

**SERG INTERNATIONAL  
2018 WORKSHOP  
PROGRAM**

Tuesday, February 6, 2018		Speaker
Welcome		
Session on Alberta Topics		
<b>Emerald Ash Borer</b>		
Modelling the development of emerald ash borer in its expanding range		Chris MacQuarrie
<b>Coffee Break</b>		
Investigations into the Chemical Ecology of the Emerald Ash Borer (EAB) <i>Agrilus planipennis</i> : development of tools for sampling and management of EAB.		Krista Ryall
Development of monitoring tools for invasive / potentially invasive European <i>Agrilus</i> species		Marc Rhainds
Validation of emerald ash borer branch sampling and estimation of 2 year life cycle in northern populations		Chris MacQuarrie
Release of exotic parasitoids for biological control of the emerald ash borer in Canada.		Krista Ryall
FraxiProtec™ a new biological way to control EAB population dynamics		Réjean Bergevin
<b>Lunch</b>		
<b>SERG-I Graduate Student Award Presentations</b>		
A hint left by mountain pine beetle on anatomical defense of lodgepole pine trees: larger resin ducts enhanced tree resistance		Shiyang Zhao
Investigating the effects of gut-associated microbiota on the growth of spruce budworm		Melbert Schwarz
GIS analyses of factors influencing spruce budworm outbreak initiation in northern New Brunswick		Mingke Li
Analysis of multimodal attractiveness cues in the invasive beech leaf mining weevil, <i>Orchestes fagi</i> L., in Nova Scotia, Canada		Joel Goodwin
<b>Predation rates in endemic and outbreaking forest tent caterpillar populations</b>		Emma Despland
Efficacy of TreeAzin® systemic insecticide for protecting American beech from the beech leaf-mining weevil		Jon Sweeney
<b>Coffee Break</b>		
The Synthesis of a New Potential Beech Leaf-Mining Weevil ( <i>Orchestes fagi</i> (L.)) Kairomone, 9-Geranylterpinolene.		Peter Mayo
Using the functional traits of soil fungi to improve post-disturbance pine regeneration.		Nadir Erbilgin
The impact of silviculture practices on the development of a recalcitrant understory layer: Are we creating a problem for future rotations?		Isabelle Aubin
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<b>End Session</b>		

Wednesday, February 7, 2018		Speaker
<b>Early Intervention Strategies To Suppress A Spruce Budworm Outbreak</b>		
Introduction		JP Astorino
Dynamics and management of rising spruce budworm outbreaks Armagh/Epaule		Jacques Régnière
Landscape level impacts of EIS on SBW, other herbivores, & associated natural enemies		Veronique Martel /Rob Johns
Barcoding: Innovative DNA-based diagnostic for SBW, its natural enemies and other conifer-feeding species		Alex Smith /Eldon Eveleigh
Aerial Application of pesticides including pheromones		Andrew Morrison
<b>Coffee</b>		
Epicentre formation and dispersal behavior of adult spruce budworm in eastern Canada: Implications for the rise and spread of outbreaks and Early Intervention Strategy		Deepa Pureswaran /Rob Johns
Identification of Male Hairpencil Pheromone Components in <i>Choristoneura fumiferana</i> Clemens (Lepidoptera: Tortricidae): Chemistry and function		Lucas Roscoe
Evaluation of endophyte application strategies		Greg Adams/ Dan Quiring
DSS Development, EIS Block Planning, & Evaluation of SBW Strategies on Crown & Private Land in NB		David MacLean
WrapUp		JP Astorino
<b>Lunch</b>		
Validation of a spruce budworm phenology model across environmental and genetic gradients: applications for budworm control and climate change predictions		Amanda Roe
Understanding overwintering survival as a component of pest management strategies for spruce budworm		Eric Moise
Using landscape level forest management and biotic interaction to reduce the intensity of spruce budworm outbreaks		Dan Kneeshaw
Tracking spruce budworm immigrations to the western coast of Newfoundland: refinement of monitoring tools to improve early detection		Marc Rhainds

Measuring the active space of a spruce budworm pheromone trap: Bridging the gap between chemical ecology and estimates of absolute population density	Chris MacQuarrie
Optimization of trapping parameters for spruce budworm sampling	Chris MacQuarrie
<b>Coffee</b>	
Testing new approaches for detecting and locating SBW hotspots for implementing an Early Intervention Strategy	Christian Hébert
Testing the efficacy of Trichogramma minutum in the context of an 'Early-intervention Strategy' using different release methods	Véronique Martel
Optimization of SBW pheromone application for mating disruption	Christopher Riley
Comparisons of Btk aerial spraying strategies against the eastern spruce budworm based on protection timing and intensity during a complete outbreak episode	Alain Dupont
<b>End Session</b>	

### Banquet

<b>Thursday, February 8, 2018</b>	
<b>Mountain Pine Beetle</b>	
Improving monitoring tools to detect mountain pine beetle at low densities in novel habitats	Nadir Erbilgin
Mountain Pine Beetle Cold Tolerance and Seasonality: Implications for Population Dynamics and Range Expansion in Canada	Kathy Bleiker
Simulating MPB invasive spread control in Saskatchewan using SpaDES	Alex Chubaty
<b>Coffee</b>	
Effect of trap height trap color and trap lure on efficacy of detecting species of bark- and wood boring beetles (Cerambycidae Buprestidae Scolytinae)	Jon Sweeney
Formulations of emamectin benzoate (TREE-äge® and TREE-äge® G4) and propiconazole (Propizol®) for protecting Engelmann spruce from mortality attributed to spruce beetle and associated fungi	Darren Blackford
Temperature Regulation of Spruce Beetle's Life Cycle and its Potential Role in Outbreaks	Kathy Bleiker
<b>End Workshop</b>	