

Peatland Science Symposium – PERG and Can-Peat

Hotel Plaza Laurier (3031 Bd Laurier, Québec, QC G1V 2M2)

PRELIMINARY Program

Wednesday, February 21, 2024

08:15	Introduction by Line Rochefort & Maria Strack (10 min)
08:25	Indigenous Opening (10 min)
08:35	Invited Speaker: Marc-André Bourgault (U. Laval) – Wetland hydrology at the heart of climate action
09:00	David Olefeldt (U. of Waterloo) – Recent and future carbon and greenhouse gas balances of peatlands in boreal western Canada; accounting for wildfire and permafrost thaw
09:15	Fereidoun Rezanezhad (U. of Waterloo) – Winter Carbon Cycling in Canada’s Northern Peatlands
09:30	Katie Hettinga (U. of Waterloo) – Exploring the potential of remote sensing for estimating non-growing season CO ₂ fluxes in Canadian peatlands
09:45	Kendra Shields (U. of Waterloo) – Creating Socio-Economic Scenarios for Ontario’s Peatlands
10:00	Lorna Harris (WCS Canada) – Invitation to Peatland Policy Framework Workshop (5 min.)
10:05	Coffee break and 1 st poster session (25 min.)
10:30	Gwendal Breton (U. Laval) – Presentation on the Moss Layer Transfer Technique outcomes
10:45	Mélina Guéné-Nanchen (U. Laval) – Improving restoration outcomes of <i>Sphagnum</i> -dominated peatlands after peat-extraction: The essential role of phosphorus fertilization
11:00	Laura Catalina Riaño Peña (U. Laval) – Biodiversity of minerotrophic peatland pools: An endeavor towards ecological restoration
11:15	Aamir S. Khan (U. Laval) – Presentation on fen restoration
11:30	Tasha-Leigh Gauthier (U. of Waterloo) – Variability in <i>Sphagnum</i> structure and function: Implications for bog restoration
11:45	Daniel Campbell (CanRePeat) – List, characterize, restore and conserve "historic" post-extracted peatlands
12:00	Lunch (12:00 - 13:30)
13:30	Joe Melton (U. of Waterloo) – Using machine learning to map global peat depths
13:45	Alice Watts (McGill U.) – Biogeochemical properties of peat profiles in extraction fields
14:00	Miranda Hunter (U. of Waterloo) – Plot and sector scale carbon emissions from a peatland under active extraction
14:15	Steffy Velosa (McGill U.) – Evaluating changes in greenhouse gas fluxes from peat stockpiles and field operations
14:30	Nicolas Perciballi (McGill U.) – Quantifying greenhouse gas (GHG) emissions from the drainage network of an actively extracted peatland
14:45	Coffee break and 2 nd poster session (30 min.)
15:15	Frédéric Caron (Premier Tech) – Presentation of the Acotelm Harvesting Method
15:30	Éléonor Bergeron-de Pani (U. Laval) – Optimization of the Acrotelm-Harvesting Method by suppression of decomposition
15:45	Samantha Price (U. of Waterloo) – Evaluation of the Potential of the Acrotelm-Harvesting Method to protect the carbon store
16:00	Lucas Voirin (U. Laval) – What information can acoustic data provide for peatlands conservation?
16:15	3 rd Poster Session & Happy Hour refreshments (16:15 to 17:30) Announcement of best student oral presentations (2) and best student poster (1)

Posters:

1. Méli ^{ssa} Lauder (U. Laval) – MSc preliminary results (root biomass in restored peatlands)
2. Nicolas Duvivier (U. Laval) – Honour’s project (phosphorus alternatives in restoration)
3. Frédéric Létourneau (U. Laval) – Professional MSc (CC monitoring on peatland biodiversity - interesting tool)
4. Kim Kleinke (U. of Waterloo) – Can-Peat: Canada's peatlands as nature-based climate solutions
5. Elyn Humphreys (Carleton) – Evaluating remote sensing and process-based models of surface-atmosphere carbon dioxide exchange in the Hudson Bay Lowlands
6. Marissa Davies (U. of Waterloo) – Improving estimates of annual methane emissions from the Canadian Model for Peatlands (CaMP)
7. Adam Kirkwood (WCS Canada) – Peatland biogeochemistry research in the Hudson Bay Lowland
8. Victoria Goodday (WCS Canada) – Peatland policy framework
9. Melanie Bird (U. of Waterloo) – Compiling greenhouse gas response data for reclaimed and restored Canadian peatlands
10. Chinonso Chris-Emenyonu (U. of Waterloo) – Assessing the effect of water table on CO ₂ exchange in a rewetted peatland
11. Lujyne "Elle" Amro (U. of Waterloo) – Urbanization in Ontario: A Historical Perspective and its impact on wetlands
12. Rayden Laliberté (U. of Waterloo) – Biogeochemistry, carbon dynamics, and urban wetlands
13. Fiona Kurylowicz (U. of Alberta) – Losses of carbon from burned boreal peat plateaus in the first years after wildfire
14. Maryam Bayatvarkeshi (U. of Waterloo) – Influence of seismic lines on boreal ecosystem evapotranspiration