

**SERG INTERNATIONAL
2019 WORKSHOP
PROGRAM**

Tuesday, February 5, 2019		Speaker
Welcome		
Session on Quebec (SOPFIM) Topics		
Coffee Break		
Mountain Pine Beetle		
Mountain Pine Beetle Cold Tolerance and Seasonality*: Implications for Population Dynamics and Range Expansion in Canada		Kathy Bleiker
Density-dependent responses of mountain pine beetle to its pheromones and host volatiles in naïve lodgepole pine stands		Nadir Erbilgin
Fighting beetles with fire: integrating fire disturbance with models of mountain pine beetle spread to evaluate efficacy of controlled burns as a management tool		Alex M. Chubaty
Spruce Beetle		
Temperature Regulation of Spruce Beetle's Life Cycle and its Potential Role in Outbreaks		Kathy Bleiker
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
Lunch		
SERG-I Graduate Student Award Presentations		
Effects of manual defoliation treatments and site type on balsam fir, black spruce and white spruce foliage production		Yuanyuan Wu
Impact of flight on host colonization and pheromone production in the mountain pine beetle		Kelsey Jones
Can birds act as indicators of the progression of spruce budworm outbreaks?		Jeanne Moisan Perrier
Exploring potential methodologies for priority removal of elm trees infected with Dutch elm disease		Matthew Russell
Ringbarking to Control Armillaria Root Disease in the Forests of Interior British Columbia		Daniel Sklar
Reaching new heights: are the chemical signatures of lodgepole pine trees in higher elevation and latitudes different than those of conspecifics in lower systems?		Melanie Mullin
Coffee Break		
Beech Weevil		
Investigations into the pheromone ecology of the invasive <i>Orchestes fagi</i> the beech weevil for early detection and monitoring of its spread in Canada		Peter Silk
Effect of dosage and treatment frequency on efficacy of TreeAzin® Systemic Insecticide for protecting foliage from the beech leaf-mining weevil and preventing mortality of American beech in high value urban environments.		Jon Sweeney
Technology Transfer		
Updated history of SERG International bibliography and related activities		Nelson Carter
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Wednesday, February 6, 2019		
Early Intervention Strategy to Suppress a Spruce Budworm Outbreak – Phase II		
Introduction		
Efficacy, treatment optimization, and non-target impacts of EIS in Atlantic Canada		Rob Johns
Modeling spruce budworm population dynamics		B. Cooke & J. Régnière
DSS, operational blocking/ prioritization, and impact modeling for EIS		D. MacLean
Best Management Practices for Early Intervention treatments & operations		G. Cormier & A. Willett
Coffee		
Using the Budworm Tracker citizen science program to study budworm dispersal and enhance public engagement		Rob Johns
Monitoring and identification of SBW mortality agents using molecular assays		M. Cusson & A. Smith
SBW pheromone studies		P. Silk & L. Roscoe
SBW pest management as a conservation tool for critical habitats and ecological integrity of forest watersheds		E. Emilson & M. Stastny
Developing an adaptive and intelligent SBW defoliation detector		U. Vepakomma
Forecasting for EIS in the context of climate change		J.N Candau, M. Stastny & E. Moise
Lunch		
Validation of a spruce budworm phenology model across environmental and genetic gradients: applications for budworm control and climate change predictions		Jean-Noel Candau
Testing new approaches for detecting and locating SBW hotspots for implementing an Early Intervention Strategy		Christian Hébert
Optimization of trapping parameters for spruce budworm sampling		Jeff Fidgen
Long term monitoring of northward range expansion population dynamics and adaptation of spruce budworm populations		Deepa Pureswaran
An analysis of historical data to identify the occurrence of meteorological conditions that are considered favourable for the long range flight of spruce budworm moths to Newfoundland		Christopher M. Riley
Tracking spruce budworm immigrations to the western coast of Newfoundland: refinement of monitoring tools to improve early detection - Year 1 of 3		Marc Rhains
Coffee		
The use of large helicopter-towed nets to sample mass-dispersing spruce budworm moths		Yan Boulanger

Using landscape level forest management and biotic interaction to reduce the intensity of spruce budworm outbreaks	Dan Kneeshaw
Understanding overwintering survival as a component of pest management strategies for spruce budworm	Eric Moise
Pheromones for Insect Pest Management: An improved Synthesis of the Spruce Budworm Pheromone	David MaGee
Comparisons of Btk aerial spraying strategies against the eastern spruce budworm based on protection timing and intensity during a complete outbreak episode.	Alain Dupont
Banquet	
Thursday, February 7, 2019	
Emerald Ash Borer	
Investigations into the Chemical Ecology of the Emerald Ash Borer (EAB) <i>Agrilus planipennis</i> : development of tools for early detection sampling for EAB.	Krista Ryall
Validation of emerald ash borer branch sampling and estimation of 2 year life cycle in northern populations	Chris JK MacQuarrie
Modelling the development of emerald ash borer in its expanding range	Chris JK MacQuarrie
Rearing release and evaluation of exotic parasitoids for biological control of the emerald ash borer in Canada	Chris JK MacQuarrie
FraxiProtec trials, registration of a new tool for the control of Adult Emerald Ash Borer.	Mark Ardis
Coffee	
Hemlock Woolly Adelgid	
The role of tree stress in the dynamics and impacts of the hemlock wooly adelgid in Nova Scotia: a forecasting framework and silvicultural mitigation.	Michael Stastny
Development of a trapping technique for winged HWA adults as an early detection tool	Peter Silk
Ball sampling technique for detecting the wool of hemlock woolly adelgid	Jeff Fidgen
Efficacy of TreeAzin trunk injection for protection of eastern hemlock from hemlock woolly adelgid.	Jon Sweeney
End Workshop	