

SERG International Workshop

Feb 10th - Feb 12th, 2009
Inn at the Forks, Winnipeg, Manitoba

Table of Contents

Welcome Fred Meier, Assistant Deputy Minister Manitoba Conservation		
Tuesday Feb. 10th Manitoba Pest Management and Forestry Issues		
Dutch elm disease management in Manitoba and the Forest Health & Protection Act Jon Leferink		1
Biology and management of the native elm beetle Sunday Oghiakhe		2
Jack pine budworm, preventative measures for invasive forest pests & Gypsy moth control Irene Pines		3
Spruce budworm, eastern larch beetle, root disease & dwarf mistletoe Keith Knowles		4
Pest Monitoring and Decision Support		
Pheromone Chemistry Peter Silk		5
Understanding pheromone-baited trap catches for forest tent caterpillar, <i>Malacosoma disstria</i> (Lepidoptera: Lasiocampidae) at varying population densities Maya Evenden and J. Bolstad	2008/02	6
Pheromone flakes for area-wide control of <i>Dendroctonus</i> spp. bark beetles Nancy Gillette		13
Improvement of a semiochemically-based trapping and management system for the tree-killing bark beetle, <i>Dendroctonus rufipennis</i> K.L. Ryall, Graham Thurston and Peter Silk	2006/08 -2008	14
Influence of Forest Stand Structure on the Distribution of Mountain Pine Beetles Mary Reid and Josée Méthot	2008/07	20
Suitability of jack pine for mountain pine beetle development and survival David Langor	2006/09 -2008	25

Individual-Based Model of Mountain Pine Beetle Ecophysiology Jacques Régnière, Barbara Bentz and James Powell	2008/11	32
Impact of insect defoliation on the growth of balsam fir in Cape Breton, Nova Scotia Len Lanteigne, Wayne MacKinnon, James Farrell and Doug Pitt	2008/03	56
Dynamics of endemic spruce budworm populations Jacques Régnière	2005/05 -2008	68
Jack pine budworm impact assessment for the development of a jack pine budworm decision support system Joe Meating and Steven Oldford	2008/05	76
Wednesday Feb. 11th		
Pest Monitoring and Decision Support		
Viral pathogens of the western spruce budworm, <i>Choristoneura occidentalis</i> Robert I. Graham, Benoit Morin, Renee Lapointe, Vincent G. Nealis and Christopher J. Lucarotti	2008/14	89
Sex Pheromones of the Pale Winged Grey <i>Iridopsis ephyraria</i> and the Elm Spanworm <i>Ennomos subsignaria</i> (Lepidoptera: Geometridae) Peter Silk, Krista Ryall and David Magee, Junping Wu and Graham Thurston	2006/04 -2008	92
Hazard ratings for Hemlock looper Lucie Royer	2004/07 -2008	96
Developing Hazard Ratings for the Balsam Woolly Adelgid in Atlantic Canada Dan Quiring, Don Ostaff and Andrew Morrison	2004/06 -2008	100
Survey and discovery of entomopathogens associated with emerald ash borer and native <i>Agrilus</i> species in North America. George Kyei-Poku	2008/04	105
Testing long-range and contact sex pheromone components of the emerald ash borer <i>Agrilus planipennis</i> Fairmaire (Coleoptera: Buprestidae) Peter J. Silk, Krista Ryall, D. Barry Lyons, Jon Sweeney, Junping Wu	2008/06	113
Searching for a <i>Bacillus thuringiensis</i> isolate that is toxic to sawflies: an update Amanda Tonon and Kees van Frankenhuyzen	2007/03	119
Vegetation Management		
An overview of prime-site intensive silviculture research being conducted by the Canadian Wood Fibre Centre in the Northeast Mike Hoepting and Doug Pitt		120

Forest Pest Management Products Development, Testing and Regulation		
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 and Richard C. Reardon	2008/12	127
Efficacy of semiochemical-based methods of suppressing populations of the brown spruce longhorned beetle (BSLB), <i>Tetropium fuscum</i> (F.) J. Sweeney, P. Silk, E. Kettela, and E. Hurley	2008/13	135
Experimental pheromone applications using Disrupt Micro-flakes SBW® for the control of the spruce budworm populations: Quebec mating disruption trials 2008 Richard Trudel, Alain Dupont, and Alain Bélanger	1995/07 -2008	140
Development of Baculovirus Technologies to Control Forest Pest Renée Lapointe, Chris Lucarotti, David Thumbi and Jianhua Zhang	2006/02 -2008	146
Efficacy trial for LdMNPV (Gypchek) on gypsy moth egg masses, Summer 2008 Graham S. Thurston and R. Lapointe	2008/09	148
Development of the <i>Orgyia leucostigma</i> nucleopolyhedrovirus (OrleSNPV) as a biological control agent for the Whitemarked Tussock Moth (<i>O. leucostigma</i>) Renée Lapointe and Dan Quiring	2007/04 -2008	153
Industry Session		
Sylvar Technologies Inc Stefan Richard		
Thursday Feb. 12th		
Advances and Implementation of New Technology		
Aerial Spray Characterization Research Ian McLeod, Gordon Holloway and Andrew Gerber	2006/03 -2008	154
A field trial comparing deposit density from a conventional and optimized track spacing S.E Holmes and G.A. Cormier	2007/07 -2008	161
Protection Planning System (PROPS) Enhancements David A. MacLean, Chris R. Hennigar, Wei-Yew Chang, Javed Iqbal, and Van A. Lantz	2006/06 -2008	184
Approach to Grouping Flight Lines in the SprayAdvisor Aerial Spray Simulation Model Wayne Schou, Harold Thistle, Jacqueline Strager, Brian Richardson, Dean Thompson and Daniel Twardus	2008/15	189

An open discussion on how to reduce the pressure on the Research Authorization process from industry's perspective Terry Caunter		195
Possible operational coordinating structure for the National Forest Pest Strategy Chris Riley and Nelson Carter		196
PMRA inputs to AGDISP for assessing potential aquatic impacts of forestry aerial treatments. Ted Kuchnicki		197
Provincial Pest Status		
British Columbia		199
Alberta		202
Saskatchewan		216
Manitoba		222
New Brunswick		227
Nova Scotia		232
SERG International Terms of Reference		234
SERG International Long Term Plan		247
SERG International 2008 Work Plan		250