

**SERG INTERNATIONAL
2024 WORKSHOP
PROGRAM**



Monday, February 5

Reception

7:00-9:00 pm

Tuesday, February 6

Opening Remarks

Brad Epp
A/Director, Forestry
and Peatlands
Branch, Manitoba
Government

9:00 am

Manitoba Session

Manitoba's provincial dutch elm disease and urban forest management program

Kyla Maslaniec,
Urban Forester,
Manitoba

9:10 am

Jack pine budworm management in Manitoba

Brad Epp/Fiona Ross
Pest Management
Biologist, Forestry &
Peatlands Branch,
Manitoba

9:40 am

Coffee Break

10:10 am

Climate Change

Interactions between climate change and insect herbivory on future wood supply

Cory Hughes/Deepa
Pureswaran
NRCan - AFC

10:40 am

Climate change-mediated variation in diet for an outbreaking forest defoliator (forest tent caterpillar) – interactions with insect disease and implications for pest management

Leah Flaherty
McEwan Univ.

11:05 am

Assessing forest vulnerability to climate-induced moisture stress and disturbance across the western boreal region

Asif Haider Khan/
Mark Vanderwel
U.Regina

11:30 am

Lunch

11:55 am

Mountain Pine Beetle

Mountain pine beetle in new and changing climates: Will prairie boreal summers be too warm?

Kathy Bleiker
NRCan - PFC

1:00 pm

Improving monitoring tools to detect mountain pine beetle at low densities in novel habitats: investigating the role of fungal volatiles in beetle attraction-field testing

Leah Crandall/
Nadir Erbilgin
U. Alberta

1:25 pm

Monitoring mountain pine beetle activity at low population densities using tree baiting and remote sensing

Devin Goodsmann/
Nadir Erbilgin
NRCan - NFC

1:50 pm

SERG-I Graduate Student Award Presentations

Terpenoid response to spruce budworm defoliation and exploration of conspecific DNA's potential for a new generation of pest management

Sirine Boubeker
UQAC

2:15 pm

Unraveling the multifaceted effects of climatic factors on mountain pine beetle and its interaction with fungal symbionts

Rashaduz Zaman
U. Alberta

2:40 pm

Coffee Break

3:05 pm

Sponsors		
Synergy Semiochemical Corp	Bob Setter	3:35 pm
Valent Biosciences	Maria Gonzalez	3:45 pm
Spruce Beetle		
Outbreak potential of spruce beetle: dormancy and winter survival	Kathy Bleiker NRCan - PFC	3:55 pm
Field-tests of region-specific pheromone blends of spruce beetle, <i>Dendroctonus rufipennis</i> , for lure improvement	Cory Hughes/Deepa Pureswaran NRCan - AFC	4:20 pm
End of Day		
Wednesday, February 7		
Eastern Spruce Budworm		
Comparisons of Btk aerial spraying scenarios against the eastern spruce budworm, based on protection timing and intensity during a complete outbreak episode	Richard Berthiaume SOPFIM	9:00 am
Northward range expansion and mortality of boreal black spruce to spruce budworm defoliation under climate change	Cory Hughes/Deepa Pureswaran NRCan - AFC	9:25 am
Impact of various scenarios of Btk applications on non-target Lepidoptera	Christian Hébert NRCan - LFC	9:50 am
Coffee Break		10:15 am
Impacts of spring temperature variability on spruce budworm performance and survival	Eric Moise/ Joe Bowden NRCan - AFC	10:45 am
Environmental drivers of parasitoid dynamics for a major forest insect pest during a management program	Eric Moise/ Joe Bowden NRCan - AFC	11:10 am
Lunch		11:45 am
Forest Invasive Alien Species		
Cold tolerance and lower temperature limits of Spotted Lanternfly (<i>Lycorma delicatula</i> , Hemiptera: Fulgoridae)	Anna Turbelin/ Amanda Roe NRCan - GLFC	1:00 pm
Developing tools to assess risk and respond to hemlock woolly adelgid in eastern Canada	Chris MacQuarrie NRCan - GLFC	1:25 pm
Development of passive visual detection strategies for evaluating natural enemy populations of the Hemlock Woolly Adelgid in Nova Scotia	Lucas Roscoe NRCan - AFC	1:50 pm
Assessing the biology and geographic distribution of a new exotic species, the Elm zigzag sawfly, in Canada	Véronique Martel NRCan - LFC	2:15 pm
Identification of spongy moth natural enemies using a qPCR-based molecular tool: a proof-of-concept study	Sandrine Picq NRCan - LFC	2:40 pm
Coffee Break		3:05 pm
Predicting the environmental risk of chemical control of Hemlock Wolley Adelgid	Chris Edge/Chris MacQuarrie NRCan – AFC/GLFC	3:35 pm
Development of effective trapping procedures for Japanese beetle to aid survey and eradication efforts in Canada	Quentin Guignard/ Jeremy Allison NRCan - GLFC	4:00 pm
Release of exotic parasitoids for biological control of the emerald ash borer in Canada	Chris MacQuarrie NRCan - GLFC	4:25 pm
Banquet Dinner		6:30-9:30 pm

Thursday, February 8

Disease		
Assessing the presence of Dothistroma needle disease in Saskatchewan	Tod Ramsfield NRCan - NFC	9:00 am
Flight behavior, degree day models, and identification of potential nitidulid beetle vectors of oak wilt along the northern range of oaks in Canada	Sharon Reed OMNRF	9:25 am
Other Research		
Long-term effects of early herbaceous and woody vegetation control on eastern white pine.	Mike Hoepting NRCan - CWFC	9:50 am
Coffee Break		10:15 am
Ground validation of aerial detection technology to determine urban forest tree health for use in municipal urban forestry programs	Jenelle Ehn/ Richard Westwood U. Winnipeg	10:45am
Long-term effects of early competition control treatments in boreal mixedwood	Mike Hoepting NRCan - CWFC	11:10 am
End Workshop		