

Monday, May 6th			
Defining Success & Developing Frameworks <i>Chair, Danika van Proosdij, Saint Mary's University</i>			
8:30-9:00	Land Acknowledgement & Welcome Remarks	Geri Musqua-Leblanc, Dalhousie Elders in Residence	
9:00-9:30	Keynote Speaker Dr. Jeffrey K. King, PE	An Introduction to the US Army Corps of Engineers' Engineering With Nature® Initiative	Deputy National Lead for Engineering With Nature® Initiative with the US Army Corps of Engineers
9:30-10:10	Panel Danika van Proosdij ¹ (Chair); Jeffrey King ² ; Kala Pendakur ³ ; Sabine Dietz ⁴ , Danker Kolijn ⁵ , John Sommerville ⁶	Reflections on the implementation of Nature Based Adaptation (or Nature Based Engineering?) in North America and visions for the future	1 Saint Mary's University; 2 US Army Corps of Engineers; 3 Standards Council of Canada; 4 Aster Group; 5 CBCL Ltd.; 6 Natural Resources Canada
10:10-10:30 Break			
10:30-10:50	Kala Pendakur ^{1*} ; Brian Zupancic ^{2*}	Developing new tools: How standards can support vulnerable communities adapt to climate change	1 Standards Council of Canada; 2 Canadian Standards Association
10:50-11:10	John Sommerville ^{1*} , M. A. Wilson ² .	Collaborative Action on Coastal Adaptation under Canada's Adaptation Platform	1 Policy Analyst, Climate Change Impacts and Adaptation Division, Natural Resources Canada; 2 Program Manager, Climate Change Impacts and Adaptation Division, Natural Resources Canada
11:10-11:30	Eva Mooers ^{*1} ; R. Jamieson; B. Kurylyk ² ; E. Rapaport ² ; P. Manuel ² ; D. Van Proosdij ¹ ; H. Beltrami ³ ; J. Hayward ² ; J. KarisAllen ² ; K. Clark ² ; C. Tusz ² ; R. Jahncke ¹ ; A. García-García ³ ; F. J Cuesta-Valero ³ .	Standard for the incorporation of climate change into riverine and coastal flood mapping in Nova Scotia	1 Nova Scotia Department of Municipal Affairs; 2 School of Planning, Dalhousie University; 3 Saint Mary's University; 3 St. Francis Xavier University
11:30-11:50	Josh Wiebe	Incorporating Living Shorelines principles in shore protection on the Great Lakes	Baird & Associates
11:50-12:00	Chair wrap-up & questions		
12:00-1:00 Lunch			
Lessons from the Field: Collaborations & Cross-disciplinary Boundaries <i>Chair, Danika van Proosdij, Saint Mary's University</i>			
1:00-1:20	K. Lokman ¹ ; Tugce Conger ^{1*}	The 'Living Breakwaters' project: A multi-layered approach to coastal adaptation	1 Institute for Resources, Environment and Sustainability

1:20-1:40	Jessica Foley ^{1*} ; R. Mandel. Ramboll ¹	Adapting to climate change: the importance of site-specific plant considerations for increasing success of living shorelines projects	1 Ramboll
1:40-2:00	Colin McVarish ^{1*} , N. MacDonald ¹ , I. Bryson ¹	An Ecologically Informed Approach to the Design, Build, and Monitoring of Cold Water Living Shorelines in Atlantic Canada.	1 CBCL Ltd.
2:00-2:20	Tony Bowron ^{1,2*} ; J. Graham ^{1,2} ; D. van Proosdij ² ; B. Pett ³ ; K. Bekkers ⁴	Taking off the training wheels: How twenty years of collaboration and experience in tidal wetland restoration can inform the discussion on climate change adaptation in Nova Scotia	1 CBWES Inc.; 2 Saint Mary's University; 3 Nova Scotia Department of Transportation and Infrastructure Renewal; 4 Nova Scotia Department
2:20-2:30	Chair wrap-up & questions		
2:30-3:00 Break			
Barriers & Drivers to Nature Based Adaptation: Social, Economic, Institutional, Environmental Considerations			
3:00-3:10	Danika van Proosdij ^{1,2}	Workshop intro	1 Saint Mary's University, 2 TransCoastal Adaptations
3:10-3:30	Laura McCardle ^{1*} ; M. Conlin ¹	Making Room for Movement: Exploring Drivers and Barriers to Implementing Nature-Based Coastal Adaptations	1 School of Planning, Dalhousie University
3:30-3:50	Round 1	Barriers (Social, economics, institutional, environmental)	
3:50-4:10	Round 2	Drivers (Social, economics, institutional, environmental)	
4:10-4:30	Danika van Proosdij ^{1,2}	Synthesis & wrap-up	1 Saint Mary's University, 2 TransCoastal Adaptations

Tuesday, May 7th

Lessons from the Field: Integrating Coastal Geomorphology and Engineering Chair, Phil Osborne, Golder Associates

8:30-8:40	Chair intro- Setting the stage	Applying nature-based engineering approaches in different coastal environments: review of distinct environmental processes	
8:40-9:00	Pending	Atlantic	
9:00-9:20	Phil Osborne ¹	Pacific - Putting the geomorphology back in to nature-based shoreline design – examples from the Salish Sea	1 Golder Associates
9:20-9:40	Danika van Proosdij ^{1,2}	Fundy - Key considerations for application of nature-based designs in hypertidal, muddy estuaries	1 Saint Mary's University, 2 TransCoastal Adaptations
9:40-10:00	Pending	Northern	

10:10-10:30 Break

Lessons from the Field: Successes, Challenges & Problem Solving

10:30-10:50	Kirsten Ellis ¹ ; J. Graham ¹ ; T. Bowron ¹ ; D. van Proosdij ² ; C. Esau ³ ; K. Bekkers ³	Nature-Based Approaches for Bank Protection and Shoreline Management in Atlantic Canada	1 CBWES Inc.; 2 Saint Mary's University; 3 Nova Scotia Department of Agriculture, Agriculture and Food Advisory Services, Land Protection
10:50-11:10	Esther Gomes*, V. Fernandez, A. Wilson, D. Kolijn, V. Leys.	Engineering Coastal Adaptation in Nova Scotia with Living Shorelines	CBCL Ltd.
11:10-11:30	Justin McKibbon*, S. Renaud, N. Guillemette, T. Fortin-Chevalier, P. Pelletier, G. Latreille	Wetland and Habitat Compensation Project Using a Living-Shoreline Approach	WSP Inc.
11:30-11:50	DG Blair	Green Shores from coast to coast	Stewardship Centre for BC
11:50-12:00	Chair wrap-up & questions		

12:00-1:00 Lunch

Lessons from the Field: Capacity Building and Communities

1:00-1:20	Sabine Dietz ^{1*} ; A. Cheeseman ² ; S. Shet ³	Natural and Nature-Based Infrastructure A BRACE capacity building project aimed at engineers, land use planners and environmental organizations in New Brunswick	1 Aster Group; 2 Nature NB; 3 New Brunswick Environmental Network
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1:20-1:40	Kelly Schnare ¹	Personalizing our Shorelines	1 Re-imagining Atlantic Harbours for 2050 (RAH2050)
1:40-2:00	Deborah Carlson ^{1*} ; J. Readshaw ¹	Living Dike for Coastal Community and Ecosystem Resilience	1 West Coast Environmental Law
2:00-2:30	Chair wrap-up & questions		
2:30-3:00 Break			
Lessons from the Field: Knowledge Gaps, Research Needs and Opportunities			
3:00-3:10	Danker Kolijn ¹	What are current knowledge gaps around successful application of nature based designs, and how can we address them? - Role of CRLS CoP	1 CBCL Ltd.
3:20-4:00	Panel: Danker Kolijn ¹ (Chair); Danika van Proosdij ² ; Phil Osborne ³ ; Tony Bowron ¹ ; DG. Blair ⁴	What are our current gaps in knowledge of successful application of nature based designs and how can we address them?	1 CBCL Ltd.; 2 Saint Mary's University; 3 Golder Associates; 4 Stewardship Centre for BC
4:00-4:20	Open discussion and questions		
4:25-4:30	Danker Kolijn	Synthesis and wrap up	

Wednesday, May 8th			
Tools and Technology			
8:30-8:50	Eric Roberts ^{1*} ; T. Ballestero ² ; D. Burdick ³ ; Curtis Bohlen ² ; J. Freedman ³ ; K. Howard ⁴ ; J. Knisel ⁵ ; J. H. Mattei ⁶ ; J. O'Donnell ⁷ ; P. Slovinsky ⁸ .	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 & group discussion	Pop talks & knowledge exchange	
9:20-9:40	Greg Baker ^{1,2}	Technical Considerations Regarding the Use of Remotely Piloted Aircraft for Monitoring Nature-Based Adaptations	1 Saint Mary's University; 2 Maritime Provinces Spatial Analysis Research Centre (MP_SpARC)
9:40-10:10	Invited 5 min pop-up talks & group discussion	Pop talks & knowledge exchange	
10:10-10:30 Break			
Communicating with Stakeholders and Communities Chair, Kate Sherren, Dalhousie University			
10:30-10:40	Kate Sherren ¹	Finding Leverage Points: Understanding cognitive, psychological, social and cultural responses and barriers to nature-based solutions	1 School for Resource and Environmental Studies, Dalhousie University
10:40-11:00	Round 1	Generating "buy-in" with primary stakeholders: What works? What doesn't work?	
11:00-11:20	Round 2	Communicating to the broader public: What works? What doesn't?	
11:20-12:00	Kate Sherren ¹	Synthesis and wrap up	1 School for Resource and Environmental Studies, Dalhousie University
12:00-1:00 Lunch			
Tech-Vendor Trade Show CIOOS-Atlantic & Dr Drone demos & Applied Posters			

1:00-2:30 Public & Practitioner Tech-Vendor Trade Show and Applied Posters	Jessica Wilson ^{1,2*} ; I. Nistor ¹ ; M. Mohammadian ¹	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 ¹	Using Green Shores® to address coastal flooding- a resilient approach to Sea Level Rise	1 Stewardship Centre for BC
	Danika van Proosdij ¹ ; J. Graham ² ; T. Bowron ² ; R. Mulligan ³ ; C. Ross ⁴ ; K. Bekkers ⁵ ; B. Pett ⁶ .	Making Room for Wetlands – Implementation of Managed Realignment and Salt Marsh Restoration to Enhance Resilience of Dykeland Communities to Climate Change Impacts in the Bay of Fundy, Canada	1 Saint Mary's University; 2 CBWES Inc.; 3 Queen's University; 4 Nova Scotia Department of Agriculture, Agriculture and Food Advisory Services, Land Protection; 5 Nova Scotia Department of Transportation and Infrastructure Renewal
	Claire Tusz ¹	Exploring Frameworks for How to Implement Nature-Based Coastal Adaptation	1 Dalhousie School of Planning
	Angela Banks ¹	Development of a Coastal Restoration Program for Prince Edward Island	1 PEI Watershed Alliance
	Kate Clark ^{1*} ; P. Manuel ¹ ; E. Rapaport ¹	Making Room for Movement: Valuation of Nature-Based Coastal Adaptation	1 Dalhousie School of Planning
	Tony Bowron ¹ ; J. Graham ¹ ; D. van Proosdij ² ; J. Lundholm ² ; N. Neatt ¹ ; B. Pett ³	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 ¹	Personalizing our Shorelines	1 Re-imagining Atlantic Harbours for 2050 (RAH2050)
	M. Schoell ¹ ; Suzanne Ayvazian ^{2*} ; A. Gerber-Williams ³ ; M. Chintala ² ; D. Grunden ⁴ ; A. Pimenta ² ; D. Cobb ² ; C. Strobel ² ; K. Rocha ²	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			
Indigenous-led Perspectives			

3:00-4:30	Ursula Johnson ¹ & Roger Lewis ²	Facilitating critical discourse to create lasting change: Educate, inform, challenge, and entertain.	¹ Multidisciplinary Mi'kmaq Artist; Curator of Ethnology, Nova Scotia Museum of Natural History
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