



# Annual Scientific Meeting

June 12-14, 2019

Hosted at the Delta Ocean Pointe Resort in Victoria, BC



## **Wednesday, June 12 @ 6:30PM – Evening Event: Public Lecture** **Location: Delta Pointe Resort, Arbutus A (2<sup>nd</sup> floor)**

Andy Lamb, an honorary doctorate awardee (nominated by Research Management Committee member and MEOPAR PI Natalie Ban) will host a public lecture on the rockfish of the Pacific Northwest. This event is open to the public, and MEOPAR ASM attendees arriving that evening are invited to join.

## **Thursday, June 13 – Day 1**

Coffee will be available at 8:00am.

### **8:30AM – Welcome and Announcements**

**Location: Arbutus Ballroom (2<sup>nd</sup> floor)**

Conference kick-off hosted by MEOPAR's Scientific Director, Doug Wallace.

### **9:00AM – Innovative Funding for Credible Science**

**Location: Arbutus Ballroom (2<sup>nd</sup> floor)**

Led by Stefan Leslie, this panel on the Fathom Fund explores ways to combine innovative funding ideas with traditional granting models.

### **10:00AM – Coffee Break**

**Location: Arbutus Foyer (2<sup>nd</sup> floor)**

### **10:30AM – Early Career Faculty Lightning Round**

**Location: Arbutus Ballroom (2<sup>nd</sup> floor)**

This year, MEOPAR funded seventeen Early Career Faculty investigators across the country. The project leads, or their appointed representatives, will give 5-minute, 2-slide overviews of their projects.

### **12:00PM – Lunch**

**Arbutus Foyer & Ballroom (2<sup>nd</sup> floor)**



## 1:00PM – Concurrent Sessions

Presentations from a combination of MEOPAR investigators, HQP and partners.

### **Breakout Session #1 – Arbutus Ballroom (2<sup>nd</sup> floor)**

- 1:00-1:15PM: AtlantOs: An All-Atlantic Ocean Observing System – Brad deYoung
- 1:15-1:30PM: The Network Approach in Action: the Canadian Integrated Ocean Observing System (CIOOS) – Mike Smit
- 1:30-1:45PM: Low-cost Microfluidic Nutrient Sensors – Sean Morgan
- 1:45-2:00PM: Developing Solar Powered Un-Crewed Surface Vehicles (USVs) for Ocean Data Collection – Julie Angus

### **Breakout Session #2 – Pacific Suite (3<sup>rd</sup> floor)**

- 1:00-1:15PM: Boundary Layer Parameterizations to Simulate Fog over Atlantic Canada Waters – Changshuo Chen
- 1:15-1:30PM: Progress toward user-relevant monthly to seasonal forecasts of Arctic sea ice: FRAMS project update – Bill Merryfield
- 1:30-1:45PM: The Stokes drift in ocean surface drift prediction – Michel Tamkpanka Tamtare
- 1:45-2:00PM: Estimating uncertainty in whale location following visual or acoustic detection: Implications for dynamic management of North Atlantic right whales – Hansen Johnson

### **Breakout Session #3 – Executive Boardroom (3<sup>rd</sup> floor)**

- 1:00-1:15PM: First-Hand Knowledge of BC Ocean Change: Oyster Farmers' Experiences of Change and Oyster Die-Off Events – Evie Morin
- 1:15-1:30PM: First-hand knowledge of BC ocean change: shellfish farmers' perceptions of ocean acidification – Natalie Drope
- 1:30-1:45PM: Warming and acidification threaten glass sponge (*Aphrocallistes vastus*) reefs via impaired filtration, tissue necrosis, and weakened infrastructure – Angela Stevenson
- 1:45-2:00PM: A new science project in the Amundsen Gulf region: 'User-driven monitoring of adverse marine and weather states, Eastern Beaufort Sea.' – Laura Eerkes-Medrano

### **Breakout Session #4 – Harbour Room (1<sup>st</sup> floor)**

- 1:00-1:15PM: The Role of Community-Based Organizations in Bolstering Maritime Safety and Security and Coastal Community Resilience in the Canadian North – Peter Kikkert
- 1:15-1:30PM: Arctic Corridors and Northern Voices: Research for policy on shipping governance in the Canadian Arctic – Natalie Carter
- 1:30-1:45PM: Using Automatic Identification System (AIS) data to assess spatiotemporal trends of the changes in vessel traffic across the Global Arctic – Jackie Dawson
- 1:45-2:00PM: NEMO Modelling Relevant to Questions of Marine Projections and Transportation – Paul Myers



**2:00PM – Coffee Break**

**Location: Arbutus Foyer (2<sup>nd</sup> floor)**

**2:30PM – Advancing Citizen Science for Marine Monitoring in Canada**

**Location: Arbutus Ballroom (2<sup>nd</sup> floor)**

Hosted by Bob McDonald of CBC's Quirks and Quarks, the panel of scientists and citizen scientists will discuss the benefits and best practice to help your next monitoring effort make a splash.

**Poster Session**

**3:30-5:30PM**

**Location: Harbour Room (1<sup>st</sup> floor & outdoor patio, if weather allows)**

Cash bar. Appetizers will be served. One complimentary drink per person provided.

## **Friday, June 14 – Day 2**

Coffee will be available at 8:30am.

**9:00AM – The Bedford Basin**

**Location: Arbutus Ballroom (2<sup>nd</sup> floor)**

Plenary keynote by Doug Wallace on the science built from initial investments in the Bedford Basin.

**9:30AM – Coastal Resilience Panel**

**Location: Arbutus Ballroom (2<sup>nd</sup> floor)**

Led by Stephanie Chang, Response Core Lead, this panel will focus on the breadth of coastal resilience science funded by MEOPAR.

**10:30AM – Coffee Break**

**Location: Arbutus Foyer (2<sup>nd</sup> floor)**



## 11:00AM – Concurrent Sessions

Presentations from a combination of MEOPAR investigators, HQP and partners.

### **Breakout Session #1 – Arbutus Ballroom (2<sup>nd</sup> floor)**

- 11:00-11:15AM: Investigating simulated compact polarimetric parameters for sea ice type detection during melt conditions – Aikaterini Tavri
- 11:15-11:30AM: Fog, Aerosol and Visibility Experiments from Tuktoyatuk (69°N) using in-situ instrumentation – Jai Prakash Chaubey
- 11:30-11:45AM: Mapping North Atlantic right whale distribution using passive acoustic monitoring in Canada – Delphine Durette-Morin
- 11:45-12:00PM: Satellite retrieval of biogeophysical properties of coastal waters in British Columbia, Canada – Maycira Costa

### **Breakout Session #2 – Pacific Suite (3<sup>rd</sup> floor)**

- 11:00-11:15AM: Getting Ocean Currents to Users: A Story of Collaboration between Government and Academia – Susan Allen
- 11:15-11:30AM: Modelling future ocean biogeochemistry in the North Pacific Ocean – Jim Christian
- 11:30-11:45AM: Seasonal predictions of Arctic sea ice surface melt: a case study in the Canadian Arctic Archipelago – Randy Scharien
- 11:45-12:00PM: Influences of wind, sea state, and oil type on oil dispersion in the Salish Sea – Rachael Mueller

### **Breakout Session #3 – Executive Boardroom (3<sup>rd</sup> floor)**

- 11:00-11:15AM: Community resilience to a maritime transportation disruption: A study of food, liquid fuel, and medical supply transportation in coastal BC – Alexa Tanner
- 11:15-11:30AM: Coastal adaptation to climate change: how to involve the community by looking at solutions through their eyes – Meredith DeCock-Caspell

### **Breakout Session #4 – Harbour Room (1<sup>st</sup> floor)**

- 11:00-11:15AM: Using AIS to better understand commercial whale watching operations in British Columbia – Norma Serra-Sogas
- 11:15-11:30AM: Protecting one endangered species at the expense of another? Evaluating the efficacy of vessel speed restrictions in reducing lethal vessel strike risk to blue and right whales in the Gulf of St. Lawrence – Meg Carr
- 11:30-11:45AM: Assessing the spatial and temporal overlap between underwater noise from vessel traffic and important whale areas in the western Arctic - William Halliday
- 11:45-12:00PM: An optimization model for food distribution applied during the emergency response phase of a natural disaster and a case study in Newfoundland – Luana Almeida



**12:00PM – Lunch**

**Location: Arbutus Foyer & Ballroom (2<sup>nd</sup> floor)**

Announcement of poster winners and the latest round of Training Award recipients.

**Concurrent Community of Practice Sessions**

**1:00-3:45PM (with coffee break at 2:15)**

Meetings, workshops and forums hosted by Communities of Practice.

**Coastal Hazards and Risk Communication Forum – Arbutus Ballroom (2<sup>nd</sup> floor)**

Hosted by the Coast and Ocean Risk Communication CoP

Led by: Joel Finnis, Cindy Marven, and Ron Pelot

**Ocean Modelling Meeting – Pacific Suite (3<sup>rd</sup> floor)**

Hosted by the Ocean Modelling CoP

Led by: Susan Allen

**Ocean Gliders Canada Meeting – Executive Ballroom (3<sup>rd</sup> floor)**

Hosted by the Ocean Gliders Canada CoP

Led by: Frederic Cyr and Brad deYoung

**Ocean Acidification Workshop – Harbour Room (1<sup>st</sup> floor)**

Hosted by the Ocean Acidification CoP

Led by: Heather Almeda, Brent Else and Helen Gurney-Smith

**3:45-4:00: Conference Wrap-Up**

**Location: Arbutus Ballroom (2<sup>nd</sup> floor)**

Concluding remarks from MEOPAR's Scientific Director, Doug Wallace.



**Marriott**  
**REWARDS.**

