



Federal – Provincial MPB Research Forum
Coast Edmonton Plaza Hotel, 10155 105th St.
Edmonton, AB T5J 1E2

DRAFT AGENDA

Tuesday, October 24, 2023

Evening – 4:00PM – 8:00PM

Valley Ballroom and Foyer, Coast Edmonton Plaza Hotel

Registration, Reception, Poster setup

Day 1 – Q1: Wednesday, October 25, 2023

Valley Ballroom, Coast Edmonton Plaza Hotel

Time		Topic	Speaker
7:00	7:45	Hot Breakfast	Valley Ballroom
7:45	8:00	Welcome and opening remarks Scope of the Federal-Provincial MPB Research Partnership (FPRP), Forum structure and objectives	Dr. Keith McClain , MPB Research Program Lead, fRI Research Caroline Whitehouse , Forest Health Specialist, Forest Health and Adaptation Section, Alberta Forestry and Parks, and Chair of FPRP
8:00	8:15	Welcoming remarks, and “ <i>an outlook to the future</i> ”	Dr. Barry White , Executive Director, fRI Research



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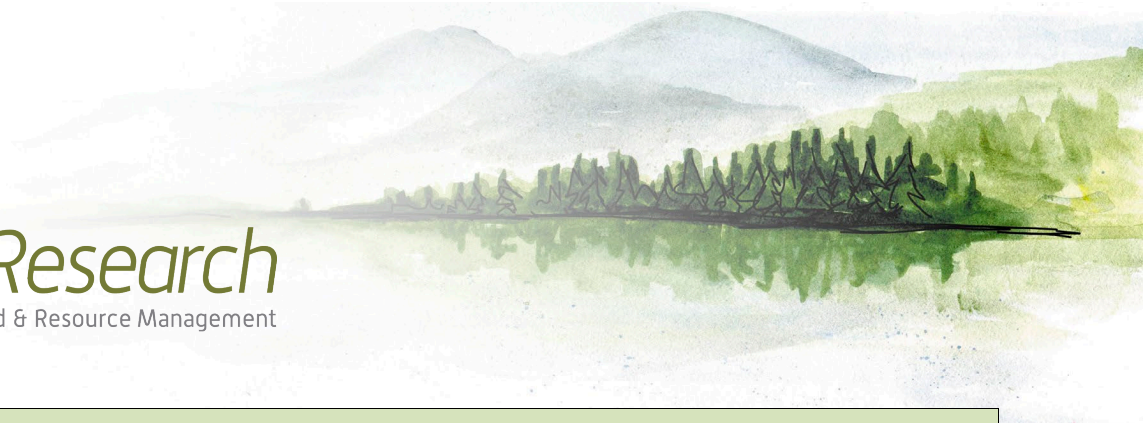
Time		Topic	Speaker
8:15	8:45	Reflections on MPB research in Alberta and its impact on management over the past twenty years	Daniel Lux , ADM, Forestry Division, Alberta Forestry and Parks
8:45	9:30	VIDEO – Evaluating the efficacy of science: Cosmic zoom: How do we know if science is making a difference? Originally presented at the MPB Research Forum 2017.	Dr. Stanford Blade , Dean, Faculty of Agriculture, Life and Environmental Sciences, University of Alberta
9:30	9:45	<i>Introduction and Facilitation of Research Theme 1: MPB Biology</i>	Caroline Whitehouse , Forest Health Specialist, Forest Health and Adaptation Section, Alberta Forestry and Parks
9:45	10:00	<i>Health Break</i>	
10:00	10:30	Modelling eastern spread risk of mountain pine beetle using host genetic ancestry	Dr. Catherine Cullingham , Carleton University
10:30	11:00	The physiological costs and consequences of overwintering in MPB	Dr. Heath MacMillan , Carleton University
11:00	11:30	Improving monitoring tools to detect mountain pine beetle at low densities in novel habitats: incorporating host-tree stress and fungal volatiles in beetle attraction	Dr. Nadir Erbilgin , University of Alberta
11:30	12:00	Modelling long-term dynamics of MPB in Alberta under climate change	Dr. Mark Lewis , Dr. Micah Brush and Xiaoqi Xie , University of Victoria
12:00	12:15	Plenary Discussion	
12:15	1:00	<i>Lunch</i>	



Day 1 – Q2: Wednesday, October 25, 2023

Valley Ballroom, Coast Edmonton Plaza Hotel

1:00	1:15	<i>Introduction and Facilitation of Research Themes 2 & 3 – MPB Dispersal, spread and detection of MPB</i>	Dr. Rory McIntosh , Provincial Forest Entomologist and Pathologist, Government of Saskatchewan
1:15	1:45	Assessment of eastern spread risk of MPB through studies on beetle dispersal	Dr. Maya Evenden , Leanne Petro, Antonia Musso, University of Alberta
1:45	2:15	Dynamic species distribution modelling to predict mountain pine beetle boreal invasion	Dr. Allan Carroll , University of British Columbia
2:15	2:45	Efficient monitoring of mountain pine beetle outbreak spots using artificial intelligence applied to drone thermal imagery	Dr. Nadir Erbilgin , University of Alberta
2:45	3:30	Effects of mountain pine beetle outbreaks on population dynamics of secondary bark and ambrosia beetles	Dr. Nadir Erbilgin , University of Alberta
3:30	3:45	<i>Health Break</i>	
3:45	4:15	Toward pre-emptive management of future outbreaks: predicting the distribution of post- epidemic mountain pine beetle populations in the western boreal forest – <i>a long view</i>	Dr. Allan Carroll , University of British Columbia
4:00	4:45	Plenary Discussion	
4:45	8:00	Reception and Posters	Valley Ballroom



Day 2 – Q3: Thursday, October 26, 2023

Valley Ballroom, Coast Edmonton Plaza Hotel

7:00	7:45	Hot Breakfast	Valley Ballroom
7:45	8:00	Opening Remarks	Dr. Keith McClain / Caroline Whitehouse
8:00	8:15	<i>Introduction and Facilitation of Research Theme 4: Social Impact of MPB & managing for resilience</i>	John Stadt , Provincial Forest Ecologist, Forestry Division, Alberta Forestry and Parks
8:15	8:45	Gene conservation to mitigate impacts of mountain pine beetle on endangered Whitebark Pine at its northern limit in Alberta	Jodie Krakowski , Whitebark Pine Ecosystem Foundation of Canada
8:45	9:15	Using innovative techniques to understand how mountain pine beetle is shifting ecosystem composition and configuration in Jasper National Park.	Dr. Eric Higgs and James Tricker , University of Victoria
9:15	9:45	Using novel approaches to understand mountain pine beetle impacts on upper elevation sites in Jasper National Park	Dr. Eric Higgs and Claire Wright , University of Victoria
9:45	10:15	Health Break	
10:15	10:45	Soil carbon stocks in forests recovering from mountain pine beetle outbreak: a possible C sink?	Nicole Lau and Dr. Justine Karst , University of Alberta
10:45	11:15	Development of fine spatial resolution tree species information for MPB-impacted ecosystems for species-at-risk habitat assessment	Dr. Nicholas Coops , University of British Columbia
11:15	11:45	Wildlife responses to forest stands impacted by mountain pine beetle in western Canada	Dr. Laura Finnegan , fRI Research
11:45	12:30	Lunch	
12:30	1:00	Impacts of the Mountain Pine Beetle on the snow hydrology of the McLeod River watershed	Dr. Siraj ul Islam , University of Northern British Columbia



Day 2 – Q3: Thursday, October 26, 2023

Valley Ballroom, Coast Edmonton Plaza Hotel

1:00	1:30	Community and First Nation Resilience to Mountain Pine Beetle and Environmental Change	Dr. Rob Friberg , New Forest Outlook Ltd.
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Day 2 – Q4: Thursday, October 26, 2023

Valley Ballroom, Edmonton Plaza Hotel

1:30	1:45	<i>Introduction: Research Theme 5: Wildfire behaviour in beetle killed forests</i>	Dr. Chris Stockdale , Northern Forestry Centre, Canadian Forest Service, Natural Resources Canada
1:45	2:15	Generation of tree level fire fuel information across MPB Infestation mosaics	Evan Gerbrecht and Dr. Nicholas Coops , University of British Columbia
2:15	2:40	Assessment of risk factors influencing landscape level fire in MPB forests	Dr. Christopher Bone , University of Victoria
2:40	3:10	Quantifying spatio-temporal variability in post-mountain pine beetle outbreak fuels, in Jasper National Park, using terrestrial laser scanning, and bi-temporal multi-spectral airborne LIDAR	Dr. Christopher Hopkinson and Dr. Laura Chasmer , University of Lethbridge
3:10	3:35	Understanding fire behaviour in mountain pine beetle disturbed vs. managed fuel complexes using novel data sources	Dr. Laura Chasmer , University of Lethbridge
3:35	4:05	How do the spatial legacies of mountain pine beetle outbreaks affect fire severity in Canadian lodgepole pine forests?	Dr. Patrick James , University of Toronto
4:05	4:30	Influence of a widespread mountain pine beetle outbreak on fire likelihood in British Columbia 2002-2021, and implications for Alberta.	Dr. Chris Stockdale , Northern Forestry Centre, Canadian Forest Service, Natural Resources Canada
4:30	4:45	Plenary Discussion Closing remarks	Dr. Chris Stockdale Caroline Whitehouse and Dr. Keith McClain , Forum Co-Chairs