

**Wednesday, May 8th- Sobeys Building, 903 Robie St**

**Tools and Technology (SB260) Chair, Danika van Proosdij**

8:30-8:50	Eric Roberts <sup>1*</sup> ; T. Ballester <sup>2</sup> ; D. Burdick <sup>2</sup> ; Curtis Bohlen <sup>3</sup> ; J. Freedman <sup>4</sup> ; K. Howard <sup>5</sup> ; J. Knisel <sup>6</sup> ; J. H. Mattei <sup>7</sup> ; J. O'Donnell <sup>8</sup> ; P. Slovinsky <sup>9</sup>	Monitoring metrics, data collection and analysis for living shoreline approach	1 The Nature Conservancy; 2 University of New Hampshire; 3 University of Southern Maine; 4 Rhode Island Coastal Resources Management Council; 5 New Hampshire Department of Environmental Services Coastal Program; 6 Massachusetts Office of Coastal Zone Management; 7 Sacred Heart University; 8 University of Connecticut, Connecticut Institute for Resilience and Climate Adaptation; 9 University of Connecticut, Connecticut Institute for Resilience and Climate Adaptation
8:50-9:20	Invited 5-Min Pop-up Talks & Knowledge-Exchange	Pop talks & group discussion	
9:20-9:40	Greg Baker <sup>1,2*</sup>	Technical Considerations Regarding the Use of Remotely Piloted Aircraft for Monitoring Nature-Based	1 Saint Mary's University; 2 Maritime Provinces Spatial Analysis Research Centre (MP SpARC)
9:40-10:10	Invited 5-Min Pop-up Talks & Knowledge-Exchange	Pop talks & group discussion	

10:10-10:30 Break

**Communicating with Stakeholders and Communities (SB260): Chair, Danika van Proosdij, Saint Mary's University**

10:30-10:40	Kate Sherren*	Finding Leverage Points: Understanding cognitive, psychological, social and cultural responses and barriers to nature-based solutions	School for Resource and Environmental Studies, Dalhousie University
10:40-11:00	Round Table 1	Generating "buy-in" with stakeholders: What works? What doesn't work?	
11:00-11:20	Round Table 2	Communicating to the broader public: What works? What doesn't?	
11:20-12:00	Kate Sherren*	Synthesis and wrap up	School for Resource and Environmental Studies, Dalhousie University

12:00-1:00 Lunch

**Free Public & Practitioner Tech-Vendor Trade Show: Demos & Applied Posters (L290)**

1:00-2:30 Public &	Alexi Baccardax	Introduction to the Canadian Integrated Ocean Observing System Atlantic	CIOOS-Atlantic
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Public & Practitioner Tech-Vendor Trade Show and Applied Posters	Jessica Wilson <sup>1,2*</sup> ; I. Nistor <sup>1</sup> ; M. M. Mohammed <sup>1</sup>	Nature-based coastal protection using Large Woody Debris: What is it and does it work?"	1 University of Ottawa; 2 Northwest Hydraulic Consultants
	DG Blair*	Using Green Shores® to address coastal flooding- a resilient approach to Sea Level Rise	Stewardship Centre for BC
	Danika van Proosdij <sup>1*</sup> ; J. Graham <sup>2</sup> ; T. Bowron <sup>2</sup> ; R.	Making Room for Wetlands – Implementation of Managed Realignment and Salt Marsh Restoration to Enhance Resilience of Dykeland Communities to	1 Saint Mary's University; 2 CBWES Inc.; 3 Queen's University; 4 Nova Scotia Department of Agriculture; 5 Nova Scotia Department of Transportation and Infrastructure Renewal
	Claire Tusz*	Exploring Frameworks for How to Implement Nature-Based Coastal Adaptation	Dalhousie School of Planning
	Angela Banks*	Development of a Coastal Restoration Program for Prince Edward Island	PEI Watershed Alliance
	Kate Clark*; P. Manuel; E. Rapaport	Making Room for Movement: Valuation of Nature-Based Coastal Adaptation	Dalhousie School of Planning
	Tony Bowron <sup>1*</sup> ; J. Graham <sup>1</sup> ; D. van Proosdij <sup>2</sup> ; J. Lundholm <sup>2</sup> ; N.	Looking Back over 15+ Years of Tidal Wetland Restoration Projects in Nova Scotia, Canada	1 CBWES Inc.; 2 Saint Mary's University; 3 Nova Scotia Department of Transportation and Infrastructure
	Kelly Schnare*	Personalizing our Shorelines	Re-imagining Atlantic Harbours for 2050 (RAH2050)
	M. Schoell <sup>1</sup> ; Suzanne Ayvazian <sup>2*</sup> ; A. Gerber-Williams <sup>3</sup> ; M. Chintala <sup>2</sup> ; D. Grunden <sup>4</sup> ; A. Pimenta <sup>2</sup> ; D. Cobb <sup>2</sup> ; C. Strobel <sup>2</sup> ; K. Rocha <sup>2</sup>	Living Shorelines and Nitrogen Mitigation on Martha's Vineyard, MA	1 US Environmental Protection Agency, Office of Research and Development, Atlantic Ecology Division; 2 US Environmental Protection Agency, Office of Research and Development, Atlantic Ecology Division; 3 ORISE Fellow, US Environmental Protection Agency, Office of Research and Development, Atlantic Ecology Division; 4 Town of Oak Bluffs Shellfish Department
2:30-3:00 Break			
<b>Indigenous-led Perspectives (SB255)</b>			
3:00-4:30	Roger Lewis <sup>1*</sup> ; Ursula Johnson	Facilitating critical discourse to create lasting change for meaningful collaboration around climate change adaptation: Educate, inform, challenge, and entertain.	1 Curator of Ethnology, Nova Scotia Museum of Natural History; 2 Multidisciplinary Mi'kmaq Artist
<b>Free Public &amp; Practitioner Tech-Vendor Trade Show Reception (L290)</b>			
<b>Licensed Networking Reception 4:30-6:00</b>	Dr. Robert Summerby-Murray	Opening Remarks	President of Saint Mary's University
	Licensed Networking Event with Registrants from Climate-Resilient Workshop, ACCESS, Tech-Vendors, and the Public!		
<b>Thursday Morning, May 9th: Burke Building, Theatre B, 5932 Inglis St</b>			
<b>Coastal Habitat Restoration and Climate Change Adaptation</b>			
	* Presenting Author, (GS) Graduate Student, (US) Undergraduate Student		
7:45-8:25	Registration	Please bring slides and posters to registration table	

8:30-9:00	Land Acknowledgement & Welcome Remarks	Raymond Sewell, Saint Mary's Indigenous Student Advisor	
9:00-10:00	<b>CERF Keynote</b> Dr. Ariana Sutton-Grier	Green Infrastructure & Blue Carbon: Science to Inform Management, Policy and Decision Making	The Nature Conservancy
10:00-10:20 Break			
10:20-10:40	C. McCarthy <sup>1</sup> , D. Kehler <sup>2</sup> ; S. O'Grady <sup>1</sup> ; Gabrielle Beaulieu <sup>1*</sup> ; N. Feindel <sup>3</sup>	Signs of ecosystem recovery after invasive European green crab removals at Kejimikujik National Park Seaside, Nova Scotia, Canada	1 Kejimikujik National Park & National Historic Site, Parks Canada; 2 Monitoring and Information Management Directorate, Parks Canada; 3 Nova Scotia Department of Fisheries and Aquaculture
10:40-11:00	Erin K. Wilson <sup>1*(GS)</sup> ; D. J. Garbary <sup>2</sup>	Absence of recovery in a degraded eelgrass ( <i>Zostera marina</i> L.) bed in Nova Scotia, Canada: results from a transplant study	1 University of Akureyri; 2 St. Francis Xavier University
11:00-11:20	Merydie Ross <sup>1,2*</sup> ; C. Robertson <sup>2</sup>	Incorporating Indigenous knowledge in a habitat restoration project	1 Mi'kmaw Conservation Group; 2 Clean Foundation
11:20-11:40	Eric Roberts <sup>1*</sup> ; T. Ballester <sup>2</sup> ; D. Burdick <sup>2</sup> ; Curtis Bohlen <sup>3</sup> ; J. Freedman <sup>4</sup> ; K. Howard <sup>5</sup> ; J. Knisel <sup>6</sup> ; J. H. Mattei <sup>7</sup> ; J. O'Donnell <sup>8</sup> ; P. Slovinsky <sup>9</sup>	Applying living shoreline approaches to increase resilience and reduce risk in New England	1 The Nature Conservancy; 2 University of New Hampshire, 3 University of Southern Maine, 4 Rhode Island Coastal Resources Management Council, 5 New Hampshire Department of Environmental Services Coastal Program, 6 Massachusetts Office of Coastal Zone Management, 7 Sacred Heart University, 8 University of Connecticut, Connecticut Institute for Resilience and Climate Adaptation, 9 Maine Geological Society;
11:40-12:00	Danika van Proosdij <sup>1*</sup> ; J. Graham <sup>2</sup> ; T. Bowron <sup>2</sup> ; K. Bekkers <sup>3</sup> ; W. Weatherbee <sup>1</sup> ; R. Aykol <sup>1</sup> ; E. Poirier <sup>1</sup>	The solstice breach: implementation of managed realignment at the converse marsh, Cumberland basin	1 Saint Mary's University; 2 CBWES Inc.; 3 Nova Scotia Department of Agriculture, Agriculture and Food Advisory Services, Land Protection
12:00-1:00 Lunch			
<b>Thursday Afternoon, May 9th: Burke Building, Theatre B, 5932 Inglis St</b>			
<b>Climate Change Adaptation and Mitigation: Tools and Technology</b>			
1:00-1:20	Gail Chmura*	Calculating accumulation rates of blue carbon in maritime saltmarsh soils - does reduced decomposition result in more constant rates over time?	McGill University

1:20-1:40	Jennie Graham <sup>1*</sup> ; D. van Proosdij <sup>2</sup> ; T. Bowron <sup>1</sup> ; K. Ellis <sup>2</sup> , K. Bekkers <sup>3</sup>	Managed realignment of the Belcher St. Marshland: moving the dyke back before it breaks	1 CBWES Inc; 2 Saint Mary's University; 3 Nova Scotia Department of Agriculture, Agriculture and Food Advisory Services, Land Protection
1:40-2:00	Graeme Matheson*(GS); D. van Proosdij <sup>2</sup>	Using unmanned aerial systems, structure-from-motion software and empirical measurements of hydrodynamics to measure borrow pits infill rates in a	Saint Mary's University
2:00-2:20	Reyhan Akyol <sup>1*(GS)</sup> ; D. van Proosdij <sup>1</sup> ; G. Baker <sup>2</sup> ; J. Graham <sup>3</sup>	Development of a semi-automated classification of hyperspatial imagery to detect landscape change following managed dyke realignment	1 Saint Mary's University; 2 Maritime Provinces Spatial Analysis Research Center; 3 CBWES Inc.
2:20-2:40	Gail L. Chmura*; L. B. van	The Bay of Fundy blue carbon story (map)	McGill University
2:40-3:00 Break			
3:00-3:20	Barret Kurylyk*; R. Craddock; J. Cantelon; J. KarisAllen	Out of sight, out of mind: the overlooked importance of coastal aquifers	Dalhousie University
3:20-3:40	L. Vasseur; Bradley May*, M. DeCock	Co-creating knowledge to increase social-ecological system resilience: the town of Lincoln, Ontario	Brock University, Environmental Sustainability Research Centre
3:40-4:00	Mary Kennedy <sup>1*</sup> ; A. Baccardax Westcott <sup>2</sup> ; C. D'Orsay <sup>3</sup>	A citizen science success story on Canada's East Coast: the iNaturalist city nature challenge	1 iNaturalist Canada (member); 2 COINAtlantic; 3 Parks Canada
4:00-5:00	<b>ACCESS Annual General Meeting</b>		
6:30	<b>ACCESS Licensed Networking Reception at the Discovery Centre's Ocean Gallery, 1215 Lower Water St</b>		
<b>Friday May 10th: Burke Building, Theatre B, 5932 Inglis St</b>			
<b>Estuarine Science</b>			
8:30-8:50	Vincent A. McMullin <sup>1,3*</sup> ; H. Hunt <sup>1</sup> ; K. Munkittrick <sup>2</sup> ; S. Courtenay <sup>1,3</sup>	Are caged blue mussels a viable sentinel for environmental effects monitoring? A study of reproduction, growth, mortality, and species complex in wild and caged blue mussel ( <i>mytilus edulis</i> ) in southern New Brunswick	1 University of New Brunswick St John; 2 Cold Regions and Water Initiatives; Wilfred Laurier University; 3 Canadian Rivers Institute at the School of Environment, Resources and Sustainability, University of Waterloo
8:50-9:10	Matthew Mogle <sup>1*(GS)</sup> ; D. Hamilton <sup>1</sup> ; M. Barbeau <sup>2</sup> ; J. Liefer <sup>1</sup> ; M. Fyfe <sup>1</sup>	Macromolecular content of microphytobenthic biofilm at two intertidal mudflats in the upper Bay of Fundy, Canada.	1 Mount Allison University; 2 University of New Brunswick-Fredericton

9:10-9:30	Gregory S. Norris <sup>1*</sup> (GS); T. G. Gerwing <sup>1</sup> ; M. A. Barbeau <sup>1</sup> ; D. J. Hamilton <sup>2</sup>	Colonization dynamics in experimentally disturbed areas of mudflat in the upper Bay of Fundy, Canada	1 University of New Brunswick; 2 Mount Allison University
9:30-9:50	Taylor Burke*(GS); J. Addison	Genetic analysis of selection on Atlantic lineages of stronglycentroid sea urchins across an ecological gradient	University of New Brunswick Fredericton
9:50-10:10	R. A. Scrosati; Matthew J. Freeman*(GS); J. A. Ellrich	Rocky intertidal community structure and benthic-pelagic coupling in wave-exposed environments along the Nova Scotia coast	St. Francis Xavier University
10:10-10:30 Break			
10:30-12:00 <b>Poster Session B205</b>	Ben Hewins*(US); A. Rideout; W. Harding; E. MacDonald; L. Ferguson; G. Gibson	Effects of environmentally-relevant levels of microplastics on tissue structure in mytilus edulis (blue mussels)	Acadia University
	Bruce W. Malloch*(GS); A. K. Walker	Two new species of marine fungi (ascomycota) isolated from intertidal plant and algal detritus, with notes on a bacterial mycoparasite	Acadia University
	Caryn Cooper*(US); A. K. Walker	A survey of marine macroalgal species of bon portage island, nova scotia	Acadia University
	Cole Vail*(US); A. Walker	Vertical zonation and molecular identification of littoral zone lichens	Acadia University
	Emily Paton <sup>1*</sup> (GS), R. Rochette <sup>1</sup> ; B. Hayden <sup>2</sup>	Quantifying the interaction between salmon aquaculture waste and juvenile American lobster ( <i>Homarus americanus</i> ) in southwest Bay of Fundy	1 University of New Brunswick St John; 2 University of New Brunswick Fredericton
	Erin MacDonald*(US); A. Bunbury-Blanchette; G. Gabrielle Beaulieu*	Recruitment of corophium volutator into existing macrofaunal communities	Acadia University
	Gabriele Beaulieu*	Climate change adaptation framework for parks and protected areas	Kejimikujik National Park
	Gail L. Chmura <sup>1*</sup> ; L. B. van Ardenne <sup>1</sup> ; S. Jolicoeur <sup>2</sup>	Controls of marsh hydrology, climate and photoperiod on availability of the maritime ringlet's nectar sources	1 McGill University; 2 Université de Moncton
	Jennie Graham <sup>1*</sup> , T. Bowron <sup>1</sup> ; D. van Proosdij <sup>2</sup> ;	High resolution, low-altitude aerial photography for habitat restoration, monitoring and mapping	1 CBWES Inc. 2 Saint Mary's University
Jiali Gu*(GS); L. B. van Ardenne; Gail L. Chmura	Contributions of invasive phragmites to soil volume and (blue) carbon in a St. Lawrence saltmarsh	McGill University	

	Laura Bartlett <sup>1*</sup> ; L. Ross <sup>2</sup> ; G. Beaulieu <sup>3</sup>	Blue Carbon Estimation for a Recovered Eelgrass ( <i>Zostera marina</i> ) Bed at Kejimikujik National Park Seaside, Port Joli, Nova Scotia	1 Dalhousie University, School for Resource and Environmental Studies, 2 Dalhousie Marine Affairs Program, 3 Parks Canada
	Matthew S. A. Penney <sup>1*</sup> (GS); D. T.	The population genetic structure of a commercial holothurian ( <i>cucumaria frondosa</i> ) using radseq	1 Acadia University; 2 Cape Breton University
	Melisa C. Wong*; L. M. Kay	Evaluating seagrass habitats as biodiversity surrogates for conservation planning	Fisheries and Oceans Canada
	Sarah Adams*(GS); A. K. Walker	Diversity of fungi from marine wood from the Bay of Fundy, Nova Scotia, Canada	Acadia University
	Tony Bowron <sup>1*</sup> ; J. Graham <sup>1</sup> ; D. van Proosdij <sup>2</sup> ; J. Lundholm <sup>2</sup> ; B. Pett <sup>3</sup>	Looking back over 15+ years of tidal wetland restoration projects in Nova Scotia, Canada	1 CBWES Inc.; 2 Saint Mary's University; 3 Nova Scotia Department of Transportation and Infrastructure Renewal
12:00-1:00 Lunch			
<b>Coastal Systems &amp; Climate Change</b>			
1:00-1:20	Rebeca C. Linhart <sup>1*</sup> (GS); S. S. Davis <sup>1</sup> ; D. J. Hamilton <sup>1</sup> ; J. Paquet <sup>2</sup>	Use of coastal and Bay of Fundy sites by migrating Semipalmated Sandpipers	1 Mount Allison University; 2 Canadian Wildlife Service, Environment and Climate Change Canada
1:20-1:40	Jason KarisAllen*(GS); B. Kurylyk	Using heat to trace groundwater-pond exchanges on a small barrier island in the North Atlantic	Dalhousie University
1:40-2:00	Scott V. Hatcher*; G. K. Manson	Approaches to calculating the physical sensitivity of Canada's marine coasts to climate change: score aggregation using u-statistics.	Geological Survey of Canada- Atlantic
2:00-2:20	Gavin K. Manson*; S. V. Hatcher	The changing physical sensitivity of Canada's marine coasts	Geological Survey of Canada - Atlantic
2:20-2:40	Candace MacDonald <sup>1*</sup> , T. Webster <sup>1</sup> ; J. S. Lauzon-Guay <sup>2</sup>	Topographic-bathymetric lidar for volumetric assessments of intertidal macroalgae in SW Nova Scotia	1 NSCC Applied Geomatics Research Group; 2 Merinov, (Formerly of Acadian Seaplants Limited)
2:40-3:10 Break			
3:10-4:00	<b>Hoskin Scientific Student Awards &amp; Closing Remarks</b>		