



# ***A Changing Fundy Environment: Emerging Issues, Challenges and Priorities***

**12<sup>th</sup> BoFEP Bay of Fundy Science Workshop**

**Agricultural Campus, Dalhousie University  
Truro, Nova Scotia**

**9–12 May 2018**



Photo Credit:  
Eleanor Matheson  
October 21, 2015  
Windsor NS

	Wednesday 9 May	Thursday 10 May	Friday 11 May	Saturday 12 May			
8:00		<b>Registration</b>	<b>Registration</b>	<b>Field Trip</b> Tidal Bore Rafting with Fundy Tidal Bore Adventures  Meet at 7:15 am for ride sharing departure			
8:30		<b>Opening &amp; Keynote Presentation</b> Dr. Kimberley T.A. Davies	<b>Keynote Presentation</b> Dr. Graham R. Daborn				
10:00		<i>Break</i>	<i>Break</i>				
10:30		Ocean Literacy and Awareness	Fisheries Ecology & Management 1		Integrated Coastal Management	Information Use at the Science-Policy Interface in Decision-making	Oceans protection Plan (OPP) 1
12:00		<i>Lunch</i>		<i>Lunch</i>			
1:30		Tidal Energy 1	Fisheries Ecology & Management 2	Dykелands & Tidal Restoration 1		OPP & Marine Protected Areas 2	Dykелands & Tidal Restoration 4
3:00		<i>Break</i>		<i>Break (2:30-2:45)</i>			
3:30		Tidal Energy 2	Monitoring & Contaminants	Dykелands & Tidal Restoration 2	Future Research in the Bay of Fundy and BoFEP's Role Panel		
4:00				<b>Student Awards Presentation &amp; Closing</b>			
5:00		<b>Poster Session</b>					
5:30							
6:00							
7-9 pm	<b>Opening Reception</b>	<b>Keynote Public Presentation</b> Dr. Tony R. Walker Start time 7:30 pm					

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Follow us on Facebook: <https://www.facebook.com/BoFEcosystemPartnership/?fref=nf>

# Welcoming Remarks



Welcome to the 12<sup>th</sup> BoFEP Bay of Fundy Science Workshop!

The program for this Workshop looks in depth at some of the key current issues and activities in the Bay of Fundy including integrated coastal management, dykeland and coastal restoration, contaminants and monitoring, tidal power and renewable energy, fisheries ecology and management, use of information, and perspectives on the health and future of the Bay. It also provides us with the venue and company for individually reflecting on the present state of the Bay, visions for its future, and research needed to sustain it.

The program chronicles the past 20 years of BoFEP. In the early years of the organization, BoFEP sponsored and supported inventories and research on wetlands and dykes. More recently, it has supported research on contaminants in the Bay. We also contributed to an analysis of data from a long-term monitoring station in Passamaquoddy Bay—some of that research will be included in a talk on Thursday. We undertook projects to help coastal communities respond to climate change. Most recently, we conducted a project on “Living Shorelines” with three components: research, a Talking Circle to look at middens and their significance, and production of a pamphlet that provided information to coastal landowners on coastal erosion. One of the most important aspects of BoFEP’s communication strategy is the biennial Bay of Fundy Science Workshop. Here, researchers and students present new findings that have not yet been published or widely circulated.

The sessions close with a panel discussion, Future Research in the Bay of Fundy and BoFEP’s Role. I encourage each of you to gather your individual reflections about the Bay and share them with us during this closing session. In conveying your thoughts, you will have helped not only BoFEP but everyone present in determining their future activities for the benefit of the Bay.

Enjoy the wonderful information and conversations over the next few days.

Sincerely,

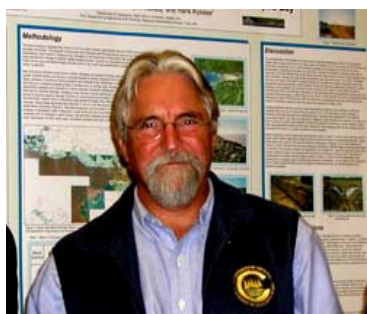
A handwritten signature in cursive script that reads "Marianne Janowicz".

Marianne Janowicz  
Chair, Bay of Fundy Ecosystem Partnership

## Keynote Speakers



**Dr. Kimberley Davies**, postdoctoral fellow and adjunct scholar in Oceanography, Dalhousie University, Halifax, Nova Scotia, received the second Canadian National Committee for the Scientific Committee on Ocean Research (CNC-SCOR) Early Career Ocean Scientist Award. The award is presented to an early career oceanographer/marine for an outstanding contribution to marine sciences in Canada. Her research and publications cover a range of areas: factors in ocean water mass variation such as acidification, structuring of copepod and larval invertebrate aggregations (cluster formation), recruitment, and habitat connectivity; tidally forced aggregation mechanisms; and universal energy content relationships. Her work has produced new oceanographic, marine-ecological and marine-mammal insights and has led to effective and practical conservation policy.



**Dr. Graham Daborn** is Professor Emeritus at Acadia University, Wolfville, Nova Scotia. He was Professor of Biology at Acadia from 1973 to 2004, the Founding Director of the Acadia Centre for Estuarine Research (1984–2004), and Founding Director of the Arthur Irving Academy for the Environment (2004–2007). His studies of the Bay of Fundy ecosystem have included: tides and tidal rhythms, sediment dynamics, fish and fisheries, plankton, benthic ecology, and the general environmental effects of tidal power. He contributed to two Strategic Environmental Assessments of Marine Renewable Energy in the Bay of Fundy, for the Fundy Ocean Research Centre (FORCE) Information Centre in Parrsboro, and for an assessment of Potential Marine Representative Areas in the Bay of Fundy for Parks Canada. Graham was Chair or Co-Chair of the Research Management Committee and theme leader for policy and governance research for the Canadian Water Network (2001–2012). He has been a member of the Experts Committee on Marine Renewable Energy for the International Energy Agency, a volunteer member of the Environmental Monitoring Advisory Committee (EMAC) for FORCE since its establishment in 2009, and a member of the Research Advisory Committee for the Offshore Energy Research Association. Graham was awarded the Gulf of Maine Visionary Award in 1993 and the Outstanding Science Champion Award of the Discovery Centre in 2000.



**Dr. Tony Walker** has over 25 years' of environmental research and monitoring related experience. He is currently an Assistant Professor at the School for Resource and Environmental Studies, Dalhousie University, Halifax, Nova Scotia. Tony previously worked in industry for a decade as an environmental consultant, specializing in monitoring and management of contaminants in marine and terrestrial ecosystems. He did his PhD at the University of Nottingham, UK, studying terrestrial pollution in the Russian Arctic arising from resource extractive industries. During his early research career he spent four years living and working in the Antarctic. He currently teaches graduate level courses, including Biophysical Dimensions of Resource and Environmental Management, Pollution Abatement and Research Design and Methods.

## WEDNESDAY, 9 MAY

### OPENING RECEPTION

*Cumming Hall, Second Floor*

7–9 pm	Remarks at 7:30 pm
	Pre-registered delegates can pick-up their registration materials at the Reception

## THURSDAY, 10 MAY

### REGISTRATION

*Cox Institute*

*Plenary Room - Lecture Theatre Room 24*

8:00–	Registration
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### PLENARY AND OPENING 8:30-10:00

*Plenary Room - Lecture Theatre Room 24*

8:30	Marianne Janowicz, BoFEP Chair	Welcome
8:55		Introduction of Speaker
9:00	Dr. Kimberley T.A. Davies, Dalhousie University	<i>An Uncertain Future: The Right Whale's Fight against Environment, Biology and Ocean Urbanization</i>
9:40		Discussion & Announcements

### Break 10:00-10:30

*Outside Plenary Room - Lecture Theatre Room 24*

## CONCURRENT SESSIONS – 10:30 to 12:00

### Ocean Literacy and Awareness

Convenor: Michael J. A. Butler, International Ocean Institute-Canada, Halifax, NS

*Plenary Room - Lecture Theatre Room 24*

The BoFEP Working Group on Ocean Literacy and Awareness seeks to identify ways to improve the public's understanding, particularly within the communities surrounding the Bay of Fundy, of the vital importance of the ocean and coasts to their wellbeing, from both an environmental and economic perspective. This panel will provide examples of current initiatives and present their personal perspectives on addressing the challenge of enhancing ocean literacy and awareness within the educational system and in public fora.

#### Panelists:

- Tracey Dean, Huntsman Marine Science Centre
- Roland Chiasson, Aster Group
- Magali Grégoire, Canadian Network for Ocean Education
- Kerri McPherson, C. P. Allen High School
- Anna Naylor, Centre for Ocean Ventures and Entrepreneurship

Presenting author highlighted. Abstracts published separately.

<b>Fisheries Ecology &amp; Management – Part 1</b>		
Chair: Joshua McNeely, Maritime Aboriginal Peoples Council, Truro, NS <i>Cox 41</i>		
10:30-10:50	Lauren Scopel, Tony <b>Diamond</b> et al.	<i>Seabird Diets as Bioindicators of Atlantic Herring Recruitment and Stock Size: A New Tool for Ecosystem-based Fisheries Management</i>
10:50-11:10	Guy E. <b>Melville</b>	<i>Local Events, Regional Context: Herring (Clupea harengus) Stock Depletion off Southwest Nova Scotia and Humpback Whale (Megaptera novaeangliae) Mortalities</i>
11:10-11:30	Jessie M. <b>Lilly</b> et al.	<i>Comparison of the Physical Characteristics of two populations of Atlantic Sturgeon in Minas Basin: Kennebec and St. John Distinct Populations Segments</i>
11:30-12:00	Jillian A. <b>Hunt</b> et al.	<i>Nutrient Transfer: How Marine-Derived Nitrogen and Phosphorus from Alewife (Alosa pseudoharengus) Spawning Migration Benefit Freshwater Wetlands in Atlantic Canada</i>

<b>Integrated Coastal Management</b>		
Chair: Levi Cliche, Clean Annapolis River Project, Annapolis Royal, NS <i>Cox 138</i>		
10:30-10:50	Maja <b>Reinhartsen</b> and Trevor Avery	<i>Common Issues, Common Goals: Increasing Collaborations in Habitat and Resource Conservation</i>
10:50-11:10	Jaya <b>Fahey</b> et al.	<i>Working with Recreational Users to Reduce Disturbance to Migratory Shorebirds during High Tide Roosting Periods in the Minas Basin, Nova Scotia</i>
11:10-11:30	Sondra L. <b>Eger</b>	<i>Moving towards Sustainable Social-Ecological Systems within the Bay of Fundy: Investigating Opportunities for Integrated Coastal and Marine Management</i>
11:30-12:00	Brendal A. <b>Townsend</b> and Nikki Beauchamp	<i>Coastal Communities and Third-Eye Science: Academia, Fisheries and First Nations in the Bay of Fundy, Nova Scotia, Canada</i>

<b>Lunch 12:00-1:30</b> <i>Outside Plenary Room - Lecture Theatre Room 24</i>		
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## CONCURRENT SESSIONS – 1:30 to 5:00

<b>Tidal Power &amp; Renewable Energy – Part 1</b>		
Moderator: Anna Redden, Acadia University, Wolfville, NS <i>Plenary Room - Lecture Theatre Room 24</i>		
1:30-1:50	Tony <b>Wright</b> et al.	<i>Tidal Energy Demonstration in the Minas Passage, Bay of Fundy</i>
1:50-2:10	Richard Karsten et al.; Elizabeth <b>Nagel</b> presenting	<i>Environmental Monitoring, Modelling and Forecasting for Instream Tidal Energy Development at the FORCE Test Site</i>
2:10-2:30	Jeremy G. <b>Locke</b> and J. Culina	<i>Using RADAR as a Spatial Mapping Tool for Surface Velocity and Turbulence Detection</i>
2:30-3:00	Discussion	

Presenting author highlighted. Abstracts published separately.

<b>Fisheries Ecology &amp; Management – Part 2</b>		
Chair: Blythe Chang, Fisheries and Oceans Canada, St. Andrews, NB Cox 41		
1:30-1:50	Harper et al. Michael <b>Stokesbury</b> presenting	<i>Sea Cucumber (Cucumaria frondosa) Population Dynamics for Improved Resource Management within Fishing Areas</i>
1:50-2:10	Kamryn R. <b>Findlay</b> et al.	<i>Small Harpacticoid Copepod the Principal Prey of First Feeding Larval Striped Bass (Morone saxatilis) in the Shubenacadie River Estuary</i>
2:10-2:30	Andrew <b>Hebda</b> and Caira Clark	<i>Fallen Angelwing (Barnea truncata), a Disjunct Mollusc Species of the Minas Basin and Bay of Fundy: Known Biology, Substrate Constraints, Coarse Scale Distribution and Conservation Status</i>
2:30-3:00	Discussion	

<b>Dykelands &amp; Tidal Wetland Restoration – Part 1</b>		
Co-Chairs: Tony M. Bowron, CBWES Inc., Halifax, NS, and Danika van Proosdij, Department of Geography and Environmental Studies, Saint Mary's University, Halifax, NS Cox 138		
1:30-1:50	Christopher <b>Ross</b>	<i>The Nova Scotia Department of Agriculture's Management Plan for Nova Scotia Dykeland System</i>
1:50-2:10	Danika <b>van Proosdij</b> and Christopher Ross	<i>Vulnerability Assessment of Dyke Infrastructure in the Bay of Fundy</i>
2:10-2:30	Alexander <b>Wilson</b> et al.	<i>Truro Flood Risk Study: Looking for Sustainable Flood Protection</i>
2:30-2:50	Tony <b>Bowron</b> et al.	<i>Striking a Balance: Application of Coastal Habitat Restoration for Climate Change Adaptation</i>
2:50-3:00	Discussion	

**Break 3:00-3:30**  
Outside Plenary Room - Lecture Theatre Room 24

<b>Tidal Power &amp; Renewable Energy – Part 2</b>		
Moderator: Anna Redden, Acadia University, Wolfville, NS Plenary Room - Lecture Theatre Room 24		
3:30-3:50	Haley A. Viehman, Tyler Boucher and Anna M. <b>Redden</b>	<i>Acoustic Detection of Fish Density and Vertical Distribution and Relationships with Flow Conditions at the FORCE Tidal Energy Test Site</i>
3:50-4:10	Michael J.W. <b>Stokesbury</b> et al.	<i>Quantifying Fish-Turbine Overlap Using High Residency Acoustic Electronic Tagging Technology</i>
4:10-4:30	Mike J. <b>Adams</b> , Anna M. Redden and Brian G. Sanderson	<i>Passive Acoustic Drift Surveys of Harbour Porpoise (Phocoena phocoena) Presence and Behaviour in the Minas Passage and Adjacent Waters</i>
4:30-4:50	Caitlin <b>Peace-Williams</b> and John Colton	<i>Social Licence and Tidal Energy Development in Nova Scotia, Canada</i>
4:50-5:00	Discussion	

Presenting author highlighted. Abstracts published separately.

<b>Monitoring and Contaminants</b>		
Chair: Jack Fife, Fisheries and Oceans Canada, St. Andrews, NB <i>Cox 41</i>		
3:30-3:50	Adria A. Elskus et al.; Peter G. <b>Wells</b> presenting	<i>Mussels and Sediment as Monitoring Tools for Contaminants: Which to Use When</i>
3:50-4:10	Heather L. <b>Hunt</b> et al.	<i>Cobble-Filled Bio-Collectors: a Tool for Detecting Changes in Biodiversity in a Difficult-to-Sample Habitat in the Bay of Fundy</i>
4:10-4:30	Krista L. <b>Beardy</b> and Heather L. Hunt	<i>Microplastic Concentrations in the Intertidal Sediment and Benthic Organisms in the Lower Bay of Fundy, Southwestern New Brunswick</i>
4:30-4:50	Jack <b>Fife</b> , Frederick H. Page and Blythe D. Chang	<i>Metadata for Bay of Fundy Long-term Hydrographic Monitoring Stations</i>
4:50-5:00	Discussion	

<b>Dykelands &amp; Tidal Wetland Restoration – Part 2</b>		
Co-Chairs: Tony M. Bowron, CBWES Inc., Halifax, NS, and Danika van Proosdij, Department of Geography and Environmental Studies, Saint Mary's University, Halifax, NS <i>Cox 138</i>		
3:30-3:50	Jennie M. <b>Graham</b> et al.	<i>Building on Ten Years of Experience to Design the Truro-Onslow Dyke Realignment and Tidal Wetland Restoration Project</i>
3:50-4:10	Jennifer A. <b>Graham</b> , Tony Bowron and Kevin Bekkers	<i>Truro Salt Marsh Restoration: Learning Lessons About Communications, Collaboration, and Engagement</i>
4:10-5:00	Discussion	

<b>Poster Session 5:00-6:00</b>
<i>Cox 43</i>

**Dinner on own**

<b>PUBLIC PLENARY KEYNOTE</b>
<b>7:30-9:00 pm</b>
<i>Plenary Room - Lecture Theatre Room 24</i>
<b>Dr. Tony Walker</b> , Dalhousie University
<i>Drowning in Debris: Solutions for a Global Pervasive Marine Pollution Problem</i>



## FRIDAY, 11 MAY

<b>REGISTRATION</b>	
<i>Outside Plenary Room - Lecture Theatre Room 24</i>	
8:00–	Registration

<b>PLENARY KEYNOTE 8:30-10:00</b>		
<i>Plenary Room - Lecture Theatre Room 24</i>		
8:30	Marianne Janowicz, BoFEP Chair	Welcome
8:35		Introduction of Speaker
8:40	Dr. Graham R. Daborn, Acadia University	<i>Reflections on the Bay of Fundy and its Future</i>
<i>Paper presentation</i>		
9:40	Peter G. Wells	<i>Emerging Environmental Issues in the Bay of Fundy and Gulf of Maine</i>

<b>Break 10:00-10:30</b>	
<i>Outside Plenary Room - Lecture Theatre Room 24</i>	

### CONCURRENT SESSIONS – 10:30 to 12:00

<b>Information Use at the Science–Policy Interface in Decision-Making in the Bay of Fundy Region</b>	
Convenor: Environmental Information: Use and Influence (EIUI) research program, School of Information Management, Dalhousie University	
<i>Plenary Room - Lecture Theatre Room 24</i>	
This panel, hosted by the EIUI research program, will address three main questions:	
<ol style="list-style-type: none"><li>1. Does information produced by governmental, intergovernmental, and non-governmental organizations reach policy makers and decision makers in an efficient and timely manner?</li><li>2. What are enablers and barriers to the use of marine environmental information at the science-policy interface?</li><li>3. Despite the continued push to expand our knowledge bases, how can we use the existing information that we have better, to inform policy- and decision-making aimed at seeking solutions to serious coastal and ocean problems?</li></ol>	
Panelists:	
<ul style="list-style-type: none"><li>• Bertrum MacDonald (Chair), <i>School of Information Management, Dalhousie University</i></li><li>• Suzuette Soomai, <i>School of Information Management, Dalhousie University</i></li><li>• Rachael Cadman, <i>School for Resource and Environmental Studies, Dalhousie University</i></li><li>• Simon Ryder-Burbidge, <i>Marine Affairs Program, Dalhousie University</i></li><li>• Diana Castillo, <i>School of Information Management, Dalhousie University</i></li><li>• Kalene Eck, <i>Marine Affairs Program, Dalhousie University</i></li><li>• James Ross, <i>Faculty of Engineering, Dalhousie University</i></li></ul>	

Presenting author highlighted. Abstracts published separately.

<b>Oceans Protection Plan &amp; Marine Protected Areas – Part 1</b>		
Moderator: Heather Breeze, Fisheries and Oceans Canada, Dartmouth, NS <i>Cox 41</i>		
10:30-10:50	Phoebe <b>Miles</b>	<i>Oceans Protection Plan: Overview and Introduction</i>
10:50-11:10	Angela <b>Sangster</b>	<i>Piloting a Risk-based Response Planning Approach</i>
11:10-11:30	Jessica R. <b>Seward</b> and J. Knill	<i>The Aboriginal Use of Marine and Coastal Resources in the Bay of Fundy, Canada</i>
11:30-11:50	Heather <b>Breeze</b>	<i>Fisheries and Oceans Canada's Renewed Marine Environmental Quality Program</i>
11:50-12:00	Discussion	

<b>Dykelands &amp; Tidal Wetland Restoration – Part 3</b>		
Co-Chairs: Tony M. Bowron, CBWES Inc., Halifax, NS, and Danika van Proosdij, Department of Geography and Environmental Studies, Saint Mary's University, Halifax, NS <i>Cox 138</i>		
10:30-10:50	Graeme A. <b>Matheson</b> et al.	<i>The Impact of Flood and Erosion Prevention Structures and Strategies on Saltmarsh Development in the Cobequid Bay, Nova Scotia</i>
10:50-11:10	Gregory S. <b>Norris</b> et al.	<i>Dynamics of Focal Plant Patches during a Salt Marsh Restoration in the Upper Bay of Fundy from 2011–2017</i>
11:10-11:30	Spencer D.S. <b>Virgin</b> et al.	<i>Community Dynamics in a Salt Marsh Restoration Project in the Upper Bay of Fundy: Seven Years Later</i>
11:30-11:50	Kirsten <b>Ellis</b> et al.	<i>Living Shorelines in Atlantic Canada: Effectiveness of Natural Bank Protection</i>
11:50-12:00	Discussion	

**Lunch 12:00-1:30**  
*Outside Plenary Room - Lecture Theatre Room 24*

## CONCURRENT SESSIONS – 1:30 to 2:30

<b>Oceans Protection Plan &amp; Marine Protected Areas – Part 2</b>		
Moderator: Heather Breeze, Fisheries and Oceans Canada, Dartmouth, NS <i>Cox 41</i>		
1:30-1:50	Paula <b>Doucette</b>	<i>Oceans Protection Plan: Cumulative Effects of Marine Shipping</i>
1:50-2:10	Graham <b>Bartlett</b> et al.	<i>Strengthening Relationships through Coastal Environmental Baseline Data Collection: A Case Study in the Port of Saint John, New Brunswick</i>
2:10-2:30	Elise <b>Will</b> et al.	<i>Marine Protected Area Network Development in the Scotian Shelf Bioregion: Progress to Date</i>

Presenting author highlighted. Abstracts published separately.

<b>Dykelands &amp; Tidal Wetland Restoration – Part 4</b>		
Co-Chairs: Tony M. Bowron, CBWES Inc., Halifax, NS, and Danika van Proosdij, Department of Geography and Environmental Studies, Saint Mary's University, Halifax, NS <i>Cox 138</i>		
1:30-1:50	Raymond <b>Jahncke</b> , Danika van Proosdij and Christopher Ross	<i>Modeling Present-Day and Future High Water Lines with Lidar, Surveyed Dykes, and Modeled Water Crossings, and its Impact on Dykelands</i>
1:50-2:10	Donald <b>Killorn</b>	<i>Living Shorelines: A Natural Approach to Coastal Erosion Management on the Bay of Fundy</i>
2:10-2:30	Kate <b>Sherren</b>	<i>How Can Public Discourses Identified Using Q-Methodology Help Inform the Management of Bay of Fundy Dykelands Under Climate Change?</i>

<b>Break 2:30-2:45</b> <i>Outside Plenary Room - Lecture Theatre Room 24</i>
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## CONCLUDING SESSION – 2:45 to 4:30

<b>Future Research in the Bay of Fundy and BoFEP's Role and Workshop Closing</b>	
Chair: Marianne Janowicz, BoFEP <i>Plenary Room - Lecture Theatre Room 24</i>	
This panel will discuss future research needs in the Bay of Fundy, considering current and emerging issues affecting the bay. A focus of this panel discussion will be the role of BoFEP in facilitating future research: should BoFEP's role be primarily in communications; promotion and coordination of research; or other? As an organization that is primarily run by volunteers, how can BoFEP continue to function and have a meaningful role? All workshop participants are invited to contribute to this discussion.	
Panelists:	
<ul style="list-style-type: none"> <li>• Graham Daborn (Acadia University)</li> <li>• Bill Casey (MP, Cumberland-Colchester, Nova Scotia)</li> <li>• Peter Wells (Dalhousie University)</li> <li>• Sarah Chamberlain (BoFEP)</li> <li>• Joshua McNeely (Maritime Aboriginal Peoples Council)</li> </ul>	
2:45-4:00	Introduction & Panel Discussion
4:00-4:15	Presentation of Student Awards
4:15-4:30	Wrap-up and Workshop Closing

## SATURDAY, 12 MAY

<b>Field Trip: Tidal Bore Rafting with Fundy Tidal Bore Adventures</b>	
7:15-12 noon (approx.)	Meet outside Chapman House for ride share to the rafting site <b><i>Pre-registration required</i></b>

**A special thank you to  
Fisheries and Oceans Canada,  
the Fundy Ocean Research Center for Energy, and  
Mountain Equipment Coop  
for their support**



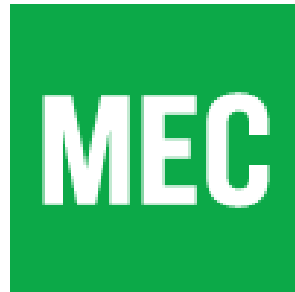
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Canada**

**Pêches et Océans  
Canada**



**FORCE**

Fundy Ocean Research Center for Energy



**Workshop Organizing Committee**

Joshua McNeely and Marianne Janowicz, Co-Chairs  
Sarah Chamberlain (Logistics)  
Blythe Chang (Program)  
Jon Percy (Logistics)  
Susan Rolston (Logistics)  
Peter Wells (Program)