered Waters

### Participants

**Shelley Chapelski** - Partner, Head of Shipping (Canada), Norton Rose Fulbright Canada

### Search and rescue: integrating the use of simulators in Arctic capacity building

12:35 - 12:55

Session 7: Emergency Response and Oil Spill Response in Ice Covered Waters

### Participants

**Dimitrios Dalaklis** - Associate Professor, Maritime Safety & Environmental Administration (MSEA), World Maritime University

### Developing an integrated oil spill response plan for the North

12:55 - 13:40

Session 7: Emergency Response and Oil Spill Response in Ice Covered Waters

- Where are the gaps?
- How can these be filled?
- How can stakeholders cooperate effectively?

### Participants

**Niels Gram** - President, Anker Marine

**Neil O'Rourke** - Assistant Commissioner, Arctic Region, Canadian Coast Guard

**John Staynor** - Principal and Consultant, Staynor Response Services Ltd

**Anita Parlow** - Advisor, Changes in Arctic Shipping, Port of Nome and Fulbright Scholar Iceland

### Networking lunch break

13:40 - 14:10

Session 7: Emergency Response and Oil Spill Response in Ice Covered Waters

# SESSIONS

## ARCTIC SHIPPING NORTH AMERICA - DAY 4 (TIME ZONE EDT) -

Arctic Shipping Virtual Week

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### Moderator's welcome

14:10 - 14:15

Session 8: Icebreaking Operations: Understanding Requirements in a Changing Arctic

### Participants

**Lawson Brigham** - Professor, University of Alaska Fairbanks

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### Management of icebreaking in the Arctic, Great Lakes and St Lawrence River

14:15 - 14:55

Session 8: Icebreaking Operations: Understanding Requirements in a Changing Arctic

### Participants

**William Woityra** - Commanding Officer, USCGC 'Polar Star', US Coast Guard

**Patrick Armstrong** - Sponsor's Representative for the Polar Security Cutter, US Coast Guard

**Kristen Serumgard** - Commanding Officer, USCGC 'Mackinaw', US Coast Guard

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### Audience Q&A

14:55 - 15:10

Session 8: Icebreaking Operations: Understanding Requirements in a Changing Arctic

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### Networking coffee break

15:10 - 15:25

Session 8: Icebreaking Operations: Understanding Requirements in a Changing Arctic

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### Innovative Radar Solutions for Arctic Operations

15:25 - 15:55

Session 9: Achieving Safe Navigation in the Arctic

### Participants

**Ina Adegeest** - Sales Representative, Rutter Inc

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### Networking coffee break

15:55 - 16:10

Session 9: Achieving Safe Navigation in the Arctic

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### Moderator's welcome

16:10 - 16:15

Session 10: Mining and Resource Operations and Shipping Needs in Alaska and the Canadian Arctic

### Participants

**Dermot Loughnane** - CEO, Tactical Marine Solutions Ltd

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### Infrastructure developments to support industry and communities

16:15 - 16:35

Session 10: Mining and Resource Operations and Shipping Needs in Alaska and the Canadian Arctic

### Participants

**John Vandenberg** - Assistant Deputy Minister, Programs & Services, Department of Infrastructure, Government of Northwest Territories

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### The Accessible Arctic Ocean: Policy and Commercial Report

16:35 - 16:55

Session 10: Mining and Resource Operations and Shipping Needs in Alaska and the Canadian Arctic

### Participants

**Mead Treadwell** - Chair and CEO, Qilak LNG

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### Panel discussion and live Q&A: developing resources in the Arctic: challenges and solutions

16:55 - 17:15

Session 10: Mining and Resource Operations and Shipping Needs in Alaska and the Canadian Arctic

### Participants

**Panellist: Mead Treadwell** - Chair and CEO, Qilak LNG

**Colleen Parker** - Policy Advisor, Nunavut Marine Council

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### Close of conference

17:15 - 17:20

Session 10: Mining and Resource Operations and Shipping Needs in Alaska and the Canadian Arctic

# SCHEDULE

ARCTIC SHIPPING NORTH AMERICA - DAY 4 (TIME ZONE EDT) -

Arctic Shipping Virtual Week

27 – 30 October 2020

Virtual Event: Live-Streamed & Available On-Demand  
CET - day 1 & day 2; EDT - day 3 & day 4

TIME	SESSION 10: MINING AND RESOURCE OPERATIONS AND SHIPPING NEEDS IN ALASKA AND THE CANADIAN ARCTIC	SESSION 5: THE VIEW FROM THE NORTHERN SEA ROUTE	SESSION 6: OPERATING ARCTIC VESSELS: MANAGING LOGISTICS, ICE CONDITIONS AND COVID 19	SESSION 7: EMERGENCY RESPONSE AND OIL SPILL RESPONSE IN ICE COVERED WATERS	SESSION 8: ICEBREAKING OPERATIONS: UNDERSTANDING REQUIREMENTS IN A CHANGING ARCTIC	SESSION 9: ACHIEVING SAFE NAVIGATION IN THE ARCTIC
08:00		08:30 - Morning virtual coffee				
09:00		09:00 - Moderator's welcome 09:10 - Russian resource developments in the Arctic until 2030 and the Northern Sea Transport Corridor 09:30 - North Sea Route activities 09:50 - Live Q&A				
10:00		10:00 - Northern Sea Route, shipping activity today and how year around shipping is made possible in future 10:30 - Networking break	10:40 - Moderator's welcome 10:45 - Arctic operations 2020: dealing with the unexpected			
11:00			11:15 - Audience Q&A 11:25 - Cruise shipping: managing the return to Arctic cruising in 2021 11:45 - Audience Q&A 11:50 - End to end logistics in the Arctic			

# SCHEDULE

ARCTIC SHIPPING NORTH AMERICA - DAY 4 (TIME ZONE EDT) -

Arctic Shipping Virtual Week

27 – 30 October 2020

Virtual Event: Live-Streamed & Available On-Demand  
CET - day 1 & day 2; EDT - day 3 & day 4

TIME	SESSION 10: MINING AND RE-SOURCE OPERATIONS AND SHIPPING NEEDS IN ALASKA AND THE CANADIAN ARCTIC	SESSION 5: THE VIEW FROM THE NORTHERN SEA ROUTE	SESSION 6: OPERATING ARCTIC VESSELS: MANAGING LOGISTICS, ICE CONDITIONS AND COVID 19	SESSION 7: EMERGENCY RESPONSE AND OIL SPILL RESPONSE IN ICE COVERED WATERS	SESSION 8: ICEBREAKING OPERATIONS: UNDERSTANDING REQUIREMENTS IN A CHANGING ARCTIC	SESSION 9: ACHIEVING SAFE NAVIGATION IN THE ARCTIC
12:00			12:10 - Audience Q&A 12:15 - Virtual coffee and networking	12:25 - Moderator's welcome 12:35 - Search and rescue: integrating the use of simulators in Arctic capacity building 12:55 - Developing an integrated oil spill response plan for the North		
13:00				13:40 - Networking lunch break		
14:00					14:10 - Moderator's welcome 14:15 - Management of ice-breaking in the Arctic, Great Lakes and St Lawrence River 14:55 - Audience Q&A	
15:00					15:10 - Networking coffee break	15:25 - Innovative Radar Solutions for Arctic Operations 15:55 - Networking coffee break

# SCHEDULE

ARCTIC SHIPPING NORTH AMERICA - DAY 4 (TIME ZONE EDT) -

Arctic Shipping Virtual Week

27 – 30 October 2020

Virtual Event: Live-Streamed & Available On-Demand  
CET - day 1 & day 2; EDT - day 3 & day 4

TIME	<b>SESSION 10: MINING AND RESOURCE OPERATIONS AND SHIPPING NEEDS IN ALASKA AND THE CANADIAN ARCTIC</b>	<b>SESSION 5: THE VIEW FROM THE NORTHERN SEA ROUTE</b>	<b>SESSION 6: OPERATING ARCTIC VESSELS: MANAGING LOGISTICS, ICE CONDITIONS AND COVID 19</b>	<b>SESSION 7: EMERGENCY RESPONSE AND OIL SPILL RESPONSE IN ICE COVERED WATERS</b>	<b>SESSION 8: ICEBREAKING OPERATIONS: UNDERSTANDING REQUIREMENTS IN A CHANGING ARCTIC</b>	<b>SESSION 9: ACHIEVING SAFE NAVIGATION IN THE ARCTIC</b>
<b>16:00</b>	<p><b>16:10</b> - Moderator's welcome</p> <p><b>16:15</b> - Infrastructure developments to support industry and communities</p> <p><b>16:35</b> - The Accessible Arctic Ocean: Policy and Commercial Report</p> <p><b>16:55</b> - Panel discussion and live Q&amp;A: developing resources in the Arctic: challenges and solutions</p>					
<b>17:00</b>	<b>17:15</b> - Close of conference					