

## Table des matières / Table of Contents

Mot de bienvenue du président du comité organisateur 2015 .....	2
Comité organisateur 2015 / 2015 Organizing Committee .....	4
Localisation des salles de l'hôtel / Meeting rooms' location .....	4
Mot de bienvenue de la Présidente de la SEQ / SEQ President's Greeting .....	5
Mot de bienvenue du Président de la SEC /ESC President's Greeting .....	6
Horaire général / General Schedule .....	7
Horaire détaillé / Detailed Schedule .....	9
Samedi 7 novembre / Saturday, 7 November .....	9
Dimanche 8 novembre / Sunday, 8 November .....	9
Lundi 9 novembre / Monday, 9 November .....	9
Mardi 10 novembre / Tuesday, 10 November .....	15
Mercredi 11 novembre / Wednesday, 11 November .....	20
Liste des affiches / List of posters.....	23
Prix de la SEC 2015 / 2015 ESC Awards .....	27
Médaille d'or de la SEC 2015 – Dr Jon Sweeney .....	28
ESC Gold Medal – Dr Jon Sweeney .....	29
Prix C. Gordon Hewitt / C. Gordon Hewitt Award – Dr Cory Sheffield.....	30
Prix Norman Criddle / Norman Criddle Award – Louis Handfield .....	32
Membre associé / Fellow – Dr Charles Vincent.....	33
Conseil d'administration de la SEC / ESC Board of Directors .....	34
Dirigeants de la SEC / ESC Officers .....	34
Conseil d'administration de la SEQ / ESQ Board of Directors .....	34

## Mot de bienvenue du président du comité organisateur 2015

Bienvenue à tous à Montréal! C'est avec grand plaisir que notre comité d'organisation en collaboration avec l'Insectarium de Montréal – Espace pour la vie - a préparé ce congrès sous le thème de « l'Entomologie à l'ère de l'Anthropocène ». Nous avons choisi cette thématique car elle représente plusieurs éléments que nous voulions mettre de l'avant durant ce congrès. Tel que notre logo en témoigne, Montréal représente à plusieurs égards un portrait typique de l'impact des humains sur la planète, du béton des tours à bureaux et des condos aux îlots naturels que sont le Mont-Royal en et les espaces verts de la ville, le tout ceinturé par l'agriculture intensive au sud et les Laurentides au nord.

Le terme anthropocène souligne que nous avons maintenant des impacts indéniables sur notre environnement à l'échelle de la planète entière. Les insectes et autres arthropodes par leur diversité et capacité d'adaptation sont des sujets d'études fantastiques dans ce monde où les changements se produisent à si grande échelle et s'accroissent au-delà des équivalents mesurés lors des autres époques. Ce qui est particulier, est que nous en sommes conscients mais que malgré tout, aucune action à l'échelle planétaire pour mitiger l'ampleur de ces impacts n'a de succès significatif pour le moment.

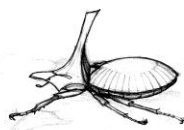
Le monde de la recherche et de la science évolue et accélère lui aussi. Nous désirions vous proposer un congrès qui en témoignerait et mettrait de l'avant des approches nouvelles et des champs de recherche d'avant-garde dans les différentes sphères de l'entomologie. Nos symposiums et nos sessions diversifiés en témoignent. Plusieurs d'entre vous seront probablement déchirés le temps venu de décider à quelles présentations assister.

Nos passions pour l'entomologie, la nature et la science sont au cœur de nos vies. Notre rôle unique de témoins des effets de l'anthropocène sur le monde de l'entomologie est des plus importants. Nous nous devons de communiquer nos découvertes et notre passion pour la beauté et l'importance de l'entomologie à un maximum de personnes afin de les sensibiliser à l'entomologie et de les reconnecter avec la nature. À cet égard, ne manquez pas de profiter de l'expertise et des conseils qui vous seront offerts lors de nos ateliers du midi donnés par les experts de la maison d'édition Cambridge et du *Canadian Entomologist* ainsi que par les éducateurs qualifiés de l'Insectarium. Qui d'entre nous n'a pas été invité à une fête d'enfants pour parler des insectes!

Je me dois de terminer ce mot de bienvenue en soulignant l'effort incroyable fourni par l'ensemble du comité organisateur, leur professionnalisme et le plaisir que j'ai eu à préparer ce congrès avec eux. Prenez le temps de les remercier si vous les croisez, ils le méritent amplement. Un gros merci à l'Insectarium de Montréal pour l'ensemble des ressources qu'il a déployé pour la mise en œuvre de ce congrès. Merci à la SEC et à la SEQ, et au nom de l'ensemble des membres du comité d'organisation je vous souhaite un merveilleux congrès!



Maxim Larrivée, président du comité organisateur JAM 2015



## Greetings from the Chair, JAM 2015

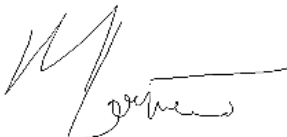
Bienvenue à tous à Montréal! It is with great pleasure that our organizing committee in collaboration with the Montréal Insectarium – Space for Life prepared this meeting following the theme – "Entomology in the Anthropocene". We chose this theme because it embodies several aspects of entomology we wanted to put forward during this meeting. As our logo exemplifies, Montréal represents, in many aspects a typical portrait of the impact humans have on the planet. From the concrete office towers and condominiums, to the natural islands that are Mount-Royal and the numerous green spaces around town, all surrounded by big agriculture to the south and the Laurentians to the north.

The term Anthropocene highlights the undeniable impacts of humans on our environment on a planetary scale. Insects and other arthropods are fantastic study subjects because of their diversity and capacity to adapt rapidly. They are ideal to monitor accelerating changes beyond any historical equivalents associated with previous epochs. We are conscious that such changes are happening globally, however no global actions has managed to mitigate the magnitude of the impacts so far.

The worlds of research and science are also evolving rapidly and accelerating. We have prepared a conference that showcases novel approaches and fields of research in entomology. Our diverse symposia and sessions are a testament to that. Most of you will probably be torn when the time will come to decide which presentation to attend.

Our passion for entomology, nature and science are at the heart of our lives. Our unique role as witnesses to the impacts of the Anthropocene on the entomological world is a privilege. We must communicate our discoveries but also our passion for the beauty and the importance of entomology to as many people as possible to a multitude of ways to awaken to their surroundings and help them reconnect with nature. Make sure to take advantage of the expertise and advice during our lunch time workshops offered by the experts at Cambridge University Press and *The Canadian Entomologist* and because each and every one of us has at one time been invited to a child's birthday party to talk about insects be sure to brush up on your skills with our education specialists from the Montreal Insectarium at other lunch time workshop.

I must end my welcoming remarks by recognizing the incredible effort of the organizing committee. It was truly a pleasure working alongside them. Their hard work, professionalism and dedication are to be commended. I had a lot of pleasure preparing this meeting with them. Please take a minute to thank them if you happen to cross path during the meeting, it is well deserved. A big thank you to the Montreal Insectarium for the resources they deployed for this conference. Thank you to the ESC and on behalf of all the organizing committee, I wish you a marvelous conference.



Maxim Larrivée, Chair of the organizing committee, JAM 2015



## Comité organisateur 2015 / 2015 Organizing Committee

### Président du comité / Meeting Chair

Maxim Larrivée

### Trésorière / Treasurer

Marjolaine Giroux

### Arrangements locaux / Local arrangements

Josée Doyon, François Fournier

### Prix / Awards

Véronique Martel

### Publicité / Publicity

Julien Saguez

### Programme scientifique / Scientific Program

Patrick James, Jacques Brodeur, Colin Favret,  
Jean-Philippe Lessard, David Shorthouse

### Financement / Fundraising

Annabelle Firlej, Jean-Philippe Légaré

### Inscriptions / Registration

Jade Savage, Mario Bonneau

### Photographie / Photography

Julien Saguez, Joseph Moisan-De Serres

### Préparation du programme / Program preparation

Véronique Martel, Catherine Béliveau, Julien  
Saguez

### Site Internet / Website

Thierry Poiré

### Réunions associées / Associated Meetings

Maxim Larrivée

### Conception du logo / Logo Design

Franz Vanoosthuyse

## Localisation des salles de l'hôtel / Meeting rooms' location

### Salles / Room

Viger A, B, C

Salle de bal

Caf Conc

Maisonnette ABCDEF

Étude Champlain\*

### Étage / Floor

Hall inférieur / Lower Lobby

Hall inférieur / Lower Lobby

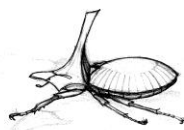
Hall inférieur / Lower Lobby

36<sup>e</sup> étage / 36rd Floor

Hall inférieur / Lower Lobby

**\*Les fichiers de présentations doivent être chargés dans la salle Étude Champlain.**

**\*The talks' files must be uploaded in the Étude Champlain room.**

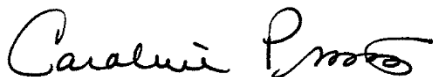


## Mot de bienvenue de la Présidente de la SEQ / SEQ President's Greeting

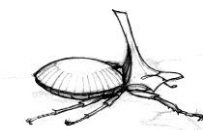
C'est avec grand plaisir que la Société d'entomologie du Québec vous accueille conjointement avec la Société d'entomologie du Canada à Montréal. Montréal est une ville vivante où plusieurs expériences enrichissantes peuvent être vécues. L'Insectarium de Montréal est un lieu extraordinaire où l'on peut découvrir et explorer le merveilleux monde des insectes. La collection entomologique y est impressionnante et une exposition permanente démontre la formidable diversité de ces petites bestioles. Conçue pour exposer la biodiversité, démontrer leurs modes de vie, présenter leurs particularités et discuter de leurs rôles écologiques, l'Insectarium de Montréal vaut une visite pour tous les entomologistes que nous sommes. Le comité organisateur travaille depuis plus d'un an pour la préparation de cet événement qui saura certainement vous ravir. Les sessions plénières et les symposiums diversifiés sauront rejoindre vos divers champs d'intérêt. Les multiples activités connexes vous permettront d'approfondir certaines connaissances, mais aussi d'échanger sur divers aspects concernant nos sujets de prédilection que sont les insectes. Je vous souhaite à tous un bon congrès et profitez de la diversité des activités offertes pour découvrir Montréal.

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The Entomological Society of Québec, jointly with the Entomological Society of Canada, is delighted to welcome you to Montreal. Montreal is a vibrant city with many enriching experiences to be had. The Insectarium of Montreal presents an opportunity to discover and explore the wonderful world of insects. The entomological collection is impressive and the permanent exhibition demonstrates the wonderful diversity of these small but numerous animals. Conceived to showcase their biodiversity, describe their lifestyles, present their particularities, and discuss their ecological roles, the Insectarium is especially worth a visit for entomologists. The organizing committee has been working for more than a year preparing this event, and we hope that the diverse plenary sessions and symposia will reflect your interests. The additional events associated with the meeting will allow you to not only deepen your knowledge, but also to engage with other entomologists on our favorite subject – the insects we study. I wish you all a great meeting and hope you will enjoy the diversity of activities available in Montreal.



**Caroline Provost**, Présidente de la SEQ/ESQ President



## Mot de bienvenue du Président de la SEC /ESC President's Greeting

It is a great privilege and pleasure to welcome you to Montréal and the Joint Annual Meeting of the Société d'entomologie du Québec (SEQ) and the Entomological Society of Canada (ESC-SEC). The organizing committee has worked hard to put together an exciting program for us under the most appropriate theme "Entomology in the Anthropocene". A few sessions that I am looking forward to personally are the Gold Medal presentation by my old friend Jon Sweeney, the plenary talks and a number of symposia. Furthermore, on Tuesday Nov. 10, there will be a symposium honouring Dr. Lloyd Dosdall, and the newly established Dr. Lloyd M. Dosdall Memorial Scholarship will be presented to two deserving students. Students will feature prominently, including the Graduate Student Showcase, which has quickly become one of the highlights of our JAMs since its establishment a few years ago. There will of course be plenty of opportunities to socialize during receptions and the banquet.

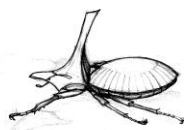
The organization of a meeting like this requires a lot of time and effort by numerous volunteers. You can find the names of the organizing committee in this program. Take a look at who they are, and when you run into any of them, take a minute to thank them for their efforts. Additional volunteers will deal with the day-to-day needs, e.g., audiovisual support etc. Without their commitment, these meetings would not be possible, so we owe them a great deal. Have an enjoyable meeting in Montréal 2015.

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J'ai le privilège et le plaisir de vous souhaiter la bienvenue à Montréal à la réunion annuelle conjointe de la Société d'entomologie du Québec (SEQ) et de la Société d'entomologie du Canada (SEC). Le comité organisateur a travaillé fort pour monter un programme excitant sous le thème très approprié de l'entomologie à l'ère de l'Anthropocène. Parmi les sessions auxquelles j'ai personnellement hâte d'assister, il y a l'allocution du médaillé d'or par mon vieil ami Jon Sweeney, les conférences plénières et plusieurs symposiums. De plus, mardi le 10 novembre, il y aura un symposium en l'honneur de Dr. Lloyd Dosdall, et la nouvelle bourse à sa mémoire sera présentée à deux étudiants méritants. Les étudiants seront mis à l'honneur, incluant la vitrine aux étudiants gradués, qui est rapidement devenu un des points forts de nos réunions depuis son établissement il y a quelques années. Il y aura évidemment de nombreuses opportunités de socialiser durant les réceptions et le banquet.

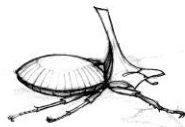
L'organisation d'une réunion demande beaucoup de temps et d'efforts par de nombreux bénévoles. Vous pouvez trouver les noms du comité organisateur dans ce programme. Regardez qui ils sont, et quand vous en rencontrerez un, prenez une minute pour le remercier. Des bénévoles supplémentaires s'occuperont des besoins au jour le jour, p. ex. le soutien à l'audiovisuel, etc. Sans leur implication, ces réunions ne seraient pas possibles, alors nous leur devons beaucoup. Je vous souhaite une agréable réunion 2015 à Montréal.

**Staffan Lindgren**, Président de la SEC/ESC President



## General Program

		Salle de bal	Caf Conc	Viger A	Viger B	Viger C	Maisonneuve BC	Maisonneuve D	Insectarium
<b>Sunday</b>	13h00	Welcome							
	13h30	Gold Medal Address							
	14h00	Heritage lecture							
	14h45	Coffee break							
	15h15	Plenary: M. Dicke							
	16h00	Étudiants gradués							
	18h30	Organized transportation to the Insectarium							
	19h00								Cocktail
<b>Monday</b>	8h30	Plenary J. Forrest	-	-	-	-	-	-	
	9h30	PP Agriculture	PP Physiology & Chemical Ecology	PP Pollination Biology	-	PP Biodiversity and Systematics			
	12h30	Lunch					Editorial Board TCE (12h-14h)	Education Workshop (13h-14h)	
	13h30	The changing landscape of chemical ecology	Entomology Museums in Canada	PP Behaviour	PP: Biological control	PP: Forest ecology			
	17h00	PP posters							
	18h00					AGA SEQ			
	19h						President reception	Students' mixer	
<b>Tuesday</b>	8h30	Plenary J. Hellman	-	-	-	-	-	-	
	9h30	Causes and consequences of arthropod diversity in a changing world	Arctic entomology	In memory of Lloyd Dosdall	CT Forest ecology	CT Pest management			
	12h30	Lunch				Workshop Cambridge	Lunch		
	13h30	Causes and consequences of arthropod diversity in a changing world	Impact of invasive insects on the canadian landscapes	Canada and its insect fauna: 35 years later	CT Agriculture and biological control	CT: Biodiversity and conservation			
	17h00		AGM ESC						
	18h00		Board ESC						
	18h30	Posters + Cocktail							
19h30	Banquet								
<b>Wednesday</b>	8h30	Plenary M. Barenbaum	-	-	-	-	-	-	
	9h30	Host associations and the diversification of insects	Egg parasitoids in Forestry	Arthropod diversity informatics in the Anthropocene	CT Behaviour and Physiology	CT Systematics and molecular biology			



## Horaire général

		Salle de bal	Caf Conc	Viger A	Viger B	Viger C	Maisonneuve BC	Maisonneuve D	Insectarium
<b>dimanche</b>	13h00	Bienvenue							
	13h30	Allocution du médaillé d'or							
	14h00	Allocution du patrimoine							
	14h45	Pause-café							
	15h15	Plénière: M. Dicke							
	16h00	Étudiants gradués							
	18h30	Transport organisé vers l'insectarium							
19h00								Cocktail	
<b>lundi</b>	8h30	Plénière J. Forrest	-	-	-	-	-	-	
	9h30	PP Agriculture	PP Physiologie & écologie chimique	PP Biologie de la pollinisation	-	PP Biodiversité & Systématique			
	12h30	Lunch					Comité éditorial TCE (12h-14h)	Atelier éducation (13h-14h)	
	13h30	The changing landscape of chemical ecology	Entomology Museums in Canada	PP Comportement	PP: Lutte biologique	PP: Écologie forestière			
	17h00	PP affiches							
	18h00					AGA SEQ			
	19h						Réception du Président	Cocktail étudiant	
<b>mardi</b>	8h30	Plénière J. Hellman	-	-	-	-	-	-	
	9h30	Causes and consequences of arthropod diversity in a changing world	Arctic entomology	In memory of Lloyd Dosdall	Rég : Écologie forestière	Rég : Gestion des ravageurs			
	12h30	Lunch				Atelier Cambridge	Lunch		
	13h30	Causes and consequences of arthropod diversity in a changing world	Impact of invasive insects on the canadian landscapes	Canada and its insect fauna: 35 years later	Rég: Lutte biologique et agriculture	Rég: Biodiversité et conservation			
	17h00		AGA SEC						
	18h00		CA SEC						
	18h30		Affiches + Cocktail						
19h30	Banquet								
<b>mercredi</b>	8h30	Plénière M. Berenbaum	-	-	-	-	-	-	
	9h30	Host associations and the diversification of insects	Egg parasitoids in Forestry	Arthropod diversity informatics in the Anthropocene	Rég: Comportement et physiologie	Rég: Systématique et biologie moléculaire			





## Horaire détaillé / Detailed Schedule

**N.B. Le nom du présentateur est en gras et seule son affiliation est mentionnée pour alléger le programme**  
**The name of the presenter is in bold and only its affiliation is mentioned to lighten the program.**

### Samedi 7 novembre / Saturday, 7 November

8h00-17h00 Réunion du CA de la SEC / ESC Board meeting (Maisonneuve EF)

16h00-18h00 Inscriptions / Registrations

### Dimanche 8 novembre / Sunday, 8 November

*Salle de bal*

9h30-16h30 Inscriptions / Registrations

13h00 Mot de bienvenue / Welcoming word

13h30 Allocution du médaillé d'or / Gold Medal Address: **Jon Sweeney**, Natural Resources Canada  
Interactions among insects and people – some personal reflections on entomology in the Anthropocene

14h00 Allocution du patrimoine / Heritage Lecture: **Guy Boivin** AAFC, St Jean sur Richelieu  
Nos racines sont profondes en entomologie

14h45 Pause café / Coffee break

15h15 Session plénière / Plenary session: **Marcel Dicke**, Wageningen University  
Matryoshka dolls and the ecology of multi-trophic insect-plant interactions

16h00-18h05 **Vitrine aux étudiants gradués / Graduate student showcase**

16h00 **C. Hodson**, S. Perlamn. University of Victoria – Ecological and evolutionary consequences of a selfish sex ratio distorting element in a booklouse (Psocodea: Liposcelis)

16h25 **H. Caravan**, T. Chapman. Memorial University of Newfoundland – Defensive mechanisms of the social aphid, *Pemphigus spyrothecae*

16h50 **J-P. Parent**, J. Brodeur, G. Boivin. Université de Montréal – Parasitoids standing the test of time

17h15 **L. Lachowsky**, M. Reid. University of Calgary – Fitness consequences of sex allocation in mountain pine beetles, *Dendroctonus ponderosae*

17h40 **P. Abram**, J. Brodeur, G. Boivin. Université de Montréal – Stink bugs and their parasitoids: their behaviour's plastic, it's fantastic

18h30 Transport organisé vers l'Insectarium / Organized transportation to the Insectarium

19h00 Cocktail de bienvenue / Welcome Reception

*Insectarium de Montréal*

### Lundi 9 novembre / Monday, 9 November

7h45-16h30 Inscriptions/Registrations

8h30 **Session plénière / Plenary session: Jessica Forrest**, University of Ottawa

*Salle de bal*

Costs and benefits of warming temperatures for high-altitude insects: a case study of cavity-nesting bees

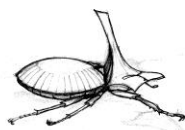
9h30-12h30 **Prix du Président : Agriculture / President Prize: Agriculture**

*Salle de bal*

9h30 **D. Augustine Joseph**, G.C. Cutler, S.E. Blatt. Dalhousie University – Evaluation of degree-day model for carrot weevil in Nova Scotia

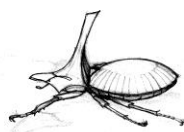
9h45 **P. Bonneau**, S. Tellier, V. Fournier. Université Laval – Screening and monitoring for virus-carrying insects in Quebec's strawberry fields

10h00 **T. Dancau**, D. Gillespie, T. Haye, P. Mason. Simon Fraser University – Mortality factors affecting the Diamondback moth (*Plutella xylostella*) in Europe and Canada

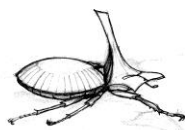


Lundi / Monday

- 10h15 **M-E. Gagnon**, G. Labrie, É. Lucas. Université du Québec à Montréal – The use of infrared cameras to evaluate the impact of natural enemies of the pollen beetle in canola fields of Quebec
- 10h30 Pause café / Coffee break
- 11h00 **N. Lomas**, SA Marshall, M. Habash, Y. Zheng. University of Guelph – Waste bioprocessing with *Musca domestica* larvae: the effect of moisture and aeration on the survival of indicator bacteria in processed manure and insect tissue
- 11h15 **M.A. Marinas**, JN. McNeil. University of Western Ontario – Migration of true armyworm moths
- 11h30 **J. Miall**, N. Cappuccino, A. Brauner, P. Mason. Carleton University and AAFC, Ottawa – Counting the Fatalities: Exploring the mortality factors affecting Leek Moth in Ontario
- 11h45 **J. Pol**, R. Gries, G. Gries. Simon Fraser University – Anthropogenic food-based attractants for German cockroaches, *Blattella germanica* L. (Dictyoptera: Blattellidae)
- 12h00 **Z. Telfer**, M.R. McDonald, C. Scott-Dupree. University of Guelph – Examining Carrot Weevil IPM in Ontario: New Issues and Improving Chemical Control
- 12h15 **Y. Bohorquez**, I. Scott, J. McNeil. University of Western Ontario and AAFC – Evaluating the effects of root exudates from buckwheat, *Fagopyrum esculentum*, on *Agriotes sputator* larvae
- 9h30-12h30 **Prix du Président : Physiologie et écologie chimique / President Prize: Physiology and Chemical Ecology** *Caf Conc*
- 9h30 **N. Chatel-Launay**, J. Bede. McGill University – Visual displays as honest indicators of azoxyglycoside concentration in the aposematic butterfly *Eumaeus godartii* (Lepidoptera: Lycaenidae)
- 9h45 **S. Pawlowski**, C. MacKay, P. Silk, J. Sweeney, K. Hillier. Acadia University – Using host plant phenology and conspecific volatiles to monitor invasive beech leaf-mining weevil, *Orchestes fagi* L. (Coleoptera: Curculionidae), in Nova Scotia, Canada
- 10h00 **R. Rix**, M. Ayyanath, G.C. Cutler. Dalhousie University – Sublethal doses of imidacloprid increase reproduction, induce expression of detoxification genes, and prime *Myzus persicae* (Hemiptera: Aphididae) for subsequent stress
- 10h15 **M.L. Seehausen**, J. Régnière, V. Martel, M. Cusson, D. Steward, S.M. Smith. University of Toronto – High temperatures reduce the performance of *Tranosema rostrale* (Hymenoptera: Ichneumonidae) - a parasitoid of endemic spruce budworm populations
- 10h30 Pause-café / Coffee break
- 11h00 **C. Walinga**. University of Ottawa – The metabolic costs of overwintering in solitary bees (*Osmia* spp.) in response to variable temperature treatments
- 11h15 **A. Wijerathna**, M. Evenden. University of Alberta – Effect of environmental conditions on mountain pine beetle (Coleoptera: Curculionidae: Scolytinae) flight capacity
- 11h30 **D. Wilches**, R. Laird, K. Floate, P. Fields. University of Lethbridge, AAC. – Diapause and control of dermestid beetles with low temperatures
- 11h45 **J-P. Michaud**, G. Moreau, K.G. Schoenly. Université de Moncton – Multiple independent discoveries, paradigm shifts, and the future of fundamental and forensic entomology research
- 12h00 **B. Giordano**, F.F. Hunter. Brock University – Vector competence for West Nile virus of southern Ontario mosquito species
- 12h15 **A. Chaulk**, T.W. Chapman. Memorial University of Newfoundland – Culicids on the move: A population genetics study of *Aedes japonicus japonicus*, a novel vector species in Newfoundland, Canada.

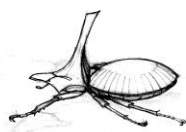


- 9h30-12h30 **Prix du Président : Biologie de la pollinisation / President Prize: Pollination Biology** *Salon Viger A*
- 9h30 **K. Achtymichuk**, A. Davis. University of Saskatchewan – Inquilines and parasites affiliated with a ground-nesting, urban population of *Halictus rubicundus* in Saskatchewan
- 9h45 **K. Bobiwash**, Y. Uriel, E. Elle. Simon Fraser University – Managed pollinator foraging characteristics and crop yield
- 10h00 **M. Colwell**, R.W. Currie, S.F. Pernal. University of Manitoba – The potential role of wax comb in honey bee virus epidemiology
- 10h15 **S. Frye**, S.M. Smith, S.C. Thomas. University of Toronto – Differential use of tree canopies by bees (Hymenoptera: Apoidea) in a mixed-woods temperate forest, in Haliburton Ontario
- 10h30 Pause café/Coffee break
- 11h00 **V. Lambinet**, M. Hayden, K. Reigel, S. Gomis, G. Gries. Simon Fraser University – Magnetoreception in honeybees - how to find the needle in the haystack with a magnet
- 11h15 **C. MacInnis**, B.A. Keddie, S.F. Pernal. AAFC, Beaverlodge and University of Alberta – Temporal patterns of spore viability and infectivity for the honey bee parasite *Nosema ceranae*
- 11h30 **S. Maucourt**, V.Fournier et P.Giovenazzo. Université Laval – Optimizing nuclei production of honeybee in Québec
- 11h45 **R.S. McCallum**, G.C. Cutler, N.L. McLean. Dalhousie University – Enhancing agroecosystems for native pollinators in wild blueberry
- 12h00 **C. Robson-Hyska**, R. Currie, S. Desai. University of Manitoba – Apidemic? Detecting pathogen spillover from managed honey bees (*Apis mellifera* L.) to native pollinators (*Bombus* spp.) through the quantification of RNA-like viruses
- 12h15 **N. Tsvetkov**, A. Zayed. York University – Risk and Synergy - Honey Bee Pesticide Field Exposures
- 9h30-12h15 **Prix du Président : Biodiversité et systématique / President Prize: Biodiversity and Systematics** *Salon Viger C*
- 9h30 **S. Turney**, C. Buddle. McGill University – Tundra invertebrate community assemblages along a subarctic-arctic cline in the Yukon
- 9h45 **T. Théry**, C. Favret. Université de Montréal – Use of elongation factor-1 alpha in discrimination of introduced aphid populations
- 10h00 **C. Cloutier**, C. Buddle, J. Fyles. McGill University – Phenology and community structure of mosquitoes (Diptera: Culicidae) across a forest-suburban habitat gradient in Montreal, QC
- 10h15 **K.W. Dearborn**, S.B. Heard, D. Pureswaran, J.D. Sweeney. University of New Brunswick – Displacement of a native woodborer by its invasive congener
- 10h30 Pause-café /Coffee break
- 11h00 **F. Gandiaga**, G. Moreau. Université de Moncton – Can deadwood resource pulses be used to increase and maintain biodiversity in coniferous plantations?
- 11h15 **C. Ho**, M.A. Smith. University of Guelph – Impacts of anthropogenic disturbance on arthropod biodiversity and community structure in protected areas
- 11h30 **J-E. Maisonhaute**, G. Labrie, É. Lucas. UQAM – Effect of the spatial context along the invasion process: “Hierarchical spatial” or “Host-switching spatial” hypotheses?
- 11h45 **M. Miller**, S.A. Marshall. University of Guelph – A Review of the Drosophila (Diptera: Drosophilidae) of Northeastern North America
- 12h00 **S.K. Monckton**. University of Guelph – Chilicola (Heteroediscelis), a revised group of Chilean bees



## Lundi / Monday

- 12h00-14h00 Réunion du comité éditorial de la SEC / ESC Editorial Board Meeting *Maisonneuve BC*
- 12h30-13h30 Lunch
- 13h00-14h00 Atelier : Transmettre la passion des insects / Workshop : Share the passion of insects  
*Maisonneuve D*
- 13h25-17h00 **Symposium: The Changing Landscape of Chemical Ecology** *Salle de bal*
- 13h25 **N.K. Hillier.** Acadia University – Introduction
- 13h30 **J.N. McNeil.** Western University – Some things old, some things new: Using sex pheromones in pest management
- 13h50 **M. Evenden,** T. Wist, R. Gries, J. Lemmen, D. Hoefele. University of Alberta – The chemical ecology of a tritrophic interaction on horticultural ash (*Fraxinus* spp.) in urban forests of the Prairie Provinces
- 14h10 **R.H. Hallett.** University of Guelph – Progress towards a push-pull strategy for spotted wing drosophila, *Drosophila suzukii*
- 14h30 **R. Gries,** R. Britton, M. Holmes, G. Gries. Simon Fraser University – 180,000 bed bug bites later...
- 14h50 **N.K. Hillier,** A.R. Rizzato, and C. MacKay. Acadia University – Pheromone communication in *Helicoverpa punctigera*
- 15h10 Pause-café/Coffee Break
- 15h30 **R. Isitt,** K. Bleiker, D. Pureswaran, K. Hillier, D. Huber. University of Northern British Columbia – Geographical variation in the aggregation pheromone blend of the spruce beetle, *Dendroctonus rufipennis*
- 15h50 **D. Pureswaran.** Natural Resources Canada, Canadian Forest Service – Bark beetle chemical ecology – Canadian contributions to a dynamic research domain
- 16h10 **C. MacKay,** J. Sweeney, N.K. Hillier. Natural Resources Canada, Canadian Forest Service – Olfactory receptor neuron responses of a longhorned beetle, *Tetropium fuscum* (Fabr.) (Coleoptera: Cerambycidae), to pheromone, host, and non-host volatiles
- 16h30 **J. Sweeney,** P. Silk, R. Webster, C. Hughes, L. Flaherty, G. Pohl, D. Langor. Natural Resources Canada, Canadian Forest Service – Application of pheromones and host volatiles for early detection of exotic and potentially invasive wood boring beetles in urban landscapes
- 16h50 **N.K. Hillier.** Acadia University – Wrap up.
- 13h30-17h00 **Symposium: Entomology Museums in Canada: Status, Concerns, and Potential** *Caf Conc*
- 13h30 **P. Bouchard,** M. Saeidi. AAFC, Canadian National Collection of Insects, Arachnids and Nematodes – An automated, user friendly tool to generate high resolution 3D images of pinned insect specimens
- 14h00 **J. Heron.** B.C. Ministry of Environment. Species Conservation Science Unit – COSEWIC status assessments using museum and survey data: uses, gaps and recommendations
- 14h30 **R. Hébert.** Environment Canada, Canadian Wildlife Service – The use of museum data in conservation status assessments of species
- 15h00 Pause café/Coffee Break
- 15h30 **D. Shorthouse.** Université de Montréal – Collector networks, expert directories, and altmetrics: Museum data potential in the aggregate
- 15h45 **L. Packer.** York University – W(h)ither university-based taxonomic research



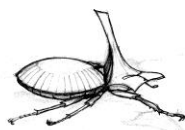
- 16h00 **B. Brunet**. Museums & Collections Services, University of Alberta – There's no place like home: tailoring a collection's search site to suit local needs
- 16h30 **C.S. Sheffield**. Royal Saskatchewan Museum – My First Three Years as a Curator at a Provincial Museum

13h30-17h00 **Prix du Président : Comportement / President Prize: Behaviour** Salon Viger A

- 13h30 **C.B. Baines**, S.J. McCauley, L. Rowe. University of Toronto – Understanding the role of individual phenotype in determining dispersal behaviour
- 13h45 **H. Crozier**, D. Moreau, N. Kirk Hillier. Acadia University – Olfactory and behavioural responses of *Drosophila suzukii* to volatiles produced from fruit of mid and late season cultivars of *Vaccinium corymbosum*
- 14h00 **C. Eichorn**, M. Hrabar, E. Van Ryn, B. Brodie, D. Altshuler, A. Blake, G. Gries. Simon Fraser University – Flirting on the fly - mate-location cues of common green bottle flies
- 14h15 **M. Gaudreau**, P.K. Abram, J. Brodeur. IRBV, Université de Montréal – When host color matters for egg parasitoids
- 14h30 **M. Holl**, G. Gries. Simon Fraser University – The "fly factor" revisited
- 14h45 **A. Leblanc**, J. Brodeur. IRBV, Université de Montréal – Functional response inference of parasitoids under natural conditions
- 15h00 Pause-café /Coffee Break
- 15h30 **A.L. Dookie**, C. Young, J.E. Yack2. University of Ottawa and Carleton University – Whistle for your life: Caterpillar acoustic defences (*Amorpha juglandis*) startle avian predators.
- 15h45 **D. Peach**, R. Gries, H. Zhai, G. Gries. Simon Fraser University – Do multi-modal foraging cues attract mosquitoes (Diptera: Culicidae) to flowers?
- 16h00 **C. Scott**, G. Gries. Simon Fraser University and University of Toronto – Factors affecting web reduction behaviour, a mate-monopolization tactic of male western black widow spiders
- 16h15 **C. Yadav**, S. Matheson, J. Yack. Carleton University – Come and Join Me: Use of vibrational signaling for recruitment in group-living caterpillars
- 16h30 **N. Derstine**, R. Gries, S. Ibarra Jimenez, G. Gries. Simon Fraser University – Caste-based cuticular hydrocarbon profiles in multiple yellowjacket species (Hymenoptera: Vespidae)
- 16h45 **M. Hrabar**, H. Zhai, R. Gries, R. Britton, P. Schaefer, G. Gries. Simon Fraser University – Sexual communication in *Xenos peckii* (Strepsiptera: Xenidae), a parasitoid of the paper wasp *Polistes fuscatus*

13h30-16h30 **Prix du Président : Lutte biologique / President Prize: Biological Control** Salon Viger B

- 13h30 **J. Augustin**, G. Boivin, G. Bourgeois, J. Brodeur. IRBV, Université de Montréal and AAFC, St Jean sur Richelieu – Patch exploitation at infra- and supra-optimal temperature by a parasitoid wasp
- 13h45 **S. Barriault**, A.O. Soares, É. Lucas. UQAM – Développement du prédateur furtif aphidiphage *Leucopis*
- 14h00 **R. deJonge**, S. Smith, R. Bouchier. University of Toronto – The western cobalt beetle (*Chrysochus cobaltinus*): a potential 'native' biocontrol agent for dog strangling vine (*Vincetoxicum rossicum*)
- 14h15 **L. Des Marteaux**, B. Sinclair. University of Western Ontario – How does cold acclimation affect ion transport function and ultrastructure of the insect hindgut?



Lundi / Monday

- 14h30 **D. Fernández**, H. Cárcamo, R. Laird. AAFC and University of Lethbridge – Host plant effects: parasitism success of *Peristenus digoneutis* on lygus bugs in canola and alfalfa
- 14h45 **Y. Francoeur**, M. Fournier, É. Lucas. UQAM – Évaluation de deux nouveaux agents de lutte biologique contre le puceron de la digitale
- 15h00 Pause-café /Coffee Break
- 15h30 **J.P.S. Leung**, J.S. Cory, J.T Kabaluk, A.F. Janmaat. Simon Fraser University – Can pheromone enhance the transmission of *Metarhizium brunneum* in *Agriotes obscurus* click beetles?
- 15h45 **J.-P. Parent**, J. Brodeur, G. Boivin. IRBV, Université de Montréal and AAFC, St Jean sur Richelieu – Thermal dilation of time: Impact of temperature on time perception in a parasitoid
- 16h00 **M. St-Laurent**, S. Tellier, V. Fournier. Université Laval – Enhancing biological control of spider mites in high tunnel raspberries: banker plants, food supplement for predators and misting
- 16h15 **D. Quach**, T. Richardson, J. Cory. Simon Fraser University – Predatory earwigs (*Forficula auricularia*) as biocontrol agents in apple orchards

13h30-16h45 **Prix du Président : Écologie forestière / President Prize: Forest Ecology** Viger C

- 13h30 **J.-M. Béland**, É. Bauce, C. Hébert, C. Cloutier. Université Laval – La colonisation de sapin baumier (*Abies balsamea* (L.) Mill.), par les coléoptères xylophages, suite à la défoliation par l'arpenteuse de la pruche (*Lambdina fuscicornis fuscicornis* (Guen.))
- 13h45 **J.M. Gaudon**, S.M. Smith. University of Toronto – Integrating native parasitoids to manage invasive species in urban forests
- 14h00 **A. Heustis**, S. Heard, D. Pureswaran. University of New Brunswick – Invasion success: The brown spruce longhorn beetle
- 14h15 **S. Legault**, P.M.A. James. Université de Montréal – Can parasitoids keep up with northward expansion of the spruce budworm?
- 14h30 **M. MacDonnell**, S. Heard, R. Johns. University of New Brunswick – When outbreaks collide: Interactions between an invasive beetle and a native defoliator on red spruce
- 14h45 **C. Plenzich**, E.Despland. Concordia University – Should I stay or should I go? Host plant quality mediated trade-off decisions in the forest tent caterpillar
- 15h00 Pause-café /Coffee Break
- 15h30 **O. Pontbriand-Paré**, P.M.A. James, V. Martel. Université de Montréal – Influence of landscape structure on eastern spruce budworm (*Choristoneura fumiferana*) associated parasitoid communities.
- 15h45 **X. Prairie**, D. Pureswaran, C. Hébert, L. de Grandpré, D. Kneeshaw. UQAM – Influence de la Tordeuse des bourgeons de l'épinette (*Choristoneura fumiferana*) sur la colonisation des conifères par les coléoptères saproxyliques
- 16h00 **A.M. Solecki**, S. Clout, C. Garrido Cortes, E. Richard, C. Trombley, N. Welch, C. Xavier-Blower M.A. Smith. University of Guelph – Impacts of forestry on Diptera in Algonquin Park, Ontario
- 16h15 **M. Thibault**, G. Moreau. Université de Moncton – Plantation thinning strategies to promote primary beetle colonizers: how much deadwood is enough?
- 16h30 **P. MacDonald**, J. Myers, J. Cory. Simon Fraser University - How climate and host behaviour influence nucleopolyhedrovirus infection dynamics in the western tent caterpillar

17h00-18h00 Session d'affiches étudiantes / Students poster session Salle de bal

18h00-19h00 AGA des membres de la SEQ / ESQ AGM Viger C



19h00-23h00 Réception du Président / President Reception

Maisonneuve BC

19h00-23h00 Cocktail étudiant / Students mixer

Maisonneuve D

**Mardi 10 novembre / Tuesday, 10 November**

7h45-16h30 Inscriptions / Registrations

8h30-9h30 Session plénière / Plenary session: **Jessica Hellman**, University of Minnesota.  
Conserving insect diversity in the Anthropocene

Salle de bal

9h25-12h30 **Symposium: Causes and Consequences of Arthropod Diversity in a Changing World** Salle de bal9h25 **J-P. Lessard**. Concordia University – Introduction9:30 **C.M. Buddle**, C.M. Ernst. McGill University – Benchmarks and barometers: the functional and taxonomic diversity of arthropods in northern Canada10h00 **S. McCauley**, J. Hammond, K. Mabry. University of Toronto – Effects of environmental warming on larval performance, phenology, and adult morphology in odonates

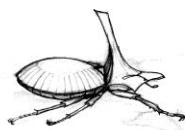
10h30 Pause-café /Coffee Break

11h00 **A. Nicolas**, D. Srivastava. University of British Columbia – Tropical forest fragmentation may reduce predation pressure and increase resources for treehole insect communities11h15 **A. Fairweather**, D. McAlpine, M.A. Smith. New Brunswick Museum and University of Guelph – The effect of anthropogenic disturbance on diversity and phylogenetic structure of ants11h30 **H.M. Kharouba**, L.H. Yang. University of California, Davis – The direct and indirect effects of warming on plant-insect interactions12h00 **J-P. Lessard**. Concordia University – Temperature shapes ant communities across scales9h30-12h30 **Symposium: Arctic Entomology: past, present and future**

Caf Conc

9:30 **S. Loboda**, J. Savage, T. Hoyer, C. Buddle. McGill University – Shifts in diversity and composition of Arctic fly assemblages over two decades of rapid warming in Greenland9h50 **R. Hansen**, T. Hoyer, J. Bowden. Aarhus University – Spatial variation in Greenlandic arthropods-The devil is in the details10h10 **E. Vajda**, B.J. Sinclair, T.A. Wheeler. McGill University – Taxonomic and functional diversity of arctic Rhamphomyia (Diptera)

10h30 Pause-café /Coffee Break

11h00 **L.E. Culler**, M.P. Ayres, R.A. Virginia. Dartmouth College – The influence of caribou on the population dynamics of mosquitoes in a warming Arctic11h20 **A.M. Solecki**, M.A. Smith, J.H. Skevington, T.A. Wheeler. McGill University and University of Guelph – Phylogeography of Diptera in northern Nearctic glacial refugia11h40 **E. Cameron**, C. Buddle. McGill University – The use of arthropods in ecological monitoring of the Canadian arctic: A case study in Cambridge Bay, Nunavut12h00 **A. Asmus**, A.M. Koltz, J.C. Moore, R. Simpson, G. Selby, K. Holfelder, L. Gough, G. Shaver. The University of Texas at Arlington – Arctic arthropod food web 4 years after an unusually severe tundra wildfire: restructured, but not destabilized12h20 **T. Wheeler**. McGill University – Summary

9h30-12h30 **Symposium: In Memory of Lloyd Dosdall: Ecology, Diversity and Management of Insects in Agroecosystems** Viger A

- 9:30 **H. Carcamo**. AAFC, Lethbridge – Introduction
- 9h35 **M. Furlong** – Biological control of diamondback moth: possible impacts of climate change
- 10h10 **P.G. Mason**, T. Haye, U. Kuhlmann, G.A.P. Gibson, D.R. Gillespie, L.M. Dosdall. AAFC, Ottawa – Biological control of the cabbage seedpod weevil: an international collaboration
- 10h25 **S. Kher**, Alberta Agriculture and Forestry – Biological control of the cereal leaf beetle with *Beauveria bassiana* and the parasitoid *Tetrastichus julis*: are they compatible?
- 10h40 Pause-café / Coffee Break
- 11h00 **O. Olfert**. AAFC, Saskatoon – Risk warning systems for IPM of insect pests in western Canada
- 11h15 **M. Evenden**, B. Mori, A. Wins-Purdy. University of Alberta – Mechanisms of mating disruption and other semiochemical research at the University of Alberta influenced by Dr Lloyd Dosdall
- 11h30 **H. Carcamo**. AAFC, Lethbridge – IPM of field crop insects in southern Alberta
- 11h45 **A.J. Blake**, M. Go, G. Gries. Simon Fraser University – Polarized light and host choice in *Pieris rapae*
- 12h00 **L. Vandervalk**, S. Hoover. Alberta Agriculture and Forestry, Lethbridge – Honeybee pollination of hybrid seed canola in southern Alberta
- 12h15 **P. Mason**, AAFC, Ottawa – Closing words.

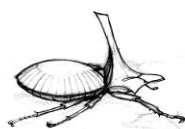
9h30-12h15 **Présentations régulières : Écologie forestière / Contributed talks: Forest Ecology** Viger B

- 9h30 **M. Barrette**. Ville de Montréal – Biological control of emerald ash borer in natural woodlots of an urban area: the case of Montréal
- 9h45 **A. Fuentealba**, E. Despland, D. Pureswaran, É. Bauce. Concordia University and Université Laval – Black spruce resistance to spruce budworm: the role of phenological synchrony and foliar traits
- 10h00 **C.J. Garroway**, L Lumley, B.M.T. Brunet, R.C. Johns, M. Cusson, P.M.A. James. Université de Montréal – Distinguishing the drivers of spatial synchrony in irruptive populations using landscape genomics
- 10h15 **P.M.A. James**. Université de Montréal – Modelling spruce budworm dispersal using spatio-temporal analysis of moth capture data
- 10h30 Pause-café / Coffee break
- 11h00 **C. Hébert**, V. Martel, R. Johns. Natural Resources Canada, Canadian Forest Service – Do Mimic sprays used against the spruce budworm have an impact on non-target Lepidoptera?
- 11h15 **J.J. Moneris**, L. De Grandpré, D.S. Pureswaran, D. Kneeshaw. UQAM and Natural Resources Canada, Canadian Forest Service – Seedling strategies to compensate long term defoliation and avoid carbon starvation in two boreal conifer species
- 11h30 **L. Rousseau**, L. Venier, T. Handa. UQAM – Impacts of the biomass harvesting for bioenergy on soil mesofauna communities in the Canadian boreal forest
- 11h45 **W. Strong**, B. Jaquish. BC Ministry of Forests, Lands, and Natural Resource Operations. Host-tree selection by adult Spruce Budworm: adventures and misadventures
- 12h00 **B. Van Hezewijk**. Natural Resources Canada, Canadian Forest Service – Why don't budworm go extinct? The effect of generalist predators on low-density populations





- 9h30-12h30 **Présentations régulières : Gestion des ravageurs /Contributed talks: Pest Management** *Viger C*
- 9h30 **A. Abdelghany**, P. Fields. AAFC, Winnipeg – Diatomaceous earth to control stored-product insects
- 9h45 **S. Boquel**, X. Nie, C. Goyer, Y. Pelletier. AAFC, Fredericton – Insecticides and mineral oil effect on aphid behavior and PVY acquisition
- 10h00 **D. Cormier**, F. Pelletier, F. Vanoosthuyse, G. Chouinard, R. Joannin. IRDA – Un modèle pour visualiser l’impact des insecticides sur les populations d’un ravageur
- 10h15 N. Faraone, N.K. Hillier, **G.C. Cutler**. Dalhousie University – Plant essential oils synergize and antagonize toxicity of different conventional insecticides against *Myzus persicae*
- 10h30 Pause-café /Coffee break
- 11h00 **N. Dedovic**. Ville de Montréal – Urban challenges for an integrated pest management at the City of Montréal
- 11h15 **P. Fields**, A. Abdelghany. AAFC, Winnipeg – Stored-product insects controlled with low temperatures in a flour mill
- 11h30 **S.Kher**, D. Itenfisu, S.Meers. Alberta Agriculture and Forestry, Government of Alberta – Near-real time weather based pest forecasting: The Alberta Perspective
- 11h45 **G. Labrie**, A-E. Gagnon, A. Latraverse, A. Vanasse. CÉROM – Impact of neonicotinoids on wireworms presence and incidence during four years in Quebec corn fields
- 12h00 **I.M. Scott**, L.A. Cáceres, S. Challa, A. Hannoufa, M.W. Sumarah. AAFC, London – Over-expression of selected plant volatiles: Can we build a better trap crop?
- 12h15 **R. Vernon**, W. van Herk. AAFC, Agassiz – A reduced risk companion planting attract-and-kill approach for wireworm management in potatoes
- 12h30-13h30 Lunch
- 12h30-13h30 Atelier Cambridge: Que veulent les éditeurs? / Workshop Cambridge : What do publishers want?  
by **J. Saguez, K. Floate, D. Edwards** *Viger C*
- 13h45-17h00 **Symposium: Causes and Consequences of Arthropod Diversity in a Changing World** *Salle de bal*
- 13h45 **G. Moreau**, C. Comeau, F. Horgan, J-P. Michaud, J-P. Privé, M. Thibault. Université de Moncton – The fuzzy link between insect diversity and ecosystem services in heterotrophic systems.
- 14h00 **J. Kerr**. University of Ottawa – Climate change impacts on bumblebees converge across continents
- 14h30 **M. Meehan**, Z. Lindo. University of Alberta – The effect of patch configuration disturbance for the recolonization of mesofauna
- 14h45 **P. Manning**, E. Slade, S. Beynon, O. Lewis. University of Oxford – Functionally rich dung beetle assemblages are required to provide multiple ecosystem services
- 15h00 Pause-café / Coffee Break
- 15h30 **T. Handa**. UQAM – Can functional traits of arthropods help us understand global change?
- 16h00 **P-M. Brousseau**, D. Gravel, I.T. Handa. UQAM – Functional traits related to feeding interactions of litter-dwelling forest arthropods
- 16h15 **D. Pureswaran**, L. De Grandpré, D. Paré, D. Kneeshaw. Natural Resources Canada, Canadian Forest Service – Insect outbreaks and regime shifts in northern ecosystems due to climate change
- 16h45 Closing remarks and discussion



13h30-17h10 **Symposium: Impact of Invasive Insects on the Canadian Landscapes**

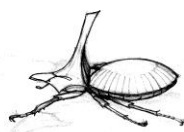
*Caf Conc*

- 13h30 **R.H. Hallett**, J.M. Renkema, R. Buitenhuis, A. Frewin. University of Guelph – Challenges presented by the swede midge, an invasive pest of crucifers
- 13h55 **T.D. Gariepy**, T. Haye, H. Fraser. AAFC, London – Occurrence and genetic diversity of the brown marmorated stink Bbug (*Halyomorpha halys*) in recently invaded areas
- 14h20 **N.K. Hillier**, C. Little, H. Crozier, S. Goreham, L. Thomas, D. Moreau. Acadia University – Choosey flies – development of attractants for spotted wing *Drosophila*
- 14h45 **B.A. Mori**, A. Whitner, E.H. Beers, P. Witzgall, P.G. Becher. Swedish University of Agricultural Sciences (Sweden) – Untangling the relationship between yeast and the invasive spotted wing *Drosophila*
- 15h00 Pause-café / Coffee Break
- 15h30 **J. Sweeney**, R. Johns, L. Flaherty, D. Pureswaran, S. Heard, K. Dearborn, A. Heustis, M. MacDonnell, M. Rhainds, W. MacKinnon. Natural Resources Canada, Canadian Forest Service – Brown spruce longhorn beetle: its biology and impact in Canada's forests
- 15h55 **R. Higgins**, S. McCann. Thompson Rivers University – The European fire ant (*Myrmica rubra*) in British Columbia: distribution, control and outstanding issues
- 16h20 **H. Cárcamo**. AAFC, Lethbridge – Ecology and management of cereal leaf beetle (*Oulema melanopus*) in the Canadian prairies
- 16h45 **A. St-Onge**, H. Cárcamo, M. Evenden. University of Alberta – The pea leaf weevil (*Sitona lineatus*): Occurrence and management in Canada

13h30-17h00 **Symposium: Canada and its Insect Fauna: 35 years later**

*Viger A*

- 13h30 **P. Bouchard**. AAFC, Canadian National Collection of Insects, Arachnids and Nematodes – Changes in the Canadian Coleoptera fauna over the last 35 years: overall patterns and future challenges
- 13h45 **G. Pohl**. Natural Resources Canada – The Lepidoptera of Canada – what don't we know?
- 14h00 **J. Fernandez-Triana**. AAFC, Canadian National Collection of Insects, Arachnids and Nematodes – Braconid wasps in Canada: diversity, ecology and use in biocontrol
- 14h15 **M. Schwarzfeld**. AAFC, Canadian National Collection of Insects, Arachnids and Nematodes – Canadian ichneumonid diversity: what we know and (especially) what we don't
- 14h30 **S. Cardinal**, C. Sheffield. AAFC, Canadian National Collection of Insects, Arachnids and Nematodes – Bee diversity in Canada
- 14h45 **D. Currie**. Royal Ontario Museum – Now and then: reflections on 35 years of black fly (Diptera: Simuliidae) research in Canada
- 15h00 Pause-café / Coffee Break
- 15h30 **B. Sinclair**. Canadian Food Inspection Agency – Empidoidea (Diptera) diversity in Canada
- 15h45 **T.A. Wheeler**. McGill University – Not 100: Counting up the chloropid flies of Canada
- 16h00 **J. Savage**. Bishop's University – Canadian Muscidae and Anthomyiidae: progress update and future directions
- 16h15 Session wrap up et
- 16h30 **D. Langor** (chair). Natural Resources Canada – Biological Survey of Canada special meeting

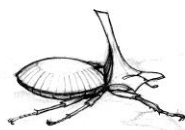


13h30-16h45 **Présentations régulières : Lutte biologique et agriculture / Contributed talks: Biological Control and Agriculture** Viger B

- 13h30 **A. Ameline**, F. Bogaert, G. Doury, M. Catterou, Q. Chesnais, C. Rambaud, F. Dubois. Université de Picardie Jules Verne (France) – Impact of nitrogen fertilization on the interaction between the bioenergy crop miscanthus and the corn leaf aphid, *Rhopalosiphum maidis* (Fitch) (Hemiptera: Aphididae)
- 13h45 **S. Blatt**, M. McDonald, C. Scott-Dupree, J. Driscoll, A. Fortier. AAFC, Kentville – Status of *Delia* species in Eastern Canada
- 14h00 **R. Bouchier**, B. Van Hezewijk, F. Grevstad, J. Gaskin. AAFC, Lethbridge – Release of the biological control agent, *Aphalara itadori* for knotweed in Canada and performance on knotweed genotypes.
- 14h15 P. Mason, **A. Brauner**, J. Miall. AAFC, Ottawa – Keeping an eye on the little critters: release and post-release monitoring of a pupal parasitoid
- 14h30 **F. Fournier**, Collège Montmorency – Impact of Onion Maggot (*Delia antiqua*) male size on their longevity, mating capacity and competitiveness for their use in a sterile insect release program
- 14h45 **D. Gillespie**, P. Clarke, S. Yu, J. Thiessen. AAFC, Agassiz – Combined effects of carbon dioxide, warming and extreme heat on performance of a biological control community
- 15h00 Pause-café / Coffee Break
- 15h30 **R.J. Lamb**, M.A.H. Smith, I.L. Wise, R.I.H. McKenzie. AAFC, Winnipeg – Why are so many winter wheats from the eastern North America resistant to wheat midge?
- 15h45 **R. McGregor**, T. Stemberger, K. Crisp. Institute of Urban Ecology, Douglas College – Do thrips on flowers control berry destiny? Damage on developing day-neutral strawberries predicted marketability at pick-time
- 16h00 **T. Nagalingam**, N.J. Holliday. University of Manitoba – Responses of navy beans to *Lygus lineolaris* (Hemiptera: Miridae) injury in controlled conditions
- 16h15 **H. Thistlewood**, B. Rozema, S. Acheampong. AAFC, Summerland – Seasonal dynamics of *Drosophila suzukii* (Diptera: Drosophilidae) on cherries and non-crop plants in British Columbia interior valleys, 2010-2014
- 16h30 L. Andreassen, **J. Soroka**. AAFC, Saskatoon – Prairie swede midge parasitoids as potential biological control agents in eastern North America

13h30-16h45 **Présentations régulières : Biodiversité et conservation / Contributed talks: Biodiversity and Conservation** Viger C

- 13h30 **L. Gelling**. BC Ministry of Environment – Habitat associations of the endangered Oregon Branded Skipper on southern Vancouver Island, British Columbia
- 13h45 **J.F. Gibson**, S. Shokralla, C. Curry, I. King, D.J. Baird, M. Hajibabaei. Biodiversity Institute of Ontario, University of Guelph and Environment Canada, Burlington – Biomonitoring boreal wetlands using environmental DNA barcoding and high throughput sequencing
- 14h00 **R. Hébert**. Environnement Canada – Espèces sauvages : la situation générale des espèces au Canada
- 14h15 **J. Kits**, T. Martin, S. Cardinal. AAFC, Canadian National Collection of Insects, Arachnids & Nematodes – Diversity and prevalence of viruses in native bees
- 14h30 **A. Namayandeh**, R.B. Brua, J.M. Culp. Environment Canada – Importance of Chironomidae (Insecta:Diptera) assemblages in aquatic biomonitoring of large river. Do midges make a difference in biomonitoring?
- 14h45 **A. Pindar**, M. Tonge, N. Raine. University of Guelph – Native pollinators in Ontario Agriculture



## Mardi / Tuesday

- 15h00 Pause-café / Coffee Break
- 15h30 **J. Rykken**. Museum of Comparative Zoology, Harvard University – Alpine arthropods on the Uapishka plateau, Québec: documenting patterns of biodiversity and developing protocols for rapid assessment
- 15h45 **O. Samson-Robert**, M. Chagnon, V. Fournier. Université Laval – Can a honeybee waterer mitigate the risk of poisoning from contaminated water?
- 16h00 **L. Timms**. Credit Valley Conservation – Impediments to invertebrate conservation: a Canadian perspective
- 16h15 **C. Uherek**, W. Tonn, H. Proctor, K. Howland. University of Alberta – Assessing effects of habitat manipulation on invertebrates in an Arctic barrenlands stream
- 16h30 **M.A. Smith**. Guelph University – Elevation, crypsis and phylogenetic community structure of Neotropical arthropods
- 17h00-18h00 AGA des membres de la SEC / ESC AGM *Caf Conc*
- 18h00-18h30 Réunion du CA de la SEC / ESC Governing Board Meeting *Caf Conc*
- 18h00-19h30 Session d'affiches régulière / Regular poster session & Cocktail *Viger ABC*
- 19h30-23h00 Banquet *Salle de bal*

## Mercredi 11 novembre / Wednesday, 11 November

- 7h45-10h00 Inscriptions / Registrations
- 8h30-9h30 Session plénière / Plenary session: **May Berenbaum**, University of Illinois at Urbana-Champaign  
*Apis mellifera* – can a six-million-year-old genome survive the Anthropocene? *Salle de bal*
- 9h30-12h30 **Symposium: Host Associations and the Diversification of Insects** *Salle de bal*
- 9h30 **G. Fagua**, F. Sperling. University of Alberta – Time, host specialization and diversification in the spruce budworm species complex (Tortricidae: Archipini)
- 10h00 **Y.M. Zhang**, D.C. Fernández, B.J. Sharanowski. University of Manitoba – Host preference and speciation within the *Peristenus pallipes* (Hymenoptera: Braconidae) complex
- 10h30 Pause-café / Coffee break
- 11h00 **J.J. Mlynarek**, S.B. Heard. University of New Brunswick – Exploring host associations and diversification of Astereae (Asteraceae) leaf miners
- 11h15 **C.E. Moffat**, S.B. Heard. University of New Brunswick – Testing model predictions for insect host shifts, divergence and speciation
- 11h45 **V.A.D. Hervet**, R.A. Laird, K.D. Floate. University of Lethbridge – Multitrophic interactions influencing parasitism success and larval development of the parasitoid wasp *Cotesia vanessae*
- 12h00 **M. Cenzler**. University of California Davis – Adaptation to an invasive host collapses a native ecotype in soapberry bugs
- 9h30-12h30 **Symposium: Egg Parasitoids in Forestry: Perspectives and Constraints** *Caf Conc*
- 9h30 **G. Boivin**, V. Martel. AAFC, St Jean sur Richelieu – Using Trichogramma in forestry: challenges and opportunities
- 10h00 **J. Régnière**. Natural Resources Canada – Population dynamics and ecology of Trichogramma and SBW
- 10h30 Pause-café /Coffee break



- 11h00 **S.M. Smith**. University of Toronto – Historic of the use of *Trichogramma* in forestry, focusing on the spruce budworm
- 11h30 **G. Sempo, J. Rattanatip**, T. Hance. Université libre de Bruxelles, Université catholique de Louvain (Belgique) – Potential use of artificial hosts for mass rearing
- 12h00 **S. Todorova**. Anatis Bioprotection – Progress and challenges of *Trichogramma* mass rearing and application
- 9h30-11h45 **Symposium: Arthropod Diversity Informatics in the Anthropocene** *Viger A*
- 9h30 **D. Shorthouse**. Université de Montréal – APIs are relevant and useful for Entomology. An Anthropocene #LiveHack
- 9h45 **K.G.A. Hamilton**. AAFC, Ottawa – Making the best use of your valuable time and resources: experiences barcoding the Hemiptera-Auchenorrhyncha
- 10h00 **É. Normandin**, C. Favret. Université de Montréal – Thinking differently for insect collections: Profiling data, inventory and outreach projects
- 10h15 C. Dietrich, J. Hart, N. Sobh, U. Ravaioli, D. Raila, **B. Morris**. University of Illinois at Urbana-Champaign – InvertNet: a new paradigm for digital access to invertebrate collections
- 10h30 Pause-café /Coffee break
- 11h00 **M. Yoder**, M. Twidale, C. Nixon, K. Guo, A. Thomer. University of Illinois – Are insect taxonomists systematic- and should they be?
- 11h15 **N. Franz**, B. Ludäscher, S. Bowers, E. Gilbert. Arizona State University – Logic resolution of the taxonomic variable for evolutionary and biodiversity information environments
- 11h30 **C. Favret**, J.M. Sieracki. Université de Montréal – Increased taxon sample and dataset size for automated insect identification
- 9h30-12h30 **Présentations régulières : Comportement et physiology / Contributed talks : Behaviour and Physiology** *Viger B*
- 9h30 **H. Proctor**. University of Alberta – Behaviour of the enigmatic harvestman-like mites, Opilioacaridae
- 9h45 **M. Cusson**, C. Béliveau, M. Brandão, D. Doucet, F. Wen, F. Sperling, B. Boyle, R. Levesque, L. Lumley, K. Dewar, N. Juretic. Natural Resources Canada, Canadian Forest Service – Transcriptional analysis of diapause induction in the spruce budworm
- 10h00 **C.D. Kelly**, D.T. Gwynne. UQAM – Effect of body condition on immunity, mate searching and copulation in male New Zealand giant weta
- 10h15 **M. Fournier**, É. Lucas. UQAM – Voracity of some ladybugs on the long-tailed mealybug (*Pseudococcus longispinus*)
- 10h30 Pause-café /Coffee break
- 11h00 **A. Groulx**, J. Forrest. University of Ottawa – Nesting aggregation as a determinant of brood parasitism in mason bees (*Osmia* spp.).
- 11h15 **J. Ethier**, E. Despland. Concordia University – Why two types of males? Mate choice and flight behaviour in the colour polymorphic *Malacosoma disstria* moth
- 11h30 **S. McCann**, O. Moeri, S. Ibarra Jimenez, C. Scott, G. Gries. Simon Fraser University – Evidence for interspecific alarm pheromone recognition in three species of *Vespula*
- 11h45 **M-È. Picard**, A. Barbar, A. Nisole, C. Béliveau, S. Sen, R. Shi, M. Cusson. Université Laval – Structural characterization of an enzyme involved in the spruce budworm juvenile hormone biosynthetic pathway



12h00 **R. Royauté**, N.A. Dochtermann. North Dakota State University – Effect of diet quality on personality differences in the house cricket (*Acheta domestica*)

12h15 **J. Saguez** – When insects invade our daily life...

9h30-12h15 **Présentations régulières : Systématique et biologie moléculaire / Contributed talks:  
Systematics and Molecular Biology**

Viger C

9h30 **M.A. Erlandson**, C. Coutu, J. Holowachuk, T. Gareipy, D.D. Hegedus. AAFC, Saskatoon – Developing Genotyping-By-Sequencing strategy for characterizing *Mamestra configurata* populations

9h45 **G.S. Blackburn**, B.M.T. Brunet, L.M. Lumley, F.A.H. Sperling. University of Alberta – Landscape genetics of divergence-with-gene-flow in the *Choristoneura* budworm complex

10h00 **S. Cardinal**. AAFC, Canadian National Collection of Insects, Arachnids and Nematodes – Utility of restriction-site associated DNA sequencing for inferring bee phylogeny

10h15 **F. Sperling**, J. Dupuis. University of Alberta – Butterflies and operational species in conservation biology

10h30 Pause-café / Coffee break

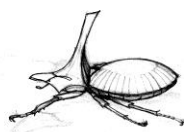
11h00 **L. Freschi**, A. Djoumad, D. Steward, C. Béliveau, J. Lamarche, I. Kukavica-Ibrulj, M. Cusson, R.C. Hamelin, R.C. Levesque. Université Laval – Genomic analyses reveal new insights on Gypsy Moth evolution and allow the detection of alien sub-species

11h15 **S. Kamenova**, M.A. Smith. University of Guelph – High-throughput molecular tools for characterizing spruce budworm-parasitoid food web

11h30 **S. Picq**, J. Laroche, L. Lumley, E. Pouliot, B. Boyle, R.C. Lévesque, M. Cusson. Natural Resources Canada, Canadian Forest Service – A high density genotyping by sequencing map of spruce budworm and its contribution for assessing synteny and chromosomal evolution in Lepidoptera

11h45 **B.J. Sinclair**, J. Toxopeus, R. Jakobs, L.V.Ferguson, T.D. Garipey. Western University – Dissecting the winter morph of *Drosophila suzukii*

12h00 **F. Beaulieu**, J.J. Beard. AAFC, Canadian National Collection of Insects, Arachnids and Nematodes – If acarine biocontrol agent *Neoseiulus californicus* (McGregor) was misnamed for 50 years, what is its valid name, and what is the real *N. californicus*?



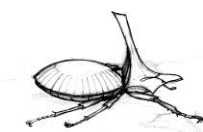
## Liste des affiches / List of posters

### Affiches étudiantes / President Prize Posters

Lundi 9 novembre / Monday, 9 November, 17h00-18h00

Salle de bal

1. **L.T. Agostini**, T. T. Agostini, R. A. Polanczyk. Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto da Universidade de São Paulo, USP – Susceptibility of two Brazilian populations of *Helicoverpa armigera* (Hübner) (Lepidoptera: Noctuidae) to entomopathogenic fungus *Beauveria bassiana*, *Metarhizium rileyi* e *Metarhizium anisopliae*.
2. **J. Augustin**, G. Bourgeois, D. Plouffe. IRBV, Université de Montréal and AAFC, St Jean sur Richelieu – A second population of codling moth in Quebec?
3. **C. Bailey**, C. Sheffield, M. Brigham. University of Regina – Investigating pollinator assemblage and pollination effectiveness of *Prunus x kerrasis*, Dwarf Sour Cherry (Rosaceae) in Saskatchewan
4. **R. Castro-Torres**, C. Llanderal-Càzares. Colegio de Postgraduados – Redescription of the morphology of all the life stages of the agave red worm (Lepidoptera: Cossidae).
5. K. Bassett, **A. Chaulk**, T.W. Chapman. Memorial University of Newfoundland – Snowshoe Hare Virus detected in mosquitoes on the Island of Newfoundland, 30 years later.
6. **A. Dobai**, J.E. Yack. Carleton University – Acoustic Communication in Bark beetles (Scolytinae): A new perspective on what we already know and what is left to learn.
7. **C. Frédette**, O. Pontbriand-Paré, P.M. A. James. Université de Montréal – Variation spatiale des communautés d'hyménoptères parasitoïdes de la tordeuse des bourgeons de l'épinette au Québec.
8. **S. D. Frier**, C. M. Somers, C. S. Sheffield. University of Regina and Royal Saskatchewan Museum – Bumble bees do it better: the importance of wild bees for the pollination of Haskap crops.
9. **A.Gervais**, M.Bélisle, V.Fournier. Université Laval – Impact of agricultural intensification on bumblebee communities: preliminary results from a 10-year survey in Southern Quebec.
10. **P.P. Castro-Grillo**, T. Théry, M. Warmund, C. Favret. Université de Montréal – Gall morphology and DNA barcodes validate *Phylloxera spinosa* within the *Phylloxera caryaecaulis* species complex (Hemiptera: Phylloxeridae).
11. J. Bowden, A. Eskilsen, **R. Hansen**, K. Olsen, C. Kurly, T. Hoye. Aarhus University – High Arctic butterflies become smaller with rising temperatures.
12. **I. Higgins**, B.W. Murray, and L.M. Poirier. University of Northern British Columbia – Carabid biodiversity in disturbed and undisturbed Interior Cedar Hemlock habitats of British Columbia.
13. **K. Hunter**, A. Gradish, H. Fraser, T. Gariepy, T. Baute, C. Scott-Dupree. University of Guelph – On the Move: 2015 Survey Results of Brown Marmorated Stink Bug in Ontario.
14. D. Poinapen, **J.K. Konopka**, J.U. Umoh, C.J.D. Norley, J.N. McNeil, D.C.W. Brown, D.W. Holdsworth. University of Western Ontario and AAFC, London – Non-invasive live insect imaging made possible using CO<sub>2</sub> general anesthesia and micro-CT.
15. **J. Lemay**, C. Scott-Dupree, M.R. McDonald. University of Guelph – How can we improve control of Carrot Rust Fly (*Psila rosae* Fab.)?



## Affiches/Posters

16. **A. A. Lindeman**, K. R. English, J. E. Yack. Carleton University – An acoustic automated species identification system for three sympatric bark beetles.
17. **P. Loughran**, A. Gradish, L. Knopper, C. Cutler, C. Scott-Dupree. University of Guelph – What you seed is what you get: Investigating *Bombus impatiens* colony development on three flowering plants: buckwheat, red clover, and *Phacelia tanacetefolia*.
18. **G. MacInnis**. McGill University – Measuring the pollination efficiency of wild and managed bees with macro photography.
19. **McCune**, P. Bonneau, S. Tellier, V. Fournier. UQAR et Université Laval – Aphid diversity in strawberry fields from Quebec area.
20. **E. McGrath**, E. Despland. Wesleyan University – Plant use by pollinators in unmaintained urban plots of Montreal.
21. **E. Ménard**, F. Vanoosthuyse, A. Firlej, D. Cormier. IRDA – Is there an effective organic pesticide against the tarnished plant bug in strawberry crop?
22. **S. Sagne**, A. Fuentealba Morales, D. Pureswaran, E. Despland, E. Bauce. Concordia University – Needle traits affect pre-budburst mining success of spruce budworm larvae.
23. **N. Srei**, R. Lavallée, C. Guertin. INRS-Institut Armand-Frappier –Effect of *Beauveria bassiana* INRS-CFL on reproductive biology of Eastern Larch Beetle, *Dendroctonus simplex* LeConte.
24. **K. Tougeron**, J. van Baaren, J. Brodeur, C. Le Lann. Université de Rennes, CNRS, Université européenne de Bretagne (France) and IRBV, Université de Montréal – Are parasitoids from mild winter climates losing their diapause?
25. **A. Turcotte**, F. Vanoosthuyse, C. Provost, G. Chouinard, D. Plouffe, G. Bourgeois, D. Cormier. IRDA – Abundance and Infestation incidence of apple leaf curling midges, *Dasineura Mali* (Keif.)
26. **E. Vajda**, B.J. Sinclair, T.A. Wheeler. McGill University – Taxonomic tools for understanding arctic Diptera diversity: the northern Rhamphomyia.
27. **R.W.M.U.M Wanigasekara**, A.F.H Flérez, B.J Sharanowski. University of Manitoba – An identification key to hymenopteran parasitoids on cutworms in field crops in the Canadian Prairies.
28. **V. Simkovic**, J.N. McNeil, G. Thompson. Western University – Testing for the presence of nestmate recognition, territoriality and aggression in the eastern subterranean termite (*Reticulitermes flavipes*).





**Affiches régulières / Contributed Posters**

Mardi 10 novembre / Tuesday, 10 November, 18h00-19h30

Viger ABC

29. M. Smirle, C. Zurowski, **M.M. Ayyanath**, Ian Scott, K. MacKenzie. AAFC, Summerland – The susceptibility of *Drosophila suzukii* (Matsumura) (Diptera: Drosophilidae) populations from British Columbia, Canada, to selected insecticides.
30. **D.R. Bourne**, D.V. Beresford, C. Kyle. – A Rapid, Non-invasive, Accurate Insect Measuring Method via Digital Image Analysis
31. **A. Chaulk**, T.W. Chapman. Memorial University of Newfoundland – Culicids on the move: a population genetics study of *Aedes japonicus japonicus*, a novel vector species in Newfoundland, Canada
32. **G. Chouinard**, F. Pelletier. IRDA – Protection des pommiers: deux décades de développement de la Production fruitière intégrée dans les vergers du Québec.
33. **G. Chouinard**, D. Cormier, F. Pelletier. IRDA – Petite histoire de la production fruitière intégrée dans les vergers du Québec: quinze ans d'avancées agroenvironnementales au bénéfice de la collectivité.
34. **A. C. Costamagna**, C. MacCartney, S. Wolfe, I. Wise. University of Manitoba – Progress in screening for wheat midge resistance.
35. **R. De Clerck-Floate**. AAFC, Lethbridge – Introducing a new biocontrol agent, *Rhinusa pilosa* (Curculionidae) against yellow toadflax in Canada.
36. **F. Dumont**, C. Provost. CRAM Mirabel – Aménagement d'une bande florale afin de réduire l'abondance de la coccinelle asiatique dans les vignobles à la récolte.
37. **B. Dunlop**, D. Ostrander, R. Bouchier. AAFC, Brandon – Eat local? Comparison of source populations for establishment success of leafy spurge biocontrol agents.
38. S. Demers, K. Lanoue-Piché, **A. Firlej**, C. Lacroix, D. Choquette, J.-P. Légaré et J. Leblanc. IRDA – Comparison of baits for monitoring the spotted wing drosophila in raspberry fields.
39. G. Zhang, J. Hunter, **N. Franz**. Arizona State University – Systematics of Eustylini - Reclassifying the Exophthalmus genus complex (Curculionidae: Entiminae).
40. **A. Fuentealba**, É. Bauce. Concordia University and Université Laval – Interspecific variation in resistance of three host tree species to spruce budworm.
41. **S. Gillespie**, J. Wray, Elle, E. - Simon Fraser University – Bumblebee community composition and competition impacts reproduction of native and invasive plants.
42. **N.K. Hillier**, R. Rizzato<sup>1</sup>, C. MacKay, M. McGuire, S. Rose. Acadia University – Decoding evolution of pheromone communication in Heliothine moths.
43. **N. K. Hillier**, C. Little, H. Crozier, T. Chapman, P. Dixon, D. Moreau. Acadia University – Chemical ecology of spotted wing drosophila.
44. **D.P.W. Huber**, E.A. Yurkowski, D.J. Erasmus. University of Northern British Columbia – The caddisflies of the Crooked River, British Columbia.
45. **K. Jones**. University of Guelph – Staphilinid diversity along a neotropical elevation gradient.
46. **S. Kher**, D. Itenfisu, S.Meers. Alberta Agriculture and Forestry, Government of Alberta – A framework for the development of weather-based pest prediction models for Alberta.
47. **G. Labrie**, C. Vincent, P. Mason. CÉROM – Potential of control of *Brassicogethes viridescens* by natural enemies in Québec and Ontario canola fields.



## Affiches/Posters

48. **R.J. Lamb**, P.A. MacKay, A. Alyokhin. University of Manitoba – Estimating population variability of aphids: how many years are required?
49. **S. Lamothe**, L. Caron, C. Provost. CRAM Mirabel – Efficacité de différents filets comme méthode de lutte physique contre les insectes et impacts sur les conditions climatiques dans les grands tunnels.
50. **M. Laroche**, F. Dumont, V. Myrand, P. Lafontaine, C. Guertin, C. Provost. CRAM Mirabel – Évaluation de produits à faible risque et de biopesticides appliqués en bassinage des transplants pour lutter contre la mouche du chou (*Delia radicum*).
51. M. Solà, J. Riudavet, C. Castañea, **É. Lucas**. UQAM – Libération du parasitoïde *Habrobracon hebetor* par un système de Banker box pour la lutte contre les insectes ravageurs des denrées entreposés.
52. **C. MacKay**, J. Meating, E. Czerwinski, R. Johns, P. Silk, N.K. Hillier, J. Sweeney. Acadia University and Natural Resources Canada, Canadian Forest Service – Effectiveness of TreeAzin® as a control measure for *Orchestes fagi* (L.) (Coleoptera: Curculionidae).
53. S. Smith, S. Frye, **A. Mansour**. University of Toronto – Exploring community patterns of bees and wasps in the canopy and understory of an eastern deciduous mixed-wood forest.
54. J. Cossentine, S. Blatt, **P. Mason**, A. Brauner, J. Franklin, M. Robertson, T. Gariepy. AAFC, Ottawa – Understanding parasitism of *Dasineura mali* (Diptera: Cecidomyiidae) in Canadian apple orchards.
55. **P-O. Montiglio**, N. DiRienzo. University of California at Davis (U.S.A.) – There's no place like home: the contribution of direct and extended phenotypes on the expression of spider aggressiveness.
56. **A. Namayandeh**, K. Heard, E. Luikers, J. Culp. Environment Canada – Chironomidae (Insecta: Diptera) from the eastern Canadian Arctic and Subarctic.
57. **W. Nduwimana**. Huazhong Agricultural University (China) – Brown Planthopper (*Nilaparvata lugens* stal) feeding behavior on Rice in different Nitrogen dose and different varieties.
58. O. Doran, D. Giberson, **C. Noronha**. AAFC, PEI – Life history and bud damage caused by the rape pollen beetle, *Brassicogethes viridescens*, in a canola crop on Prince Edward Island.
59. **J.Otani**, A. Szeitz, A. Costamagna, H. Carcamo, T. Wist. AAFC, Beaverlodge – Sticking with flea beetles in canola: Examining species, thresholds and beyond.
60. **T. Poiré**, B. Gallant. Agence Canadienne d'Inspection des Aliments – L'importation d'arthropodes vivants: analyse de risques phytosanitaires et exigences réglementaires.
61. **S. Saha**, S. Ellsworth, T. Chapman. Memorial University of Newfoundland – Assessing the impact of liquid mink manure on the Lesser house fly population in Cavendish, NL.
62. M. Cambon, **F. Vanoosthuysse**, G. Charpentier, G. Chouinard, D. Cormier. IRDA – Development of a Sprayable Attracticide Against the Apple Maggot Fly, *Rhagoletis pomonella* (Walsh) (Diptera: Tephritidae).
63. C. Olivier, J. Saguez, T. Dumonceaux, J. Lasnier, **C. Vincent**. AAFC, St Jean sur Richelieu – Que transportent les cicadelles de la vigne au Québec?



## Prix de la SEC 2015 / 2015 ESC Awards



**Dr Jon Sweeney**  
Médaille d'or / Gold Medal



**Dr Cory Sheffield**  
Prix C. Gordon Hewitt / C. Gordon Hewitt Award



**Louis Handfield**  
Prix Norman Criddle / Norman Criddle Award



**Dr Charles Vincent**  
Membre Associé / Fellow



## Médaille d'or de la SEC 2015 – Dr Jon Sweeney

### Contributions à la Société d'entomologie du Canada

Dr Sweeney est un membre très actif de la SEC depuis 1981 et a contribué à différentes activités associées avec la Société : conseiller; représentant de la AES; éditeur thématique, de division et associé pour TCE; président du comité de l'adhésion, du comité organisateur de la réunion annuelle conjointe avec la ESA 1996; président du programme scientifique de la réunion annuelle conjointe avec la ESA 2014; co-président des prix du président à la réunion annuelle 2011; et juge pour les compétitions étudiantes à plusieurs réunions annuelles.

### Service pour le Service Canadien des Forêts, l'industrie forestière et les Canadien(ne)s

Dr Sweeney est un chef de file depuis plus d'une décennie dans les études sur l'écologie et la gestion du longicorne brun de l'épinette (*Tetropium fuscum*) (LBÉ) au Canada atlantique. Le LBÉ a été découvert en 1999 au parc Point Pleasant de Halifax, Nouvelle-Écosse. Cet insecte ravageur envahissant provient d'Europe et de l'ouest de la Sibérie et est actuellement le ravageur envahissant le plus destructeur en Nouvelle-Écosse. En 2000, Dr Sweeney était au front de l'établissement d'un réseau collaboratif afin de gérer l'invasion du LBÉ, impliquant des gens de l'Agence canadienne d'inspection des aliments (ACIA), des chercheurs du SCF du CFA et d'autres labos, et les gouvernements municipaux et provinciaux et l'industrie forestière de Nouvelle-Écosse. Dr Sweeney est un excellent représentant pour le Gouvernement du Canada, RNCan et le SCF et a la capacité d'expliquer des principes scientifiques complexes à des non-experts d'une façon qui n'est pas seulement instructive, mais aussi agréable pour son auditoire. Dr Sweeney a souvent donné des entrevues à la radio et à la télévision, et il s'est adressé au public dans de nombreux forums.

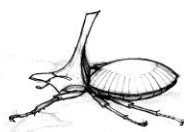
Jon a modifié ses recherches afin d'examiner plusieurs aspects mal compris de la biologie et de l'écologie du LBÉ, ce qui a facilité le développement de la détection, la surveillance et les techniques potentielles de lutte. Ces travaux ont produit un bon nombre d'articles de revues scientifiques et d'autres rapports sur le LBÉ et Dr Sweeney est devenu un expert recherché sur les espèces d'insectes envahissants. Il est fréquemment contacté par ses collègues qui recherchent son expertise et (idéalement) sa collaboration et a reçu de nombreuses invitations pour participer à des conférences et symposiums internationaux. Dr Sweeney est le président du comité scientifique du LBÉ, qui est le principal responsable du développement de mesures de mitigations des risques basés sur la science pour le LBÉ. Il est également le principal investigateur sur le programme de confinement du LBÉ.

### Prix

Les contributions du Dr Sweeney en écologie des insectes forestiers et en gestion des ravageurs, en particulier sur le LBÉ, lui ont valu un nombre de prix prestigieux. Il a été honoré par BioAtlantech et la communauté de biosciences du Nouveau-Brunswick avec le Prix de réalisations en biosciences du N.-B. 2013. Il a aussi reçu le prix au mérite du service canadien des forêts en reconnaissance de sa contribution exceptionnelle à la prise de mesures concernant les espèces forestières exotiques grâce à la collaboration et à la science, 2007; le prix au mérite du ministère de Ressources Naturelles Canada en reconnaissance de sa contribution exceptionnelle en Collaboration à la prise de mesures concernant les espèces forestières exotiques grâce à la collaboration et à la science, 2007; le prix de reconnaissance du Fredericton Meeting Planners en 1996.

### Supervision et mentorat

Dr Sweeney a supervisé un grand nombre de techniciens et biologistes, d'étudiants de premier cycle et gradués, ainsi que des postdocs. Il est un superviseur très pratique et croit dans les capacités et habiletés des gens qui travaillent avec et pour lui. Comme preuve de son efficacité de superviseur, plusieurs des étudiants et postdocs ayant travaillé pour lui ont des carrières réussies à l'université ou au gouvernement. Il est une des personnes les plus collégiales et populaires qui travaillent au laboratoire du SCF à Fredericton et a été un mentor et collaborateur de plusieurs techniciens et nouveaux scientifiques au Centre de foresterie de l'Atlantique. L'impact de Jon Sweeney sur l'avenir de la recherche entomologique dans l'est du Canada ne peut pas être surestimé.



## ESC Gold Medal – Dr Jon Sweeney

### Contributions to the Entomological Society of Canada

Dr. Sweeney has been an extremely active member of the ESC since 1981 and has contributed to a wide range of activities associated with the Society: Director at Large; Director representing the AES; Subject Editor, Division Editor, and Associate Editor of *TCE*; Chair of the Membership Committee; Chair of the Organizing Committee of the 1996 JAM of the ESC & AES; Chair of the Scientific Program of the 2004 JAM of the ESC and AES; Co-Chair of the President's Prize Graduate Student Awards, 2011 JAM of the ESC and AES; and a Judge for Graduate Student Paper Competitions at multiple JAM.

### Service to the Canadian Forest Service, the Canadian forest industry and Canadians

Dr. Sweeney has been the leader for more than a decade studying the ecology and management of the brown spruce longhorn beetle (*Tetropium fuscum*) (BSLB) in Atlantic Canada. BSLB, first discovered in 1999 in Point Pleasant Park, Halifax, NS, is currently the most destructive invasive pest of spruce in Nova Scotia. In 2000, Dr. Sweeney was at the forefront of establishing a collaborative network to address the invasion of BSLB, which involved people from the Canadian Food Inspection Agency (CFIA), CFS researchers from AFC and other CFS labs, and the local municipal and provincial governments and forest industry in Nova Scotia. Dr. Sweeney has been an excellent representative for the Government of Canada, NRCan and the CFS and has the ability to explain complex science principles that are comprehensible to non-experts and in a way that is not only enlightening but also enjoyable for his audiences. Dr. Sweeney was frequently interviewed on radio and television, and he addressed audiences at numerous public forums.

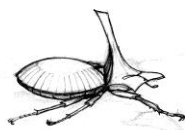
Jon shifted his research focus to examine many of the more poorly understood aspects of BSLB biology and ecology, which facilitated the development of detection, monitoring, and potential control techniques. This work produced a number of scientific journal articles and other reports on BSLB and Dr. Sweeney has become a sought-after expert on invasive insect species. He is frequently contacted by colleagues seeking his expertise and (ideally) collaboration and has received numerous invitations to speak at international conferences and symposia. Dr. Sweeney is the chair of the BSLB Science Committee, which is the main body responsible for the development of science-based risk mitigation measures for the BSLB. He is also the lead scientist on the BSLB containment program.

### Awards

Dr. Sweeney's contributions to forest insect ecology and pest management, in particular his work on BSLB, have also earned him a number of prestigious awards. He was honored by the BioAtlantech and the New Brunswick bio-science community with the "2012 New Brunswick Bio-sciences Achievement Award" in 2012. Other awards include: Merit Award in recognition for outstanding contribution in Collaboration and Partnership Addressing Alien Forest Species through Collaboration and Science, from CFS and from NRCan both in 2007; City of Fredericton Meeting Planners' Recognition Award, 1996.

### Supervision and mentorship

Dr. Sweeney has supervised and mentored a great number of technicians and biologists, undergraduate and graduate students, as well as postdocs. He is very much a hands-on supervisor and has faith in the skills and abilities of the people working with and for him. As a testament to his effectiveness as a supervisor, many of the students and postdocs that worked under him have moved on to successful careers in academia and Government. He is one of the most collegial and popular people working at the CFS laboratory in Fredericton and has been a mentor and collaborator to numerous technicians and new scientists at the Atlantic Forestry Centre. Jon Sweeney's impact on the future of entomological research in eastern Canada cannot be overestimated.



## Prix C. Gordon Hewitt – Dr Cory Sheffield

Dr Cory Sheffield a apporté de nombreuses contributions à l'entomologie, la conservation des insectes, l'enseignement, la formation et la vulgarisation au Canada et ailleurs. Depuis 2003, il a publié 39 articles scientifiques (dans des revues à fort impact, telles que *Molecular Ecology Resources* et *PLoS ONE*), 1 chapitre de livre et 3 comptes rendus de conférences sur la biologie et la conservation des abeilles et la pollinisation.

Après avoir terminé son doctorat à Guelph en 2006, Dr Sheffield a débuté un postdoc avec Laurence Packer à l'Université York sur la taxonomie des abeilles canadiennes. Il a été parmi les premiers à appliquer les codes à barres d'ADN aux abeilles durant son doctorat, ce qui a amené la première évaluation publiée de cette méthode sur une faune d'abeille régionale. En 2009, il est devenu chercheur associé à l'Université de York avec l'initiative de pollinisation canadienne financée par le CRSNG (CANPOLIN). Il a ainsi identifié, traité et catalogué un très grand nombre de spécimens de plusieurs projets dans tout le pays. En lien avec ces collaborations au sein de CANPOLIN, Dr Sheffield a joué un rôle critique dans la formation d'étudiants gradués sur la taxonomie des abeilles, autant par des sessions privées que par le développement d'ateliers de formation. Il est activement impliqué dans la taxonomie des abeilles et a publié une clé des genres de l'est du Canada, et des révisions pour les espèces canadiennes de *Megachile* et *Dufourea*, avec des projets en cours sur d'autres genres d'abeilles canadiennes, ainsi que des guêpes chrysididés et philanthines. Par ses efforts, notre compréhension de la faune d'abeilles canadiennes a maintenant des bases solides. Il a nommé trois espèces d'abeilles, et deux abeilles de la sueur ont été nommées en son honneur. Par ses récentes publications, Dr Sheffield a promu l'utilisation de la diversité fonctionnelle dans les études de communautés d'abeilles, particulièrement l'inclusion de l'histoire de vie pour mesurer les réponses des abeilles aux perturbations. Il a introduit le concept d'utiliser des abeilles cleptoparasites comme indicateur de communautés d'abeilles.

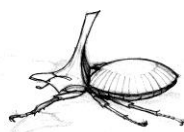
Depuis 2013, Dr Sheffield est éditeur thématique pour *The Canadian Entomologist*. Il sert également de façon régulière comme réviseur pour d'autres revues. Il siège depuis 2012 sur le Comité sur la situation des espèces en péril au Canada (COSEPA) dans le sous-comité des arthropodes et a écrit/co-écrit des rapports de situation pour deux espèces d'abeilles : le bourdon de l'ouest (*Bombus occidentalis*) et l'abeille-coucou poilue (*Epeoloides pilosulus*), une espèce qui était considérée comme éteinte et qui a été redécouverte par Sheffield en 2002. En 2014, il a terminé la première évaluation de conservation des plus de 800 espèces d'abeilles canadiennes pour la Fédération canadienne de la faune.

Depuis qu'il est chercheur scientifique et curateur de la Zoologie des invertébrés au Musée royal de Saskatchewan, Dr Sheffield a reçu des fonds de recherche pour soutenir des travaux sur la conservation des abeilles et la pollinisation des cultures au Canada. Il est associé et co-supervise des étudiants gradués à l'Université de Regina et Laval. Il continue d'attirer des étudiants gradués vers la recherche en pollinisation: en 2014, le Musée royal de Saskatchewan a lancé une bourse pour étudiants gradués qui sera offerte en alternance aux étudiants qui poursuivent des études en lien avec les abeilles.

Dr Sheffield s'est impliqué dans plusieurs initiatives internationales sur la conservation des abeilles et la pollinisation, particulièrement avec l'Organisation des Nations unies pour l'alimentation et l'agriculture (ONU-FAO). Il a préparé et facilité un atelier sur la pollinisation de la pomme au Népal. En partenariat avec ONU-FAO, un manuel sur la pollinisation de la pomme est présentement en préparation, particulièrement pour les industries de culture de pommes dans les pays en développement, se concentrant sur les services de pollinisation durable avec les abeilles natives pollinisatrices.

Dr Sheffield a donné plus de 60 présentations dans des conférences nationales et internationales, incluant une conférence plénière à la première conférence ApiEcoFlora à la République de Saint-Marin. Il a organisé des symposiums dans des réunions annuelles de la SEC. Plusieurs de ses présentations ont été dirigées vers des groupes de fermiers et jardiniers préoccupés par les pollinisateurs indigènes. En 2014, il a été invité à Ottawa comme témoin-expert pour témoigner sur la situation des abeilles natives pour le Sénat canadien.

Dr Sheffield a enseigné deux cours gradués nationaux sur la taxonomie des abeilles durant son mandat avec CANPOLIN. Il a aussi fourni des instructions sur l'identification des abeilles par différents ateliers. Il continue d'offrir de l'assistance taxonomique aux étudiants au Canada. Il enseigne actuellement l'entomologie à l'Université de Regina, la première fois que l'entomologie est offerte comme cours depuis plus de 10 ans.





## C. Gordon Hewitt Award – Dr Cory Sheffield

As an early-career researcher, Dr Cory Sheffield has made numerous contributions to entomology, insect conservation, teaching/training, and outreach, in Canada and internationally. Since 2003, he has published 39 scientific papers, 1 book chapter, and 3 peer-reviewed conference proceedings papers on bee biology and conservation, and pollination. Several of his papers have been published in high-impact journals such as *Molecular Ecology Resources* and *PLoS ONE*.

After completing his PhD in Guelph (2006), Dr. Sheffield began a post-doc at York University with Laurence Packer on taxonomy of Canadian bees. He was one of the first to apply DNA barcoding to bees during his PhD work, which yielded the first published evaluation of this method on a regional bee fauna. In 2009, he became a research associate at York University with the NSERC funded Canadian Pollination Initiative (CANPOLIN). In this capacity, he identified, processed, and catalogued an enormous number of specimens. Linked to these collaborations within CANPOLIN, Dr. Sheffield played a critical role in training graduate students in bee taxonomy, both through one-on-one sessions, and through training workshops. He is actively involved in bee taxonomy and has published a key to the eastern Canadian genera, and revisions for Canadian *Megachile* and *Dufourea* species, with ongoing projects on other Canadian bee genera, as well as chrysidid and philanthine wasps. Due to his efforts, our understanding of the Canadian bee fauna is now on very firm ground. He has named three bee species, and has also had two sweat bees named in his honour. Dr. Sheffield has promoted the use of functional diversity in studies of bee communities, particularly the inclusion of life-history to measure bee responses to disturbance. He introduced the concept of using cleptoparasitic bees as indicator taxa of bee communities.

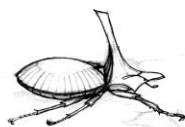
Since 2013, Dr. Sheffield has served as a subject editor for *The Canadian Entomologist*. He also regularly serves as a reviewer for other journals. He has served on the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) Arthropods Subcommittee since 2012, and has authored/co-authored status reports for two bee species: the western bumble bee (*Bombus occidentalis*), and the macropis cuckoo bee (*Epeoloides pilosulus*), a species that was thought extinct until re-discovered by Sheffield in 2002. In 2014 he finished the first conservation assessment of the 800+ species of Canadian bees for the Canadian Wildlife Service.

Since becoming a research scientist and Curator of Invertebrate Zoology at the Royal Saskatchewan Museum, Dr. Sheffield has been successful in obtaining research funding to support work on bee conservation and crop pollination in Canada. He holds adjunct status, and co-supervises grad students at the University of Regina and Laval University. He continues to attract graduate students to pollination research; in 2014, the Royal Saskatchewan Museum launched a graduate student scholarship, which will be offered in alternate years to students pursuing bee-related studies.

Dr. Sheffield has been involved in several international initiatives on bee/pollination conservation, particularly with the United Nations Food and Agriculture Organization (UN- FAO). He prepared and facilitated an apple pollination workshop in Nepal. In partnership with the UN-FAO, an apple pollination manual is currently being prepared, particularly for apple growing industries in developing countries, focused on sustainable pollination services with native bee pollinators.

Dr. Sheffield has given over 60 presentations at national and international conferences, including a keynote address at the first ApiEcoFlora conference in the Republic of San Marino. He has organized symposia at annual meetings of the ESC. Many of his presentations have been outreach directed at farmer and gardener groups concerned with native pollinators. In 2014, he was invited to Ottawa as an expert witness to testify on behalf of the status of native bees for the Canadian Senate.

Dr. Sheffield taught two national courses on bee taxonomy, targeted at graduate students, during his tenure with CANPOLIN. He has also provided instruction on bee identification through other workshops. He continues to offer taxonomic assistance to graduate students in Canada, visiting their universities or arranging for them to visit the bee collection at the Royal Saskatchewan Museum. He is now teaching entomology at the University of Regina, the first time that entomology has been offered as a course there in over a decade.



## Prix Norman Criddle / Norman Criddle Award – Louis Handfield

Louis Handfield, notaire de profession, est un entomologiste amateur depuis plus de 30 ans. Il s'est d'abord intéressé aux papillons de sa région, Mont-Saint-Hilaire, QC. Sa collection et ses recherches ont permis l'identification de plus de 800 espèces de macrolépidoptères dans cette région. Il a ensuite élargi ses intérêts à la province de Québec, le Labrador, et parfois les provinces voisines. Il est l'auteur principal, avec J.F. Landry et J.D. Lafontaine du livre *Liste des lépidoptères du Québec et du Labrador* en 1997. Deux ans plus tard, son fameux livre « *Les papillons du Québec – Guide d'identification* » est paru. Ce livre, qui est un guide illustré d'identification, présente un survol de l'histoire naturelle, l'écologie, la distribution et un guide pour collecter, s'est vendu à plus de 7000 copies dans sa version populaire, et près de 400 copies dans sa version scientifique. C'est un livre essentiel pour quiconque s'intéresse aux Lépidoptères du Québec ou de l'est du Canada. Il a également écrit ou co-écrit plusieurs publications scientifiques sur des nouvelles espèces ou des nouvelles occurrences de Lépidoptères publiés dans des revues comme *TCE*, *Systematic Entomology*, *Zookeys* et *Faberies*.

M. Handfield est fréquemment consulté comme expert de l'identification et de la biologie des Lépidoptères. Il a contribué à l'identification de papillons pour le bilan quinquennal de l'inventaire des lépidoptères de deux parcs nationaux. Il a été consulté pour l'analyse de 50 espèces d'insectes à risque au Québec pour le Ministère du loisir, de la chasse et de la pêche du Québec. Il a également fourni des consultations d'expert pour le rapport de situation du COSEPAC sur l'engouement d'Amérique.

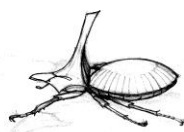
M. Handfield a contribué à la connaissance et à l'appréciation des lépidoptères par de nombreux entomologistes amateurs au Québec, et son expertise est appréciée par ses collaborateurs professionnels sur la taxonomie et la biologie des lépidoptères. Il est reconnu pour ses contributions importantes et son expertise sur les papillons, et la SEQ et la SEC l'ont donc choisi comme récipiendaire du prix Norman Criddle 2015.

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Louis Handfield, a title attorney by profession, has been an amateur entomologist for more than 40 years. He was first interested in the moth and butterflies from his area, Mont-Saint-Hilaire, QC. His ongoing collecting and research has allowed the identification of more than 800 species of macrolepidoptera. He then broadened his interests to the whole province of Quebec, Labrador, and occasionally to the neighbouring provinces. He was the lead author, along with J.-F. Landry, & J.D. Lafontaine, on the 1997 volume *Liste des lépidoptères du Québec et du Labrador*. This was followed, two years later by "*Les papillons du Québec – Guide d'identification*". This volume, which is an illustrated identification guide, an overview of natural history, ecology, and distribution, and a guide to collecting, has sold more than 7000 copies in its popular version, and nearly 400 copies in its scientific version. It is an essential volume for anyone interested in the Lepidoptera of Quebec or eastern Canada. He has also authored and co-authored several journal publications about new species and new records of Lepidoptera published in journals including *TCE*, *Systematic Entomology*, *Zookeys*, and *Faberies*.

M. Handfield is frequently consulted as an expert for Lepidoptera identification and biology. For example, he contributed to the identification of moths and butterflies for the five-year assessment of the Lepidoptera of two national parks in Quebec. He has been consulted for the analysis of 50 insect species at risk in Québec for the Ministère du loisir, de la chasse et de la pêche du Québec. He has also provided expert consultation on other taxa, such as for the COSEWIC assessment on the common nighthawk in Canada.

M. Handfield has contributed to the knowledge and appreciation of Lepidoptera by many amateur entomologists in Quebec, and his expertise is equally valued by professional collaborators in Lepidoptera taxonomy and biology. He is widely recognized for his valuable contributions and expertise on moths and butterflies, and the SEQ and ESC have thus selected him as the recipient of the 2015 Norman Criddle Award.





## Membre associé / Fellow – Dr Charles Vincent

Après l'obtention d'un MS et PhD (Université McGill), Dr Vincent a débuté son travail comme chercheur scientifique à AAC en 1983. Dr Vincent est un chef de file international en entomologie agricole qui a démontré de l'innovation dans la recherche et le développement de méthode de lutte alternative aux insecticides conventionnels. Sa recherche a été instrumentale au développement et à la commercialisation de bio-pesticides comme Virosoft CP4® (en collaboration avec Biotepp) et Requiem® (en collaboration avec Codena [Agraquest]).

La productivité de Dr. Vincent est substantielle: 172 articles révisés; 3 publications spéciales; 8 bulletins techniques; 24 livres édités; 5 articles de synthèse; 46 chapitres; 142 compte-rendu de conférences; 191 publications diverses; 17 rapports de recherche et 12 critiques de livres. Notons qu'il a co-édité le premier livre en français sur la lutte biologique et un livre sur les bio-pesticides botaniques en français, et a édité un livre sur les méthodes de lutte physique en protection des plantes. Il a donné plus de 500 présentations et affiches scientifiques, 264 présentations générales, 65 cours académiques et 64 contacts avec les médias. De plus, la supervision/mentorat à dans trois universités a mené à 14 PhD et 22 MSc par des étudiants, en plus de 6 post-docs et 100 stagiaires, principalement d'Europe. La plupart de ses anciens étudiants sont maintenant scientifiques dans le monde entier.

Dr Vincent a reçu de nombreux prix, tel que la Médaille d'or de la SEC en 2010, la Distinction entomologique de la SEQ en 2012, le prix L.O. Howard de la ESA en 2013 (branche Est) et le prix Moisson d'or de AAC en 2014. Il a été élu membre étranger par l'Académie d'agriculture de France en 2012 et membre associé de la Société Royale entomologique (Londres, UK) en 2013. Il est professeur invité à l'Université de Picardie Jules Verne (France) depuis 2000.

Pour son statut exceptionnel de leader mondial en entomologie agricole et son niveau constant de service exemplaire à la science de l'entomologie agricole, Dr Charles Vincent mérite amplement son élection comme membre associé de la Société d'entomologie du Canada.

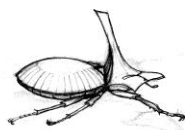
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After earning MS and PhD degrees in entomology (McGill University), Dr Charles Vincent began working as a Research Scientist with Agriculture and Agri-Food Canada(AAC) in 1983. Dr Vincent is an international leader in agricultural entomology who has demonstrated innovation in research and development of alternative insect management methods to conventional insecticides. Notably, his research was instrumental in the development and commercialization of biopesticide, such as Virosoft CP4® (in collaboration with Biotepp) and Requiem® (in collaboration with Codena [Agraquest]).

Dr Vincent's productivity is substantial: 172 scientific peer-reviewed papers; 3 special publications; 8 technical bulletins; 24 edited books; 5 review articles (refereed); 46 book chapters; 142 conference proceedings; 191 miscellaneous publications (non-refereed); 17 research reports; and 12 book reviews. Particular note should be made of his work in co-editing the first book in French on biological control, and a book on botanical biopesticides in French, and editing a book on physical control methods in plant protection. He has presented more than 500 scientific talks and posters (peer audiences), 264 general presentations (non-peer audiences) 65 academic lectures and 64 media contacts. Additionally, Dr Vincent's direction and mentoring at three universities has resulted in 14 PhD and 22 MSc students completing their degree, in addition to 6 post-docs and 100 student interns, mostly from Europe. Most of his former graduate students are working scientists around the world.

Dr Vincent has received numerous awards during his career, such as the Gold Medal from the ESC in 2010, the 'Distinction entomologique' from the SEQ in 2012, the L. O. Howard Distinguished Achievement Award from the ESA (Eastern Branch) in 2013, and the Gold Harvest Award by AAC in 2014. He was also elected 'Foreign Member' by the Académie d'Agriculture de France in 2012, and Fellow of the Royal Entomological Society (London, UK) in 2013. He is an invited professor from the Université de Picardie Jules Verne (France) since 2000.

For his exceptional standing as a world leader in agricultural entomology and his consistent level of exemplary service to the science of agricultural entomology, Dr Charles Vincent is richly deserving of his election as a Fellow of the Entomological Society of Canada.



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