

Nature-Based Infrastructure for Coastal Resilience and Risk Reduction Symposium 2022

**Symposium
Schedule**

**Saint Mary's University,
Halifax, Nova Scotia
June 26-27, 2022**



TransCoastal
Adaptations
Centre for Nature-Based Solutions



National Research
Council Canada

Conseil national de
recherches Canada

Sunday, June 26

Nature-Based Infrastructure Design Guidance

Writing Workshop

Atrium 340 Clari Hub

1:00–1:15: Registration / ice-breaker

1:15–1:30: Land acknowledgements and welcome remarks

1:30–2:15: Brief for design guide (timeline, outline, comments, template, writing style)

2:15–4:00: Chapter breakout groups (organize writing teams, action plan, outline chapter content)

4:00–4:30: Plenary (chapter leads feedback, Q&A)

6:00: Group Dinner (Halifax)

Monday, June 27

Nature-Based Infrastructure Project

Presentations

Burke 205

7:45–8:30: Registration (Foyer, Burke Building)

8:30–9:00: Land acknowledgements and welcome remarks

9:00–10:10: Session 1 - Metlakatla Shore Protection

(Chair: Danika van Proosdij)

9:00–9:10: Introduction to Metlakatla site (Phil Clement & Robert Nelson)

9:10–9:30: Metlakatla shore protection design and construction (Grant Lamont)

9:30–9:50: Metlakatla field monitoring and community engagement (Michelle Côté)

9:50–10:10: Modelling storm wave impacts and interactions with nature-based features at Metlakatla (Amanj Rahman)

10:10–10:30: Break

10:30–12:00: Session 2 - Chignecto Isthmus (Chair: Ryan Mulligan)

10:30–10:40: Introduction to Chignecto Isthmus site (Danika van Proosdij)

10:40–11:00: Chignecto field monitoring (Emma Poirier)

11:00–11:20: Modelling effects of managed dyke realignment and marsh restoration on tide- and storm surge-driven flooding at Chignecto Isthmus (Ivana Vouk)

11:20–11:40: Physical modelling of wave interactions with salt marsh vegetation (Ross Henteleff)

11:40–12:00: Modelling waves, circulation and sediment transport in Cumberland Basin at multiple scales to inform nature-based infrastructure design (Laura Swatridge & Rachel Burns)

12:00–1:00: Lunch

1:00–2:30: Session 3 - Living Dyke / Boundary Bay

(Chair: Danika van Proosdij)

1:00–10:10: Introduction to Living Dyke project (Gary Williams)

1:10–1:30: History, human impacts and climate change influences on Boundary Bay (Tony Wong & Debbie Miller)

1:30–1:50: Boundary Bay field monitoring and community engagement (Michelle Côté)

1:50–2:10: Numerical modelling of surface waves and storm surge in the Strait of Georgia and Boundary Bay (Ryan Mulligan)

2:10–2:30: Physical modelling investigations to inform the Living Dyke design (Enda Murphy for Mitchel Provan)

2:30–3:00: Break

3:00–4:30: Session 4 - Guest Speakers (Chair: Enda Murphy)

3:00–3:20: Engineering With Nature Program: Overview and example projects (Jeff King)

3:20–3:40: Planting the Living Dyke and the cultural importance of plant (Gary Williams)

3:40–4:00: Lessons learned and from three years of post-restoration monitoring of an island in the Chesapeake Bay, Maryland, USA (Paula Whitfield)

4:00–4:20: The Nature Force Initiative (Eric Balke)

4:20–4:30: Cold Regions Living Shorelines Community of Practice (Danker Koliijn)

4:30–5:00: Closing remarks
