

SERG International Workshop

Feb 9th - Feb 11th, 2010
Delta Hotel, St. John's, Newfoundland

Table of Contents

Welcome Keith Deering, ADM, Forest Service Branch, DNR		
Tuesday Feb. 9th State of the Union on the Current Forest Industry in Newfoundland		
Provincial Forest Industry Overview and Industry Diversification Gary Forward		1
DNR-NL Forest Insect and Disease Control Eric Young		2
Forest Fire Management and Coordination Eric Earle		3
History of SERG International Ed Kettela and Chris Adam		4
Forest Pest Management Products Development, Testing and Regulation		
Developing user-friendly formulations of pheromones as Risk Response tools within Canada's National Forest Pest Strategy Chris Riley, N. Carter and P. Silk	2009/08	7
Effectiveness and Elution Rates of a Biodegradable Flake Formulation for Mating Disruption for Douglas-fir Tussock Moth, <i>Orgyia pseudotsugata</i> (McDunnough) Iral Ragenovich, Rick Kelsey, Richard C. Reardon, Glenn Kohler and Mike Johnson	2008/12 -2009	16
Effectiveness of Low-Dose Application Rates of TM – BioControl-1, the Natural Virus of the Douglas-fir Tussock Moth, <i>Orgyia pseudotsugata</i> (McDunnough) Lorraine MacLauchlan and Iral Ragenovich	2009/10	24
Efficacy of pheromone-based methods of suppressing populations of brown spruce longhorned beetle (BSLB), <i>Tetropium fuscum</i> (F.) J. Sweeney, P. Silk, E. Kettela, and E. Hurley	2008/13 -2009	32
Searching for a <i>Bacillus thuringiensis</i> isolate that is toxic to sawflies: an update Amanda Tonon and Kees van Frankenhuyzen	2007/03	39

Factors affecting host colonization success and subsequent performance of the brown spruce longhorn beetle, <i>Tetropium fuscum</i> (F.). Leah Flaherty, Jon Sweeney, Deepa Pureswaran and Dan Quiring	2009/11	40
Microbiota associated with field-collected populations of the pine false webworm, <i>Acantholyda erythrocephala</i> (Hymenoptera: Symphyta). Jianhua Zhang, Robert I. Graham, Viviane Zahner, Douglas McIntosh and Christopher J. Lucarotti	2008/10 -2009	46
Development of Baculovirus Technologies to Control Forest Pest Renée Lapointe, Chris Lucarotti, David Thumbi and Jianhua Zhang	2006/02 -2009	51
Evaluation of the efficacy of two nucleopolyhedroviruses to suppress whitemarked tussock moth populations Garrett Brodersen, Renée LaPointe, Graham Thurston, Chris Lucarotti and Dan Quiring	2007/04 -2009	55
Gypsy Moth Nucleopolyhedrovirus (Gypchek) Aerial Efficacy Against the Gypsy Moth and Development of LdMNPV as a Biological Control Agent of Gypsy Moth. Graham S. Thurston and R. Lapointe	2008/09 -2009 2009/05	66
Isolation and molecular characterisation of baculoviruses from field populations of the western spruce budworm <i>Choristoneura occidentalis</i> (Lepidoptera: Tortricidae). Robert I. Graham, Jianhua Zhang, Benoit Morin, Renée Lapointe, Vincent G. Nealis and Christopher J. Lucarotti	2009/06	74
Baculoviruses in the western spruce budworm: Field evidence of potential use for biological control Vince Nealis	2009/06	81
Abietiv™ Christopher J. Lucarotti		82
Industry Session		
Sylvar Technologies Inc - Stefan Richard		89
Wednesday Feb. 10th		
Pest Monitoring and Decision Support		
Understanding pheromone-baited trap catches for forest tent caterpillar, <i>Malacosoma disstria</i> (Lepidoptera: Lasiocampidae) at varying population densities. Maya Evenden	2008/02 -2009	90
The Sex Pheromone Chemistry of the Elm Spanworm <i>Ennomos subsignaria</i> (Hübner) (Lepidoptera: Geometridae) Krista Ryall, Peter J Silk, Junping Wu, Peter Mayo, Matthew A Lemay, and David MaGee	2009/02	102
Improvement of a semiochemically-based trapping and management system for the tree-killing bark beetle, <i>Dendroctonus</i> G.S. Thurston, K.L. Ryall, and P. Silk	2006/08 -2009	111
Bionomics of banded elm bark beetles and implications for Dutch elm disease management in Saskatchewan and Manitoba Jonathan Veilleux and NJ Holliday	2009/03	118

The use of Beauveria bassiana as a mycoinsecticide against native and exotic beetles Robert Lavallée, Claude Guertin and Graham Thurston	2005/03 -2009	123
Suitability of jack pine for mountain pine beetle development and survival David Langor	2006/09 -2009	129
Effect of landscape structure on the population dynamics of the mountain pine beetle (Dendroctonus ponderosae) Jean-Noël Candau	2009/09	138
Impact of eastern black-headed budworm defoliation on balsam fir stands in Cape Breton, NS Len Lanteigne, Wayne MacKinnon, James Farrell and Doug Pitt	2008/03	143
Variation of Mating Success in a Gradient of Spruce Budworm Population Density Johanne Delisle, Richard Trudel, Deepa Pureswaran, Pierre Therrien and Jacques Régnière	2005/05 -2009	155
Prevalence of Nosema fumiferanae in outbreak populations of the jack pine budworm Kees van Frankenhuyzen, Carl Nystrom, Yuehong Liu, and Kirsty Wilson	2006/05	173
Jack pine budworm impact assessment for the development of a jack pine budworm decision support system Steven Oldford and Joe Meating	2008/05 -2009	188
Monitoring and Control of the Pale Winged Grey Using Sex Pheromones Peter Silk	2006/04 -2009	194
Monitoring Pale-wing Gray Moth populations using oviposition traps Dan Quiring, Drew Carleton and Graham Thurston	2009/07	198
Managing hemlock looper in a changing environment: an overview Lucie Royer		204
Determining the effect of commercial thinning on susceptibility of balsam fir to the balsam woolly adelgid Dan Quiring, Drew Carleton and Don Ostaff	2004/06 -2009	205
Survey and discovery of entomopathogens associated with emerald ash borer in North America. George Kyei-Poku, Shajahan Johny and Kees vanFrankenhuyzen	2008/04 -2009	211
Testing long-range and contact sex pheromone components of the emerald ash borer Agrilus planipennis Fairmaire (Coleoptera: Buprestidae) Peter J. Silk, Krista Ryall, D. Barry Lyons, Jon Sweeney, Junping Wu	2008/06 -2009	221

Thursday Feb. 11th		
Vegetation Management		
An overview of prime-site intensive silviculture research being conducted by the Canadian Wood Fibre Centre Doug Pitt and Mike Hoepting	2000/02 2002/06	227
Aerial spraying white pine shelterwood Andree Morneault	2009/12	231
Advances and Implementation of New Technology		
Establishing a Wind Tunnel Facility and Aerial Application Spray Research Program Ian McLeod	2006/03 -2009	246
Aerial Management System G.A. Cormier	2007/07 -2009	262
Protection Planning System (PROPS) Enhancements -2009 David A. MacLean, Javed Iqbal, Wei-Yew Chang, and Van A. Lantz	2006/06 -2009	266
Modification of the Evaporation Time Step in AGDISP Milton E. Teske and Harold Thistle	2008/15 -2009	274
Generic Test Protocol for Pesticide Spray Deposition Trials in Agriculture and Forestry Harold Thistle, Andrew Hewitt and Brian Richardson		279
National Forest Pest Strategy Vince Nealis		285
Provincial Pest Status		
British Columbia		286
Alberta		290
Saskatchewan		300
Manitoba		309
Ontario		313
New Brunswick		326
SERG International Terms of Reference		332
SERG International Long Term Plan		345
SERG International 2009 Work Plan		348