

# Bulletin

Entomological Society of Canada  
Soci t  d'entomologie du Canada

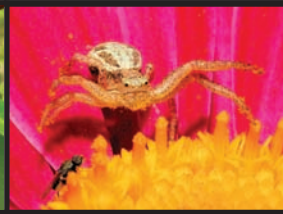
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## Images

**Sur le dos :** *Silusa californica* Bernhauer (Staphylinidae, Aleocharinae), décrit originellement à Pasadena, Californie, possède une aire de répartition assez courante, transcontinentale au Canada avec une extension vers le sud dans les Rocheuses. Photo : K. Bolte

**Sous le titre :** *Aphodius distinctus* (Müller), une espèce européenne de bousier (Scarabaeidae) commune dans toute l'Amérique du Nord. Photo : H. Goulet & C. Boudreault

1. Élevé sur des cônes à graines de thuya géant, *Thuja plicata* Don ex D. Don (Cupressaceae), ce mâle d'*Eurytoma* Illiger sp. (Eurytomidae) est ou bien un parasitoïde associé à la cécidomyie des cônes du thuya géant, *Mayetiola thujae* (Hedlin) (Cecidomyiidae), ou alors un spermatophage. Photo : D. Manastyrski

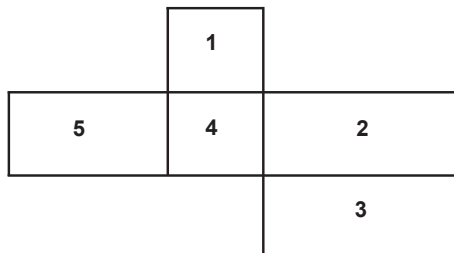
2. *Spilomyia alcimus* (Syrphidae) sur le ptéleá *Ptelea trifoliata*. Wheatley, comté d'Essex, Ontario, 2 juin, 2007. Photo : J. Lucier

3. Bob Lamb en train de faire des récoltes au parc national Riding Mountain, Manitoba, durant le Bioblitz de la Commission biologique du Canada en 2007. Photo : P. MacKay

4. Stade immature de *Xysticus* sp. (Thomisidae) sur une marguerite dans un jardin au pied du mont Bowman, Colombie-Britannique, juillet 2005. Photo : J. Bovee

5. Galles rouge vif de la génération agamique de *Trigonaspis quercusforticorne* (Walsh) (Cynipidae) sur des nouvelles ramilles du chêne à gros fruits (*Quercus macrocarpa*) à Souris, Manitoba. Photo : S. Digweed

**Plat inférieur :** Abeille découpeuse, probablement *Megachile* sp. (Megachilidae), à Pender Island, Colombie-Britannique, juillet 2007. Photo : B. Roitberg





I would like to extend a warm welcome to Annabelle Firlej, who will be taking over from Rick West as Secretary of Entomological Society of Canada. Annabelle completed her MSc and PhD at the Université du Québec à Montréal in biological control. She is currently working as a postdoctoral fellow in the laboratory of Jacques Brodeur at the Université de Montréal. She was Secretary of the Entomological Society of Quebec for several years. Rick West has been the Secretary since 1998, before that he was Secretary from 1990 to 1994. As Bulletin Editor, I had to take pictures of the incoming Executive. Each year I would chuckle as I would have to wait until Rick had stopped whispering in the ear of the new president to get a good picture of the group. I would like to thank Rick for the countless hours of service he has given the Society over the years. I look forward to working with Annabelle over the next few years of my term on the Executive.

Rick is leaving his role of Secretary, but he is taking over from Barry Lyons as Webmaster. ESC members from the East Coast know Rick is a man of many talents. In addition to his musical prowess, he also designs and maintains web pages. He is webmaster for the Acadian Entomological Society. He has been working

J'aimerais accueillir bien chaleureusement Annabelle Firlej qui prendra bientôt la relève de Rick West en tant que secrétaire de la Société d'entomologie du Canada. Annabelle a obtenu son M.Sc. et son Ph.D. à l'UQAM en lutte biologique. Elle a occupé pendant plusieurs années le poste de secrétaire de la Société d'entomologie du Québec. Elle est maintenant boursière postdoctorale dans le laboratoire de Jacques Brodeur à l'Université de Montréal. Rick West est secrétaire de la SEC depuis 1998, après avoir occupé ce même poste de 1990 à 1994. Dans mon rôle de rédacteur du Bulletin, je devais prendre en photo les nouveaux comités exécutifs. Chaque année, sans faute, je devais attendre que Rick arrête de chuchoter à l'oreille du nouveau président avant de pouvoir prendre une photo de groupe convenable. Je tiens à remercier Rick pour les heures innombrables qu'il a offertes au service de la Société au cours des années. Pendant la durée de mon mandat au comité exécutif, ce sera un plaisir de travailler dorénavant avec Annabelle.

Rick laisse son rôle de secrétaire, mais ce n'est que pour remplacer Barry Lyons en tant que Webmestre. Dans les provinces de l'Est, les membres de la SEC connaissent bien les multiples talents de Rick. En plus de ses habiletés en musique, il conçoit et maintient des sites Web, entre autres celui de la Société acadienne d'entomologie. Il a également mis beaucoup d'effort à rénover le site de la SEC que vous pouvez visiter à l'adresse suivante : [www.esc-sec.ca](http://www.esc-sec.ca). Si vous avez des suggestions ou des idées à contribuer au site, n'hésitez pas à communiquer avec Rick. C'est Barry Lyons qui a mis en œuvre le premier site Web de la SEC, et il l'a guidé à travers plusieurs transformations. Un gros merci à toi, Barry, pour tes longues années de service à la Société. Sans le travail assidu des fiduciaires de la Société tels que Rick et Barry, elle ne pourrait pas fonctionner.

Le conseil exécutif s'est rencontré à Ottawa en avril dernier pour sa réunion de la

hard at revamping the ESC web page and it is now available at [www.esc-sec.ca/](http://www.esc-sec.ca/). If you have suggestions or ideas for the web page please drop Rick a note. Barry Lyons started the original ESC website, and he has shepherded it through its many incarnations. Thank you Barry for your many years of service to the Society. Without the hard work of Trustees of the Society, such as Rick and Barry, the Society would cease to function.

The Executive Council met in Ottawa last April for the midterm meeting to review the affairs of the Society. In 2007, the ESC finished the year with a net gain of \$7 000, compared to a net loss of \$17 500 in 2006. The Finance Committee has made several suggestions to maintain the financial sustainability of the society. For more details see the Society Business section of this issue of the Bulletin. Several members are working to get the back issues of *The Canadian Entomologist* and the *Memoirs* available online. By 2009, you should be able to access and search the entire collection online, right back to the first article published in 1868. For details, see the wiki at <http://tce-future.wikispaces.com/> which serves as a forum for the discussion on the future of the *TCE*. Finally, Michel Cusson and Peter Mason have agreed to stand for election as Second Vice-President. Kirk Hillier and Michèle Roy have agreed to stand for the position of Director-at-Large. All are excellent candidates.

I look forward to seeing many of you at the meeting in Ottawa this October.

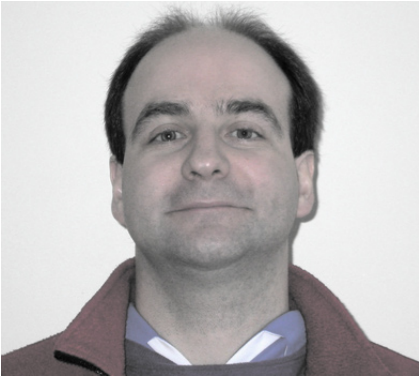
mi-mandat, afin de passer en revue les affaires de la Société. En 2007, la SEC a terminé l'année financière avec un surplus de 7000 \$, contrairement au déficit de 17 500 \$ affiché en 2006. Le comité des finances a fait plusieurs suggestions pour assurer la pérennité financière de la Société. Pour en savoir plus, consultez la section Affaires de la Société dans ce numéro du Bulletin. Plusieurs membres travaillent à faire publier les archives de *The Canadian Entomologist* et des *Memoirs* en ligne. D'ici 2009, vous devriez pouvoir consulter la collection entière en ligne et y faire des recherches, jusqu'au tout premier article publié en 1868. Le wiki, à <http://tce-future.wikispaces.com/>, sert de forum de discussion au sujet de l'avenir de *TCE*. Pour conclure, Michel Cusson et Peter Mason ont accepté de se présenter aux élections pour le poste de Deuxième vice-président. Kirk Hillier et Michèle Roy ont accepté de se présenter pour le poste de conseiller. Toutes les candidatures sont excellentes.

Au plaisir de vous revoir en grand nombre à la réunion en octobre à Ottawa. Mes meilleures salutations à tous.



Steve Marshall

*Narceus americanus* (Spirobolidae)



## Something Putrid This Way Comes

**F**orensic Entomology – it was only a matter of time before Moth Balls turned its ommatidia to the mesmerizing study of insects to solve crimes; most notably, murders... It could be argued that forensic entomologists are the rock stars of the entomological community – from supporting characters in the Academy Award winning *Silence of the Lambs*, to crime-fighting heroes in novels including Tim Downs's "*Bug Man*" series. Over the past few years, forensic entomologists have wriggled their way into the public consciousness. Why has this happened and perhaps more importantly, is it justified?

Now I know what you're thinking. As a simple taxonomic entomologist, I'm jealous of the attention that forensic entomologists get. You're thinking maybe I'm coveting the snazzy Las Vegas Police Department windbreaker that CSI's Gil Grissom gets to wear.

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*Andrew Bennett is a research scientist with Agriculture and Agri-Food Canada in Ottawa working on the taxonomy of Ichneumonidae. He received his PhD at the University of Toronto. Contact details: e-mail: [bennetta@agr.gc.ca](mailto:bennetta@agr.gc.ca), tel: (613) 759-1900.*

Well maybe that's true, but I shall try to remain as impartial and objective as possible as I evaluate the benefits of forensic entomology to society and whether the public adulation is justified. Without further ado, Moth Balls presents the pros and cons of being a forensic entomologist.

### Pros

- 1) Burnt pot roast? What burnt pot roast?
- 2) Guido "Hatchet Man" Schillacci and Salvatore "The Liquidator" Lombrosi less likely to risk making nocturnal deliveries in the vacant lots in your neighbourhood.
- 3) Résumé proudly reads: Contributing Editor for *Maggot Monthly* (OK, it's not a real journal, but it should be...).
- 4) Aroma of rotting pig carcasses in backyard experiment cleverly masks smell of skunk family that has taken up residence under front porch.

### Cons

- 1) Autograph hounds, paparazzi and fawning maître d's at expensive French restaurants – all I really wanted in life was to study bugs...
- 2) Inadvertent conversations with your kids lead to sad revelations about exactly where Mr. Fluffy went following interment in the backyard flower garden.
- 3) Strangely poor reaction to your famous Sizzling Silphid Surprise at the last five neighbourhood pot luck dinners.
- 4) Inescapable realization that Gil Grissom is not actually a real person and the writers of CSI have about as much knowledge of forensic entomology as a prepubescent goldfish.

So what do you think? Still aspire to a career in forensic entomology? (Me too).

Join Moth Balls next issue as I unearth more entomologically-infested trivia.

### **XXIII International Congress of Entomology**

Durban, South Africa, 6-12 July 2008

[www.ice2008.org.za](http://www.ice2008.org.za)

### **XLI Annual Meeting of the Society for Invertebrate Pathology**

Warwick, United Kingdom, 3-8 August 2008

<http://www.sipweb.org/meetings.cfm>

### **93<sup>rd</sup> Annual Meeting of the Ecological Society of America**

Milwaukee, Wisconsin, 3-8 August 2008

<http://www.esa.org>

### **24<sup>th</sup> European Congress of Arachnology**

Bern, Switzerland, 25-29 August 2008

[www.esa2008.unibe.ch](http://www.esa2008.unibe.ch)

### **Joint Meeting of the Entomological Society of Canada and the Entomological Society of Ontario**

Ottawa, Ontario, 18-22 October 2008

[www.canacoll.org/JAM2008/](http://www.canacoll.org/JAM2008/)

### **Annual Meeting of the Entomological Society of Alberta**

Edmonton, Alberta, 6-8 November 2008

<http://www.biology.ualberta.ca/courses.hp/esa/esa.htm>

### **Annual Meeting of the Entomological Society of America**

Reno, Nevada, 16-19 November 2008

<http://www.entsoc.org>

### **4<sup>th</sup> Biennial Conference of the International Biogeography Society**

Mérida, México, 8-12 January 2009

<http://www.biogeography.org/4th%20conference.html>

### **3<sup>rd</sup> International Symposium on Biological Control of Arthropods**

Christchurch, New Zealand, 8-13 February 2009

<http://www.isbca09.com/>

### **6<sup>th</sup> International IPM Symposium, 'Transcending Boundaries'**

Portland, Oregon, 24-26 March 2009

<http://www.ipmcenters.org/ipmsymposium09>

### **93<sup>rd</sup> Annual Meeting of the Pacific Branch, Entomological Society of America**

San Diego, California, 28 March-1 April 2009

### **Joint Meeting of the Entomological Society of Canada and the Entomological Society of Manitoba**

Winnipeg, Manitoba, 18-21 October 2009

Entomological Societies of Canada & Manitoba  
**ES<sup>C</sup>M2009**  
Winnipeg, 18-21 October

# Dear Buggy / Cher Bibitte

By Chris MacQuarrie



Dear Buggy,

I'm a new graduate student studying the mating behaviour of grylloblattids. Before going to the field I purchased a new laptop which just about tapped out my bank account until I get my first stipend this Fall. The computer is great, but it didn't come with the software I need to do my research. I don't want to use pirated software but I don't know what to do, any advice?

Signed 'Word-less in Wawa'

Well Word-less that's quite the dilemma you're facing. A quite serviceable laptop can be had for between \$600 and \$800 but the

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*This is the inaugural edition of the Bulletin's advice column. We need your questions for future columns! Forward your questions or topic suggestions to [cjkmacquarrie@gmail.com](mailto:cjkmacquarrie@gmail.com) or post them in the Facebook group.*

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software your typical graduate student needs can quadruple that price. Unfortunately, this is a cost that most students (and some supervisors) fail to take into account when purchasing a new computer. To give you an idea, a typical graduate student can expect to need software for word processing, storing, managing and analyzing data, other software is needed to prepare publication quality graphs, images and figures. Word processing and presentation software is needed to write manuscripts, and design your presentations and posters. In addition many students use software to manage references and produce bibliographies and others require software for specialized analyses (e.g. genetics or GIS). As you would expect there is no magic graduate student all-in-one combo software suite to do this (but wow isn't there a business opportunity!). To buy the various commercial software that would allow you do your research could run upwards of \$4500. Ouch. So, besides downloading a file-sharing program, strapping on an eye patch and becoming a full-fledged software pirate what's a grad student to do?

You're in luck. Your university or department might already provide you access to some of the programs you need. It's likely that your university has purchased site licences for some of the more popular commercial packages. What's a site licence? Universities purchase software at a bulk rate from manufacturers and then re-distribute it for a yearly fee. You obtain a copy of the software from your universities IT department and, as long as your site license is current, you have full access to the software. Two caveats though, one, it's likely your supervisor will have to purchase the software for you as site licences usually aren't sold to students. Second, you may not be allowed to install site-licensed software on your personal computer. Therefore this option is best for software like statistics and graphing packages that everyone in a lab group might need but that you won't use everyday. Depending on the size of your department

If you're looking for:	You might try:
Productivity (word processing, spreadsheet, presentation)	<ul style="list-style-type: none"> <li>- OpenOffice (<a href="http://www.openoffice.org">www.openoffice.org</a>)</li> <li>- Google docs (<a href="https://docs.google.com">https://docs.google.com</a>). Not open-source but free, online only, and requires a free google account.</li> </ul>
Statistics + Graphing	<ul style="list-style-type: none"> <li>- R (<a href="http://www.r-project.org">www.r-project.org</a>). Extremely powerful with broad user base. Excellent documentation and expandable. But not for the faint of heart, requires a good knowledge to basic statistics, and some programming familiarity as well.</li> </ul>
Internet/Email	<ul style="list-style-type: none"> <li>- Firefox/Thunderbird (<a href="http://www.mozilla.com">www.mozilla.com</a>). Widely used and expandable with small plug-in applications.</li> </ul>
Image processing and (or) manipulation	<ul style="list-style-type: none"> <li>- GIMP (<a href="http://www.gimp.org">www.gimp.org</a>). The Gnu image manipulation project. Alter, re-colour, crop digital images.</li> <li>- Picasa (<a href="http://picasa.google.com">http://picasa.google.com</a>), not open source but provides rudimentary image correction tools and image management. PC only.</li> </ul>
Image analysis	<ul style="list-style-type: none"> <li>- ImageJ (<a href="http://rsb.info.nih.gov/ij/">http://rsb.info.nih.gov/ij/</a>). Requires Java. With this software and a flatbed scanner it's possible to build a quite serviceable leaf-area meter.</li> </ul>
Figure construction	<ul style="list-style-type: none"> <li>- Inkscape (<a href="http://www.inkscape.org">www.inkscape.org</a>). Vector-based software for drawing and assembling figures, posters and images.</li> </ul>
Reference management	<ul style="list-style-type: none"> <li>- JabRef (<a href="http://jabref.sourceforge.net">http://jabref.sourceforge.net</a>)</li> <li>- Connotea (<a href="http://www.connotea.org">http://www.connotea.org</a>). Online from the Nature group.</li> <li>- Zotero (<a href="http://www.zotero.org">www.zotero.org</a>). A firefox plug-in.</li> </ul>

some highly specialized software (such as GIS software) might be offered in a shared lab that you can get access to. But what do you do for that software you will use everyday? Or what about when you're in the field and don't have access to your lab computer? Better yet, what about those of us who aren't students?

Those with some internet-savvy may be familiar with the term 'Open-source software'. What is open source software? In a nutshell, groups of volunteer developers produce soft-

ware that is released free for non-commercial use. Users are expected to contribute to the development of this software by donation, providing feedback or helping out. Open-source refers to the underlying software code that the software is based on. Open code can be obtained and modified by anyone as long as the original source is acknowledged. In the past 10-15 years networks of developers have managed to produce a number of viable software options that are 'free'. Some people



might be familiar with the Firefox internet browser and the R statistics package; these are probably the two most widely used pieces of open-source software. To help you get started I've assembled a list of open source and other free software that I've found useful (see table). A few caveats, because open-source software is developed by volunteers it may not possess all the features of commercial software. Second, help may not be easy to find, although

most open-source software tend to have excellent user forums and/or list-serv's where you can search for or find advice. So as with anything free its possible to get what you pay for. However, if you're willing to experiment and get your toes wet (and save a little money at the same time), I'd suggest you look into trying some of the free options to commercial software. Or, at least, spread the word.

### 2009 Annual Meeting Call for Symposium Suggestions and Organizers

The 2009 Joint Annual Meeting of the Entomological Societies of Canada and Manitoba will be held in Winnipeg, Manitoba, in October 2009. The scientific program committee is in the early stages of program planning, and invites suggestions for symposium topics, particularly those accompanied by offers to organize a symposium as part of the meeting. Please forward your suggestions by 1 August 2008 to the Scientific Program Committee Chair, Dr N. J. Holliday, Department of Entomology, University of Manitoba, Winnipeg, Manitoba R3T 2N2.



Steve Marshall

*Chelifer cancroides*, common in households

### Words of wisdom

*"A good decision is based on knowledge and not on numbers" – Plato*

*"The difference between the right word and the almost right word is the difference between lightning and a lightning bug." – Mark Twain*



## The student wing / L'aile étudiante



Chris Borkent



Greg Smith

Hopefully everyone is having a productive and enjoyable summer so far. While you're enjoying that summer sun don't forget to submit your abstract for the upcoming meetings in Ottawa. The deadline is August 31 for both posters and presentations. We are looking forward to another meeting filled with interesting student talks and posters. We also plan to have copies of the evaluation sheets that will be used to grade the President's prize competition posted on the student affairs webpage at least a month before the meetings. This will give you all a chance to see what is expected of your poster or presentation and hopefully increase your odds of winning!

As in previous years we will again be running a silent auction to help build up the scholarship fund. So if you come across any entomology related items that you want to get rid of, or if an entomology professor in your department is retiring and getting rid of some of his library etc. please think of us. Items can either be sent to us or brought with you to the conference for inclusion in the auction.

The Facebook group continues to grow, with jobs and grad student opportunities frequently being added. Unfortunately, though we thought we had made the group an open one, something got screwed up and it remained closed (i.e. by invitation only). This problem has since been remedied and the group is now open to

Nous espérons que vous passez tous un été agréable et productif. Pendant que vous profitez du soleil, n'oubliez pas de soumettre votre résumé pour la prochaine réunion à Ottawa. Nous nous attendons à une autre réunion remplie de présentations orales et d'affiches étudiantes plus intéressantes les unes que les autres. Nous planifions aussi de rendre les formulaires d'évaluation du prix du Président disponibles sur le site de la SEC un mois avant la réunion. Cela vous permettra de voir ce qui est attendu des présentations et des affiches, et améliorera vos chances de gagner!

Comme tous les ans, il y aura une vente aux enchères silencieuse. Donc, si vous avez des objets à saveur entomologique que vous ne voulez plus, ou si un professeur d'entomologie de votre département prend sa retraite et se débarrasse de ses livres, pensez à nous.

Notre groupe dans Facebook continue de prendre de l'ampleur: des offres d'emploi et d'études graduées y sont ajoutées fréquemment. Malheureusement, le groupe est demeuré « fermé », donc accessible par invitation seulement, même si nous pensions l'avoir ouvert à tous. Le problème est maintenant réglé et le groupe est ouvert à tous ceux qui ont un penchant entomologique. Joignez-vous au groupe (voir le lien sur la page des affaires étudiantes): il y a un super forum pour dis-

anyone with entomological leanings. Please come and join the group (see the link on the student affairs webpage) as it provides a great forum to discuss ideas and pass on info about entomology and grad student life. The greater the number of us that are part of it the better the discussions will be.

Enjoy the rest of your summer!

Greg and Chris

cuter d'idées et partager toute information sur l'entomologie et la vie d'étudiant(e) gradué(e). Plus nombreux nous serons, meilleures seront les discussions.

Passez un bel été!

Greg et Chris

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## Seeking Graduate Students

### Université Laval (Québec)

We are looking for a PhD candidate to study the effects of temperature and UV irradiance regimes on the dynamics of a greenhouse plant-based food web including herbivorous insects, and their predators and parasitoids. The main objective is to determine if the herbivores and their upper trophic-level associates differentially respond to, and specifically exploit abiotic heterogeneity. We hypothesize that specific and non-linear responses to abiotic environmental variation should affect productivity across different food web levels within the community, and consequently ecosystem stability.

Facilities at Laval University allow for complex experimental work on environmental fluctuation and greenhouse plant productivity, insect population dynamics, and predator-prey interactions. Candidates are expected to have a genuine interest in modelling temperature and light effects on predator-prey interactions and will be given opportunity to develop community-level modelling skills through a training period at Simon Fraser University, BC, under Dr Bernie Roitberg. Applicants should be admissible to the PhD programme in Biology at Laval University. They should have MSc level or equivalent education, and express strong interest in research. Competitive financial support will be available, depending on the quality of applications and referee support. The position is available from now until 1 September 2008. For more information, please contact:

Conrad Cloutier

Tél : (418) 656-3183

courriel : [Conrad.Cloutier@bio.ulaval.ca](mailto:Conrad.Cloutier@bio.ulaval.ca)

Nous recherchons un ou une candidate intéressée aux effets de la température et du rayonnement UV, dans un réseau trophique de serres comprenant des insectes herbivores et leurs ennemis naturels. L'objectif est de savoir si les herbivores et leurs associés des niveaux trophiques supérieurs répondent à, et exploitent l'hétérogénéité abiotique de façon différentielle. Une hypothèse est que la non linéarité et la spécificité des réponses à la variation abiotique affectent les flux de productivité entre les niveaux trophiques dans la communauté, et par conséquent influencent la stabilité de l'écosystème.

L'université Laval offre l'opportunité d'expérimentation complexe en serres sur les facteurs abiotiques affectant la productivité végétale et les interactions trophiques directes et indirectes. Les candidats doivent être intéressés à la modélisation de la dynamique des écosystèmes, en lien avec l'environnement thermique et photonique. Ils pourront acquérir des connaissances en modélisation, lors d'un stage de formation à l'Université Simon Fraser, BC, chez le Dr Bernie

Roitberg. L'admissibilité au doctorat en biologie de l'Université Laval implique la détention d'une maîtrise en sciences (MSc) ou l'équivalent, et un intérêt marqué pour la recherche. Un soutien financier compétitif sera offert, dépendant de la qualité du dossier et des lettres d'appui. Le poste est disponible dès maintenant et jusqu'au 1<sup>er</sup> septembre 2008.

## Thesis Roundup / Un foisonnement de thèses

- Aubry, Olivier; MSc, septembre 2007. *Utilisation de T. minutum et de la lutte attracticide contre Cydia pomonella L. en vergers de pommiers*. Directeur: Éric Lucas, Université du Québec à Montréal.
- Berthiaume, Richard; PhD, décembre 2007. *Écologie évolutive des populations d'arpeuteuse de la pruche*. Directeurs: Éric Bause et Christian Hébert, Université Laval.
- Copley, Claudia; [ccopley@royalbcmuseum.bc.ca](mailto:ccopley@royalbcmuseum.bc.ca), MSc, April 2008. *Spider (Araneae) assemblages in the Carmanah Valley on Vancouver Island: Composition, habitat preferences, and phenology*. Supervisors Steve Perlman and Neville Winchester, University of Victoria.
- Étilé, Elsa; MSc, février 2008. *Comportement alimentaire de la livrée des forêts sur quatre de ses hôtes au Québec*. Directeur: Yves Mauffette, Université du Québec à Montréal.
- Hehar, Gagandeep K.; [gagandeephehar@yahoo.com](mailto:gagandeephehar@yahoo.com), MPM, August 2007. *Pheromonal communication in European earwigs, Forficula auricularia L. (Dermaptera: Forficulidae)*. Supervisor: Gerhard Gries, Simon Fraser University.
- Kozak, Paul; [hipaulkozak@yahoo.com](mailto:hipaulkozak@yahoo.com), MSc, April 2008. *Influence of the winter environment on the biology and control of Varroa destructor Anderson and Trueman in honey bee colonies, Apis mellifera L.* Supervisor: Rob Currie, University of Manitoba.
- Laplante, Nathalie; MSc, janvier 2008. *Élevage artisanal et non commercial d'agents de lutte biologique : étude de cas en Thaïlande*. Directeur: Jacques Brodeur, Université Laval.
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- Martel, Véronique; PhD, avril 2007. *Males' reproductive strategies in the egg parasitoid Trichogramma turkestanica (Hymenoptera: Trichogrammatidae)*. Directeur: Guy Boivin, Université McGill.
- Pinna, Samuel; MSc, avril 2007. *Utilisation de la valeur écologique des habitats urbains pour déterminer la diversité entomologique et le succès des espèces exotiques de carabes (Coleoptera : Carabidae)*. Directeur: Éric Lucas, Université du Québec à Montréal.
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- Sarfraz, Rana; [rsarfraz@ualberta.ca](mailto:rsarfraz@ualberta.ca), PhD, March 2008. *Interactions among Plutella xylostella (L.) (Lepidoptera: Plutellidae), brassicaceous and non-brassicaceous host plants, and its larval parasitoids*. Supervisors: Andrew Keddie and Lloyd Dodsall, University of Alberta.
- Siljander, Eric D.; [eds@sfu.ca](mailto:eds@sfu.ca), MPM, August 2007. *Intraspecific communication of the common bed bug Cimex lectularius Linnaeus (Hemiptera: Cimicidae)*. Supervisor: Gerhard Gries, Simon Fraser University.

## Student Awards: 2008 winners

**Biological Survey of Canada Award:** We had 14 applicants for the Biological Survey of Canada Award. The winner is Marla Schwarzfeld from the University of Alberta. Marla is a MSc student who plans to transfer to a PhD program soon. She works on Ichneumonid parasitoids and is doing a comparative community study at the Ecosystem Management Emulating Natural Disturbance research site in Alberta. The communities of parasitoids that Marla will compare are from uncut, partial-cut and clearcut forest treatments. She plans to make “user friendly”, interactive keys to the ichneumonids as her work continues. After transferring to a PhD program, Marla plans to use molecular and morphological techniques to analyze the genus *Ophion* in the family Ichneumonidae in Alberta.

**John Borden Scholarship in IPM:** The winner of the John Borden Scholarship is Melanie Hart from Simon Fraser University. Melanie is studying sound communication in the peach twig borer moth *Anarsia lineatella*. She has shown for the first time that sound communication is used by this species. By identifying sound and pheromone communication in the reproductive biology of the peach twig borer, Melanie has been able to devise an Integrated Pest Management strategy that has been patented. This work is an excellent example of the application of insect behaviour to IPM.

**ESC Postgraduate Scholarship (MSc):** Amanda Brown from the University of British Columbia is the winner of the Entomological Society of Canada’s MSc postgraduate scholarship. Amanda is working in organic apple orchards in the Similkameen Valley of British Columbia to develop an integrated pest management strategy for the Rosy Apple Aphid. The densities of this introduced pest of apples vary greatly from orchard to orchard and Amanda is working with orchardists to discover the cause of this variation in aphid density. In addition, Amanda is attempting to predict when is the best time in the autumn for spraying reproductive aphids that are returning to the apple trees. She is testing several types of sprays that are acceptable to organic farming to reduce the aphid populations before the next spring.

**ESC Postgraduate Scholarship (PhD):** The Entomological Society of Canada’s PhD postgraduate scholarship went to Michelle Franklin, also from the University of British Columbia. Michelle has been studying the development of resistance to *Bt* in greenhouse populations of cabbage loopers. She has found that heavy use of *Bt* followed by successful overwintering of moths leads to the development of *Bt* resistance and that resistant moths can move among greenhouses carrying the genes for resistance with them. Michelle is also studying the genetic structure of greenhouse and field populations of cabbage loopers.

Congratulations to these award winners and thanks to those other applicants.

Judy Myers, Chair  
ESC Scholarship Committee.

## Applying for ESC Scholarships and Awards

Are you thinking about applying for the meeting travel award or planning ahead to next year and applying for one of the ESC scholarships? Here are some words of advice.

1. Read the announcement on the web site carefully. We are going to attempt electronic submission in the future and details will be given there.
2. Make certain that all of the requested materials are submitted and in the order requested.
3. Follow up with your referees to confirm that they have submitted letters.

We had considerable problems this year with incomplete applications, applications that had to be collated once they arrived, and applications with insufficient copies. By going to electronic submission I am hopeful that these problems will be solved in the future but it is good to always spend the time on the application to develop the best package possible.

## Modalités d'application pour les bourses et prix de la SEC

Considérez-vous appliquer pour la bourse pour assister à la réunion annuelle ou planifiez-vous déjà d'appliquer pour l'une des bourses de la SEC l'an prochain? Voici quelques conseils.

1. Lisez attentivement l'annonce sur le site Internet. Nous allons introduire les soumissions électroniques dans le futur et les détails y seront fournis.
2. Assurez-vous que tous les documents requis sont soumis dans l'ordre demandé.
3. Faites un suivi auprès de vos références afin de confirmer qu'ils ont soumis leurs lettres.

Nous avons eu des problèmes considérables cette année avec les applications incomplètes, les applications qui ont dû être assemblées une fois arrivées, ainsi que les applications avec un nombre insuffisant de copies. En passant aux soumissions électroniques, j'espère que ces problèmes seront résolus dans le futur, mais il est toujours essentiel d'investir le temps nécessaire sur votre application afin de monter le meilleur dossier possible.



Alicia Leroux

What is it? (Answer on p. 97)

### **Diptera Unit – Canadian National Collection of Insects, Arachnids and Nematodes (CNC), Ottawa, Canada** (<http://www.canacoll.org/diptera/>)

The Canadian National Collection of Insects, Arachnids and Nematodes (CNC) is housed in the Neatby building of the Central Experimental Farm at 960 Carling Avenue, Ottawa (go to <http://www.canacoll.org> for complete information on the CNC). The Diptera collection is considered one of the strongest segments in the CNC containing well over 2 million pinned, slide-mounted and alcohol preserved specimens. Approximately 60% of the collection is curated to the level of species or species group, and over 80% of the collection is curated to genus level. Although most specimens are from the Nearctic Region, coverage is worldwide, with impressive holdings from the Neotropics (particularly Chile and Costa Rica), the Palaearctic (especially Scandinavia, Great Britain, Austria and Spain), as well as Nepal and Uganda. In addition, 4608 primary types reside in the Diptera collection, in part through the acquisition of the Mesnil, Reinhard, Hull, W.R. Thompson and Garrett collections (go to <http://www.nadsdiptera.org/Catalogs/CNTypes/CNChome.htm> for catalogues of all primary Diptera types). A new and important tissue collection for supporting molecular studies is also held by the Diptera Unit. Three AAFC scientists, 2 retired emeritus scientists, 3 AAFC technicians, and 1 CFIA biologist currently support the Diptera Unit. Three graduate students work with members of the Unit and also provide important collection support in their areas of expertise. Research done by the Unit members is diverse, but typically is focused on systematics and phylogenetic studies of flies.

#### **Scott E. Brooks, PhD, AAFC Technician (supporting Jeff Cumming)**

Scott did his BSc and MSc at Laurentian

University, and PhD at McGill. His specialty is Empidoidea, particularly Dolichopodidae. His current research projects include collaborative taxonomic revisions of several empidoid groups (e.g., *Hesperempis* genus group, Nearctic Microphorinae, Nearctic Parathalassinae, *Cheiromyia*). A list of publications can be found at [www.canacoll.org/Diptera/Staff/Brooks/Brooks.htm](http://www.canacoll.org/Diptera/Staff/Brooks/Brooks.htm). Scott can be contacted at [brookss@agr.gc.ca](mailto:brookss@agr.gc.ca).

#### **Jeffrey M. Cumming, PhD, AAFC Research Scientist**

Jeff completed his BSc at the University of Guelph and his PhD at the University of Alberta. He is the Unit Curator of Diptera and an adjunct professor at McGill University. His research focuses on the systematics of Empidoidea, the phylogeny of Brachycera (higher flies), and the morphology of Diptera, often in collaboration with other members of the Diptera Unit. His current projects include systematic treatments of several empidoid groups (Microphorinae, Parathalassinae, *Cheiromyia*, *Hesperempis* genus group) and studies of Brachycera in Cretaceous ambers. He is also one of the editors and authors of the “Manual of Central American Diptera”. A list of publications can be found at [www.canacoll.org/Diptera/Staff/Cumming/Cumming.htm](http://www.canacoll.org/Diptera/Staff/Cumming/Cumming.htm). Jeff can be contacted at [cummingjm@agr.gc.ca](mailto:cummingjm@agr.gc.ca).

#### **Joel Gibson, PhD candidate, Carleton University (co-supervised by Jeff Skevington and Stewart Peck)**

Joel did his MSc on Blephariceridae at Iowa State University with Greg Courtney. He made a shift to higher flies for his PhD and started working on systematics of Conopidae in September 2007. Joel plans to revise the higher classification of conopids and present a phylogenetic hypothesis for the genera based on molecular and morphological data. He also intends to focus on some problems within *Stylogaster*. This will include a study





Diptera Unit Staff. From left: Monty Wood, Jeff Cumming, Jeff Skevington, Brad Sinclair, Shannon Mahony, Jim O'Hara, Scott Brooks, Scott Kelso. Absent: Joel Gibson, Morgan Jackson, Gil Gonçalves, Dick Vockeroth.

of species group relationships of *Stylogaster* and the revision of the species in at least one species group. He welcomes material collected in 95% alcohol for his project. Contact him at [gibsonj@agr.gc.ca](mailto:gibsonj@agr.gc.ca). Joel spends most of his time working in the Diptera Unit at CNC.

**Morgan Jackson, MSc candidate, University of Guelph (co-supervised by Jeff Skevington and Steve Marshall)**

Morgan has worked in the Guelph systematics lab since September 2006. He has worked on digital keys to both Ontario Stratiomyidae and Tephritidae. Watch for these in the future in the Canadian Journal of Arthropod Identification. His MSc commenced in September 2007 and will delve into systematics of Micropezidae. Specifically, he intends to revise *Taeniptera* and explore the relationships of this genus with *Poecilotylus*. As it stands, these taxa may not be monophyletic so he will be producing a phylogenetic hypothesis based on morphological and molecular data to test this. Contact him at [jackson@uoguelph.ca](mailto:jackson@uoguelph.ca). Morgan will be working in the Diptera Unit from June 2008 to January 2009.

**Scott Kelso, AAFC Technician (supporting Jeff Skevington)**

Scott spends most of his time supporting Jeff Skevington's research and running one of two shared entomology molecular labs (where he is the lab manager). He is responsible for training most of the AAFC entomology staff and graduate students who are learning these techniques for the first time. His data collection supports Jeff's phylogenetic and taxonomic research. Contact him at [kelsos@agr.gc.ca](mailto:kelsos@agr.gc.ca).

**Shannon Mahony, MSc, AAFC Technician (supporting Jim O'Hara)**

Shannon is one of the most recent additions to the permanent staff of the Diptera Unit, joining the Unit in August 2006. At that time she was finishing her MSc at Carleton University, studying hearing in butterflies with Jayne Yack. Shannon is responsible for identification of blow flies (Calliphoridae) and assists with the curation of several fly families, especially the Tachinidae. She supports Jim's research on Tachinidae in a variety of ways, but in particular has developed expertise in photography and Auto-Montage©, as well

as web pages and HTML, and is learning advanced FileMaker Pro© in order to design a sophisticated database for a multi-authored world catalogue of the Tachinidae. Contact her at [mahonys@agr.gc.ca](mailto:mahonys@agr.gc.ca).

### **Gil Felipe Gonçalves Miranda, PhD candidate, University of Guelph (Co-supervised by Jeff Skevington and Steve Marshall)**

Gil is from Brazil and he has worked with Syrphidae (Diptera) since his undergraduate years. He started working on a syrphid survey in a park in the state of Paraná. During the survey, identification of syrphid specimens was shown to be rather problematic. Afterwards, Gil was determined in solving some of the identification problems and delved into systematics hoping to understand more and facilitate species identification in the group. As a MSc candidate in the Universidade Federal do Paraná (UFPR), his project involved the problematic genus *Ocyptamus* trying to sort out the sub-groupings through cladistics. The results led to his current project that includes the revision of the *tristis* group of the genus *Ocyptamus* and a broader cladistic analysis involving it and *Ocyptamus*. He started his PhD in September 2007. Contact him at [ggoncalv@uoguelph.ca](mailto:ggoncalv@uoguelph.ca). Gil intends to spend a couple of months working in the Diptera Unit.

### **James O'Hara, PhD, AAFC Research Scientist**

Jim first became acquainted with the Diptera Unit in 1977 when he was hired as a summer student to label fly parts drawn by Roelof Idema for the "Manual of Nearctic Diptera". He was soon introduced to the Tachinidae by Monty Wood, and became so interested in the biology and systematics of this huge family that he went off to Alberta to study tachinids for his MSc and PhD with George Ball. Hired into the Diptera Unit in 1989, Jim has focused his research on the Tachinidae since that time. He has been keenly interested in developing online resources for the Tachinidae since 1997 (<http://www.nadsdiptera.org/Tach/home.htm>).

Jim is currently working on a catalogue of the Tachinidae of China and smaller systematic projects. He will soon begin a catalogue of the world Tachinidae with Monty, Shannon, and several international collaborators. They hope to unify, across all zoogeographic regions, the classification of this difficult family of about 10,000 species, and to document the families' estimated 20,000 generic and specific names. Contact him at [oharaj@agr.gc.ca](mailto:oharaj@agr.gc.ca).

### **Bradley J. Sinclair, PhD, CFIA Biologist**

Brad joined the Diptera Unit in January 2007 after 10 years studying Diptera at international labs in Fukuoka (Japan) and Bonn (Germany). Brad received his PhD from Carleton University, followed by a two-year post-doctoral fellowship at the Australian Museum in Sydney. He is the Diptera specialist for CFIA, responsible for all adult and larval identifications submitted from plant pest surveys and interceptions, including Cecidomyiidae, Agromyzidae and Tephritidae. Brad's research includes taxonomic revisions of Empidoidea (dance flies) and Thaumaleidae (seepage midges) and Diptera phylogeny. One of his current projects is a revision of the New World species of the aquatic dance fly genus *Clinocera*, expected to be published this year in the NRC monograph series. He can be contacted at [sinclairb@inspection.gc.ca](mailto:sinclairb@inspection.gc.ca).

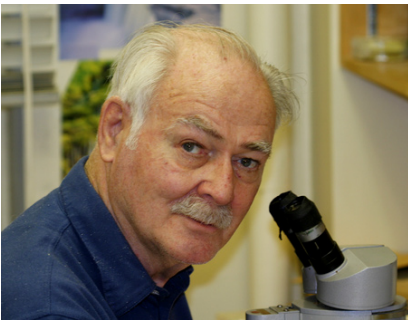
### **Jeffrey H. Skevington, PhD, AAFC Research Scientist**

Jeff obtained his BSc and MSc at University of Guelph, his BEd at Lakehead University and his PhD at University of Queensland. Jeff is a specialist on Pipunculidae (big-headed flies), Syrphidae (flower flies) and Conopidae (thick-headed flies). His current projects include taxonomic revisions of several Pipunculidae groups (Nearctic Eudorylini, *Verrallia* and *Jassidophaga*; Australasian *Microcephalops*, *Tomosvaryella*, and *Collintias*) and Syrphidae genera (*Chrysotoxum* and *Dasydyrphus*) and phylogenetic research on several lineages of flies (Lower Cyclorhapha, Diopsoidea,

Pipunculidae). One of the projects that he is currently absorbed in is producing a field guide to the Syrphidae of Northeastern North America. Contact him at [skevingtonj@agr.gc.ca](mailto:skevingtonj@agr.gc.ca). To see a list of Jeff's publications and description of his current projects, go to <http://www.canacoll.org/Diptera/Staff/Skevington/Skevington.htm>. Jeff is an adjunct professor at Carleton University and University of Ottawa and a special graduate faculty member at University of Guelph.

**J. Richard Vockeroth, PhD, AAFC Retired Emeritus Scientist**

Richard, or Dick as he is known to many of his friends, is one of the world's truly great Dipterists. He joined the Unit in 1949. His knowledge of flies is legendary. He has published papers on many families and is a world expert on Syrphidae, Muscidae, Scathophagidae and Mycetophilidae (s.l.). Most recently, he has contributed 7 chapters to the soon to be published Manual of Central American Diptera.



Dick Vockeroth.

**D. Monty Wood, PhD, AAFC Retired Emeritus Scientist**

Monty joined the Diptera Unit in 1964, taking on curatorial and identification duties for a number of dipteran families, most notably the Simuliidae, Culicidae, Asilidae, and Tachinidae. He has published most extensively on the Simuliidae and Tachinidae and on the phylogenetic relationships of Diptera. He retired from AAFC in 1986, and in 2006 was voted an honorary member of the International Congresses of Dipterology in recognition of his distinguished career in Diptera systematics. Monty has devoted much time in recent years to the "Manual of Central American Diptera", both as one of the editors and as an author of several chapters. He collaborates with numerous dipterists and other entomologists internationally, assists with the curation of the CNC Diptera collection, and works closely with Jim on tachinid projects. He will be working with Jim, Shannon, and a small team of tachinidologists for the next 5-7 years to produce a catalogue of the world Tachinidae, an ambitious project Monty has had in mind since the 1970s. Contact him at [mgwood@mac.com](mailto:mgwood@mac.com).



Jeff Skevington

The wasp-mimicking fly *Physocephala marginata* (Conopidae)

# Joint annual meeting of the Entomological Society of Canada and Entomological Society of Ontario

Oct. 19–22, 2008  
Crowne Plaza Hotel, Ottawa, Ontario, Canada

## Participant Details

First Name \_\_\_\_\_ Family Name \_\_\_\_\_

Affiliation \_\_\_\_\_

Name as it should appear on the badge \_\_\_\_\_

Street/no \_\_\_\_\_, City \_\_\_\_\_

Postal/Zip Code \_\_\_\_\_ Province/State \_\_\_\_\_

Country \_\_\_\_\_

Telephone \_\_\_\_\_ E-mail \_\_\_\_\_

Please list any special needs, such as vegetarian food preferences, food allergies, disabilities that require special attention, etc. \_\_\_\_\_

***Please note: all prices are in Canadian dollars and include applicable taxes.***

## Registration Options

Attention: Paper and Poster Submission!

In order to present an oral paper or a poster, you must register as a participant and pay your registration fee before **31 August 2008**.

### **Early Registration (before 15 August 2008)**

- |   |       |
|---|-------|
| <input type="checkbox"/> Regular Members              | \$265 |
| <input type="checkbox"/> Students and retired members | \$100 |
| <input type="checkbox"/> Students non-member          | \$140 |
| <input type="checkbox"/> Non-Members                  | \$365 |

### **One-day registration**

- |   |       |
|---|-------|
| <input type="checkbox"/> Regular Members              | \$100 |
| <input type="checkbox"/> Students and retired members | \$75  |
| <input type="checkbox"/> Non-Members                  | \$150 |

**OR**

**Late Registration (after 15 August 2008)**

- Regular Members \$365
- Students and retired members \$160
- Students non member \$200
- Non-Members \$465

**One-day registration**

- Regular Members \$100
- Students and retired members \$75
- Non-Members \$150

**Total for registration: \$ \_\_\_\_\_**

**Companion Activities**

- (Please tick this box if you would like to register a guest)

Companion's name: \_\_\_\_\_

Companion's name: \_\_\_\_\_

Companion's name: \_\_\_\_\_

- Guest ticket Banquet  
number of guest tickets: \_\_\_\_\_ @ \$60 = \_\_\_\_\_

- Accompanying member activities**

Canadian Museum of Civilization  
Tuesday 21 October: 0900 to 1600

**Cost:** \$20 per person (covers regular admission and return transportation from Crowne Plaza Hotel)  
(Note: contingent on minimum of 20 people)

\_\_\_\_\_ @ \$20 = \_\_\_\_\_

**Total for companion activities: \$ \_\_\_\_\_**

**Apparel**

For photographs and descriptions of the apparel offered for sale,

please visit <http://www.canacoll.org/JAM2008/html/apparel.html>

To order your choices, please place your order by **15 August 2008**

**Embroidered with Conference logo**

**T-shirt** (navy blue, 100% cotton; short sleeves, round neck)

I would like to order the Conference T-shirt (\$22.00) T-shirts will be made by order. A very limited number will be available during the meeting.

- 1. Ladies' T-shirt sizes and quantities ordered (S \_\_, M \_\_, L \_\_, XL \_\_, XXL \_\_)
  - 2. Men's T-shirt sizes and quantities ordered (S \_\_, M \_\_, L \_\_, XL \_\_, XXL \_\_)
- Subtotal \$ \_\_\_\_\_

**Embroidered with ESC logo**

**Fleece Pullover** (navy blue, 100% polyester. long sleeved; womens: micro fleece, fashion cut with contoured side and sleeve panels; mens: fleece, ¼ zipper with high collar and side seam pockets)

I would like to order the ESC fleece pullover (\$45.00). Fleece pullovers will be made by order only.

- 1. Ladies' fleece pullover sizes and quantities ordered (S \_\_, M \_\_, L \_\_, XL \_\_, XXL \_\_)
  - 2. Men's fleece pullover sizes and quantities ordered (S \_\_, M \_\_, L \_\_, XL \_\_, XXL \_\_)
- Subtotal \$ \_\_\_\_\_

**Hoodie** (navy blue, 95% polyester, 5% cotton; long-sleeved, light blue lined hood, kangaroo pocket)

I would like to order the ESC fleece pullover (\$45.00) Hoodies will be made by order only.

- Men's ONLY sizes and quantities ordered (S \_\_, M \_\_, L \_\_, XL \_\_, XXL \_\_)
- Subtotal \$ \_\_\_\_\_

ESO pin (\$5.00).....\$ \_\_\_\_\_

**TOTAL FOR APPAREL: \$ \_\_\_\_\_**

**Payment Details**

Registration	\$
Extra companion items	\$
Apparel	\$
<b>Total payment sent</b>	<b>\$</b>

In your registration package, we will include a receipt for registration costs only.

**Payment methods**

***Please note: all prices are in Canadian dollars.***

There are three options for payment: PayPal, money order, or cheque.

**PayPal**

You can use Visa, MasterCard, Discover, and American Express with PayPal. When you pay with PayPal, you do not expose your credit card number or bank information to the payment receiver. PayPal payment is available to everybody. It is not necessary to have a PayPal account to use it. you don't have a PayPal account you will be asked to enter your personal information and your cr

card or bank account information. If you have a PayPal account you will be asked to enter your email address and your password in order to complete the transaction. PayPal uses "cookies". Make sure that your browser accepts them.

- Money Order**
- Cheque**

Cheques and money orders are to be made payable to "ESC/ESO JAM"

## Conditions of Participation

**Registration** will not be processed without accompanying payment of fees.

### **Cancellation Policy**

**Cancellations** will only be accepted in written form via e-mail or letter.

Before 15 August – full refund

16 August to 29 September – 40% refund

On or after 30 September – no refund

**Liability** The local organiser is not liable for any losses, accidents or damage to persons or objects, regardless of the cause. Participants and accompanying persons attend the conference and all accompanying events at their own risk and responsibility.

- I hereby acknowledge the conditions of attendance (acknowledgement required for registration)**

## How to Submit

Please fill in this registration form, enclose your money order or cheque, and send to:

Dr. Peter Mason  
Agriculture and Agri-Food Canada  
Central Experimental Farm  
K.W. Neatby Building,  
960 Carling Avenue  
Ottawa, Ontario, K1A 0C6, Canada

# Réunion conjointe de la Société d'entomologie du Canada et de la Société d'entomologie de l'Ontario

19-22 octobre 2008  
hôtel Crowne Plaza, Ottawa, Ontario, Canada

## Participant

Prénom \_\_\_\_\_ Nom de famille \_\_\_\_\_

Affiliation \_\_\_\_\_

Nom comme il doit apparaître sur la cocarde d'identification \_\_\_\_\_

Adresse \_\_\_\_\_, Ville \_\_\_\_\_

Code postal/Zip \_\_\_\_\_ Province/ État \_\_\_\_\_

Pays \_\_\_\_\_

Téléphone \_\_\_\_\_ Courriel \_\_\_\_\_

Veuillez énoncer vos besoins spécifiques tels que repas végétarien, allergies alimentaires, condition qui nécessite une attention particulière, etc. \_\_\_\_\_

***Veillez noter: tous les prix sont en dollars canadiens et incluent toutes les taxes applicables.***

## Inscription

Attention : soumission de votre résumé pour présentation orale et affiche!

Pour faire une présentation orale ou présenter une affiche, vous devez vous inscrire comme participant et payer les frais d'inscription avant le **31 août 2008**.

### **Inscription hâtive (avant le 15 août 2008)**

Membres réguliers 265 \$

Étudiants et membres retraités 100 \$

Étudiants non-membres 140 \$

Non-membres 365 \$

### **Inscription pour une journée seulement**

Membres réguliers 100 \$

Étudiants et membres retraités 75 \$

Non-membres 150 \$



**OU**

**Inscription tardive (après le 15 août 2008)**

- Membres réguliers 365 \$
- Étudiants et membres retraités 160 \$
- Étudiants non-membres 200 \$
- Non-membres 465 \$

**Inscription pour une journée seulement**

- Membres réguliers 100 \$
- Étudiants et membres retraités 75 \$
- Non-membres 150 \$

**Inscription seulement: total inclus:** \_\_\_\_\_ \$

**Accompagnateurs**

**Pour accompagnateurs**

- (SVP cochez cette case si vous voulez inscrire un invité)

Nom de l'invité: \_\_\_\_\_

Nom de l'invité: \_\_\_\_\_

Nom de l'invité: \_\_\_\_\_

- banquet pour l'invité (ou les invités)  
 Nombre d'invités pour le banquet: \_\_\_\_\_ × 60 \$ = \_\_\_\_\_

- Activités pour personnes accompagnatrices**

Musée Canadien des Civilisations

Mardi 21 octobre de 9h à 16h.

**Tarif** : 20\$ par personne (inclut un billet d'entrée et transport aller-retour de l'hôtel Crowne Plaza)

(Note : pour groupe d'au moins 20 personnes.)

\_\_\_\_\_ × 20 \$ = \_\_\_\_\_

**Paiement pour accompagnateurs : total inclus:** \_\_\_\_\_ \$

**Prêts-à-porter**

Pour une description et une photo de chaque item en vente,

veuillez visiter <http://www.canacoll.org/JAM2008/html/apparel.html>.

Veuillez faire votre commande avant le 15 août 2008.

### Brodés avec le logo de la conférence

**T-shirt** (bleu marin, 100% coton, à manche courte et col rond)

Je veux commander un t-shirt de la conférence (22.00 \$). Les t-shirts seront faits sur commande seulement. Un nombre très limité sera disponible durant la conférence.

1. Taille et quantité de T-shirts pour femmes (S\_\_\_, M\_\_\_, L\_\_\_, XL\_\_\_, XXL\_\_\_)  
2. Taille et quantité de T-shirts pour hommes (S\_\_\_, M\_\_\_, L\_\_\_, XL\_\_\_, XXL\_\_\_)

Sous-total: \_\_\_\_\_ \$

### Brodés avec le logo de la SEC

**Chandail de laine polaire ou de laine 'microfibres'** (bleu marin, 100% polyester, à manche longue, fermeture éclair ¼ avec haut col; pour femmes : laine microfibres, coupe ajustée à la silhouette; pour homme : laine polaire, avec poches latérales)

Je veux commander un chandail de la SEC (45.00 \$). Les chandails seront faits sur commande seulement.

1. Taille et quantité de chandails pour femmes (S\_\_\_, M\_\_\_, L\_\_\_, XL\_\_\_, XXL\_\_\_)  
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**Chandail kangourou** (bleu marin, 95% polyester, 5% coton, à manche longue, capuchon avec bordure bleu pâle, et poche kangourou)

Je veux commander un chandail kangourou de la SEC (45.00 \$). Les chandails kangourou seront faits sur commande seulement.

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Sous-total: \_\_\_\_\_ \$

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participent à la conférence et aux autres activités proposées lors de la conférence le font à leurs propres risques et en assumant l'entière responsabilité.

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**Méthode de paiement**

***Veillez noter: tous les prix sont en dollars canadiens.***

Il y a trois options de paiement: paiement en ligne (PayPal), par mandat bancaire, ou par chèque.

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Vous pouvez utiliser Visa, MasterCard, Discover, and American Express pour faire un paiement avec PayPal. Lorsque vous payez avec PayPal, vous n'exposez pas votre numéro de carte de crédit ou vos informations bancaires au bénéficiaire du paiement. Le paiement par PayPal est disponible à tous. Il n'est pas nécessaire de détenir un compte PayPal pour l'utiliser. Si vous n'avez pas de compte PayPal, vous devrez fournir vos coordonnées personnelles ainsi que votre numéro de carte de crédit ou vos coordonnées bancaires. Si vous avez un compte PayPal, vous devrez fournir votre adresse courriel et votre mot de passe pour compléter la transaction. PayPal utilise les "cookies". Assurez-vous que votre navigateur les accepte.

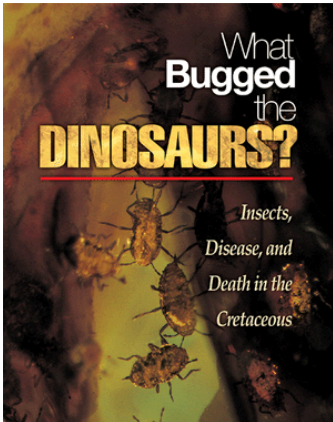
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- Chèque**

Les mandats bancaires et les chèques doivent être émis en dollars canadiens au nom de "ESC/ESO JAM".

Veillez remplir ce formulaire et nous le faire parvenir avec votre chèque ou mandat à :

Dr. Peter Mason  
 Agriculture et Agroalimentaire Canada  
 Ferme expérimentale centrale  
 Édifice K.W. Neatby  
 960 Avenue Carling  
 Ottawa, Ontario, K1A 0C6, Canada



*What Bugged the Dinosaurs?* Poinar, G Jr. & Poinar, R. 2008. Princeton University Press, Princeton, NJ, USA. 312 pp. ISBN13: 978-0-691-12431-5. US\$29.95, hard cover.

In *Jurassic Park*, Michael Crichton brings dinosaurs back to life by reconstituting their DNA from blood recovered from mosquitoes trapped in ancient amber. The use of a familiar and pesky nuisance as the medium for time travel was a clever science fiction ploy. In *What Bugged the Dinosaurs?*, the Poinars have attempted to reclaim this bit of fiction for science. They draw upon their professional experience as pathologists and their clear passion for all things amber to consider how those millions of Davids pestered the Goliaths of the Cretaceous.

While there is a fair amount of descriptive scientific information in this book, the authors mostly focus on painting a picture of an ancient world not unlike today's where the mighty are plagued by the minute; a diverse parasitic fauna that varies from the innocuous to the deadly. They do a good job of making the reader aware that by the time dinosaurs ruled (or perhaps not), the world was already fully occupied by most of the modern, major insect groups and their microbial associates. There were well-established host-vector relation-

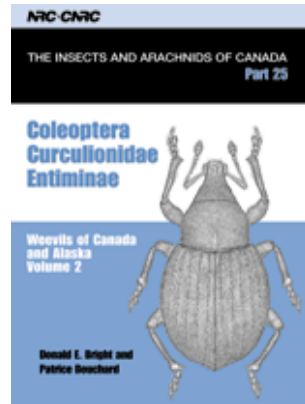
ships and all the ingredients for epidemics and chronic-wasting diseases painfully familiar in modern times. The authors ask, reasonably, "Why then shouldn't we consider that the formidable *Tyrannosaurus rex* may well have had an ignoble tapeworm or two resulting in loose stools?". On that scientific note, scarab devotees will appreciate the Poinars' calculations of just how much scat a herd of sauropods might produce and the prodigious succession of coprophiles it would attract. This macabre side of natural history is well played out in this book. In making their point, however, the authors sometimes overdo it. Many chapters have a preamble (in italics) that is meant to set the scene for the rest of the chapter. The prose of these preambles would cause even David Attenborough to pause in wonder. Consider, "One trembling ornithopod, with dry skin clinging to prominent ribs and vertebrae, staggered off to one side and began to vomit strands of bloodstained mucus filled with glistening, writhing roundworms". How the mighty are fallen.

The chapters themselves are organized logically beginning with an introduction to fossils and paleo-geology, through ecological interactions (herbivory, pollination, entomophagy, etc.) and ending with a survey of the major groups of sanguinary insects that have been ruining a day in the woods for more than 100 million years. But the ecological story becomes repetitive and loses its drama as the authors simply transcribe well-known parasitological scenarios back in time with little real evidence or analysis of what it might have meant beyond its unsurprising existence. There is a clear intent to dangle the notion that these infestations were, to a greater or lesser extent, part of that most fascinating of natural history parlor games; why did dinosaurs go extinct? Certainly the publishers have few reservations against pumping that angle as their promotional flyer proclaims, "Insects - not asteroids, climate change or volcanic eruptions - led to the demise of the might dinosaurs". Note the absence of a question mark. Fortunately, the

Poinars mitigated this marketing temptation and keep their thesis credible and provocative, if a little unsubstantive.

*What Bugged the Dinosaurs?* is well put together. The color plates of insects in amber are worth the modest price of the book alone. There are also numerous micrographs and some homey sketches of Cretaceous life. Appendices include a useful list of insect families found in three major amber sources, an odd table of 'positive' and 'negative' characters contributing to survival of animals, and a common-sense guide to the pitfalls of interpreting the past from fossils. There are more than 300 scientific references and a full index.

Vince Nealis  
Pacific Forestry Centre  
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*Weevils of Canada and Alaska, Volume 2. Coleoptera, Curculionidae, Entiminae.* Bright DE & Bouchard P. 2008. NRC Research Press, Ottawa, Canada. xiv + 327 pp. ISBN-13 9780660194004, CAN\$59.95, hard cover, <http://pubs.nrc-cnrc.gc.ca/eng/books/books/9780660194004.html>

This is Part 25 in the excellent series of handbooks on the insect and arachnid fauna of Canada and Alaska. It is the second volume to deal with the weevils, one of the most diverse groups of beetles. The previous volume by Don Bright (Part 21, Coleoptera, Curculionoidea, excluding Scolytidae and Curculionidae) treated the primitive weevils in the families Anthribidae, Nemonychidae, Brentidae, Apionidae, Rhynchitidae, Atteblabidae, Ithyceridae and Platypodidae. This volume deals with the subfamily Entiminae. The book is in English but French versions of all identification keys are provided.

The broadnosed weevils of the subfamily Entiminae, as they are commonly called, are one of the more diverse and economically important groups of weevils in Canada and Alaska. Many species have been introduced into Canada from Europe and many species are frequently encountered in gardens or in homes and can be considered as pests. In total, 49 genera and 123 species are treated in this publication. Not all of the included species



Alicia Leroux

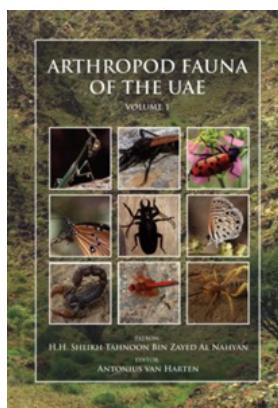
*Microplonthus millefollii* on *Tanacetum vulgare*.

are known to occur in Canada or Alaska, but based on their distributions, might be present, just not yet recorded. The book is arranged with a short introduction, including general biology, anatomy and classification of weevils, followed by a key to the subfamilies of the Curculionidae (a very important contribution in itself), followed by the detailed treatment of the Entiminae.

The treatment of the broadnosed weevils starts with a very good key to the genera. Then begins a systematic treatment of each genus including a detailed description, distribution and comments (mainly natural history) sections. For each genus, there is also a key to the species, or if there is only one species of that genus in Canada, a treatment of the species. Species treatments include a description, statement of distribution and comments. All distributions are mapped and habitus illustrations and wonderful, coloured habitus photographs are provided for many of the species. These photographs and illustrations facilitate use of the keys and in many instances are sufficient in themselves for accurate identifications. The book concludes with an excellent listing of references on these weevils.

The book is a comprehensive treatment of these weevils in Canada and Alaska. It certainly provides an excellent means for their identification and is an excellent resource for information about their biology and habits. As many of the included species also occur in the northern United States, the book should have international appeal as a resource for weevil identification there as well. It should be added to the excellent listing of already published titles in this series and deserves a place on the bookshelf of all entomologists, whether one studies weevils or just has a passing interest.

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*Arthropod Fauna of the United Arab Emirates, volume 1.* van Harten A (ed). 2007. Multiply Marketing Consultancy Services. Abu Dhabi (United Arab Emirates). 754 pp. ISBN 978-9948-03-642-5, US\$65.

Available from Dar Al Ummah Printing, Publishing, Distribution & Advertising; P.P. Box 39975. Abu Dabi, United Arab Emirates; [info@daralummah.ae](mailto:info@daralummah.ae).

The United Arab Emirates (just under 84 000 km<sup>2</sup>) is situated in the east of the Arabian Peninsula, at the entrance to the Persian Gulf. Very little is known about its entomofauna, even less than in other countries in the peninsula like Saudi Arabia or Yemen. However, it will soon have one of the best inventories in the region and in most of the world, thanks to the patronage of H.H. Sheik Tahnoon Bin Zayed Al Nahyan and work carried out by a distinguished group of taxonomists under the coordination of Dr. Antonius van Harten, who has spent most of his life working in different parts of the Arabian peninsula.

The material used in preparing the book was collected in 2005 and 2007 by the following methods: light traps, Malaise traps, night lighting, baited traps, searching leaves and wood for leaf-mining and wood-boring insects, Tullgren funnel for soil and litter, and direct collection.

Recently (20 January 2008), the first volume containing the results of this great work appeared. It presents information on 79 families in 12 orders, which is about 30 percent of the families to be examined in the entire project. These families are as following:

- Order Prostigmata (Arachnida): Calligonellidae
- Order Zygentoma: Lepismatidae
- Order Ephemeroptera: Baetidae, Leptophlebiidae, Caenidae
- Order Blattoptera: Polyphagidae, Blaberidae, Blattellidae, Blattidae
- Order Psocoptera: Trogiidae, Psyllipsocidae, Amphientomidae, Liposcelididae, Pachytroctidae, Asiopsocidae, Lachesillidae, Ectopsocidae, Eliopsocidae, Mesopsocidae, Psocidae
- Order Thysanoptera: Aelothripidae, Melanthripidae, Adiheterothripidae, Thripidae, Phlaeothripidae
- Order Hemiptera: Cicadidae, Tibicinidae, Psyllidae, Triozidae
- Order Coleoptera: Histeridae, Elateridae, Melyridae, Endomychidae, Coccinellidae, Latridiidae, Rhipiphoridae, Tenebrionidae, Oedemeridae, Anthicidae, Cerambycidae, Chrysomelidae
- Order Strepsiptera: Stylopidae
- Order Hymenoptera: Platygasteridae, Eulophidae, Drynidae, Sclerogibbidae, Chrysididae, Scoliidae, Bradynobaenidae, Heterogynaidae
- Order Lepidoptera: Ethmiidae, Elachistidae, Scythrididae, Batrachedridae, Coleophoridae, Autostichidae, Brachodidae, Tortricidae, Pterophoridae, Pyralidae, Crambidae, Geometridae
- Order Diptera: Stratiomyidae, Mydidae, Phoridae, Conopidae, Lonchaeidae, Tephritidae, Chamaemyiidae, Sepsidae, Anthomyzidae, Canacidae, Heleomyzidae, Chyromyidae, Sphaeroceridae, Curtonotidae, Muscidae, Calliphoridae, Rhinophoridae.

The treatment of the families varies considerably because the number of species in each one is different, but in all cases it is correct

and informative. The descriptions of the new taxa are suitably detailed and illustrated in each group. No means have been spared in the quality of the photographs of specimens.

Five genera are described: *Hemikulina* Mendes (Zyg. Lepismatidae), *Arabopsocus* Lienhard (Psoc. Psocidae), *Alienocacculus* (Col. Histeridae), *Hartenius* Platia (Col. Elateridae) and *Pseudacritonia* Asselbergs (Lep. Pyralidae). There are also descriptions of 83 species and four subspecies. Seven new combinations and 10 synonymies are established and one species is re-established. Also, 570 species are recorded in the country for the first time.

The indexes of the volume are most useful, though a list of authors is missing. The editorial quality (paper, printed texts and figures, photographs) is very good, though perhaps the page margins are too small and the material used for binding could have been more flexible.

In summary, this is a magnificent piece of work. Its patron, the editor Dr. van Harten and almost 60 authors of the different chapters should be congratulated.

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Jeffrey Skerington

A tachinid fly of the genus *Cylindromyia*.



Corbet will be remembered above all for his books on dragonflies

### **Professor Philip Corbet: Entomologist whose work revolutionised the field of dragonfly studies**

**P**hilip Corbet was a world expert on dragonflies, which he studied first in England and later in tropical Africa, Canada and New Zealand. He was the author of books which have become entomological classics and are read throughout the English-speaking world. Few have done more to establish the present-day science of odonatology and the popularity of dragonflies as “birdwatcher’s insects”. To borrow the name of his favourite insect, in the dragonfly world Corbet was an Emperor.

He was also an authority on aquatic insects more generally, including mayflies, caddisflies and, especially, mosquitoes. He became a strong advocate for biological control, using

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*Reprinted by permission from The Independent, Obituaries, 28 February 2008. Philip received the ESC’s Gold Medal Award in 1974.*

natural insect predators, instead of chemicals, to suppress pests. And, wearing his broader zoological hat, he repeatedly warned of the consequences of the human population exceeding its biological “carrying capacity”. The biological principles which govern the size of animal populations apply inescapably, in Corbet’s view, to human beings.

When Corbet began to study the life-cycles of British dragonflies in the early 1950s, very little was known about them. With Norman Moore, he was the first to glimpse their inner lives by acute observation in the field allied to well-designed experiments in the laboratory. His PhD thesis, published in 1953, showed that British dragonflies can be divided into two groups. One, including the Emperor dragonfly, complete their growth as larvae in the autumn and all emerge at about the same time in the spring. The other group overwinter as larvae at various stages of growth and the adults emerge in ones and twos over many weeks.

Corbet was a patient and astute insect-watcher. To observe dragonflies as they emerged from the pond, he would make his way to the waterside in total darkness. Hence he was the first person to describe a mass emergence of Emperors. By shining his torch, he found “the branches and trunks of trees thickly festooned with motionless dragonflies, each with its glistening wings folded over its back”. An hour before sunrise, they simultaneously began to rustle and vibrate their wings with an eerie whirring sound; and, still before the sun rose, “the air seemed filled with ghost-like dragonflies, rising up into the mist and flying away out of sight”.

Such intimate glimpses of the dragonfly’s world gave the young Corbet an intuitive sense of it must be like to be one. “I find it a stirring thought”, he wrote, “that each day of a dragonfly’s life it must repeatedly choose how it will spend its precious time and energy.” Over a lifetime he seems to have read every significant paper on dragonfly biology the world over, and his amazing memory enabled



him to roam over current topics with familiarity. His writings managed to leaven scientific rigour with an obvious enthusiasm for, and delight in, his winged subjects.

Corbet will be remembered above all for his books on dragonflies. The first, called simply *Dragonflies*, and written with Norman Moore and Cynthia Longfield, is a volume in the celebrated Collins New Naturalist library. In the spirit of that series it successfully married traditional natural history with challenging science on growth, regulation and migration. Ahead of its time in 1960, it is now seen as a classic; a reprint in 1985 sold out within a month.

His subsequent book *A Biology of Dragonflies* (1962), published in Britain and America, drew on Corbet's experience in Africa, as well as Britain, and established him as a worldwide authority on dragonflies. When the opportunity came to revise it, in 1999, Corbet produced what is effectively a new book, *Dragonflies: behaviour and ecology of Odonata*. At 830 pages, and including 4 000 references, it is one of the most authoritative monographs on any group of insects. The book was widely praised. "Before 1999", wrote one reviewer, "it was difficult to imagine the science of odonatology without Philip Corbet. Now it is impossible." Another said that dragonfly study would never be the same again: Corbet's book had "revolutionised the field". Few doubted that it would be the standard work on the subject for years to come.

Corbet died while completing the final stages of a new book, *Dragonflies*, which he co-authored with Stephen Brooks. The book is expected to go on sale in the spring.

Philip Corbet was born in 1929 in Kuala Lumpur, Malaya where his father, Alexander Steven Corbet, worked as a microbiologist for the Rubber Research Institute. His home life was pervaded by his father's love of natural history, and both Philip and his sister Sarah were to become distinguished entomologists. Father and son were separated for five years during the Second World War when Philip left for New Zealand with his mother, Irene, while

Steven Corbet watched for fires on the roof of the Natural History Museum where he worked as Deputy Keeper of Entomology. The family was reunited in 1945, but Philip's father died three years later.

Philip attended Nelson Boys' School in New Zealand and completed his schooling at Dauntsey's in Wiltshire. He went on to read Zoology at Reading University where, despite having had only a year's formal schooling in biology, he passed with first-class honours and was awarded the Colin Morley Prize for Zoology. Corbet went on to study for a doctorate at Gonville and Caius College, Cambridge where he chose "the seasonal ecology of dragonflies" as his research topic.

Between 1954 and 1962, Corbet was employed as an entomologist by the East African High Commission in Uganda where he studied food-chains in Lake Victoria and later specialised in the behaviour and ecology of mosquitoes. There he led the field team that detected the insect vector, a mosquito, which caused the epidemic of O'nyong-nyong Fever in Uganda and Kenya.

With career prospects for expatriates diminished by Uganda's independence in 1962, he accepted the offer of a research post in Canada. There he led the team that diagnosed and subsequently suppressed the biting insect nuisance on St Lawrence River that had threatened the viability of the World Exhibition (Expo 1967) at Montreal.

His career as a full-time research entomologist effectively ended that year when he was appointed Director of the Canada Agriculture Research Institute at Belleville, Ontario. In Canada, and later in New Zealand and Scotland, Corbet served as an expert on numerous advisory bodies to do with public health, pest management, nuclear energy and nature conservation.

His personal priorities were by this time shifting from pest management to the environment; as an ecologist he saw the driving role of human population pressure in destabilising natural ecosystems and precipitating pest outbreaks. He used his opportunities as a

speaker to call for a human population policy. This culminated in 1971 in an open letter to the Canadian Prime Minister, signed by 25 senior biologists, though it failed to generate any tangible response.

From 1971, Corbet held a succession of senior university appointments, first at Waterloo University, Ontario, where he served as Professor of Zoology for three years, and next in New Zealand where he simultaneously directed the Centre for Environmental Sciences at Canterbury University and Lincoln Agricultural College. There he set up an innovative two-year MSc course in resource management which supplied a stream of well-trained graduates to influential positions in government and land-use agencies. However, finding his position insufficiently scientific for his taste, he resigned to take up the Chair of Zoology at Canterbury.

Having become the parents of a daughter in 1978, Corbet and his second wife decided to return to Europe. He accepted the foundation Chair of Zoology at Dundee University where he was head of department from 1983 to 1986. During this time Corbet served on the Nature Conservancy Council's Scotland committee and the scientific committee of the Scottish Wildlife Trust. In 1983 he was elected first president of the British Dragonfly Society.

In 1990, Corbet resigned from university administration though he continued to work on entomology at Edinburgh University, where he was appointed Honorary Professor in 1996. In that year he retired to Cornwall where he bought a converted water mill with a dragonfly pond, worked on his books, and served on the council of the Cornwall Wildlife Trust. He also loved music and played the clarinet.

Corbet's research on dragonflies and mosquitoes led to the award of doctorates from the universities of Reading, Cambridge, Edinburgh and Dundee. He was elected a Fellow of the Royal Society of Edinburgh in 1987 and awarded its Neill Medal in 2002. He also held the Entomological Society of Canada's gold medal for outstanding achievement.

From 2001 to 2003 he was president of the Worldwide Dragonfly Association.

Peter Marren

Philip Steven Corbet, entomologist: born Kuala Lumpur, Malaya 21 May 1929; invertebrate biologist, East African Freshwater Fisheries Research Organisation, Jinja, Uganda 1954-57; invertebrate biologist, East African Virus Research Institute, Entebbe 1957-62; research entomologist, Entomology Research Institute, Ottawa, Canada 1962-67; director, Canada Department of Agriculture Research Institute, Belleville, Ontario 1967-71; Professor of Biology, Waterloo University, Ontario 1971-74; Professor and Director, Joint Centre for Environmental Studies and Lincoln Agricultural College, Canterbury, New Zealand 1974-78; Professor of Zoology, University of Canterbury 1978-80; Professor of Zoology, Dundee University 1980-90 (Emeritus); three times married (one daughter); died Truro, Cornwall 13 February 2008.

### **Additional information on Philip Corbet**

**T**he excellent obituary published in *The Independent* presents a worldly picture of this eminent scientist, though omits some important information on Philip's time and accomplishments while in Canada.

After arriving in Canada in 1962, Philip continued his work on mosquitoes, studying those of the Canadian high arctic. He focused on their taxonomy, reproduction and phenology, observing that some species practice facultative autogeny, a form of ovarian development that appears to be an adaptation to the intermittent shortage of vertebrate hosts. He also observed that temperature is a critical cue for high arctic mosquito oviposition patterns. For egg laying, females select the first sites to become snow-free, hence warm up the most rapidly, leading to early hatching

and maximum development over the short arctic summer. It was this work, and his more general interest in aquatic entomology, that led to Philip's appointment as leader of the research team that advised Expo 67 on, and conducted management strategies for, biting flies and nuisance insects (shadflies) in the St. Lawrence River. While in Canada, Philip's research on Odonata was placed somewhat 'on the back burner' due to his other commitments. However, he did find the time and energy to complete Volume Three of E.M. Walker's 'The Odonata of Canada and Alaska' (University of Toronto Press, 1974).

Philip was a member of the Governing Board of the Entomological Society of Canada from 1969 to 1973, serving as President in 1971-72. As President, he was a strong, dynamic leader. He was a vigorous proponent on the Society's 1970 resolution on population limitation and resource use. As well, in 1971, he was responsible for preparation

of the Society's publication 'Pesticides and the Environment'. These two statements are regarded as landmarks in the development of the Society's role in Canadian society. In addition to receiving the Society's Gold medal in 1974, Philip was elected a Fellow of the Society in 1977.

During his Canadian tenure, Philip served on many major government committees, including the Ontario Department of Agriculture and Food Pesticide Advisory Committee, the Defence Research Board of Canada Advisory Committee on Entomological Research, the Canada Committee on Biting Flies, and the Population Task Force of the Canadian Council of Resource and Environmental Ministers.

For additional biographic information, see Bull. E.S.C. 6:66-68 (1974), 12:38 (1980), and 22:210-211 (1990).

Cedric Gillott (Saskatoon), Chair, Heritage Committee



Jeffrey Skevington

Male and female of *Criorhina nigriventris* (syrphid flies) mating on a willow flower



**William James (Bill) Turnock  
1929-2008**

From day one, Bill's vibrant personality and vast knowledge of science and the environment made a lasting impression. In short, he got the 'big picture' and had a good understanding of how the pieces of the puzzle fit together. As an entomologist, Bill studied many insect species throughout his career, but he was somewhat partial to the beetles, especially predators like the ladybeetles and carabids, possibly because he was an excellent hunter himself, but he also had a fondness for bumblebees.

Bill loved field trips, regardless of the weather or the physical demands of the work. He could be up to his knees in a forest bog or digging in a hot, dusty field; in either case he relished the 'hands on' aspect of his work. He enjoyed meeting and discussing his research with farmers and appreciated their input and suggestions. After a full day in the field, Bill delighted in trying to find a good restaurant, not necessarily the best as long as they served a good bowl of soup. Bill was a soup connoisseur and his rating of 'superb' spoke for itself.

Bill was born and grew up in Winnipeg, where he received his BSc Agriculture from

the University of Manitoba in 1949. His MSc in Entomology and Forestry in 1951 and his PhD in Plant and Animal Ecology in 1959 were both from the University of Minnesota. He began his career with the Canada Department of Forestry in 1949 and became part of a group based in the Whiteshell, a provincial park east of Winnipeg, studying population dynamics and biological control of forest insects with special emphasis on the larch sawfly. Over the years vast amounts of data were collected and analyzed, so much so that years later Bill still had reams of data to analyze and re-analyze, a task he loved.

Bill could quickly adapt to take advantage of nature's unpredictability. After a very strong overnight windstorm in the Whiteshell, he decided early next morning to see how many larch sawfly larvae had fallen to the ground. Some measuring jigs of various sizes were quickly assembled and off he and I went to the tamarack bog to count sawfly larvae and add another piece of data to the puzzle.

Bill's research in forest ecology continued until 1970, when he and the majority of researchers and support staff were transferred to various locations across Canada, after the closing of the Canada Department of Forestry Lab in Winnipeg. Bill became Science Advisor to the Ministry of State for Science and Technology, and he and his young family moved to Ottawa.

In 1972, Bill made the transition from Science Advisor to agricultural research, specifically integrated pest management which was his primary interest. He was to head up a new section at Agriculture Canada in Winnipeg concerned with insect pests attacking canola, which at that time was the newest and hottest crop on the market. Insects such as the bertha armyworm, flea beetles, red turnip beetle, lygus bugs and diamondback moth were all eventually studied. Known as the Integrated Pest Control Section, Bill had upwards of a dozen entomologists and a similar number of support staff under his leadership. As a result of the work of Bill's group, canola farmers today better understand the benefits

of monitoring their crops for insect pests, and have control methods that are appropriate and effective. Interspersed in his long career, Bill and his family enjoyed two sabbaticals: the Netherlands in 1966-67 and Great Britain in 1983-84. As a result of his broad experience in the natural sciences and environment, he was asked to lead or be part of Canadian missions to the USSR, Brazil, China, and the UNESCO programs: Man and the Biosphere and the Conference on Economic Development and Human Survival <http://www.unesco.org/mab/mabProg.shtml>.

Bill's acute curiosity about natural phenomena, particularly insect behaviour often led to some interesting unofficial research. On one of our field trips returning from Swan River, Manitoba, Bill and I stopped at a place along Lake Manitoba called Lily Bay. It was a beautiful fall day, sunny and warm, the lake was like glass. Upon reaching the lakeshore, the sight that met our eyes was astonishing. The rocks, driftwood and other debris were covered with millions of ladybeetles and more were slowly floating in. While my attention was on taking a few pictures and skipping stones across the water, Bill's attention was focused on jotting down notes and posing the question 'Why are they here?' It wasn't long before we were off to the University of Manitoba Field Station at Delta Beach, Lake Manitoba, to count and identify ladybeetles and the unofficial field study began. Several years and numerous trips later the simple answer to the question was that the beetles were attempting to reach the berm high above the beach and over-winter in the heavy vegetation.

As part of Bill's dedication to his profession, he served as President of the Entomological Society of Manitoba (1969) and the Entomological Society of Canada (1980). In recognition of his contributions to entomology and his work within the Entomological Society of Canada (ESC) he was made a Fellow of the ESC in 1983. He was a member of the Manitoba Environmental Council from 1973-2000, serving as chair for six years offering expert advice on controversial issues such as mosquito abatement, Dutch elm

disease and the hog-processing industry. In keeping with his passion for gardening, Bill began volunteering in 1997 on the Prairie Garden Committee and participated in the publication of *The Prairie Garden* <http://www.theprairiegarden.ca/index.html>. He was also an enthusiastic member of the Friends of the Field Station at Delta Beach.

In a remarkable career spanning 44 years, Bill published over 80 refereed scientific papers, as well as numerous notes, extension articles and press releases. Although he officially retired from government service in 1993, retirement from research was the last thing on his mind and he continued to analyze data and published an additional 17 scientific papers. During official retirement he continued an active interest in insect cold-hardiness that captured his attention late in his working career, keeping up on the literature, and contributing to international meetings on the topic. In August 2003, he presented the paper "How did cold hardiness evolve in insects?" at TEMP 2003 – International Symposium on Animal and Plant Cold Hardiness, in the Czech Republic. His last paper on this topic was a review with data taken from over 100 papers: Turnock, W.J, Fields, P.G. 2005. Winter climates and coldhardiness in terrestrial insects. *Eur. J. Entomol.* 102: 561–576; [http://www.eje.cz/pdf/articles/1037/eje\\_102\\_4\\_561\\_Turnock.pdf](http://www.eje.cz/pdf/articles/1037/eje_102_4_561_Turnock.pdf). His last scientific publication came in July 2007: W.J. Turnock, P.G. Kevan, T.M. Laverty, L. Dumouchel. Abundance and species of bumble bees (Hymenoptera: Apoidea: Bombinae) in fields of canola, *Brassica rapa* L., in Manitoba: an 8-year record. *Journal of the Entomological Society of Ontario* 137: 31-40; [http://www.entsocont.com/JESO/137\\_31-40.pdf](http://www.entsocont.com/JESO/137_31-40.pdf).

At the end Bill accepted the hand he was dealt without complaint or malice. He died of lymphoma on April 5, 2008. Bill loved his work and left us all with memories of good times and a job well done.

submitted by Bob Bilodeau, who had the pleasure of working with Bill for almost 25 years)



**Ed Becker**  
**1923-2008**

**D**r. Ed Becker passed away on May 13, 2008 at the age of 85. He was a research scientist at Agriculture and Agri-Food Canada from 1952-1980 working as a taxonomist at the Canadian National Collection of Insects, Arachnids and Nematodes (CNC) in Ottawa. His area of expertise was the systematics of click beetles (Coleoptera: Elateridae), which include many Canadian crop pest species. During his life, he published 36 scientific articles, book chapters and reviews. Following retirement, he became an Honorary Research Associate and continued to come into work nearly every day for the past 28 years.

A more complete obituary will appear in the September issue of the Bulletin.



Steve Marshall

*Ampedus vitiosus* (Elateridae)

## Interim meeting of the Executive Council, April 26, 2008

Rick West, Secretary

### Trustee Positions

Rick West was appointed as the new Webmaster on April 9, 2008, replacing Barry Lyons. The search to find a replacement for R. West as Secretary continues.

### Strategic Review – Committee Structure

A list of minor changes to the Committee Guidelines will be prepared for approval by the Board in October.

### Electronic Balloting

P. Fields investigated the forms/template used by the Entomological Society of America to provide electronic balloting to its members and determined that it does not increase the number of votes but has the advantage of being paperless. The system used by the ESAmerica will be tested in 2008, but not implemented until the appropriate changes to Standing Rules and Guidelines have been approved have been made by the Board and Membership.

### Finances

A report and summary analysis of the Society's financial status was presented by P. Bouchard. In 2007, net revenue was \$7 023 compared to a net expenditure of \$17 584 in 2006. Increased income in 2007 was primarily due to increased subscription income. At the recommendation of the Treasurer, the Executive approved that Standing Rule II (Dues) be changed to charge student members outside of Canada the equivalent of \$25 Cdn in US dollars, rather than a flat fee of \$18US. This recommended change will be brought to the Membership for a vote. Major changes to societal activity or financial practices are not recommended to hold expenses down.

### Postal Charges

Postal charges need to be applied separately for publications because current postal rates now result in a net loss for some transactions. Several motions were passed by the Executive Council, but need to be checked by the Bylaws, Standing Rules and Regulations Committee. Motions approved by the Executive Council may need further approval by the Board and General Membership (in the case of Standing Rule Changes) before the changes can come into effect.

### Page Charges for Members

The Finance Committee recommends that *subscription rates for TCE remain comparable with other Affiliated Journals and therefore recommends against any further reduction in member page charges*, which would reduce profitability of the *TCE* and add pressure to increase subscription rates. The Finance Committee was asked to compare page charges for *TCE* to other entomological journals.

### TCE Institutional Rates and Currency Neutrality

Recent approved changes to membership fees state that USA & International rates are in Canadian dollars "or equivalent in US dollars". This was done in order to better achieve currency neutrality. At the recommendation of the Finance Committee, the Executive Council seconded that *subscription rates for USA and other institutions likewise be quoted in Canadian dollars or equivalent in US dollars*.

The Committee recommended against another increase in subscription rates that would increase the discrepancy between *TCE* and other NRC affiliated journals. In order to increase revenue/decrease costs without an explicit change in rates and at the recommendation of the Finance Committee, The Executive approved that *2009 institutional rates remain the same as for 2008 but include TCE only* (current rates include *TCE* and *Bulletin*), *and that institutions be provided the option of obtaining the Bulletin (printed) for*,

*e.g., an additional \$20 in Canada and \$40 USA and other, with "online only" or "both" subscriptions of TCE additionally obtaining the Bulletin online at no cost (URL for Internet access plus e-mail notification given to such subscribers similar to members when a new issue of the Bulletin is online).*

The Bylaws, Rules and Regulations Committee was asked to determine if any Standing Rule and/or Committee Guideline needs to be changed to bring the above items into force and to provide the appropriate wording, if required.

The Committee further recommended that 2009 international airmail delivery rates for printed TCE be \$90 and for printed Bulletin "only" be \$10. Finally, the FC recommends that the line "we cannot discount these prices to agents or individual libraries" be deleted from the 2009 rate form and that agent discounts be permitted at the discretion of the Treasurer when appropriate.

It is the recommendation of the Executive Council that appropriate international airmail delivery rates be determined by the Treasurer in consultation with the Finance Committee without additional approval by the Board or Membership every time a rate change is required. The Bylaws, Rules and Regulations Committee is asked to determine if any Standing Rule and/or Committee Guideline needs to be changed to bring this recommendation into force and to provide the appropriate wording, if required.

### **Online Purchasing**

The Society has a PayPal account and this may make it easier for members to pay membership fees, make scholarship donations, and purchase Annual Reviews, Memoirs and other items. However, PayPal charges a fee for this service, which like mailing costs further reduces net profitability of any transaction. The Finance Committee recommended that *once the magnitude of PayPal service fees are known and before the service is provided to members, an offsetting surcharge be added for all member transactions except scholarship donations.* The Finance Committee would like

to see a similar surcharge introduced for credit card payments, but this is not possible with existing agreements. The Chair of the Bylaws, Standing Rules and Regulations Committee was asked to confirm whether or not any changes to the Standing Rules or Guidelines are required to permit the levying of surcharges to recover costs of using online purchasing through agents such as PayPal.

### **Other Means of Reducing Expenses and Increasing Revenue**

**Reprints.** At the recommendation of the Finance Committee, the Executive Council approved that Standing Rule XII.6 be changed so that explicit PDF and paper reprint fees are not stated, but that these fees be determined by the Treasurer in consultation with the Finance Committee annually, based on invoiced costs to ESC from the printer, in order to ensure that the ESC does not incur a net negative return on reprint sales. The Chair of the Bylaws, Rules and Regulations Committee was asked to provide the appropriate wording for this Standing Rule Change, in consultation with the Finance Committee Chair, so that it can be voted on by the Board and Membership.

**Membership fees** currently are \$84 in Canada and \$100 elsewhere. The increased non-Canadian membership fee reflects increased mailing costs for TCE, Bulletin and other member mailings. Most other NRC Affiliated Societies charge a single membership rate, but additional separate charges for journal subscription depend on whether the member is in Canada or outside Canada. The Finance Committee recommends that *the Executive and Membership Committee investigate the feasibility and implications of offering TCE to members similar to that proposed for the Bulletin, that is, an Internet version of TCE be included as part of membership but if hard copy is requested then an additional postal surcharge be applied. If this change is ultimately approved, the Committee further recommends that a single fee be introduced for all members regardless of location (higher costs of member mailings outside of Canada would be absorbed by the Society).* The lower fee to non-Canadian



members could increase foreign membership and should be marketed as such.

The Executive Council approved that the Membership Committee review the above recommendations by (and in consultation with) the Finance Committee and provide the Chair of the Bylaws, Standing Rules and Regulations Committee with final recommendations on Membership fee changes so that changes to Standing Rules can be worded correctly and voted on.

**Gold Medal Award.** The Achievement Awards Committee will determine how the cost of producing the Gold Medal can be reduced, either by using some suitable metal other than gold and/or by creating a new medal that can be made in bulk at a reduced cost

**Bulletin Costs.** Currently, the Society uses a direct mail service company for mailing, which adds an additional cost above postal charges. With the reduced number of Bulletins anticipated if the above recommendations are approved, the Committee recommends *that mailing of the Bulletin be handled by Headquarters*. Canada Post will pick up the mailings at Headquarters, already offers a discount on postage within Canada, and has bulk mailing through the USA. The Office Manager is currently requesting quotes from local companies in Ottawa to have the Bulletin printed to acceptable standards and delivered to Headquarters.

**Professional Fees.** The 2007 audit was based on both manual and electronic books. The 2008 audit will be based only on electronic books and the FC therefore expects that audit professional fees will decrease for 2008.

**Meetings – Interim Meeting of the Executive Council.** In lieu of an interim meeting in Ottawa in 2009, several conference calls will be scheduled to address specific issues following consultations between the President and Committee Chairs. A conference call will be held in May 2009 to discuss budget and financial issues.

**Printed Meeting Programs.** The Committee recommended that *all information on award winners (Gold medal, Hewitt, etc.) be*

*published only within the Joint Annual Meeting Program and subsequently in the Bulletin and no longer be printed as brochures and given individually to meeting participants.*

This change in procedure will require close interaction between the Achievement Awards committee and scientific program committee of the JAM to ensure that the information in both languages is provided for the Program prior to deadline for its publication. It is possible that it is too late to introduce this change for the 2008 annual meetings in Ottawa, but if approved by the Board, an action item should be sent immediately to the Achievement Awards and Annual Meeting committees for consideration.

The Executive Council agreed with the above recommendation and the Chair of the Bylaws, Standing Rules and Regulations Committee was asked to confirm that the only change required to enact the above is a change to Duty 8 of the Guidelines for the Awards Committee, replacing,

“Orders the Awards: has the Gold Medal struck (ordinarily arranged by the Treasurer) and the Hewitt Trophy manufactured (ordinarily arranged by the Treasurer) and has the bill sent to the Treasurer. Prepares 200 copies of separate printed brochures (printing ordinarily arranged by the Bulletin Editor) containing the citation and a biographical sketch with a picture of each Award winner, and a brief explanation about the award, and has the bill sent to the Treasurer.”

with

“Orders the Awards: has the Gold Medal struck (ordinarily arranged by the Treasurer) and the Hewitt Trophy manufactured (ordinarily arranged by the Treasurer) and has the bill sent to the Treasurer. *Ensures that the citation and a biographical sketch with a picture of each Award winner, and a brief explanation about the award, is printed in the Conference Program and that copies of the citations are provided to the Award winners.*”

### Scanning Back Issues of the Journal and Memoirs

The Ad hoc Committee to develop a business plan for the Society (Chair P. Fields, G. Ball, R. Bennett, C. Buddle, R. Lamb and G. Moreau) recommended two options to scan back issues of *TCE* and Memoirs, JStor or NRC Press. Details are provided at <http://tce-future.wikispaces.com>. The Ad hoc Business Committee is asked to decide which option to take in consultation with the Finance Committee and make a recommendation to the Board for action.

### DVPCC Book Sales

One request for a multi-use license from a school was received. A multi-use fee of \$100 was suggested and will be discussed with the Canadian Phytopathological Society.

### Scientific Editor

The Editor expressed his disappointment in the small number of manuscripts submitted by ESC members. As of 31 March 2007, Division Editors are: Gilles Boiteau (Divisions 4&6), Chris Buddle (Division 5), Yvan Pelletier (Division 3), and Terry Wheeler (Division 2). Staffan Lindgren was appointed as an Associate Editor and will start work in July 2008. Fifty-eight manuscripts were received during the period 1 October 2007 to 31 March 2008. Nine have been accepted, 15 are in review or being revised, 34 have been rejected (includes 25 rejected by the Editor-in-Chief or a Division Editor without further review).

### Editor - Bulletin

In January, Fred Beaulieu replaced Marjorie Smith as the Assistant Editor. The transition has been smooth with completion and posting of the March issue on schedule.

### Advertising in the Bulletin

The Editors have been asked to consider publishing advertisements in The Canadian Entomologist and the Bulletin. The Society has no formal policy in this regard. However, the Bulletin Editor is open to doing so on a case-by-case basis as has been done in the

past; e.g., 2007 June issue of the Bulletin (p. 77). The Executive Council agreed that complimentary exchanges of ads were appropriate and assigned the Marketing Committee to create a jpg ad for exchange purposes.

### Web Site

Rick West was appointed as the new webmaster on April 9, 2008. The new site is housed on the BlackSun server in Saskatoon under the domain name, esc-sec.ca. The existing domain, esc-sec.org, will be protected and bounced to esc-sec.ca. Finance Committee was asked to review the honorarium for the Webmaster and Assistant Webmaster, if one is appointed.

### Publications Committee

About 20 books were recently received for review. The new policy statement regarding the use of material from journal has been a big help in dealing with requests. The Board is encouraged to ask members to submit material for the 2009 covers of *TCE* and Bulletin. The issue of copyright of CD copies of the Memoirs needs to be investigated. P. Fields will discuss this issue with the Chair of the Publications Committee.

### Achievement Awards Committee

The selection of Dr. Bernard Roitberg as the 2008 Gold Medal was approved by the Board by email ballot. President Shore informed Dr. Roitberg who was very pleased with this honour. There were no nominations for the C. Hewitt Award for 2008.

### Student Conference Travel Award Guidelines

The Finance Committee was asked to determine answers to the following questions from the Bylaws, Standing Rules and Regulations Committee regarding the Student Conference Travel Award:

- 1) Who decides that more than one award can be awarded annually?
- 2) When is this decision made?
- 3) What financial requirements must be met before more than one award can be made?

### **Heritage Committee**

Plans are underway to examine more of Paul Riegert's material, now in the University of Saskatchewan Archives, with a view to placing appropriate items on the website.

### **Student Awards Committee**

Chair J. Myers is considering writing an article for the Bulletin about how to submit an application for the research travel awards in terms of collating the 4 copies etc. and on the terms of these awards. She is also considering having a trial run for the meeting travel award applications to have them submitted by email. The Travel award will not be awarded in 2008 because the nature of the proposals received did not fully meet the criteria for the award. The Student Awards Committee was invited to recommend changes to the research travel award for approval by the Board, if the Committee feels that the present award guidelines are too restrictive. The President will inform the Chair of the Student Awards Committee that funding for one Student Conference Travel Award every year is presently allowed.

### **Science Policy Committee**

Entomological Society of Manitoba has formally requested \$200 in writing to support their Youth Encouragement program. The Entomological Society of Alberta will also be placing a request for funds.

### **Invitation to the ESC to Join COPUS**

Further to a request from AIBS to join the COPUS (Coalition of Public Understanding of Science) Initiative, Chair M. Evenden discussed the benefits and responsibilities with Richard Levine (Entomological Society of America). He said that there appeared to be no cost associated with membership (monetary or otherwise), but that the benefits were not obvious. He did mention that ESA advertised meetings and events on the COPUS web page. When polled, the Science Policy Committee members (5 responders) were in favour of joining COPUS. A ballot to approve that the ESC join COPUS was sent to the Board and is expected to be approved.

### **Student Affairs**

The facebook group has 32 members and has had a number of items (both jobs and student positions) posted to it. It provides a forum for students to discuss items of an entomological and academic nature. Work continues on updating the Directory of Entomological Education. Both Co-Chairs will be stepping down at the end of 2008. The Executive recommended that one Chair replace the two Co-Chairs.

### **Marketing Committee**

Scanning back-issues of ESC Memoirs is still under review. A review of the current ESC brochures and recruitment poster has been initiated. While the current literature is quite adequate, some of the content of the brochure/poster should be revised to reflect more modern aspects of entomological science. As well, contact information (currently only a postal address to 393 Winston Ave) should be revised to include full contact information (phone, fax, web address).

### **Annual Meeting Committee**

The ESBC and AES were advised of their turns to hold JAM's in 2010 and 2011. The 2008 JAM in Ottawa is October 18-22, and its organization is progressing positively. The 2009 meeting will be held in Winnipeg, likely at the Delta hotel. Brent Elliott is the General Chair and Neil Holliday is the Scientific Chair for this meeting.

### **President's Prize Competition**

T. Shore continues to have discussions with the affiliate societies, however, it is difficult to standardize student awards since several regional societies have their own awards.

### **Biological Survey of Canada**

The annual BSC BioBlitz will be held in Bruce Peninsula National Park, Ontario, this June. The second annual BSC Curation Blitz will take place in Ottawa during the ESC meeting with the goal of improving curation levels in smaller entomology collections across Canada. The BSC created a vision document to give an overview of objectives and activities to

potential collaborators and funding agencies. This document is available on the BSC website. Funding from the Canadian Museum of Nature for this fiscal year (April 2008 – March 2009) is committed and in-line with the past couple of years. This will allow regular meetings and activities, as well as salaries for the two people working at the secretariat. In April 2009, the Canadian Museum of Nature will downscale their support of the BSC to approxi-

mately 1/3<sup>rd</sup> to 1/4<sup>th</sup> of current levels. The BSC Scientific Committee will be actively seeking new public and corporate partners.

### **Affiliated Entomological Societies**

Updates were received from all regional societies, but there were no requests for action.

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### **Nominations for ESC Governing Board**

The following have been nominated and agreed to stand for election in 2008 for the indicated positions. Members will receive more detailed information in the mail. The ballots must be mailed to the Elections Committee by July 15th, so PLEASE VOTE!



*Second Vice-President:* Michel Cusson (left) and Peter Mason (right)



*Director-at-Large:* Kirk Hillier (left) and Michèle Roy (right).

## Overall financial assessment of the Entomological Society of Canada

	2007	2006	2005	2004	2003
<b>Balance beginning of year</b>	<b>808,180</b>	<b>825,764</b>	<b>803,884</b>	<b>748,731</b>	<b>740,527</b>
Total revenue (General account)	224,214	202,892	206,712	217,386	209,502
Total expenditure (General account)	236,679	240,865	204,015	207,232	213,075
Excess revenue (expenditure) for year (General account)	(12,465)	(37,973)	2,697	10,154	(3,573)
Gain (loss) on sale of investment (General account)	NA	NA	(178)	250	(431)
Interest on investment (General account)	17,460	18,869	14,964	14,083	13,639
<b>Net revenue (expenditure) for year (General account)</b>	<b>4,995</b>	<b>(19,104)</b>	<b>17,483</b>	<b>24,487</b>	<b>9,635</b>
<b>Net revenue (expenditure) - Endowment fund</b>	<b>754</b>	<b>(639)</b>	<b>529</b>	<b>362</b>	<b>668</b>
<b>Net revenue (expenditure) - Scholarship fund</b>	<b>11,814</b>	<b>10,642</b>	<b>11,994</b>	<b>37,210</b>	<b>6,114</b>
<b>Expenses / taxes / depreciation of ESC Head Office</b>	<b>(10,540)</b>	<b>(8,483)</b>	<b>(8,126)</b>	<b>(6,906)</b>	<b>(8,213)</b>
<b>Balance end of year</b>	<b>815,203</b>	<b>808,180</b>	<b>825,764</b>	<b>803,884</b>	<b>748,731</b>

Negative values are in parentheses  
For full details, please see <http://www.esc-sec.ca/> and click on Member area

## Scholarship Fund

Once again the Society would like to thank and acknowledge the very generous donors to the ESC Scholarship Fund. These tax-deductible donations are very important to the Society, as it is only because of these donations that the scholarship fund is self-sustainable. Donations can be made at any time and a receipt for income tax purposes in Canada will be issued. Please make cheques payable to the Entomological Society of Canada.

## Le Fonds de bourses d'études de la SEC

La Société tient à remercier, une fois de plus, les très généreux donateurs et donatrices au Fonds de bourses d'études de la SEC. Ces dons déductibles d'impôt sont très importants pour la Société, puisque c'est seulement grâce à ces dons que le Fonds de bourses d'études est autosuffisant. Les dons peuvent être faits pendant toutes l'année, et un reçu pour fin d'impôt vous sera envoyé. Veuillez libeller votre chèque au nom de la Société d'entomologie du Canada.

### 2007 Scholarship donors – Donateurs et donatrices pour 2007

J. Robert Byers	Valin G. Marshall
D.A. Chant	Jeremy McNeil
Conrad Cloutier	Stuart Neff
John Cunningham	P.C. Nigam
John W. Dale	Jennifer Otani
Peggy L. Dixon	Imre S. Otvos
Arnold T. Drooz	Diether Peschken
Roy L. Edwards	B.J.R. Philogène
Paul Fields	David J. Pree
Gary Gibson	Heather Proctor
David R. Gillespie	Edward B. Radcliffe
Cedric Gillott	Miriam H. Richards
Ronald Gooding	Bernie Roitberg
John E. Guthrie	David M. Rosenberg
Rudolph Harmsen	J.D. Shorthouse
George T. Harvey	A.B. Stevenson
Neil J. Holliday	Richard Westwood
David Wm. Langor	David L. Wood
Staffan Lindgren	Peter J. Wood
Kenna MacKenzie	

...and those who prefer to remain anonymous

...et ceux et celles qui préfèrent rester anonyme



### Message from the New Webmaster: [esc-sec.ca](http://esc-sec.ca)

First, I'd like to thank Barry Lyons for his work for more than a decade in creating and developing [esc-sec.org](http://esc-sec.org). Nearly all of the content on the new site, [esc-sec.ca](http://esc-sec.ca), was obtained from files that Barry created and this should be gratefully acknowledged. I also want to thank the Board for their confidence in me and allowing me to create our new site under a .ca domain and with a Canadian server that I normally deal with. By the time that this issue of the Bulletin is published, entering [esc-sec.org](http://esc-sec.org) in your browser will result in a bounce to [esc-sec.ca](http://esc-sec.ca). The domain, [esc-sec.org](http://esc-sec.org), will be "parked" at a nominal cost to the Society.

My main reason for wanting to be the ESC webmaster was that I wanted to continue to contribute to the Society in a more creative way, anticipating that I will be replaced as Secretary at the end of this year. Other than being ESC Secretary and playing traditional music since leaving the Canadian Forestry Service in 1998 (and trying to sell CDs to new board members), most of my time has been spent creating and maintaining various websites for the arts community in St. John's, dog sites for my wife, Angie, and the site for the Acadian Entomological Society. Taking on the job of ESC webmaster will push me further in understanding web design and allow me to continue to maintain contact with a great group of entomologists after some Saint takes over as Secretary.

In creating the new site, I used frames to provide a consistent look and navigation throughout the site and wanted to make the English and French versions mirror each other closely. The Chair of the Bilingualism Committee, Véronique Martel, is of enormous help seeing that the French version is as complete and accurate as possible. Our Office Manager, Derna Lisi, has kindly uploaded all member passwords to the new server. If you are having trouble entering the members' area of the site, please contact Derna at [entsoc.can@bellnet.ca](mailto:entsoc.can@bellnet.ca).

A bulletin board with several forums set up in the members' area, a search engine, and online purchasing features are in development. The latter, especially for purchasing memberships, will take a while since anything affecting dues changes will have to be approved at our Annual Meeting. Dues changes for Canadian members are not anticipated for 2009. However, there is a need to ensure that dues for foreign members are expressed in the Canadian equivalent of US dollars and postal charges need to reflect current costs of mailing.

A number of members have already contacted me with suggestions to improve the new site. With various browsers and monitor settings, the site can have different looks. Shortly after the new site was activated, people using Firefox were startled to see "Deceased" by the names of two of our still-very-extant Fellows, whereas, anyone viewing the Fellows page in Internet Explorer saw everything posted as it was intended. So if you see anything particularly scary on your monitor, no you are not on a hit list. Switch browsers and send me an email !

Rick West  
Webmaster/Secretary  
[reely.west@nl.rogers.com](mailto:reely.west@nl.rogers.com)

## New Secretary of ESC !

**A**t the recommendation of the ad-hoc search committee to find a Secretary for the ESC to replace Rick West (Terry Shore (Chair), Peggy Dixon and Rick West), the Governing Board subsequently appointed Dr. Annabelle Firlej as Secretary, beginning in 2008-2009. Annabelle is bilingual, commencing a Post-Doc with Dr. Jacques Brodeur (U. de Montréal) and her work as Secretary of the SEQ (2002-2004) was highly regarded.

—Terry Shore, President of ESC



Annabelle Firlej  
(New) Secretary of ESC  
[afirlej@yahoo.com](mailto:afirlej@yahoo.com)

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### Books available for review:

Larsen, T.B. 2005. *Butterflies of West Africa*. Apollo Books. (two volumes, text & plates)

Patocka, J. and Turcani, M. 2005. *Lepidoptera Pupae, Central European Species*. Apollo Books. (two volumes, text & plates)

Takahashi, H. and Ôhara, M. 2006. *Biodiversity and Biogeography of the Kuril Islands and Sakhalin, Volume 2*. Bulletin of the Hokkaido University Museum, Japan. [Reviews of milipedes, hydrophilid beetles, staphylinid beetles and vascular plants of the region]



## Annual Photo Contest

### Seeking a Few Good Photos!

The Fourth Annual Photo Contest to select images for the 2009 covers of *The Canadian Entomologist* and the *Bulletin of the Entomological Society of Canada* is underway. The cover images are intended to represent the breadth of entomology covered by the Society's publications. Insects and non-insects in forestry, urban or agriculture; landscapes, field, laboratory or close-ups; or activities associated with physiology, behaviour, taxonomy or IPM are all desirable. A couple 'Featured Insects' (for the spine and under the title) are also needed. If selected, your photo will grace the cover of both publications for the entire year. In addition, winning photos may be used on the ESC website.

#### Contest rules are as follows:

1. Photos can be submitted as an electronic file (preferred), a slide or a print (negative will be required if chosen). Digital images must have a resolution of at least 50 pixels/cm.
2. Entrants can submit more than one photo. A brief description (i.e. caption) should be provided with each photo submitted.
3. Photos must be taken by the entrant, or the entrant must own the copyright.
4. The copyright of the photo remains with the entrant, but use must be granted to the Entomological Society of Canada for inclusion on the cover of one volume (i.e. 6 issues) of the *Canadian Entomologist*, one volume (i.e. 4 issues) of the *Bulletin of the Entomological Society of Canada*, and on the ESC website.
5. The entrant must be a member in good standing of the Entomological Society of Canada.
6. The judging committee will be chosen by the Chair of the Publications Committee of ESC.
7. Photos are not restricted to insect "portraits". To represent the scope of entomological research we encourage photos of field plots, laboratory experiments, insect impacts, sampling equipment, non-insect arthropods, etc.
8. A selection of the entries may be exhibited and the winners announced at the Annual Meeting of the Entomological Society of Canada or in the *Bulletin*.
9. There is no cash award for the winners, but photographers will be acknowledged in each issue the photos are printed.
10. Submissions should be sent by **July 31, 2008** to:

Kenna MacKenzie,  
 Chair, ESC Publications Committee  
 Agriculture and Agri-Food Canada  
 32 Main St.  
 Kentville, NS  
 CANADA B4N 1J5  
 Tel: 902-679-5731 Fax: 902-679-2311  
 E-mail: [mackenziek@agr.gc.ca](mailto:mackenziek@agr.gc.ca)

## People in the news / Gens qui font les manchettes



### Medal of Outstanding Achievement awarded to Dr. Aleš Smetana

**D**r. Aleš Smetana, a retired research scientist at Agriculture and Agri-Food Canada's Eastern Cereal and Oilseed Research Centre, Ottawa, has been honoured by the Symposium Internationale Entomofaunisticum Europae Centralis with a Medal of Outstanding Achievement for his work on a series of reference books on beetles (Insecta: Coleoptera).

Dr. Smetana, collaborating with Dr. Ivan Löbl, (Muséum d'histoire naturelle de Genève, Switzerland), are editors and contributing authors for the Catalogue of Palaearctic Coleoptera, which when completed will be an 8 volume collection. The Catalogue already is providing a tool that meets the needs of taxonomic researchers, such as – a list of all available names of taxa occurring in the Palaearctic Region (temperate Eurasia and North Africa); a complete list of verified references to primary insect descriptions; as well as informative distributions of insect species and subspecies. The Catalogue also is useful in responding to questions on biodiversity and the stability of the taxonomic nomenclature.

In preparing the text, AAFC's Canadian National Collection of Insects, Arachnids and

Nematodes on the Central Experimental Farm was an important resource when determining the distributions of introduced species listed in the Catalogue.

The editors are only half way through their enormous project, as the fourth volume just came out in June 2007. The project is receiving international acclaim. In some published reviews it has been called “a milestone” or “magnum opus entomologicum” that is bound to become the “most used reference work on beetles (Insecta: Coleoptera) of the 21st century”.

Dr. Smetana retired in 1999 after almost 30 years in AAFC, but as an honorary research associate he still spends full days working in the KW Neatby Building. “It has been always more like a hobby than work”, he says. In addition to his involvement with the Catalogue, Dr. Smetana is researching his favorite beetle family Staphylinidae (rove beetles).

In May, Drs. Smetana and Löbl traveled to the ancient city of Cluj in Romania, the site of the twentieth meeting of the Symposium to receive their medals. Dr. Smetana says he was thrilled, and happy to receive this honour for himself and for the science of Agriculture and Agri-Food Canada.



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*Reprinted from Agriculture and Agri-Food Canada, Newsletter, Research Branch, April 2008 issue.*

## Bug beagles hired to sniff out pests

[appeared in The Lethbridge Herald on 25 April 2008]

The Canadian Press

VANCOUVER – There are drug sniffing dogs, avalanche dogs and even truffle hounds.

And now there are bug beagles.

Care Pest and Wildlife Control, a Burnaby-based pest removal company is using two specially trained beagles to sniff out the latest Metro Vancouver affliction – bed bugs.

Peter Steinfort says the dogs have received more than 800 hours of training so they can quickly locate bed bugs, a growing problem in Metro Vancouver hotels and high-rises.

Steinfort says the beagles can pick up the scent of a bed bug, whether it is hiding in a mattress, a couch or the walls of a room.

The dogs can also indicate if carpenter ants are nearby.

(continued from p. 100)

arthropod samples. Hopefully all of us will be diligent and find time at backyard barbeques to swat mosquitoes and discuss our entomological findings over suitably themed beverages. ‘Grasshopper’ wheat ale, ‘Bees Knees’ blond ale, and ‘Blandford Fly’ ale are just a few of the examples that come to mind.

In the midst of this activity, take a moment to think of how you can share your experiences with your fellow Bulletin readers. Send us your photographs, a humorous story, or perhaps an item for ‘Tricks of the Trade’. Informal submissions on research findings also are welcome.

May your summer be filled with the hum of your entomological activities, with many good things yet to hatch!

(suite de la page 100)

les ‘Trucs et Astuces’. Les soumissions non formelles sur les résultats de recherche sont également bienvenues.

Que votre été soit rempli du bourdonnement de vos quêtes entomologiques, avec plein de bonnes choses encore à émerger!



A bedbug (*Cimex lectularius*)



### Answer of question on p. 61:

It is a bifurcated (mutated) larva of a cabbage seedpod weevil.

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*Editor's note: Society Directors and Officers are reminded to check these lists, and submit corrections, including the names and positions of new officers.*

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The Entomological Society of Canada was founded in 1863 primarily to study, advance and promote entomology. It supports entomology through publications, meetings, advocacy and other activities.

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La Société d'entomologie du Canada a été établie en 1863 principalement pour promouvoir l'étude et l'avancement de l'entomologie. Elle soutient l'entomologie par l'entremise de publications, de réunions et d'autres activités.

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31 juillet 2008**

# The Buzz / Bourdonnements

By Kevin Floate, Editor / Rédacteur



Paul Coghlin

It's April as I sit in my office to write this issue of *The Buzz*. Bright sunlight streams through the window and signs of spring abound. Cluster flies (*Pollenia rudis*) intermittently drop onto my keyboard from the light fixture above. Warmer temperatures have awakened them from their winter slumber in the building's crawl spaces. Ladybird beetles and salticid spiders have magically appeared on the window sill to renew their summer game of hide-and-go-seek. And, yes... there has been a marked increase in the number of local homeowners bringing in their roommates for identification. The usual list of suspects include face flies (*Musca autumnalis*), spider beetles (*Ptinus* spp.), drug store beetles (*Stegobium paniceum*) and confused flour beetles (*Tribolium confusum*).

There is a certain comfort in this annual pattern of change, which hints of the entomological activity to come. A lucky few will travel this summer to exotic locales in pursuit of new species or to attend meetings. Others will be in the field collecting data for presentation at the joint annual meeting in Ottawa this autumn. More than a few of us will be getting sore necks peering through microscopes to sort through

(continued on p. 97)

Nous sommes en avril au moment où je m'assois dans mon bureau pour écrire les Bourdonnements. Des rayons de soleil entrent par la fenêtre et les indices de la venue du printemps abondent. Les mouches du grenier (ou Pollénie du lombric, *Pollenia rudis*) tombent par intermittence de la lampe au-dessus de mon bureau, sur mon clavier. Les températures plus douces les ont sorties de leur sommeil hivernal dans les recoins du bâtiment. Les coccinelles et les araignées sauteuses sont apparues par magie sur le rebord de la fenêtre afin de reprendre leur jeu de cache-cache estival. Et oui... il y a eu une augmentation notoire dans le nombre de propriétaires locaux amenant leurs colocataires pour identification. La liste habituelle de suspects inclut la mouche faciale (*Musca autumnalis*), les ptines (*Ptinus* spp.), la stégobie des pharmacies (*Stegobium paniceum*) et le tribolium brun de la farine (*Tribolium confusum*).

Il y a un certain confort dans ce patron de changements annuels, qui signale l'activité entomologique à venir. Un petit nombre voyagera cet été dans des endroits exotiques afin de poursuivre de nouvelles espèces ou d'assister à des conférences. D'autres récolteront des données de terrain pour leur présentation à la réunion conjointe annuelle à Ottawa cet automne. Plusieurs d'entre nous écoperont d'un mal de cou à force de trier des échantillons d'arthropodes au microscope. Espérons que chacun d'entre nous sera assidu et trouvera le temps lors des barbecues dans la cour pour chasser les moustiques et discuter de nos trouvailles entomologiques autour de boissons thématiques : la bière blanche 'Grasshopper', la bière blonde 'Bees Knees' et la bière spéciale 'Blandford Fly' ne sont que quelques-uns des exemples qui me viennent à l'esprit.

Au milieu de cette activité, prenez le temps de penser à la façon dont vous pouvez partager vos expériences avec vos collègues lecteurs du Bulletin. Envoyez-nous vos photographies, une histoire drôle, ou peut-être un article pour

(suite à la page 97)

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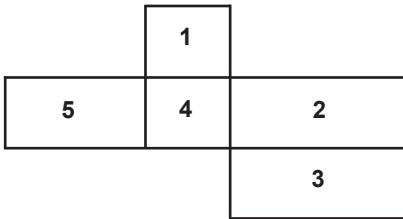
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## Images

**On the spine:** *Silusa californica* Bernhauer (Staphylinidae, Aleocharinae), originally described from Pasadena, California, represents a fairly common pattern of distribution being transcontinental in Canada and ranging south along Rockies. Photo: K. Bolte

**Beneath the title:** *Aphodius distinctus* (Müller) is a European species of dung beetle (Scarabaeidae) that is common throughout North America. Photo: H. Goulet & C. Boudreault

### Photos on front cover:

1. Reared from seed cones of western red cedar, *Thuja plicata* Don ex D. Don (Cupressaceae), this male *Eurytoma* Illiger sp. (Eurytomidae) is either a parasitoid associated with the red cedar cone midge, *Mayetiola thujae* (Hedlin) (Cecidomyiidae) or a spermatophage. Photo: D. Manastyrski

2. *Spilomyia alcimus* (Syrphidae) on Hoptree *Ptelea trifoliata*. Wheatley, Essex County, Ontario, June 2, 2007. Photo: J. Lucier

3. Bob Lamb collecting in Riding Mountain National Park, Manitoba, during the Biological Survey of Canada's 2007 BioBlitz. Photo: P. MacKay

4. Immature *Xysticus* sp. (Thomisidae) on a daisy in a garden at the foot of Mt. Bowman, British Columbia, July 2005. Photo: J. Bovee

5. Bright red galls of the agamic generation of *Trigonaspis quercusforticorne* (Walsh) (Cynipidae) on new twigs of bur oak (*Quercus macrocarpa*) at Souris, MB. Photo: S. Digweed

**Back cover:** Leafcutting bee, probably *Megachile* sp. (Megachilidae) taken on Pender Island, BC, July 2007. Photo: B. Roitberg

Français à l'intérieur de la couverture avant