

**Société d'entomologie du Québec – Société d'entomologie du Canada  
Réunion conjointe - 18-22 novembre 2006**

**Société d'Entomologie du Québec – Entomological Society of Canada  
Joint Annual Meeting - 18-22 November 2006**

**Horaire - Schedule**

**Inscription, Réunions, Réceptions - Registration, Meetings, Receptions**

**Samedi le 18 novembre - Saturday 18 November**

- 07h30-09h00 Inscription - Registration  
09h00-17h00 Réunion du conseil d'administration de la SEC - ESC Governing Board meeting  
17h00-19h30 Inscription - Registration

**Dimanche le 19 novembre - Sunday 19 November**

- 7h45-09h00 Inscription - Registration  
08h30 Mot de bienvenue, prix de la SEC - Welcome and ESC awards  
18h30-19h30 Réception des étudiants - Student Mixer  
19h30-21h30 Réception générale - Opening Reception

**Lundi le 20 novembre - Monday 20 November**

- 17h30-18h30 Assemblée générale annuelle de la SEQ - SEQ Annual General Meeting  
20h00-24h00 Réception du président - President's Reception

**Mardi le 21 novembre - Tuesday 21 November**

- 17h00-18h00 Assemblée générale annuelle de la SEC - ESC Annual General Meeting  
19h00 Cocktails et Banquet – Cocktails and Banquet

**Mercredi le 22 novembre - Wednesday 22 November**

- 13h30 Réunion du conseil d'administration de la SEC – ESC Governing Board meeting  
13h30 Comité scientifique de la Commission biologique du Canada - Biological Survey of Canada Scientific Committee meeting

## Communications scientifiques - Scientific Presentations

Samedi le 18 novembre - Saturday 18 November

### Symposium 1 - Ecological Impacts of Non-Native Insects and Fungi on Terrestrial Ecosystems Sponsored by the Canadian Forest Service, Canadian Food Inspection Agency and The Biological Survey of Canada (Terrestrial Arthropods)

Organizers and Moderators – David Langor and Jon Sweeney

- 08h00 **Jon Sweeney**  
Welcome/Introduction to the Symposium
- 08h05 **Daryl Seip**  
Implementing an invasive alien species strategy for Canada
- 08h25 **David Langor**, L. DeHaas  
Diversity of non-native arthropods in Canada
- 08h45 **Sandy Liebhold**  
Ecological impact of invasive insects on forest ecosystems
- 09h10 **Judy Loo**  
Ecological impact of invasive fungi on forest ecosystems
- 09h35 Pause - Break
- 10h00 **Sandy Smith**, N. Rudzik  
Impact of an introduced scolytid, *Tomicus piniperda*, on native scolytids and natural enemy complexes
- 10h20 **Owen Olfert**, B. Elliot  
Ecological impact of invasive insects on agricultural ecosystems - Wheat Midge Case Study.
- 10h40 **Lloyd Dosdall**, G.A.P. Gibson, O.O. Olfert, P.G. Mason  
Ecological and economic impacts of the invasion of western Canada by the cabbage seedpod weevil (Coleoptera: Curculionidae).
- 11h00 **Dylan Parry**  
Does the Pandora's Box paradigm apply to parasitoids in classic biological control?
- 11h25 **Dave McCorquodale**  
The legacy of lady beetles (Coleoptera: Coccinellidae): the unintended effects of (un)intentional introductions.
- 11h50 Diner - Lunch
- 13h20 **John Spence**  
Invasive species under your nose and in your backyard: the secret wars of ground beetles
- 13h45 **Jan Addison**  
Impacts of invasive earthworms on Canadian forest ecosystems
- 14h10 **Jacques Régnière**, J. Logan, J. Pitt  
Modeling the spread and ecological impact of invasive species.

- 14h35 **Dan Simberloff**  
We can eliminate invasions or live with them! – High tech and low tech success stories.
- 15h00 Pause - Break
- 15h30 Panel Discussion

## **Dimanche le 19 novembre - Sunday 19 November**

09h00 Médaille d'or - Gold Medal Address

### **Symposium 2 - Graduate Student Symposium**

*Organizers and Moderators – Chris Borkent and Greg Smith*

- 10h30 **Michael Kasumovic**, M. C. B. Andrade  
Risky mate search and mate preference in the golden orb-web spider
- 11h00 **Yan Boulanger**, L. Sirois, C. Hébert  
Insects and fire-killed trees: an "ignited" couple!
- 11h30 **Owen Lonsdale**, S. A. Marshall  
Deciphering the Past: Reconstructing the Phylogeny of the Clusiidae (Diptera) Using Multiple (and Sometimes Conflicting) Data Sets
- 12h00 Diner – Lunch
- 13h30 **Anita Stjernberg**, R.E. Roughley  
The Impact of Rotational Seasonal Grazing on the Invertebrates of Mixed-Grass Prairie, Using Ground Beetles (Carabidae) and Spiders (Araneae) as Bioindicators
- 14h00 **Robert Laird**  
The diversity of indirect effects between soil fungi and insects
- 14h30 **Véronique Martel**, G. Boivin  
Diversity in male parasitoids' reproductive strategies
- 15h00 Pause - Break
- 15h30 – 17h00 Opening Poster Session (authors in attendance)

## **Lundi le 20 novembre - Monday 20 November**

### **Prix du président - President's Prize – Session 1**

- 08h30 **Hume Douglas**  
The diversification of the cardiophorine clade of click beetles (Coleoptera: Elateridae)
- 08h45 **Tonya Mousseau**, D. S. Sikes  
Phylogeography of *Nicrophorus nepalensis* Hope 1831 (Coleoptera: Silphidae).
- 09h00 **Chandra Venables**, D. S. Sikes  
Mixture model Bayesian MCMC analyses of nuclear and mitochondrial genes indicate a rapid radiation of the genus *Nicrophorus* (Coleoptera: Silphidae).

- 09h15 **Sean Bromilow**, F. Sperling  
Conservation and genetics of the Peace River grassland butterflies
- 09h30 **Marjolaine Giroux**, T. A. Wheeler  
Systematics and phylogeny of the subgenus *Sarcophaga* (*Neobellieria*) Blanchard (Diptera: Sarcophagidae)
- 09h45 **Aynsley Thielman**, F. F. Hunter  
*Anopheles* (Diptera: Culicidae) systematics in Ontario: cytogenetic methods and results
- 10h00 Pause - Break
- 10h30 **Amy Moores**, T. A. Wheeler, J. Savage  
The effects of habitat size and surrounding land-use on selected families of bog-dwelling Schizophora (Diptera: Cyclorrhapha) in the southeastern Quebec and northern Vermont region
- 10h45 **Jeff Ogden**, D. J. Giberson  
Aquatic insects in boreal streams of the Cape Breton Highlands, Nova Scotia: relationships with physical habitat and forest history
- 11h00 **Amélie Grégoire Taillefer**, T. A. Wheeler  
Influence of peat mining and restoration on diversity of Brachycera (Diptera) in ombrotrophic peatlands in southeastern Quebec, Canada
- 11h15 **Matthew Bowser**, J. Morton, P. Doak, D. Wagner  
Monitoring and modeling terrestrial arthropod biodiversity on the Kenai National Wildlife Refuge, Alaska
- 11h30 **Christopher O'Connor**, T. T. Work  
Carabid response to natural disturbance-based silviculture across three boreal forest ecosystems in western Québec
- 11h45 **Evan Esch**, J. Jacobs, J. R. Spence  
Food limitation of ground beetle (Coleoptera: Carabidae) communities in relation to activity, density, and insect mass
- 12h00 Diner - Lunch
- 13h30 **Colin Bergeron**, J.R. Spence, J. Volney  
Landscape level association between trees and ground dwelling beetles
- 13h45 **Sophie Rochefort**, J. Brodeur  
Species diversity and seasonal abundance of arthropods in turfgrass ecosystems
- 14h00 **Stéphane Bourassa**, J. R. Spence, H. A. Cárcamo, F. J. Larney  
A comparison of ground beetle assemblages (Coleoptera: Carabidae) in fields grown under sustainable and conventional farming practices.
- 14h15 **Jeremy Hummel**, L. M. Dosedall  
Ground beetle (Coleoptera: Carabidae) abundance and diversity in canola:wheat intercrops
- 14h30 **Sean LeMoine**  
Vegetation structure and invertebrate diversity in agriculture: a look at ground beetles (Family: Carabidae) in hayfields.

- 14h45 **Jennifer Rosati**, S. VanLaerhoven  
The effect of habitat and seasonal variability on blow fly species diversity
- 15h00 **Chris Borkent**, E. Schlinger  
Pollination in the genus *Eulonchus* (Diptera: Acroceridae): Flower visiting behaviour, pollen loads, and mate detection.
- 15h15 Pause - Break
- 15h30 **Andrea Patenaude**, R. E. Roughley  
Assessing bee-o-diversity in mixed-grass prairie habitats
- 15h45 **Jay Biernaskie**, R. J. Gegear  
Bumble bee patch departure: learning the mean patch size
- 16h00 **Diana Sharpe**, J. Perry, L. Rowe  
Female Resistance Behaviour in the 2-spot Ladybird, *Adalia bipunctata*: Ecological Determinants and Consequences for Male Mating Success
- 16h15 **Jennifer Perry**, L. Rowe  
Eating the spermatophore and female reproduction in a ladybird beetle (Coleoptera: Coccinellidae)
- 16h30 **Anne Lizé**, Anne Marie Cortesero(1), Anne Atlan(2) and Denis Poinso(1)  
Parental conflict over kin recognition in *Aleochara bilineata* larvae
- 16h45 **Tanya Latty**  
Changes in mate choice with age and mating history in *Tenebrio molitor*
- 17h00 **Mick Wu**, G. Boivin, J. Brodeur, L.-A. Giraldeau  
Morphology and behavioural interactions between aphids and their parasitoids: a comparative study.

### **Prix du président - President's Prize – – Session 2**

- 08h30 **Tyler Reid**, M. Reid  
Dispersal of the mountain pine beetle (*Dendroctonus ponderosae*) in thinned and non-thinned forest habitats.
- 08h45 **Nicholas Rudzik**  
The effects of an exotic bark beetle on the native scolytid community
- 09h00 **Greg Smith**, A. Carroll, S. Lindgren  
Interactions between endemic mountain pine beetles and a potential bark beetle competitor.
- 09h15 **Kate Van Rooyen**  
Effects of site and crown level in density-defoliation relationships of the eastern blackheaded budworm (*Acleris variana*) in a cultured balsam fir (*Abies balsamia*) forest.
- 09h30 **Jonathan Leggo**  
Tradeoffs in allocation of resources to foliage or wood growth following defoliation of black spruce, white spruce, and balsam fir
- 09h45 **Sunday Oghiakhe**, N. J. Holliday

Effect of time of tree removal on potential of *Hylurgopinus rufipes* to transmit Dutch elm disease pathogens from newly-symptomatic American elm trees in Manitoba

10h00 Pause - Break

10h30 **Christina Elliott**, M. L. Evenden  
The effect of flight on the mating behaviour and fecundity of female *Choristoneura conflictana* (Lepidoptera: Tortricidae)

10h45 **Michel Saint-Germain**, C. M. Buddle, P. Drapeau  
Substrate selection by larvae in highly variable hosts restricts the importance of oviposition site in saprophagous wood-boring beetles (Coleoptera: Cerambycidae).

11h00 **Philippe Boucher**, L. Sirois, F. Dufresne, C. Hébert  
Stratégies de dispersion d'une fourmi en forêt boréale

11h15 **Chris MacQuarrie**, D. Langor, J. Spence  
Mortality factors influencing a newly established invasive species – *Profenusa thomsoni* in Alaska

11h30 **Jeffrey Boone**, D. T. Quiring, S. M. Smith  
Enemy-free space and food quality influence the foraging strategy of an insect herbivore.

11h45 **Rob Johns**  
Intratree heterogeneity drives the sex-biased foraging behavior of a specialist herbivore

12h00 Diner - Lunch

13h30 **Elsa Etilé**, Y. Mauffette  
Feeding behaviour of a generalist lepidopteran larva on four of its hosts

13h45 **Lauren Pinault**  
Influence of intraplant heterogeneity on feeding patterns of the pale-winged gray moth, *Iridopsis ephyraria*

14h00 **Lars Andreassen**, P. G. Mason, U. Kuhlmann, N. J. Holliday  
Fundamental host range of a European natural enemy of *Delia radicum*.

14h15 **Kim Riley**, N. J. Holliday, U. Kuhlmann, J. Whistlecraft  
Using mustard seed meal as a cultural control method to increase the abundance of natural enemies of *D. radicum*

14h30 **Kathryn Dau-Schmidt**, C. Noronha, D. Giberson  
European Corn Borer (*Ostrinia nubilalis*) in Potatoes, the not so Final Frontier

14h45 **Nathalie Roullé**, E. Lucas, G. Domon,  
The influence of landscape structure on the aphids biological control in corn

15h00 **Wade Jenner**, N. Cappuccino, P. Mason, U. Kuhlmann  
Natural field mortality of the invasive leek moth

15h15 Pause - Break

15h45 **Onour Moeri**, J.P. Cuda, W.A. Overholt, S. Bloem, J.E. Carpenter  
Use of the F1 Sterile Insect Technique (F1SIT) as a Tool for Host Range Testing in Weed Biological Control.

- 16h00 **Anne-Marie Bouchard**, J. Brodeur, J. McNeil,  
The lily beetle: a threat to indigenous lilies?
- 16h15 **Michel Girard**  
Effets de trois pollinisateurs introduits, de la canneberge cultivée (*Vaccinium macrocarpon* Aiton), sur le poids, le volume, la mise à fruit et le taux de pollinisation des fruits, dans les cannebergières commerciales des Bois-Francs.
- 16h30 **Jacinthe Tremblay**, J. Brodeur, É. Lucas, D. Cormier  
Woodlands adjacent to apple orchards: is there a link between vegetal diversity and obliquebanded leafroller populations?
- 16h45 **Olivier Aubry**, É. Lucas, D.I. Cormier, G. Chouinard  
Host selection by the parasitoid *Trichogramma minutum* on two tortricids eggs
- 17h00 **Arnaud Sentis**, W. Vickery, É. Lucas  
Ponte optimale, prédation intraguilde et pucerons myrmécophiles, cocktail explosif pour la cécidomyie *Aphidoletes Aphidimyza* (Rondani)
- 17h15 **Geneviève Labrie**, D. Coderre, É. Lucas  
La prédation intraguilde par la coccinelle asiatique *Harmonia axyridis* peut-elle expliquer son succès d'invasion?

### Prix du président - President's Prize – Session 3

- 08h30 **Ayman Mostafa**, N. J. Holliday  
Effect of lygus bugs (Hemiptera, Miridae) on buckwheat crops in Manitoba
- 08h45 **Geneviève Legault**, J. Boisclair, K. A. Stewart,  
Kaolin Clay, a New Approach to Control the Striped Cucumber Beetle (*Acalymma vittatum*).
- 09h00 **Jean Pierre Kapongo**  
Using bumble bees to deliver multiple biocontrol agents for insect pest and disease control
- 09h15 **Thi Thuy An Nguyen**, D. Michaud, C. Cloutier.  
Response of herbivore insects to biotic and abiotic stress: global functional approach using proteomics
- 09h30 **Magali Merx-Jacques**, E. Despland, J. Bede  
Nutritional regulation in the beet armyworm caterpillar, *Spodoptera exigua*
- 09h45 **Jayaranjan Anthonypillai**, J. N. McNeil  
Accumulation and allocation of lipids in migrant and non-migrant adult females of the true armyworm, *Pseudaletia unipuncta*. (Lepidoptera: Noctuidae)
- 10h00 Pause - Break
- 10h30 **Jean-Frédéric Guay**, D. Michaud, C. Cloutier  
Symbiotes bactériens, stress thermiques et résistance aux parasitoïdes chez le puceron du pois / Symbiotic bacteria, heat stress and pea aphid resistance to parasitoids
- 10h45 **Sigrun Kullik**  
Bt corn and seed-applied insecticides in the management of the black cutworm (*Agrotis ipsilon* (Hufnagel))

- 11h00 **Zaid Jumean**, L. Faezel, C. Wood, T. Cowan, M. Evenden, G. Gries  
Do larvae of Oriental fruit moth and Indianmeal moth produce an aggregation pheromone?
- 11h15 **Melanie McClure**, W. Francke, J. N. McNeil  
Pillow-talk: Mating signals confer reproductive isolation in *Aphidius ervi* and *Aphidius nigripes*
- 11h30 **Asieh Rasoolizadeh**, C. Béliveau, M. Cusson  
Predicted vs expressed polydnavirus genes: the case of the *Tranosema rostrale* ichnovirus (TrIV) in its spruce budworm host
- 11h45 **Miriam Daniels**, H.J. Newbury, J.S. Bale, R. Lind, J. Pritchard  
Investigating the translocation of xenobiotics: from spray droplet to insect target
- 12h00 Diner - Lunch
- 13h30 **Nicole McKenzie**, G. W. Otis, B. Helson, D. Thompson  
Evaluation of the Efficacy of Imidacloprid Trunk Injections for Control of the Emerald Ash Borer
- 13h45 **David Lagacé**  
Ecophysiology of monarch butterfly spring migration
- 14h00 **Adrienne Brewster**, G. W. Otis  
A protocol for estimating the cost-effectiveness of exhibit butterflies based on mark-recapture lifespan estimates, behaviour and cost
- 14h15 **Leah Flaherty**  
Opposite effects of plant module size and galler density on gall initiation success
- 14h30 **Karen Hawkin**, P. Fields  
The efficacy of *Tribolium* pheromone traps in flour mills
- 14h45 **Brian O. Ma**, B. D. Roitberg  
The impact of sugar availability on the foraging behaviour of *Anopheles gambiae* s.s. (Diptera: Culicidae) mosquitoes of different energetic condition and bloodmeal status
- 15h00 **Curtis Russell**, F. F. Hunter:  
Analysis of the possible attraction of *Culex pipiens* to humans in the Golden Horseshoe.
- 15h15 Pause - Break
- 15h45 **Roger J. Kroeker**, F. F. Hunter  
Community structure of Nearctic treehole and container breeding mosquitoes (Diptera: Culicidae)
- 16h00 **Sean McCann**, C.C. Lord  
Senescence and physiological parameters influence fecundity of *Culex quinquefasciatus* Say
- 16h15 **Amy Sharp**, F. F. Hunter  
Mermithid-infected black flies (Diptera: Simuliidae): an examination of sexual determination and developmental stage.

## Mardi le 21 novembre - Tuesday 21 November

**Symposium 3 - Arachnology: A tribute to Charles Dondale**  
Organizers and Moderators – Nadine Dupérré and Pierre Paquin

- 08h15 **Joey Bowden**, C.M. Buddle  
The effects of latitude on spider species diversity north of 60.
- 08h45 **Chris Buddle**  
Monitoring spider diversity in SW Quebec forests: field techniques, taxonomy and three years of data.
- 09h00 **David Shorthouse**  
Predicting Nearctic spider species distributions using dispersed point collections: case studies, accuracies, and applications.
- 09h30 **Matthias Foellmer**, J. Moya-Laraño  
Sexual size dimorphism in spiders: patterns and processes.
- 10h00 Pause - Break
- 10h30 **Pierre Paquin**  
Systematics and biogeography of the *Cicurina brevis* group (Araneae: Dictynidae).
- 11h00 **Gail Stratton**  
A phylogeny of the large wolf spiders from North America; are we making progress?

### **Communications générales - Contributed Papers – Session 1**

- 09h15 **Zhang Jianhua**, Y. Pelletier, C. Goyer  
Insecticide and water stress induced glycine-rich protein gene expression
- 09h30 **Sophie Vandermoten**, C. Béliveau, S. Sen, F. Francis, E. Haubruge, M. Cusson  
Identification of a new aphid isoprenyl diphosphate synthase
- 09h45 J. T. Kicks, J.-P. Parent, S. M. Macfie, **Jeremy N. McNeil**  
The performance of herbivorous insect species on a cadmium-tolerant crucifer.
- 10h00 Pause - Break
- 10h30 **Vince Nealis**  
Foraging risks for western spruce budworm
- 10h45 **Lorraine Maclauchlan**, L. Rankin  
Impact of mountain pine beetle, *Dendroctonus ponderosae* Hopkins, in young stands
- 11h00 **Tanya Latty**, M. Reid  
Aggregation in the Mountain pine beetle: does it pay to be first?
- 11h15 **Bill Riel**, T. Shore, A. Fall  
Spruce Beetle in the Yukon
- 11h30 **Ward Strong**, G. Grant, J. Millar  
Pheromone and life history traits of *Dioryctria abietivorella*
- 11h45 **Richard Trudel**, R. Lavallée, C. Guertin  
Méthode de lutte potentielle contre le charançon du pin blanc à l'aide de *Beauveria bassiana*
- 12h00 Diner - Lunch

## Communications générales - Contributed Papers – Session 2

- 08h45 **Aziz Ajlan**  
Using Biotechnology Techniques to Detect Whitefly Strains Transmitted Geminiviruses in Saudi Arabia
- 09h00 **Rosemarije Buitenhuis**, L. Shipp, G. Murphy, S. Jandricic, M. Short  
Fatal attraction – Trap plants against western flower thrips in greenhouse ornamentals
- 09h15 **Andrew Chow**, K. M. Heinz  
Are Two Predators Better than One? Combining a Predatory Mite and a Predatory Bug for Control of Western Flower Thrips on Greenhouse Roses
- 09h30 **Hélène Chiasson**  
FACIN, a new pest management tool
- 09h45 **Paul Fields**  
Alternatives to methyl bromide fumigations in flour mills.
- 10h00 Pause - Break
- 10h30 **Emma Despland**  
Scaling relationships and ontogenetic changes in caterpillar aggregation
- 10h45 **Robert Lamb**, P. A. MacKay  
Persistence and stability, at four spatial scales, for populations of an aphid on its native host plant
- 11h00 **Donna Giberson**, S. Burian  
Notes on the life cycle of a fast growing arctic mayfly, *Baetis bundyae*, with an update of the mayflies of Nunavut
- 11h15 **David Bruce Conn**, D. A. Conn  
Reproduction, Feeding, and Changing Distribution of Brachycentrid and Hydropsychid Caddisflies (Trichoptera) in the Upper St. Lawrence River
- 11h30 **Jennifer Heron**  
Challenges to Invertebrate Conservation in BC
- 11h45 **David Langor**, J. Hammond, G. Pohl  
Ecological land classification as a surrogate for arthropod biodiversity
- 12h00 Diner - Lunch

## Symposium 4 - New Trends In Potato Protection

Organizers and Moderators – *Philippe Giordanengo and Yvan Pelletier*

- 13h15 **Philippe Giordanengo**  
Opening comments
- 13h20 **Christine Noronha**  
Mechanical control of the European Corn Borer, *Ostrinia nubilalis* (Hubner) (Lepoptera: Pyralidae) in potatoes
- 13h40 **Bob Vernon**, W. van Herk

Wireworm control in potato crops: Will efficacy trials used for organophosphates work for neonicotinoids?

- 14h00 **Gilles Boiteau**, J. Watmough, Y. Leclerc, J.D. Picka  
Renewed potential for the use of crop rotation in the management of the Colorado potato beetle.
- 14h20 **Jianhua Zhang**, Y. Pelletier, C. Goyer  
A low density reverse Northern array used to study gene expression in *Leptinotarsa decemlineata* (Say) under environmental stresses
- 14h40 **J.-F. Silvain**, S. Dupas, O. Dangles, X. Lery, J.-L. Zeddani  
Gelechiid moths, a major threat for potato cultivation in South-America
- 15h00 Pause - Break
- 15h20 **Dominique Michaud**  
Transgenic potato lines for pest control – Current advances and future trends
- 15h40 **Julien Saguez**, F. Dubois, C. Vincent, J.-C. Laberche, P. Giordanengo  
Chitinase inhibitors : An appropriated strategy to manage aphids
- 16h00 **V. Le Roux**, C. Vincent, S. Dugravot, E. Campan, P. Giordanengo  
Pommes de terres sauvages résistantes aux pucerons : antixénose ou antibiose?
- 16h20 **Yvan Pelletier**  
Wild tuber-bearing *Solanum* species; A source of insect resistance.
- 16h40 **Laurence Brunissen**, S. Dugravot, A. Cherqui, C. Vincent, P. Giordanengo  
Changes in the feeding behavior of *Myzus persicae* and *Macrosiphum euphorbiae* on previously infested potato plants

### **Symposium 5 – Biocontrol in Canada: Partners and Potential Sponsored by the Canadian Forum for Biological Control**

Moderator – Kevin Floate

- 12h55 Opening remarks
- 13h00 **Lesley Cree**  
Challenges and opportunities presented by an invasive alien species strategy for Canada.
- 13h25 **Leslie Cass**  
AAFC's Pest Management Centre: update on the Pesticide Risk Reduction Program and Biopesticide Initiative activities.
- 13h50 **Jean-Louis Schwartz**, R. Laprade  
The Biocontrol Network: a Canadian example of the importance of networking
- 14h15 **Richard Ward**  
Association of Natural Biocontrol Producers (ANBP) – Who we are and what we do
- 14h40 Pause - Break
- 15h00 **Rob S. Bouchier**  
Biological control success - holding hands for public good eh.

- 15h25 **Sandy M. Smith**, P. de Groot  
"The Beetles Have Arrived": Recent case studies on invasive alien insects in our forests
- 15h50 Round-table discussion
- 16h10 CFBC Annual General Meeting
- 17h10 End

### **Communications générales - Contributed Papers – Session 3**

- 13h30 **Christopher Friesen**, R. Westwood  
Community and Environmental Variables and the Relationship to Pollinator Visitation in the Endangered Western Prairie Fringed Orchid (*Platanthera praeclara*)
- 13h45 **Robert McGregor**  
Assessment of disturbance of urban riparian habitat using ground beetle (Coleoptera: Carabidae) surveys
- 14h00 **Michel Saint-Germain**, P. Drapeau, C. M. Buddle  
Host-use patterns of adults and larvae of saproxylic wood-feeding Coleoptera in black spruce and aspen.
- 14h15 **Joshua Jacobs**, T. Work, J. Spence  
Recovery of Carabid communities to variable retention harvesting.
- 14h30 **Kathleen Aikens**, S. M. Townsend, A. A. M. MacDonald, C. G. Majka, D. B. McCorquodale  
Diversity in a dairy pasture: do Carabidae and Staphylinidae communities respond to different management practices?
- 14h45 **Tara Sackett**, C. M. Buddle, C. Vincent  
Spider colonization of apple orchards
- 15h00 Pause - Break
- 15h30 **Bernard LaRue**, C. Gaudreau, G. Charpentier  
Blackfly phylogeny through DNA sequencing? A critical study.
- 15h45 **M. Javahery**  
The evolution of some heteropteran true land bugs
- 16h00 **Jan Klimaszewski**, N. Gouix  
Aleocharine rove beetles of Canada and Alaska – rapid progress in our knowledge (Coleoptera, Staphylinidae)
- 16h15 **Guy Charpentier**, C. Charbonneau, R. Côté  
Toxic effects of azadirachtin and of simpler epoxy-alcohols on *Galleria mellonella* (Lepidoptera) larvae and on three insect cell lines.

### **Mercredi le 22 novembre - Wednesday 22 November**

**Symposium 6 - Canopy Arthropod Ecology**  
Organizer and Moderator - Christopher Buddle

- 08h30 **Christopher Buddle**  
Welcome and opening comments
- 08h35 **Neville Winchester**  
Islands in the sky: The beast, the impediment, and whirlpools in the pattern of arboreal community ecology
- 09h00 **Rob Johns**  
Ecological processes shaping the foraging behaviors and associated performance of herbivorous insects within tree crowns
- 09h25 **Frédéric Beaulieu**, D.E. Walter, H.C. Proctor, R.L. Kitching  
Habitat distribution of predatory mites in Australian forests: arboreal specialists, suspended soil generalists, or rainforest floor avoiders?
- 09h50 Pause - Break
- 10h15 **Sandy Smith**  
Canopy research on arthropods in temperate maple-dominated forests: From descriptions to mechanisms in 10 years
- 10h40 **Maxim Larrivé**e, C.M. Buddle  
Diversity patterns at multiple spatial scales of canopy spiders found on sugar maple and American beech in hardwood forests
- 11h05 **Terry Erwin**  
Monitoring changes in canopy arthropod populations through time in the western Amazon Basin, Yasuni area, Ecuador
- 11h50 **Christopher Buddle** (Moderator)  
Wrap-up and discussion

#### **Communications générales - Contributed Papers – Session 4**

- 08h30 **Dave Gillespie**, P. G. Mason, L. M. Dossall, P. Bouchard, G. A. P. Gibson,  
A retrospective analysis of classical biological control release against cabbage seedpod weevil, *Ceutorhynchus obstrictus*.
- 08h45 **Tim Hays**, P. G. Mason, L. M. Dossall, U. Kuhlmann  
Mortality factors of the cabbage seedpod weevil, *Ceutorhynchus obstrictus*, in its area of origin
- 09h00 **Peter Mason**, U. Kuhlmann, H. Hinz, R. De Clerck-Floate, L. M. Dossall, J. Brodeur, O. Olfert, A. McClay  
Avoiding conflicts between insect and weed biological control: selecting non-target species for host specificity testing of cabbage seedpod weevil parasitoids
- 09h15 **Tara Garipey**, U. Kuhlmann, C. Gillott, M. Erlandson  
Pests, Parasitoids, and PCR: A Novel Approach to Evaluating the Host Specificity of Candidate Biocontrol Agents
- 09h30 **Kenna MacKenzie**, B. Lees, D. Moreau  
Managing root weevils in strawberry with entomophagous nematodes
- 09h45 **Susan Bjornson**, T. Saito  
*Hippodamia convergens* used for biological control: more than meets the eye

- 10h00 Pause - Break
- 10h30 **Marie-Pierre Mignault**  
Pests of concern for CFIA in horticulture: an overview
- 10h45 **Jennifer Otani**  
Clover insect pests - an European flare for damage?
- 11h00 **Marc Rhainds**, J. Brodeur, M. Roy  
Soybean aphid in Québec: Vive la différence !
- 11h15 **Chrystel Olivier**, T. Lowery, L. Stobbs  
Phytoplasma diseases on grapevine
- 11h30 **Allison Henderson**  
Sexual communication of *Exophthalmus jekelianus* (Coleoptera: Curculionidae) (White) on coffee in Costa Rica.
- 11h45 **Julie Soroka**, M. Gruber, J. Holowachuk, L. Grenkow  
'Hairy' Canola Meets Flea Beetles (*Phyllotreta* spp.): Host Plant Resistance in Action
- 12h00 Diner - Lunch

## Affiches - Posters

### Prix du président - President's Prize Student Posters

- P1 **Pamela Horsley**  
Revision of the Mexican and Central American Genus *Trachyphloeomimus* (Coleoptera: Curculionidae, Entiminae)
- P2 **Julia Mlynarek**, T. A. Wheeler  
Systematics of *Goniaspis* and implications for higher classification of Chloropidae (Diptera)
- P3 **James Kuchta**, J. Savage  
A Taxonomic Revision of the New World Fauna of *Mesembrina* Meigen (Diptera: Muscidae) with Description of the first Neotropical Species
- P4 **Claudia Copley**, R. Bennett, S. Perlman  
Phylogenetic analysis of North American *Cybaeus* spp. (Araneae: Cybaeidae) utilizing morphological and molecular characteristics
- P5 **Christine Gaudreau**, V. Charbonneau, B. LaRue, G. Charpentier  
Étude moléculaire de la diversité génétique chez les simulies.
- P6 **Mylène St-Onge**, B. LaRue, G. Charpentier  
Identification moléculaire des mermithides (nématodes) parasites de mouches noires (Diptera : Simuliidae)
- P7 **Charles Stephen**, C. M. Buddle  
First focused survey of harvestmen (Arachnida: Opiliones) in Québec beech-maple forests
- P8 **Eric Domaine**, C. Hébert, D. Masse

Diversité des macrolépidoptères au parc national de la Mauricie du Canada : une approche statistique de la diversité maximale des macrolépidoptères de ce territoire protégé

- P9 **Alida Mercado**, C. M. Buddle  
Seven introduced ground beetles (Coleoptera: Carabidae) in Québec: their distribution and potential range expansion since 1975.
- P10 **Sheena M. Townsend**, K. R. Aikens, A. MacDonald, C. G. Majka, D. B. McCorquodale  
Beetles, Bovines and Biodiversity: An inventory of Coleoptera in an eastern Canadian dairy pasture
- P11 **Annie Hibbert**, P. Drapeau, T. Work, T. A. Wheeler  
Diversity and abundance of saproxylic Diptera emerging from coarse woody debris in Abitibi-Témiscamingue, Québec
- P12 **Annie Webb**, C. M. Buddle, P. Drapeau  
The effect of remnant boreal forest habitats on saproxylic beetle assemblages in landscapes subjected to harvesting
- P13 **Andrea Déchêne**, C. M. Buddle  
Effects of alternative silvicultural practices on litter mite assemblages in Quebec's mixed-wood boreal forest
- P14 **Zachary Sylvain**, C. M. Buddle  
Effects of Stand Type on Oribatid Mite Assemblages in Southern Quebec
- P15 **Philippe Boucher**, L. Sirois, C. Hébert  
Ants' colonisation of woody debris after wildfires
- P16 **Laura Timms**, S. M. Smith  
Does gypsy moth invasion affect the natural mortality of native caterpillars?
- P17 **Sarah Chabot**, R. Lavallée, Y. Mauffette  
Influence of the egg laying period of *Pissodes strobi* on the new brood emergence: Evaluating the consequences of being late.
- P18 **Maryse Barrette**, G.-M. Wu, L.-A. Giraldeau, J. Brodeur, G. Boivin  
The importance of behavioural components in the estimation of fitness and fitness gain rate
- P19 **Sandra Gillespie**  
Parasite and parasitoid prevalence in wild bumblebees of Massachusetts
- P20 **Connie Chan**, B. Lyons, J. D. Shorthouse  
Biology of the Bronze Birch Borer (*Agrilus anxius*) (Coleoptera: Buprestidae) in a gradient of industrially disturbed lands near Sudbury, Ontario
- P21 **Chris MacQuarrie**, D. Langor, E. Hosten, S. Digweed, A. Soper, J. Spence, J. Kruse  
Release and possible establishment of *Lathrolestes luteolator* as a biological control agent of Ambermarked birch leafminer (*Profenusa thomsoni*) in Alaska
- P22 **Michael Cardinal-Aucoin**, P. Albert, E. Bauce  
Electrophysiological and Behavioural Responses of the Spruce Budworm (*Choristoneura fumiferana* (Clem.)) to Various Concentrations of Tannins Observed in Silvicultural Thinning
- P23 **Simon Daoust**  
Electrophysiological and behavioural responses of spruce budworm

- P24 **Brian Mader**  
Electrophysiological and behavioural responses of spruce budworm larvae *Choristoneura fumiferana* (Clem.) to the hydrophobic components of white spruce (*Picea glauca*).
- P25 **Zhe Shi, E. Despland**  
Is Trypsin Inhibitor a Plant Defence against the Forest Tent Caterpillar (*Malacosoma disstria*)?
- P26 **Genevieve Boisjoli, E. Étilé, Y. Mauffette**  
Impact de périodes de jeûne sur le fitness de la Livrées des forêts
- P27 **Elisabeth Reichert, T. Johnson, E. Rojas, R.S. Anderson, T.A. Wheeler**  
Potential weevil biocontrol agent for *Miconia calvescens*, the “Purple Plague” of Hawaii.
- P28 **Jane Allison, W. Jenner, N. Cappuccino, P.G. Mason**  
Oviposition and Feeding Preference of *Acrolepiopsis assectella* Zell. (Lepidoptera: Acrolepiidae)
- P29 **Louise Voynaud, É. Lucas, J. Brodeur**  
Influence du site d'établissement d'une colonie de pucerons sur la prédation intragilde
- P30 **Olivier Aubry, É. Lucas, D. Cormier**  
Facteurs de mortalité du parasitoïde *Trichogramma minutum* en verger de pommiers
- P31 **Annabelle Firlej, P.-A. Girard, M. Brehélin, D. Coderre, G. Boivin**  
The immune response of the coccinellid *Harmonia axyridis* to parasitism by *Dinocampus coccinellae*
- P32 **Lisane Morcos, E. Despland**  
Are we there yet? Collective locomotion in a social caterpillar
- P33 **Bensadia Fatiha, C. Vincent, Y. Mauffette**  
Les tannins influencent-ils le développement de la tordeuse?
- P34 **Michelle Franklin, J. Myers**  
Determination of the population structure of the cabbage looper, *Trichoplusia ni* in greenhouse and field crops as a tool in reducing resistance to the microbial insecticide, *Bacillus thuringiensis*
- P35 **Rachid Sabbahi, C. Guertin**  
Efficacité du champignon entomopathogène *Beauveria bassiana* contre les populations de la punaise terne, *Lygus lineolaris*, dans la culture du fraiser.
- P36 **Kate Bergen, W. G. Dilantha Fernando, N. J. Holliday**  
Effects on insect pests of treatments to induce systemic resistance in canola
- P37 **Olivier Morisset, S. Todorova, F. Pelletier, D. Cormier, G. Chouinard, É. Lucas**  
Effet du virus de la granulose sur le carpocapse de la pomme (*Cydia pomonella*)
- P38 **Jamal Ziani, Y. Mauffette, C. Vincent, C. Guertin**  
Application de *Beauveria bassiana* contre la punaise terne *Lygus lineolaris* dans les vignobles

#### Affiches réguliers - Regular Posters

- P39 **S. Pinna, Eric Lucas**  
Effet de la maturité des habitats urbains sur le succès d'invasion du carabe exotique *Carabus nemoralis* Müller

- P40 **Frédéric Beaulieu**, K. W. Wu  
Phytophagous mites of Canada
- P41 C. Milewski, S. McNulty, **Janet Mihuc**  
The Adirondack All-Taxa Biodiversity Inventory: full of possibilities
- P42 **Jose Fernandez**  
Biodiversity of parasitic wasps (Hymenoptera: Ichneumonidae) in the highest mountains of a tropical island and its Nearctic relatives: are they related?
- P43 **Marie-Ève André**, S. Laberge-Gaudet, T. T. Work  
Taxonomic tools for paleoentomology in boreal forests
- P44 **Timothy Work**, A. Hibbert, L. Imbeau  
Insects associated with nests of the American Kestrels, Northern Saw-whet and Boreal owls
- P45 **Allison Henderson**, P. Fargey  
Arthropod Conservation in Canada: Recovery Strategy Development for the Mormon Metalmark, *Apodemia mormo*
- P46 **Mahmood Iranpour**, R. Lindsay, A. DiBernardo  
Molecular identification of West Nile virus vectors and possibility of cross contamination among sorted mosquito samples
- P47 **Enric Frago**, J. Selfa, J. Pujade-Villar, M. Guara, R. Currás, J. Martín-Cano  
Data on the parasitoid complex of 'Euproctis chrysorrhoea' (Linnaeus) in a Mediterranean environment.
- P48 **Enric Frago**, E. Bauce, C. Tremblay  
Nutrition-related stress carries over to spruce budworm, 'Choristoneura fumiferana' (Lepidoptera : Tortricidae), progeny.
- P49 **Jennifer-Aniki Arnold**  
je ne t'aime plus, tu es trop mûre...
- P50 **Jonathan-X St-amand Lusignan**, Y. Mauffette  
L'arbre est-il toujours plus vert à coté
- P51 **Robert Graham**, C. J. Lucarotti  
Culture-independent characterisation of microbiota isolated from natural populations of sawflies
- P52 G.K. Kyei-Poku, M. Giladi, O. Mokady, E. Zchori-Fein, P. Coghlin, **Kevin Floate**  
*Wolbachia* in wasps parasitic on filth flies (Diptera: Muscidae) with emphasis on *Spalangia cameroni* (Hymenoptera: Pteromalidae)
- P53 **Christelle Robinet**, D. Gray, A. M. Liebhold.  
Mating success driven by individuals isolation in space and time
- P54 **Maya Evenden**  
Plasticity of male moth response to sex pheromone in the ash leaf cone roller, *Caloptilia fraxinella* (Lepidoptera: Gracillariidae)
- P55 **Gaétan Racette**, N. J. Bostanian, J. M. Hardman, J. Franklin, J. Lasnier  
An inventory of predacious mites in Quebec commercial apple orchards where IPM programs are implemented

- P56 **Bruno Fréchet**, G. Chouinard, J. Brodeur, F. Vanoosthuyse, D. Cormier, É. Lucas  
Impact of aphidophagous predators on natural control of apple aphid populations
- P57 **Héctor A. Cárcamo**, C. Klima, T. Entz, B. Beres  
Sample size required to estimate *Cephus cinctus* (Hymenoptera: Cephidae) egg infestation, larval damage and parasitism by *Bracon cephi* (Hymenoptera: Braconidae).
- P58 **Tom Lowery**, G. Judd, S. Triapitsyn  
Host Plant Associations for *Anagrus* Parasitoids of leafhoppers in the Okanagan Valley, BC.
- P59 **Bruce Broadbent**, T. Baute, P. Mason  
Impact of Predators on Soybean Aphid in Ontario
- P60 **Patricia Vickers**, D. T. Lowery,  
Aphid Transmission Efficiencies for the Ontario Isolate of Plum Pox Virus
- P61 **Lori Bittner**, P. Vickers, T. Lowery  
Inhibition of Aphid Transmission of Plum Pox Virus with Foliar Applications of Horticultural Oils.
- P62 **Chrystel Olivier**, B. Galka  
Epidemiology of Aster Yellows disease in oilseed and cereal crops in Saskatchewan, 2001 – 2006
- P63 M. Reekie, **Kenna MacKenzie**, B. Lees  
Is Cranberry Tipworm (Diptera, Cecidomyiidae, *Dasineura oxycoccana*) a new pest of lowbush blueberry?
- P64 **Pierre Lemoyne**, C. Vincent, S. Gaul, K. MacKenzie, D. M. Nash  
Determining the supercooling point of the blueberry maggot (*Rhagoletis mendax* Curran) from Quebec and Nova Scotia.
- P65 **Jennifer Otani**, H. Cárcamo  
How cold is too cold for *Lygus keltoni*?
- P66 **Isabelle Lauziere**, F. Mitchell, S. Sheather  
Species diversity, distribution and abundance of xylem fluid feeding Hemiptera in Texas vineyards
- P67 **Louis Simard**, J. Brodeur, G. Bélair, J. Dionne  
Distribution, Abundance, and Seasonal Ecology of the Annual Bluegrass Weevil (Coleoptera: Curculionidae) on Golf Courses in Québec, Canada
- P68 **Béliveau, Catherine**, D. Stewart, R. G. Rutledge, M. Cusson  
Characterisation and expression studies of two lepidopteran farnesyl diphosphate synthase homologs.
- P69 **Dominique Fleury**, N. J. Bostanian, Y. Mauffette, C. Vincent  
The residual toxicity of two insecticides on three field populations of *Lygus lineolaris* collected along the St-Lawrence valley in eastern Canada
- P70 J. Breton, A. Ameline, Y. Pelletier, **Philippe Giordanengo**  
Effet toxicologique du tau-fluvanilate sur le Doryphore, *Leptinotarsa decemlineata* (Say) dans le nord de la France / Toxicological effect of tau-fluvanilate on the Colorado potato beetle, *Leptinotarsa decemlineata* (Say) in the North of France

- P71 **Gilles Boiteau**, C. Noronha  
Reduced risk insecticides for the control of *Ostrinia nubilalis* Hubner on potato.
- P72 **Julien Saguez**, A. Cherqui, S. Lehraiki, C. Vincent, J. C. Laberche, P. Giordanengo  
Le MTI2 est-elle une méthode fiable pour la lutte contre les pucerons? / Is MTI2 a reliable method to manage potato aphids?
- P73 **Michael Smirle**, J. Cossentine, C. Zurowski, L. Jensen  
Impact of Spinosad on an Endoparasitoid in Late Instar Obliquebanded Leafrollers
- P74 **Francine Pelletier**, F. Vanoosthuyse, D. Cormier, G. Chouinard, S. Todorova, É. Lucas  
Compatibilité du virus de la granulose et des trichogrammes pour lutter contre le carpocapse de la pomme / Compatibility of granulosis virus and trichogrammatid wasps for the control of codling moth in apple orchards
- P75 **Caroline Provost**, C. Vincent, J. Valéro  
Essais du Virosoft CP4 en verger biologique