

# Bulletin

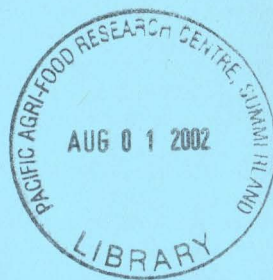
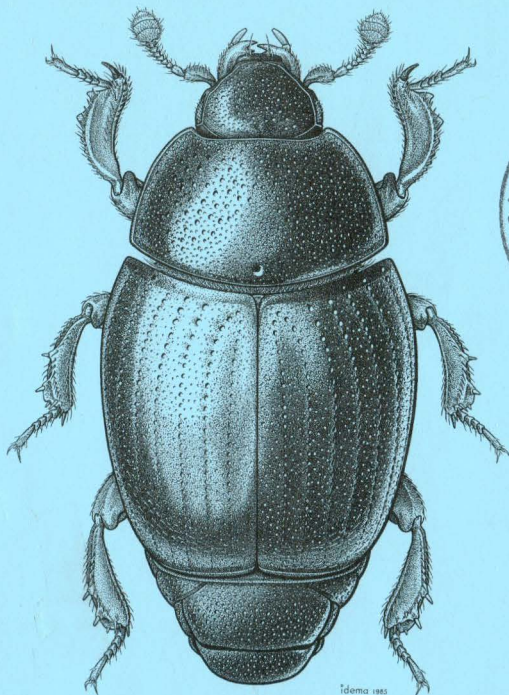
Entomological Society  
of Canada

Société d'Entomologie  
du Canada

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*Entomological Society of Canada*  
*Société d'Entomologie du Canada*

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des matières sur la couverture-arrière

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Web Page for the ESC: <http://esc-sec.org/>

E-mail: [entsoc.can@sympatico.ca](mailto:entsoc.can@sympatico.ca)

The **Bulletin of the Entomological Society of Canada**, published since 1969, presents quarterly entomological news, opportunities and information, details of Society business, matters of wider scientific importance and book reviews.

Le **Bulletin de la Société d'Entomologie de Canada**, publié depuis 1969, présente trimestriellement des informations entomologiques, des occasions, des renseignements sur les opérations de la Société, des dossiers scientifiques d'importance, et des analyses d'ouvrages

*Illustrated on the front cover is *Carcinops pumilio* (Erichson) (Coleoptera: Histeridae). This cosmopolitan hister beetle is found all across Canada, from Newfoundland west to British Columbia. It is often found in stables, henhouses, granaries and mills, where it feeds mainly on insects and mites. Habitus drawing by R Idema, from "Bousquet Y.1990. Beetles associated with stored products in Canada—an identification guide", reproduced with permission from Agriculture and Agri-Food Canada.*

*On trouvera sur la couverture une illustration de *Carcinops pumilio* (Erichson) (Coleoptera: Histeridae). Ce coléoptère cosmopolite se rencontre d'un bout à l'autre du Canada, depuis Terre-Neuve jusqu'à la Colombie-Britannique. On le trouve surtout dans les écuries, les poulaillers, les silos-éleveurs et les minoteries où il se nourrit avant tout d'insectes et d'acariens. Habitus dessiné par R Idema, d'après "Bousquet Y. 1990. Beetles associated with stored products in Canada—an identification guide", reproduit avec la permission d'Agriculture et agroalimentaire Canada.*

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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.

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.



**SOCIETY BUSINESS / AFFAIRES DE LA SOCIÉTÉ****Nominations Committee Report - election of Officers for 2002-2003**

The following have been nominated and agreed to stand for election in 2002:

Second Vice-President: Bob Lamb and Lorraine Braun

Director-at-Large: Dave Gillespie, Fiona Hunter, Cynthia Scott-Dupree

**52<sup>nd</sup> Annual General Meeting**

The Annual General Meeting of the Entomological Society of Canada will be held at the Delta Winnipeg, in Winnipeg, Manitoba, on October 6-9, 2002.

La réunion annuelle générale de la Société d'entomologie du Canada aura lieu au Delta Winnipeg, à Winnipeg, Manitoba, le 6-9 octobre, 2002.

**Governing Board Meeting (date to be announced)**

Matters for consideration at any of the above meetings should be sent to the secretary at the address below:

Veuillez faire part au secrétaire de tout sujet pouvant faire l'objet de discussion à l'une ou l'autre de ses réunions en communiquant à l'adresse suivante:

Dr. Rick West

31 Drover's Heights

Portugal Cove - St. Philips, Newfoundland A1M 3G6

Phone and fax: (709) 895-2734

E-mail: reely.west@roadrunner.nf.net

**The *Canadian Entomologist* and past issues of the *Memoirs* are available from the Ottawa office, and may be purchased by Mastercard, Visa, cheque or money order.**

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Please send all correspondence concerning  
Book Reviews for the Bulletin to:

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Pacific Forestry Centre

Victoria, BC, V8Z 1M5

Tel: (250) 363-0663

Fax: (250) 363-0775

E-mail: vnealis@pfc.forestry.ca

The deadline for submissions to be included in the next issue, Vol. **34(3)**, is **August 1, 2002**. La date limite pour recevoir vos contributions pour le prochain numéro (Vol. **34(3)**) est le **1 août 2002**.

## **President's Midterm Report**

Last week I met with the executive for the annual midterm meeting at our office in Ottawa. We discussed a number of issues some of which I discuss below.

First, as I noted in my earlier report our society continues on a sound financial footing under the very capable management of our treasurer Gary Gibson and the Finance Committee.

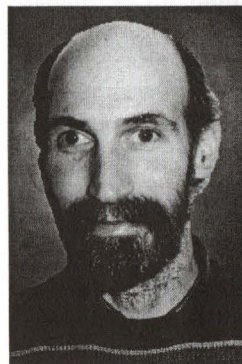
Second, based on a proposal by Journal Editor Jean Turgeon, we plan to revamp the editorial structure of *The Canadian Entomologist* to include 3 Division Editors. Jean has very kindly agreed to remain as Journal Editor to see this new system into place. We expect that these and other changes will further increase efficiency and make for a more equitable distribution of workload.

Third, we continue to explore the option of parallel publishing (hard copy and electronic). We have an agreement in principle with NRC Press and will make more details available as they unfold.

Fourth, under the guidance of Charles Vincent the ESC is developing an archive of insect photographs with links to other like-minded archives. As someone who likes to spice up my classroom lectures with pictorial examples, I see this archive as a great service. If you would like to share your insect photos with us please check our website ([www.esc-sec.org](http://www.esc-sec.org)) for details.

Finally, our society currently offers 3 scholarships and is in the process of developing a fourth and fifth (see page xx this volume for details). Our students are the lifeblood and the future of our society and these scholarships help them achieve their scientific and professional goals. Please give generously to these funds.

See you in Winnipeg.





## **DEUXIÈME RAPPORT PARTIEL DU PRÉSIDENT**

La semaine dernière le conseil d'administration s'est réuni à nos bureaux d'Ottawa. Nous avons discuté d'un certain nombre de sujets. Je traiterai quelques-uns de ces sujets dans ce rapport.

Premièrement, comme je l'ai déjà mentionné dans mon précédent rapport, la Société continue d'être en bonne santé financière grâce à la bonne gestion de notre trésorier Gary Gibson et du comité des finances.

Deuxièmement, suite aux suggestions de l'Éditeur du Journal Jean Turgeon, nous planifions une réorganisation de la structure éditoriale du 'The Canadian Entomologist' afin d'inclure 3 éditeurs de division. Jean a gentiment accepté de demeurer à son poste jusqu'à ce que cette nouvelle structure soit en place. Nous prévoyons que cette nouvelle structure et d'autres changements que nous voulons apporter augmenteront l'efficacité et permettront une division plus équitable de la charge de travail.

Troisièmement, nous continuons d'explorer les différentes avenues de publication (support papier, électronique). Nous avons un accord de principe avec Les Presses RNC et nous vous transmettrons les détails de cet accord dès qu'ils seront disponibles.

Quatrièmement, sous la direction de Charles Vincent, la SEC est en train de créer des archives électroniques de photographies d'insectes incluant des liens avec d'autres ressources similaires. Comme j'aime bien mettre du piquant pendant mes cours en utilisant des exemples en image, ces archives me seront d'une grande utilité. Si vous voulez partager vos photos d'insectes, veuillez consulter notre site Internet ([www.esc-sec.org](http://www.esc-sec.org)) pour plus de détails.

Finalement, notre société offre présentement 3 bourses d'étude. Nous avons enclenché le processus pour en créer deux supplémentaires (consulter les pages XX de ce volume pour plus de détails). Nos étudiants sont l'élément moteur et le futur de notre Société et ces bourses d'étude les aident à atteindre leurs buts scientifiques et professionnels. Veuillez donner généreusement au fonds pour ces bourses.

Au plaisir de vous voir à Winnipeg.

# Joint Meeting of the Entomological Societies of Manitoba and Canada

Delta Winnipeg Hotel, Winnipeg, Manitoba,  
6-9 October 2002

## Insects and Humans: Confrontation and Coexistence?

### Meeting Announcement and Invitation to Attend



On behalf of the Entomological Societies of Manitoba and Canada, we are pleased to extend an invitation to the 2002 Joint Annual Meeting. The venue is the Delta Hotel in Winnipeg, Manitoba. We are confident that the theme, "Insects and Humans: Confrontation and Coexistence?" will provide the basis for an interesting and informative Plenary Session and series of Symposia and Workshops. Please refer to the tentative agenda. This year the Opening Ceremonies and Plenary Session will begin after lunch on Sunday, October 6, rather than on Monday morning, to let you make better use of less expensive over-the-weekend flights.

The Delta Hotel, the largest hotel in Winnipeg, is connected through a series of walkways to a variety of shopping, entertainment and restaurant options in downtown Winnipeg. The hotel is within walking distance of the historic Forks area at the junction of the Assiniboine and Red Rivers. The meeting is scheduled to coincide with the spectacular bird migration along the Red River Valley, the pleasant autumn weather we experience in early October, and the possibility of late season insect collecting.

Registrants will be provided with information on lists of recommended restaurants and evening entertainment activities, including the current concert and live theater events. Bird watching and/or collecting trips will be organized for Saturday October 5. A juried Insect Art Show will be featured at the Meeting, along with displays of insects arranged by local enthusiasts. On Wednesday afternoon October 9, the Entomology Department at the University of Manitoba and the associated J.B. Wallis Museum of Entomology will be open to visitors.

Before the Joint Annual Meeting, several additional meetings have been scheduled to let you make the most effective use of your entomological travel dollars.

### Associated Meetings:

Wednesday, October 2  
Thursday, October 3  
Friday, October 4  
  
Saturday, October 5

Canadian Forum for Biocontrol  
Agriculture & Agri-Food Canada Working Group on Biocontrol  
Western Committee on Crop Pests and Western Committee on  
Plant Diseases  
Western Forum

**For further information contact:** Don Dixon, [Ddixon@gov.mb.ca](mailto:Ddixon@gov.mb.ca),  
or the meeting website <http://home.cc.umanitoba.ca/esm/meet-esc.html>



# Congrès conjoint des Sociétés entomologiques du Manitoba et du Canada



Hôtel Delta Winnipeg (Manitoba)  
6-9 octobre 2002

**Insectes et humains : affrontement et coexistence ?**

**Annnonce et invitation**

Au nom des Sociétés entomologiques du Manitoba et du Canada, nous vous invitons cordialement au Congrès conjoint de 2002, qui aura lieu à l'hôtel Delta à Winnipeg, au Manitoba. Nous croyons que le thème choisi, « Insectes et humains : affrontement et coexistence? » saura inspirer une séance plénière et une série de symposiums et d'ateliers des plus intéressants et utiles à tous. Pour plus de détails, vous pouvez consulter le programme provisoire. Cette année, les cérémonies d'ouverture et la séance plénière débiteront dans l'après-midi du dimanche 6 octobre plutôt que le lundi matin, pour vous permettre de profiter des aubaines possibles sur les vols de fin de semaine.

Le Delta, le plus grand hôtel de Winnipeg, est lié par une série de passerelles à toute une panoplie de boutiques, de restaurants et de salles de spectacle au centre-ville et une courte promenade vous mènera à La Fourche, lieu historique et commercial au confluent des rivières Rouge et Assiniboine. Les dates choisies pour ce congrès permettront de profiter de la période du passage spectaculaire d'oiseaux migrateurs le long de la rivière Rouge, du beau temps qu'apporte le début d'octobre et la possibilité de collectionner des insectes en fin de saison.

Nous fournirons aux participants des listes de restaurants et de spectacles pour les dates en question. De plus, des sorties pour observer les oiseaux ou pour collectionner des insectes seront organisés le samedi 5 octobre. Il y aura aussi une exposition concours d'art insecte, ainsi qu'une exposition des entomothèques d'amateurs locaux. L'après-midi du mercredi 9 octobre, le département d'Entomologie de l'Université du Manitoba et son associé le musée d'entomologie J.B. Wallis seront ouverts aux visiteurs.

Plusieurs réunions supplémentaires sont prévues dans les jours qui précèdent le congrès, afin de vous permettre de maximiser l'efficacité de votre budget voyage.

## **Réunions connexes :**

le mercredi 2 octobre	Forum canadien sur la lutte biologique
le jeudi 3 octobre	Agriculture et Agroalimentaire Canada groupe de travail sur la lutte biologique
le vendredi 4 octobre	Comité de l'ouest sur les parasites des cultures
le samedi 5 octobre	Forum de l'ouest

**Pour de plus amples renseignements**, communiquez avec Don Dixon, [ddixon@gov.mb.ca](mailto:ddixon@gov.mb.ca) ou consultez le site Web du congrès <http://home.cc.umanitoba.ca/esm/meet-fr.html>



**Joint Meeting of the  
Entomological Societies of Manitoba and Canada  
Delta Winnipeg Hotel, Winnipeg, Manitoba  
6-9 October 2002**

**TENTATIVE PROGRAM**

**Saturday, October 5 - Entomological Society of Canada Governing Board Meeting**

**Sunday, October 6, PM**

**Opening Ceremonies, ESC Awards, Gold Medal Address**

**Plenary Session: "Insect and Humans: Confrontation and Coexistence?"**

Professor David Schindler, University of Alberta

Expert in: Effects of Humans on Ecosystems, particularly the Environmental Significance of Global Movement, Sequestration and Re-Release of Pesticides.

Professor Mark Rausher, Duke University

Expert in: Evolution of Insect-Plant Interactions, particularly the Management of Evolutionary Change in Pest Insects.

**Students Meet the Board**

**ESC-ESM 2002 Mixer**

**Monday, October 7, AM**

**Symposium: "Human Impacts on Forests: Consequences for Insect Populations"**

J. Logan (Utah) - Climate warming and mountain pine beetle outbreaks.

J. Roland (Alberta) - Forest structure and tent caterpillar populations.

G. Moreau (New Brunswick) - Balsam fir sawfly populations in regenerating forests.

R. Alfaro (Victoria, B.C.) - Deploying genetic resistance against insect pests of native forests.

R. Westwood (Manitoba) - Forest harvesting and butterfly diversity in black spruce forests.

**Symposium: "Crops as New Habitats for Insects - Canola as a case study"**

R. Lamb (Manitoba) - Canola and its insect herbivores: two grand if unintended experiments.

L. Dosdall (Alberta) - Seed pod weevil and its parasitoids, invasion of canola by a new pest.

H. Carcamo (Alberta) - Lygus bugs, movement between canola and other hosts.

O. Olfert (Saskatchewan) - Bertha armyworm, history of outbreaks of a native insect on canola.

**Student Paper Competitions**

**Monday, October 7, PM**

**Symposium: "Biological Control and the Native Fauna and Flora"**

U. Kuhlmann (Switzerland) - The perspective of a practitioner of classical bio-control.

J. Roland (Alberta) - Revisiting the winter moth biological control story.

Additional participants.

**Submitted Papers/Student Paper Competition**

**Poster Session**

**Heritage Lecture**





**Joint Meeting of the  
Entomological Societies of Manitoba and Canada  
Delta Winnipeg Hotel, Winnipeg, Manitoba  
6-9 October 2002**

**TENTATIVE PROGRAM - CONTINUED**

**Tuesday, October 8, AM**

**Symposium: "Pheromones: Understanding the Chemical Language of Insects".**

Four or five participants.

**Symposium: "Illuminating the 'green' box: Challenges in quantifying the impacts of insect herbivores"**

R. Callaway (Montana) - Soil microbes affect interactions among natives, invasives, and herbivores.

R. Peterson (Montana) - Relationships among insect injury, plant physiological response, and crop yield.

S. Matter (Ohio) - *Tetraopes tetraophthalmus* feeding on *Asclepias syriaca*: problems and considerations in assessing the impact of herbivory.

B. Cooke (Quebec) - Impact of forest tent caterpillar defoliation on wood properties in trembling aspen.

A. McClay (Alberta) - Is it working yet? Evaluating the impact of biocontrol agents on weeds.

**Submitted Papers**

**Tuesday, October 8, PM**

**Symposium: "Ecology and Diversity of Grassland Arthropods"**

Four or five participants.

**Graduate Student Symposium: Insect and Humans: Confrontation and Coexistence?**

**Submitted Papers**

**Entomological Society of Canada Annual General Meeting**

**Banquet**

**Wednesday, October 9, AM**

**Hands-On Workshop: North American Dragonflies** - Participants: P.S. Corbet (England), R. Cannings (British Columbia), J. Acorn (Alberta), B. Elliott (Manitoba), P.M. Brunelle (Nova Scotia), D.G. Giberson (Prince Edward Island).

**Workshop: *Delia* spp. as pests of crops in Canada** - Participants: H. Carcamo (Alberta), J. Soroka (Saskatchewan), N. Holliday (Manitoba), G. Boivin (Quebec), P. Dixon (Newfoundland). Potential participants please contact: Peggy Dixon (AAFC, St. John's, 709-772-4763, or [dixonpl@em.agr.ca](mailto:dixonpl@em.agr.ca)).

**Submitted Papers**

**Entomological Society of Canada Governing Board Meeting**



**Congrès conjoint des  
Sociétés entomologiques du Manitoba et du Canada  
Hôtel Delta Winnipeg ( Manitoba) 6-9 octobre 2002**

**PROGRAMME PROVISOIRE**

**Le samedi 5 octobre - Réunion du conseil d'administration de la SEC**

**Le dimanche après-midi, 6 octobre,**

**Cérémonies d'ouverture, Prix SEC, Allocution du médaillé d'or**

**Séance plénière : « Insectes et humains : affrontement et coexistence? »**

Professeur David Schindler, Université de l'Alberta

Expertise : Les effets des humains sur les écosystèmes et l'importance pour l'environnement du transport mondial, de la séquestration et de la remise en circulation de pesticides.

Professeur Mark Rausher, Duke University

Expertise : L'évolution des interactions insecte-plante et en particulier la gestion des changements évolutifs chez les insectes nuisibles.

**Rencontre entre étudiants et le conseil d'administration**

**Réception SEC-SEM**

**Le lundi 7 octobre - avant-midi**

**Symposium: « L'Impact des humains sur la forêt : les conséquences pour les populations d'insectes »**

J. Logan (Utah) - Le réchauffement du climat et les pullulations de dendroctone du pin ponderosa.

J. Roland (Alberta) - La structure forestière et les populations de chenille à tente.

G. Moreau (Nouveau-Brunswick) - Les populations de diprion du sapin dans les forêts en régénération.

R. Alfaro (Victoria, C.-B.) - La résistance génétique utilisée contre les insectes ravageurs de forêts indigènes.

R. Westwood (Manitoba) - Récolte forestière et diversité chez les papillons dans la forêt d'épinette noire.

**Symposium: « Les cultures comme nouveaux habitats pour insectes : le cas du canola »**

R. Lamb (Manitoba) - Le canola et ses insectes herbivores : deux expériences grandioses mais involontaires.

L. Dosdall (Alberta) - Le charançon des siliques et ses parasitoïdes : le canola envahi par un nouveau ravageur.

H. Carcamo (Alberta) - Le déplacement des punaises entre le canola et d'autres hôtes.

O. Olfert (Saskatchewan) - La légionnaire bertha, historique des pullulations d'un insecte indigène sur le canola.

**Concours de communications écrites d'étudiants**

**Le lundi 7 octobre - après-midi**

**Symposium: « La lutte biologique et la flore et faune indigènes. »**

U. Kuhlmann (Switzerland) - La perspective d'un pratiquant de la lutte biologique classique.

J. Roland (Alberta) - L'histoire de la lutte biologique contre l'arpeuteuse tardive, revue et corrigée.

Autres participants.

**Communications écrites / concours ces communications d'étudiants**

**Séance d'affiches**

**Conférence patrimoine**





**L'assemblée générale annuelle conjointe des Sociétés  
entomologiques du Manitoba et du Canada  
Hôtel Delta Winnipeg ( Manitoba) 6-9 octobre 2002**

**PROGRAMME PROVISOIRE - SUITE**

**Le mardi 8 octobre - avant- midi**

**Symposium: « Les phéromones : comprendre le langage chimique des insectes. »**

Quatre ou cinq participants.

**Symposium: « Lumière sur la "boîte verte" : les difficultés dans le calcul des impacts  
d'insectes herbivores. »**

R. Callaway (Montana) - Les microbes du sol affectent les interactions entre indigènes, envahisseurs et herbivores.

R. Peterson (Montana) - Relations entre les blessures causées par les insectes, la réaction physiologique des plantes et le rendement des cultures.

S. Matter (Ohio) - *Tetraopes tetraophthalmus* se nourrissant de *Asclepias syriaca* : enjeux dans l'évaluation de l'impact des herbivores.

B. Cooke (Québec) - L'impact de la défoliation par la chenille livrée des forêts sur les propriétés du bois de peuplier faux-tremble.

A. McClay (Alberta) - Est-ce que ça marche? Évaluer l'impact des agents de lutte biologique sur les mauvaises herbes.

**Communications écrites**

**Le mardi 8 octobre - après-midi**

**Symposium: « Écologie et diversité des arthropodes des prairies »**

Quatre ou cinq participants.

**Symposium des étudiants gradués : « Insectes et humains : affrontement et coexistence? »**

**Communications écrites**

**Assemblée générale annuelle de la Société entomologique du Canada**

**Banquet**

**Le mercredi 9 octobre - avant-midi**

**Atelier pratique : Les libellules nord-américaines** - Participants : P.S. Corbet (Angleterre), R. Cannings (Colombie-Britannique), J. Acorn (Alberta), B. Elliott (Manitoba), P.M. Brunelle (Nouvelle-Écosse), D.G. Giberson (Île-du-Prince-Édouard).

**Atelier : Les *Delia* ravageurs des cultures au Canada** - Participants : H. Carcamo (Alberta), J. Soroka (Saskatchewan), N. Holliday (Manitoba), G. Boivin (Québec), P. Dixon (Terre-Neuve).

D'autres participants éventuels sont priés de contacter : Peggy Dixon (AAFC, St. John's, 709-772-4763, ou [dixonpl@em.agr.ca](mailto:dixonpl@em.agr.ca)).

**Communications écrites**

**Réunion du conseil d'administration de la Société entomologique du Canada**



**Joint Meeting of the  
Entomological Societies of Manitoba and Canada  
Delta Winnipeg Hotel, Winnipeg, Manitoba  
6-9 October, 2002**

**REGISTRATION FORM (Please Print)**

Title \_\_\_\_\_ Given name \_\_\_\_\_ Surname \_\_\_\_\_

Preferred name for name tag (if different) \_\_\_\_\_

Affiliation \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Prov./State \_\_\_\_\_ Postal/Zip Code \_\_\_\_\_

Phone: ( \_\_\_\_ ) \_\_\_\_\_ Fax: ( \_\_\_\_ ) \_\_\_\_\_ E-mail \_\_\_\_\_

Accompanying Person \_\_\_\_\_

Registration Fee			
Registrant	before July 2 <sup>nd</sup>	after July 2 <sup>nd</sup>	Cost
Regular ESC or ESM member	\$150	\$175	\$ _____
Regular non-member	\$175	\$200	\$ _____
Student (member or non-member)	\$90	\$110	\$ _____
Accompanying person	\$90	\$110	\$ _____
		<b>TOTAL:</b>	\$ _____

**Registration includes:** participation kit, admittance to meetings, mixer and banquet. Student registration also includes Students Meet the Board Mixer. Accompanying Person registration does not include the technical sessions. Extra banquet tickets may be purchased at the registration desk.

**Payment Details:**

☐ Cheque for total is enclosed (payable to "ESC-ESM 2002").

☐ Please charge total to my credit card: ☐ VISA ☐ Mastercard

Credit card number \_\_\_\_\_ Expiry date \_\_\_\_\_

Signature \_\_\_\_\_

**Accommodation:** The Delta Winnipeg Hotel has set aside a block of rooms for conference participants at reduced rates (single or double: \$112 plus taxes for Standard, \$142 plus taxes for Signature Club room). To obtain the conference rates, please indicate that you are participating in the "ESC-ESM Joint Annual Meeting" when making reservations.

☐ Please tick here if you are interested in arranging for shared accommodation at the hotel.

**Please return this form with registration fees to:**

Dr. Marjorie A.H. Smith  
Cereal Research Centre, AAFC  
95 Dafoe Rd.  
Winnipeg, MB, Canada R3T 2N2  
Phone: (204) 984-4889  
E-mail: msmith@em.agr.ca

**Hotel reservations are available through:**

Delta Winnipeg Hotel  
350 St. Mary Avenue  
Winnipeg, MB, Canada R3C 3J2  
Phone: (204) 942-0551, 1-800-268-1133  
Fax: (204) 943-8702  
Website: www.deltahotels.com

For conference information and copies of forms please see our website: <http://home.cc.umanitoba.ca/esm/meet-esc.html>





**Congrès Conjoint des  
Sociétés entomologiques du Manitoba et du Canada  
Hôtel Delta Winnipeg (Manitoba)  
6-9 octobre 2002**

**FORMULAIRE D'INSCRIPTION (lettres moulées s.v.p.)**

Titre \_\_\_\_\_ Prénom \_\_\_\_\_ Nom \_\_\_\_\_

Un nom différent pour le porte-nom? \_\_\_\_\_

Affiliation \_\_\_\_\_

Adresse \_\_\_\_\_

Ville \_\_\_\_\_ Prov./État \_\_\_\_\_ Code \_\_\_\_\_

Téléphone: ( \_\_\_\_ ) \_\_\_\_\_ Télécopieur: ( \_\_\_\_ ) \_\_\_\_\_ Courriel \_\_\_\_\_

Personne invitée \_\_\_\_\_

Frais d'inscription			
Inscription	avant le 2 juillet	après le 2 juillet	Coût
Régulier - membre SEC ou SEM	\$150	\$175	_____ \$
Régulier - non membre	\$175	\$200	_____ \$
Étudiant (membre ou non membre)	\$90	\$110	_____ \$
Personne invitée	\$90	\$110	_____ \$
		<b>TOTAL:</b>	_____ \$

**L'inscription comprend:** trousse de participation; entrée aux réunions, à la réception et au banquet. L'inscription des étudiants comprend aussi la réception étudiants --conseil d'administration. L'inscription de la personne invitée ne comprend pas les séances techniques. Des billets supplémentaires pour le banquet seront en vente à l'inscription.

**Paiement:**

☐ Cheque ci-joint (à l'ordre de "ESC-ESM 2002").

☐ Veuillez facturer ma carte de crédit:

☐ VISA

☐ Mastercard

Numéro de carte \_\_\_\_\_ Date d'expiration \_\_\_\_\_

Signature \_\_\_\_\_

**Hébergement :** Un bloc de chambres a été retenu à l'hôtel Winnipeg à des tarifs réduits pour les participants au congrès (occupation simple ou double : \$112 plus taxes pour Standard, \$142 plus taxes pour chambre Signature Club). Pour avoir droit au tarif spécial conférence, veuillez indiquer, au moment de la réservation, que vous participez au congrès conjoint annuel SEC-SEM, « ESC-ESM Joint Annual Meeting ».

☐ Cochez si vous désirez partager une chambre d'hôtel.

**Prière de retourner ce formulaire et les frais  
d'inscription à :**

Dr. Marjorie A.H. Smith  
Centre de Recherche sur les céréales, AAC  
195, chemin Dafoe  
Winnipeg (Manitoba) Canada R3T 2N2  
téléphone: (204) 984-4889  
courriel: msmith@em.agr.ca

**Pour réserver :**

Delta Winnipeg Hotel  
350, avenue St. Mary  
Winnipeg (Manitoba) Canada R3C 3J2  
téléphone: (204) 942-0551, 1-800-268-1133  
télécopieur: (204) 943-8702  
Site Web: [www.deltahotels.com](http://www.deltahotels.com)

Pour obtenir tous les renseignements sur le congrès, visitez notre site Web: <http://home.cc.umanitoba.ca/esm/meet-fr.html>



## Joint Meeting of the Entomological Societies of Manitoba and Canada

Delta Winnipeg Hotel, Winnipeg, Manitoba,  
6-9 October 2002

### CALL FOR SUBMITTED PAPERS, STUDENT PAPERS, AND POSTER PRESENTATIONS

This information is also available on - <http://home.cc.umanitoba.ca/esm/meet-esc.html>

**DEADLINE:** Postmarked July 2, 2002

#### Category of presentation:

**Oral presentation - Regular, President's Prize\*, Graduate Student Symposium\*\***

**Poster presentation - Regular**

\* Students are eligible for the President's Prize (1 per session) if:

1. You are enrolled in a graduate degree program or have graduated from a program less than six (6) months prior to the meeting;
2. You are registered at the meeting and indicate a desire to participate in this category;
3. You are the principal investigator and presenter of the paper.

\*\* Graduate Student Symposium - a new feature of this meeting, intended to provide graduate students with the opportunity to present a symposium style paper. Details of this category are provided in the attached announcement and on the meeting website.

**Oral presentation** (Regular, President's Prize): 12 min. + 3 min. discussion.

Carousel slide projectors will be the only type of audio-visual equipment available. Slides should be provided in a carousel.

**Information required:** Authors' names, name of presenter, address, title, abstract, language of communication, category of presentation. Abstracts should be 50 words or less; submission by e-mail or on diskette (Word or WP format) would be appreciated. **If possible, please provide your information in both English and French. All abstracts will be published on the website.**

#### *Please submit to Scientific Program Chair:*

Dr. Robert J. Lamb  
Cereal Research Center  
Agriculture & Agri-Food Canada  
195 Dafoe Road  
Winnipeg, MB, R3T 0E5

Telephone: (204)983-1458  
Fax: (204)983-4604  
Email: [rlamb@em.agr.ca](mailto:rlamb@em.agr.ca)



**Congrès Conjoint des  
Sociétés entomologiques du Manitoba et du Canada  
Hôtel Delta Winnipeg (Manitoba)  
6-9 octobre 2002**

**DÉPÔT DES COMMUNICATIONS,  
COMMUNICATIONS D'ÉTUDIANTS ET  
PRÉSENTATIONS PAR AFFICHES.**

Cette information est aussi disponible à : <http://home.cc.umanitoba.ca/esm/meet-fr.html>

**DATE LIMITE** : Le 2 juillet, la marque postale faisant foi.

**Catégorie :**

**Communication orale - ordinaire - Prix du président\*, Symposium des étudiants gradués\*\***  
**Présentation par affiches - ordinaire**

\* Pour être admissible au prix du président (1 par session) vous devez satisfaire aux conditions suivantes :

1. Être inscrit à un programme de deuxième ou troisième cycle, ou avoir terminé un tel programme dans les six mois précédant le congrès.
2. Être inscrit à la conférence et indiquer un désir de participer dans cette catégorie.
3. Être le chercheur principal et orateur de l'exposé.

\*\* Symposium des étudiants gradués - un élément nouveau, qui a pour but d'offrir aux étudiants gradués l'occasion de présenter une communication de style symposium. La description détaillée se trouve dans l'annonce ci-jointe et sur le site Web du congrès.

**Communication orale** (ordinaire, Prix du président) : 12 min. + 3 min. de discussion

Le seul appareil audio-visuel sera le projecteur à magasin circulaire. Vous devez apporter vos diapositives dans un magasin circulaire.

**Renseignements requis** : Noms des auteurs, nom de l'orateur, adresse, titre, résumé, langue de communication, catégorie de la présentation. Les résumés ne doivent pas dépasser 50 mots. Veuillez soumettre par courriel ou par disquette (format Word ou WP). Si possible, envoyez votre information en anglais et en français. Tous les résumés seront publiés sur le site Web.

***Veuillez soumettre au président du programme scientifique :***

Dr. Robert J. Lamb  
Centre de recherche sur les céréales  
Agriculture et Agroalimentaire Canada  
195, chemin Dafoe  
Winnipeg (Manitoba) R3T 0E5

téléphone : (204) 983-1458  
télécopieur : (204) 983-4604  
**courriel : [rlamb@em.agr.ca](mailto:rlamb@em.agr.ca)**





**Joint Meeting of the  
Entomological Societies of Manitoba and Canada  
6-9 October 2002  
Graduate Student Symposium  
Invitation to Participate**

This information is also available on - <http://home.cc.umanitoba.ca/esm/meet-esc.html>

A new annual Graduate Student Symposium will start this year at the ESC-ESM 2002. The goal of the symposium is to feature graduating students as they move to the next stage in their careers and allow them a longer time slot to present their research. To be eligible, students must have either defended their thesis (Masters or PhD) in the past 2 years or be planning to defend within 1 year of the meeting.

Students from all disciplines are encouraged to submit an abstract. The symposium will follow the general theme of the meeting, **"Insects and Humans: Confrontation and Coexistence?"**. Students will be asked to address specific common issues in their discussion section to link talks and encourage interaction. Depending on the submissions, a more specific focus may be adopted:

- between 5-7 presentations will be selected.
- presentations will be approx. 30 minutes in length with additional time for questions.
- papers that are included in the Graduate Student Symposium will not be eligible for the President's Prize.
- the tentative date for the symposium is Tuesday October 8<sup>th</sup> in the afternoon.

If you are eligible and want to be considered for the symposium please submit the following information **by July 2, 2002**:

- 1) An expanded abstract (approx. 300 words) describing your proposed presentation and how it relates to the theme of the meeting "Insects and Humans: Confrontation and Coexistence?"
- 2) A letter (email) of support from your principal supervisor confirming the anticipated or actual date of graduation and commenting on the proposed presentation.
- 3) A standard abstract and title (50 words). If not selected for the Graduate Student Symposium, presentations will automatically be included as President's Prize or Regular papers.

Students who have been selected to speak will be contacted by 15 August 2002. When notified they will receive a list of the other speakers, their email addresses, and a copy of all initial abstracts to identify points for discussion in the talks and eliminate potential overlap.

Students will submit a final extended abstract by 1 September. These abstracts will be circulated to all speakers prior to the meeting. They will also be available at the symposium and published in the December issue of the Society Bulletin. The 50-word abstract and title will appear in the program and on the Meeting website.

Submission for the Graduate Student Symposium should be sent to:

**Rob Bouchier (BouchierR@em.agr.ca).**

**Electronic Submission is encouraged and preferred !**

Or Diskette by snail mail to AAFC-LRC, PO Box 3000, Lethbridge AB, T1J 4B1, Canada.



**Congrès Conjoint des  
Sociétés entomologiques du Manitoba et du Canada  
6-9 octobre 2002**

**Symposium des étudiants gradués - invitation**

Cette information est aussi disponible à : <http://home.cc.umanitoba.ca/esm/meet-fr.html>

Cette année marque le début du nouveau symposium annuel des étudiants gradués. Son but est de faire participer des étudiants gradués qui passent à l'étape suivante de leurs carrières et de leur permettre une période plus longue pour présenter leurs recherches. Pour être admissible, un étudiant doit avoir soutenu sa thèse de maîtrise ou de doctorat dans les 2 dernières années, ou doit avoir l'intention de le faire dans l'année qui vient.

Les étudiants de toutes les disciplines sont invités à soumettre un résumé. Le symposium suivra le thème général du congrès, « Insectes et humains : affrontement et coexistence? ». On demandera aux étudiants de traiter dans leur section « discussion » certains sujets précis en commun, afin de relier les exposés et d'encourager l'interaction. Selon les soumissions, un point de vue plus précis pourrait être adopté.

- Sélection de 5 à 7 présentations
- Durée d'environ 30 minutes, plus période de questions
- Les communications présentées au symposium des étudiants gradués ne sont pas admissibles au prix du président
- La date provisoire du symposium : le mardi 8 octobre dans l'après-midi

Si vous êtes admissible et vous voulez vous porter candidat au symposium, veuillez fournir les renseignements suivants, **avant le 2 juillet 2002** :

- 1) Un résumé étoffé (env. 300 mots) qui décrit votre présentation et sa relation au thème du congrès, « Insectes et humains : affrontement et coexistence? »,
- 2) Une lettre (ou courriel) de soutien de votre superviseur principal qui confirme la date fixée ou anticipée de votre obtention de diplôme et qui offre des commentaires sur l'exposé en question.
- 3) Un titre et un résumé standard (50 mots). Si la communication n'est pas choisie pour le symposium des étudiants gradués, elle sera soumise automatiquement soit à la catégorie ordinaire soit à celle du prix du président.

Les étudiants choisis pour présenter seront contactés avant le 15 août 2002. Lors de l'annonce, chacun recevra la liste des autres intervenants, leur adresse de courriel et une copie des résumés initiaux afin d'identifier des points de discussion et d'éliminer le dédoublement éventuel.

Les étudiants soumettront un résumé final étoffé avant le 1er septembre. Celui-ci sera distribué à tous les intervenants avant le congrès. Il sera aussi disponible au symposium et publiés dans le numéro de décembre du bulletin de la Société. Le titre et le résumé de 50 mots paraîtront au programme et sur le site Web du congrès.

Veuillez faire parvenir les soumissions au Symposium des étudiants gradués à :

**Rob Bourchier (bourchierr@em.agr.ca)**

**La soumission électronique est préférée**, mais on peut envoyer une disquette par courrier escargot à : AAFC-LRC, C.P. 3000, Lethbridge (Alberta) T1J 4B1

**ENTOMOLOGICAL SOCIETY OF CANADA**

**FINANCIAL STATEMENTS**

**DECEMBER 31, 2001**



**McCAY, DUFF  
& COMPANY LLP**

CHARTERED ACCOUNTANTS

141 LAURIER AVE. WEST  
6TH FLOOR  
OTTAWA, ONTARIO K1P 5J3  
TEL: (613) 236-2367  
FAX: (613) 236-5041  
1 (800) 267-6551  
mccayduff@mccayduff.com  
WEB: www.mccayduff.com

**AUDITORS' REPORT**

To the Members,  
Entomological Society of Canada.

We have audited the non-consolidated balance sheet of the Entomological Society of Canada as at December 31, 2001 and the non-consolidated statements of revenue and expenditure - General Fund, surplus and cash flows for the year then ended. These financial statements are the responsibility of the Society's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with Canadian generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In our opinion, these non-consolidated financial statements present fairly, in all material respects, the financial position of the Society as at December 31, 2001 and the results of its operations and cash flows for the year then ended in accordance with Canadian generally accepted accounting principles, except that they are not prepared on a proportionate consolidated basis as described in note 5. As required by the Companies Act, we report that, in our opinion, these principles have been applied on a basis consistent with that of the preceding year.

*McCay Duff & Company LLP*

Chartered Accountants

Ottawa, Ontario,  
March 7, 2002.

THOMAS W. HOWARTH, CA

BRYAN E. SULLIVAN, CA

ALBERT G. MONSOUR, B.Admin, CA

BLAIR E. DAVIDSON, B.Comm, CFP, CA

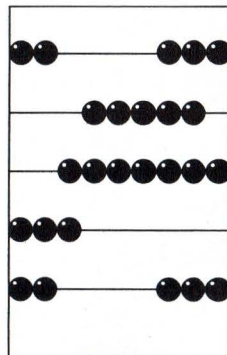
G. WARREN TRICKEY, B.Comm, CA

ROBERT D. SHANTZ, B.Math, CA

MARGARET N. EGAN, B.Admin, CA, C.I.M.

CONSULTANT-ELDREN E. MCCONNELL, CA

CONSULTANT-JOHN W. FRANKLIN, CA



**ENTOMOLOGICAL SOCIETY OF CANADA  
BALANCE SHEET**

**AS AT DECEMBER 31, 2001**

**ASSETS**

	General Fund	Endowment Fund	Building Fund	Scholarship Fund	2001 Total	2000 Total
<b>CURRENT</b>						
Cash	\$ 226,937	\$ 10,197	\$ -	\$ 32,256	\$ 269,390	\$ 199,330
Term deposit	27,645	-	-	4,137	31,782	26,493
Accounts receivable	14,888	-	-	-	14,888	33,143
Accrued interest receivable	3,571	754	-	1,832	6,157	6,014
Interfund balances	8,538	-	-	( 8,538)	-	-
Prepaid expenses	5,834	-	-	-	5,834	3,842
	287,413	10,951	-	29,687	328,051	268,822
<b>INVESTMENTS (note 4)</b>	179,571	64,749	-	99,910	344,230	331,487
<b>INVESTMENT IN BOOK PROJECT (note 5)</b>	37,555	-	-	-	37,555	45,055
<b>CAPITAL ASSETS (note 6)</b>	-	-	164,257	-	164,257	169,434
	<u>\$ 504,539</u>	<u>\$ 75,700</u>	<u>\$ 164,257</u>	<u>\$ 129,597</u>	<u>\$ 874,093</u>	<u>\$ 814,798</u>

**LIABILITIES**

<b>CURRENT</b>						
Accounts payable and accrued liabilities	\$ 51,445	\$ -	\$ -	\$ -	\$ 51,445	\$ 65,163
Deferred revenue	116,423	-	-	-	116,423	113,192
	167,868	-	-	-	167,868	178,355
<b>BALANCE - END OF YEAR</b>	<u>336,671</u>	<u>75,700</u>	<u>164,257</u>	<u>129,597</u>	<u>706,225</u>	<u>636,443</u>
	<u>\$ 504,539</u>	<u>\$ 75,700</u>	<u>\$ 164,257</u>	<u>\$ 129,597</u>	<u>\$ 874,093</u>	<u>\$ 814,798</u>

Approved on behalf of the Board:

Governor

Governor

McCAY, DUFF & COMPANY LLP, CHARTERED ACCOUNTANTS

**ENTOMOLOGICAL SOCIETY OF CANADA**  
**STATEMENT OF SURPLUS**

**FOR THE YEAR ENDED DECEMBER 31, 2001**

	<u>General Fund</u>	<u>Endowment Fund</u>	<u>Building Fund</u>	<u>Scholarship Fund</u>	<u>2001 Total</u>	<u>2000 Total</u>
<b>BALANCE - BEGINNING OF YEAR</b>	\$ 275,544	\$ 76,232	\$ 169,434	\$ 115,233	\$ 636,443	\$ 570,576
Net revenue (expenditure) for the year	66,238	( 532)	( 10,288)	14,364	69,782	65,867
Interfund transfers	( 5,111)	-	5,111	-	-	-
<b>BALANCE - END OF YEAR</b>	<u>\$ 336,671</u>	<u>\$ 75,700</u>	<u>\$ 164,257</u>	<u>\$ 129,597</u>	<u>\$ 706,225</u>	<u>\$ 636,443</u>



## ENTOMOLOGICAL SOCIETY OF CANADA

## STATEMENT OF REVENUE AND EXPENDITURE - GENERAL FUND

FOR THE YEAR ENDED DECEMBER 31, 2001

	Canadian Entomologist		Memoirs and Other Publications		Society		2001		2000	
	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
<b>REVENUE</b>										
Regular membership	\$ 15,600	\$ 14,960	\$ -	\$ -	\$ 15,600	\$ 14,960	\$ 31,200	\$ 29,920	\$ 31,840	\$ 31,840
Student membership	700	780	-	-	1,900	2,040	2,600	2,820	3,040	3,040
Emeritus	-	-	-	-	800	900	800	900	760	760
Subscriptions	100,000	109,613	-	-	24,500	16,677	124,500	126,290	128,315	128,315
Reprints	11,000	9,720	-	-	-	-	11,000	9,720	13,307	13,307
Page charges	33,000	33,989	-	-	-	-	33,000	33,989	42,713	42,713
Back issues/Royalties	-	-	-	-	3,000	3,936	3,000	3,936	3,592	3,592
Sales of Memoirs	-	-	2,000	3,116	-	-	2,000	3,116	2,510	2,510
Sales of Arctic Arthropods and Bibliography	-	-	250	90	-	-	250	90	75	75
Gain on currency exchange	-	-	-	-	-	18,499	-	18,499	12,189	12,189
Translation/Extras	-	8,982	-	-	-	-	-	8,982	-	-
Office postage	-	-	-	-	-	4,753	-	4,753	-	-
Miscellaneous	-	-	-	-	1,000	6,826	1,000	6,826	4,479	4,479
<b>REVENUE</b>										
- Carried Forward	\$ 160,300	\$ 178,044	\$ 2,250	\$ 3,206	\$ 46,800	\$ 68,591	\$ 209,350	\$ 249,841	\$ 242,820	\$ 242,820

ENTOMOLOGICAL SOCIETY OF CANADA  
STATEMENT OF REVENUE AND EXPENDITURE - GENERAL FUND  
FOR THE YEAR ENDED DECEMBER 31, 2001

	Canadian Entomologist		Memoirs and Other Publications		Society		2001		2000	
	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
<b>REVENUE - Carried forward</b>	\$ 160,300	\$ 178,044	\$ 2,250	\$ 3,206	\$ 46,800	\$ 68,591	\$ 209,350	\$ 249,841	\$ 242,820	
<b>EXPENDITURE</b>										
Publishing and mailing	104,000	103,768	-	-	-	-	104,000	103,768	100,990	
Reprint costs	9,000	8,249	-	-	-	-	9,000	8,249	11,349	
Bulletin publishing and mailing	-	-	-	-	14,000	17,710	-	-	11,313	
Salaries and benefits	17,300	17,200	-	-	17,300	17,200	14,000	17,710	33,910	
Editor's expenses	9,500	1,699	-	-	-	-	34,600	34,400	2,552	
Office	3,000	4,818	-	-	3,000	4,818	9,500	1,699	6,522	
Professional fees	2,000	1,600	-	-	2,000	2,400	6,000	9,636	4,100	
Prizes, awards, brochure	-	-	-	-	2,000	1,501	4,000	4,000	1,849	
Honoraria	1,000	1,000	-	-	2,000	1,501	2,000	1,501	3,625	
Committees	-	-	-	-	2,625	2,625	3,625	3,625	-	
Support of other organizations	-	-	-	-	1,500	419	1,500	419	-	
Annual Meetings:	-	-	-	-	1,850	459	1,850	459	1,054	
Grant	-	-	-	-	4,000	4,000	4,000	4,000	-	
Honorees	-	-	-	-	2,000	1,535	2,000	1,535	1,410	
Governing Board:	-	-	-	-	-	-	-	-	-	
Interim meeting	-	-	-	-	3,000	1,664	3,000	1,664	2,361	
Annual meeting	-	-	-	-	6,000	3,710	6,000	3,710	2,911	
Other meetings	-	-	-	-	1,000	-	1,000	-	-	
President's discretionary expenses	-	-	-	-	-	-	-	-	-	
General	-	-	-	-	2,000	200	2,000	200	2,910	
	145,800	138,334	-	-	-	1,880	-	1,880	744	
<b>REVENUE (EXPENDITURE)</b>					62,275	60,121	208,075	198,455	187,600	
<b>FROM OPERATIONS</b>	14,500	39,710	2,250	3,206	( 15,475)	8,470	1,275	51,386	55,220	
Interest on investments	-	-	-	-	11,300	14,852	11,300	14,852	13,393	
<b>NET REVENUE (EXPENDITURE)</b>	\$ 14,500	\$ 39,710	\$ 2,250	\$ 3,206	\$ ( 4,175)	\$ 23,322	\$ 12,575	\$ 66,238	\$ 68,613	
<b>FOR THE YEAR</b>										

## ENTOMOLOGICAL SOCIETY OF CANADA

## STATEMENT OF CASH FLOWS

FOR THE YEAR ENDED DECEMBER 31, 2001

	<u>2001</u>	<u>2000</u>
<b>CASH PROVIDED BY (USED FOR)</b>		
<b>OPERATING ACTIVITIES</b>		
Net revenue (expenditure) for the year		
- General Fund	\$ 66,238	\$ 68,613
- Endowment Fund	( 532)	( 232)
- Building Fund	( 10,288)	( 7,422)
- Scholarship Fund	<u>14,364</u>	<u>4,908</u>
	69,782	65,867
Item not involving cash - amortization	<u>5,177</u>	<u>5,393</u>
	74,959	71,260
Net change in non-cash working capital balances related to operations		
- accounts receivable	18,255	( 17,691)
- accrued interest receivable	( 143)	( 700)
- prepaid expenses	( 1,992)	596
- accounts payable and accrued liabilities	( 13,718)	35,616
- deferred revenue	<u>3,231</u>	<u>( 7,443)</u>
	<u>5,633</u>	<u>10,378</u>
	80,592	81,638
<b>INVESTING ACTIVITIES</b>		
Purchase of investments	( 142,743)	( 25,045)
Proceeds on disposal of investments	130,000	-
Decrease in Investment in Book Project	<u>7,500</u>	<u>7,028</u>
	<u>( 5,243)</u>	<u>( 18,017)</u>
<b>INCREASE IN CASH AND CASH EQUIVALENTS DURING THE YEAR</b>	75,349	63,621
Cash and cash equivalents - beginning of year	<u>225,823</u>	<u>162,202</u>
<b>CASH AND CASH EQUIVALENTS - END OF YEAR</b>	<u>\$ 301,172</u>	<u>\$ 225,823</u>
<b>CASH AND CASH EQUIVALENTS</b>		
Cash	\$ 269,390	\$ 199,330
Term deposit	<u>31,782</u>	<u>26,493</u>
	<u>\$ 301,172</u>	<u>\$ 225,823</u>



**ENTOMOLOGICAL SOCIETY OF CANADA****NOTES TO FINANCIAL STATEMENTS****DECEMBER 31, 2001****1. PURPOSE OF ORGANIZATION**

The purpose of the Organization is to study, promote and advance the study of entomology through meetings, symposia and the publication of original research results. Entomological Society of Canada is incorporated without share capital under Part II of the Canada Companies Act and is exempt from income taxes.

**2. SIGNIFICANT ACCOUNTING POLICIES****(a) Accrual Basis of Accounting**

Revenue and expenditure are recorded on the accrual basis, whereby they are reflected in the accounts in the period in which they have been earned and incurred respectively, whether or not such transactions have been finally settled with the receipt or payment of money.

**(b) Investments**

Investments are recorded at cost, which is not in excess of market value.

**(c) Capital Assets and Amortization**

Capital assets are stated at cost, less accumulated amortization. Amortization is being claimed on the building at the rate of 4% on the reducing balance basis. All other capital asset additions are expensed as they are incurred.

**(d) Volunteer Services**

The Organization receives volunteer services, the value of which cannot be reasonably estimated. Therefore, no representation of these costs are reflected in the financial statements.

**(e) Fund Accounting**

The purpose of each fund is as follows:

**General Fund**

This fund accounts for the Society's primary operating activities.

**Endowment Fund**

The direction of the bequest, by which this fund was founded, states that without imposing any legal obligation, hope is expressed that the principal will not be eroded and that the income will be utilized to aid in the publication of the Canadian Entomologist.

## ENTOMOLOGICAL SOCIETY OF CANADA

## NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2001

## 2. SIGNIFICANT ACCOUNTING POLICIES (Cont'd.)

## (e) Fund Accounting (Cont'd.)

**Building Fund**

This fund was created through an appropriation from the General Fund to recognize the expenses of the building independent of operational expenditures. Prior Board approval has been given to appropriate from the General Fund an amount equal to the current year net expenditure in the Building Fund, excluding amortization on the building.

**Scholarship Fund**

This fund was created with the objective of awarding scholarships for post-graduate studies in entomology. The fund derives its revenue from donations and from the interest on the invested capital. The money is awarded in three different forms: scholarship for post-graduate studies, travel grant to subsidize student travel expenses incurred in relation to their post-graduate studies; or the Keith Kevan Scholarship which is a scholarship for post-graduate studies oriented toward systematics.

## 3. FINANCIAL INSTRUMENTS

**Interest Rate Risk and Credit Risk**

The Society's financial instruments consist of cash, term deposit, accounts receivable, investments, accounts payable and accrued liabilities and deferred revenue. Unless otherwise noted, it is management's opinion that the Society is not exposed to significant interest rate or credit risk.

**Currency Risk**

Currency risk is the exposure to the Society's financial instruments due to changes in exchange rates. The Society is exposed to currency risk through its subscription revenues. The Society monitors its foreign subscription rates to minimize its risk.

## 4. INVESTMENTS

	<u>2001</u>	<u>2000</u>
General Fund		
Bonds, at cost (market value 2001 - \$187,406, 2000 - \$172,754)	\$ <u>179,571</u>	\$ <u>167,157</u>
Endowment Fund		
Bonds, at cost (market value 2001 - \$71,408, 2000 - \$69,552)	\$ <u>64,749</u>	\$ <u>64,631</u>
Scholarship Fund		
Bonds, at cost (market value 2001 - \$106,235, 2000 - \$104,206)	\$ <u>99,910</u>	\$ <u>99,699</u>

## ENTOMOLOGICAL SOCIETY OF CANADA

## NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 2001

## 5. INVESTMENT IN BOOK PROJECT

The Entomological Society has invested in the joint project for the publication of "Diseases and Pests of the Vegetable Crop in Canada" in conjunction with the Canadian Phytopathological Society. Both revenue and expenditure are to be shared in an equitable manner. The investment is recorded using the cost method. For the December 31, 2001 fiscal period no accrual was made for sales net of costs as it will be recognized as received. The remaining investment is expected to be recovered over the next few years. The financial statements are in accordance with Canadian generally accepted accounting principles, except that they are not prepared on a proportionate consolidated basis.

## 6. CAPITAL ASSETS

	<u>2001</u>		<u>2000</u>
	<u>Cost</u>	<u>Accumulated Amortization</u>	<u>Net</u>
Land	\$ 40,000	\$ -	\$ 40,000
Building	<u>202,799</u>	<u>78,542</u>	<u>124,257</u>
	<u>\$ 242,799</u>	<u>\$ 78,542</u>	<u>\$ 169,434</u>



**ENTOMOLOGICAL SOCIETY OF CANADA**  
**SCHEDULE OF ENDOWMENT FUND REVENUE AND EXPENDITURE**  
**FOR THE YEAR ENDED DECEMBER 31, 2001**

	<u>2001</u>	<u>2000</u>
<b>REVENUE</b>		
Interest revenue	\$ 4,305	\$ 4,650
<b>EXPENDITURE</b>		
Page charges and reprints	<u>4,837</u>	<u>4,882</u>
<b>NET REVENUE (EXPENDITURE)</b>		
<b>FOR THE YEAR</b>	<u>\$ ( 532 )</u>	<u>\$ ( 232 )</u>

## SCHEDULE OF BUILDING FUND REVENUE AND EXPENDITURE

FOR THE YEAR ENDED DECEMBER 31, 2001

	<u>2001</u>		<u>2000</u>
	<u>Budget</u>	<u>Actual</u>	<u>Actual</u>
<b>REVENUE</b>			
Rental income	\$ 6,420	\$ 6,510	\$ 6,405
<b>EXPENDITURE</b>			
Amortization	5,420	5,177	5,393
Insurance	800	925	862
Property taxes	5,000	4,937	4,811
Repairs and maintenance	4,950	3,579	977
Utilities	<u>2,000</u>	<u>2,180</u>	<u>1,784</u>
	<u>18,170</u>	<u>16,798</u>	<u>13,827</u>
<b>NET RENTAL REVENUE (EXPENDITURE)</b>			
<b>FOR THE YEAR</b>	<u><u>\$ ( 11,750)</u></u>	<u><u>\$ ( 10,288)</u></u>	<u><u>\$ ( 7,422)</u></u>

**ENTOMOLOGICAL SOCIETY OF CANADA**  
**SCHEDULE OF SCHOLARSHIP FUND REVENUE AND EXPENDITURE**  
**FOR THE YEAR ENDED DECEMBER 31, 2001**

	<u>2001</u>	<u>2000</u>
<b>REVENUE</b>		
Interest revenue	\$ 6,950	\$ 6,686
Recovery of award	769	1,069
Donations	<u>15,183</u>	<u>5,153</u>
	22,902	12,908
<b>EXPENDITURE</b>		
Scholarship awards and travel grants	<u>8,538</u>	<u>8,000</u>
<b>NET REVENUE FOR THE YEAR</b>	<u>\$ 14,364</u>	<u>\$ 4,908</u>



**ENTOMOLOGICAL SOCIETY OF CANADA  
SCHOLARSHIP FUND**

**FINANCIAL STATEMENTS**

**DECEMBER 31, 2001**

## AUDITORS' REPORT

To the Members,  
Entomological Society of Canada  
Scholarship Fund.

We have audited the balance sheet of the Entomological Society of Canada - Scholarship Fund as at December 31, 2001. This financial statement is the responsibility of the Fund's management. Our responsibility is to express an opinion on this financial statement based on our audit.

Except as explained in the following paragraph, we conducted our audit in accordance with Canadian generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In common with many charitable organizations, the Fund derives revenue from cash donations, the completeness of which is not susceptible to satisfactory audit verification. Accordingly, our verification of this revenue was limited to the amounts recorded in the records of the organization and we were not able to determine whether any adjustments might be necessary to donation revenue, net revenue for the year, assets and surplus.

In our opinion, except for the effect of adjustments, if any, which we might have determined to be necessary had we been able to satisfy ourselves concerning the completeness of donations referred to in the preceding paragraph, this financial statement presents fairly, in all material respects, the financial position of the Fund as at December 31, 2001 and the results of its operations for the year then ended in accordance with Canadian generally accepted accounting principles.

*McCay Duff: Company LLP*

Chartered Accountants

Ottawa, Ontario,  
March 7, 2002.

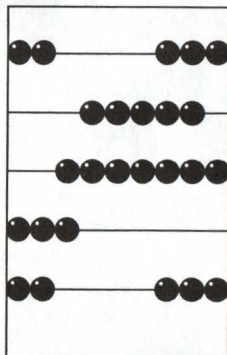
## McCay, Duff & Company LLP

CHARTERED ACCOUNTANTS

141 LAURIER AVE. WEST  
6TH FLOOR  
OTTAWA, ONTARIO K1P 5J3  
TEL: (613) 236-2367  
FAX: (613) 236-5041  
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THOMAS W. HOWARTH, CA  
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BLAIR E. DAVIDSON, B.Comm, CFP, CA  
G. WARREN TRICKEY, B.Comm, CA  
ROBERT D. SHANTZ, B.Math, CA  
MARGARET N. EGAN, B.Admin, CA, C.I.M.

CONSULTANT-ELDREN E. MCCONNELL, CA  
CONSULTANT-JOHN W. FRANKLIN, CA



**ENTOMOLOGICAL SOCIETY OF CANADA  
SCHOLARSHIP FUND**

**BALANCE SHEET**

**AS AT DECEMBER 31, 2001**

**ASSETS**

	<u>2001</u>	<u>2000</u>
<b>CURRENT</b>		
Cash	\$ 32,256	\$ 20,128
Term deposit	4,137	-
Accrued interest receivable	<u>1,832</u>	<u>1,540</u>
	38,225	21,668
<b>INVESTMENTS (note 2)</b>	<u>99,910</u>	<u>99,699</u>
	<u>\$ 138,135</u>	<u>\$ 121,367</u>

**LIABILITIES**

<b>CURRENT</b>		
Due to Entomological Society - General Fund	\$ 8,538	\$ 4,134
Deferred revenue	<u>-</u>	<u>2,000</u>
	8,538	6,134

**SURPLUS**

<b>BALANCE - BEGINNING OF YEAR</b>	115,233	110,325
Revenue		
Interest	6,950	6,686
Recovery of award	769	1,069
Donations	<u>15,183</u>	<u>5,153</u>
	22,902	12,908
Expenditure		
Scholarship awards and travel grants	<u>8,538</u>	<u>8,000</u>
	<u>8,538</u>	<u>8,000</u>
Net revenue for the year	<u>14,364</u>	<u>4,908</u>
<b>BALANCE - END OF YEAR</b>	<u>129,597</u>	<u>115,233</u>
	<u>\$ 138,135</u>	<u>\$ 121,367</u>

**Approved on behalf of the Board:**

\_\_\_\_\_  
Director

\_\_\_\_\_  
Director



**ENTOMOLOGICAL SOCIETY OF CANADA  
SCHOLARSHIP FUND**

**NOTES TO FINANCIAL STATEMENT**

**DECEMBER 31, 2001**

**1. SIGNIFICANT ACCOUNTING POLICIES**

**(a) Accrual Basis of Accounting**

Revenue and expenditure are recorded on the accrual basis, whereby they are reflected in the accounts in the period in which they have been earned and incurred respectively, whether or not such transactions have been finally settled with the receipt or payment of money.

**(b) Volunteer Services**

The Fund receives volunteer services, the value of which cannot be reasonably estimated. Therefore, no representation of these costs are reflected in the financial statement.

**2. INVESTMENTS**

	<u>2001</u>	<u>2000</u>
Bonds, at cost (market value 2001 - \$106,235, 2000 - \$104,206)	\$ <u>99,910</u>	\$ <u>99,699</u>

**3. FINANCIAL INSTRUMENTS**

The Organization's financial instruments consist of cash and investments. Unless otherwise noted, it is management's opinion that the Organization is not exposed to significant interest rate, exchange rate or credit risks arising from these financial instruments.

**4. STATEMENTS OF INCOME AND CASH FLOWS**

These statements have not been prepared as all the relevant information is apparent from the other financial statement.

**Entomological Society of Canada / Société d'entomologies du Canada  
Committees and Representatives 2002 / Comités et Représentants 2002**

**Standing committees/Comités permanents**

**Nominations/Nominations**

R. Foottit, Chair, Ottawa  
R. Bennett, Victoria  
J. Delisle, Sainte-Foy  
B. Roitberg, ex officio, Burnaby

**Elections/Elections**

R. Hallett, Chair  
J. MacIntyre-Allen, Guelph  
A. Martin, Guelph  
B. Roitberg, ex officio, Burnaby

**Continuing Committees/Comités en cour**

**Achievement Awards/Prix d'excellence**

S. Smith, Chair, Ottawa  
B. Roitberg, ex officio, Burnaby

**Annual Meeting/Réunion Annuelle**

P. de Groot, Chair, Sault Ste. Marie  
B. Roitberg, ex officio, Burnaby

**Bilingualism/Bilinguisme**

L. Royer, Chair, Corner Brook  
H. Chiasson, St-Marc-sur-Richelieu  
M. Roy, Québec  
B. Roitberg, ex officio, Burnaby

**Bylaws, Rules & Regulations/Règlements M.**

Goettel, Chair, Lethbridge  
N.J. Holliday, Winnipeg  
G. Boiteau, Fredericton  
B. Roitberg, ex officio, Burnaby

**Finance/Finance**

J.E. O'Hara, Chair, Ottawa  
D. Parker, Ottawa  
P. Mason, Ottawa  
M. Sarazin, Ottawa  
G. Gibson, Treasurer, Ottawa  
B. Roitberg, ex officio, Burnaby

**Headquarters/Siège social**

V. Behan-Pelletier, Chair, Ottawa  
J.M. Cumming, Ottawa  
G. Gibson, ex officio, Ottawa  
B. Roitberg, ex officio, Burnaby

**Heritage/Heritage**

D.C. Eidt, Chair, Fredericton  
P.W. Riegert, Regina  
E.C. Becker, Ottawa  
B. Roitberg, ex officio, Burnaby

**Insect Common Names/  
Noms communs d'insectes**

H. Chiasson, Chair,  
St. Marc-sur-Richelieu  
M. Roy, Sainte-Foy  
B. Roitberg, ex officio, Burnaby

**Marketing/Comité du marketing**

L. Braun, Chair, Saskatoon  
H. White, Winnipeg  
O. Olfert, Saskatoon  
B. Roitberg, ex officio, Burnaby

**Membership/Adhésion**

J. Sweeney, Chair, Fredericton  
T. Shore, ESBC, Victoria  
R. Bouchier, ESA, Lethbridge  
R. Elliott, ESS, Saskatoon  
P. MacKay, ESM, Winnipeg  
D. Hunt, ESO, Harrow  
N. Larocque, SEQ, Québec  
G. Boiteau, Fredericton  
B. Roitberg, ex officio, Burnaby

**Publications/Publications**

V. Nealis, Chair, Victoria  
G. Boivin, St.-Jean-sur-Richelieu  
R. Bennett, Victoria  
P. de Groot, Sault Ste. Marie  
P. Kevan, Guelph  
L. Gilkeson, Victoria  
D.B. Lyons, Sault Ste. Marie  
J. Turgeon, ex officio, Sault Ste. Marie  
D. Johnson, ex officio, Lethbridge  
B. Roitberg, ex officio, Burnaby

**Science Policy and Education/Politique  
scientifique et éducation**

C. Vincent, Chair, Saint-Jean-sur-Richelieu  
K.G. Davey, Downsview  
P. Kevan, Guelph  
T. Shore, ESBC, Victoria  
R. Bouchier, ESA, Lethbridge  
R. Elliott, ESS, Saskatoon  
P. MacKay, ESM, Winnipeg  
D. Hunt, ESO, Harrow  
N. Larocque, SEQ, Laval  
G. Boiteau, AES, Fredericton  
B. Roitberg, ex officio, Burnaby

**Student Affairs/Affaires étudiantes**

J. Savage, Chair, Montréal  
C. Schmidt, Edmonton  
B. Sarauer, Saskatoon  
D. Gillespie, ex officio, Agassiz  
B. Roitberg, ex officio, Burnaby

**Student Awards/Prix aux étudiantes  
et étudiants**

D. Gillespie, Chair, Agassiz  
J. Delisle, Sainte-Foy  
B.K. Mitchell, Edmonton  
D. Quiring, Fredericton  
T.A. Wheeler, Ste-Anne-de-Bellevue  
D.C. Currie, Toronto  
D.J. Larson, St. John's  
B. Roitberg, ex officio, Burnaby

**Ad hoc Committees / Comités ad hoc**

**Joint Meeting Document**

T. Shore, Chair, Victoria  
J. Sweeney, Fredericton  
R. Footitt, ex officio, Ottawa



## **Postgraduate Awards**

### **Entomological Society of Canada**

The Entomological Society of Canada will offer two postgraduate awards of \$2,000 each to assist students beginning study and research leading to a first post-graduate degree in entomology. The postgraduate awards will be made on the basis of high scholastic achievement.

#### **Invitation for Applications**

##### **Eligibility**

Applicants for either scholarship must be members of the Entomological Society of Canada at the time of application. The successful applicants must be either Canadian citizens or landed immigrants with Bachelor's degrees from Canadian universities. Applicants must be entering their first post-graduate degree in entomology, and must begin their first year of postgraduate studies between 15 June 2000 and 31 December 2002. The studies and research must be carried out at a Canadian university. Each award is conditional upon certification by the Department Head that successful applicants have been accepted into the first year of a program of study and research for an advanced degree with full graduate status. A student who was unable to gain admission or enters graduate school as a qualifying candidate is not eligible to receive an award.

##### **Method of Application**

Applicants must submit a properly completed form, with support documents. Application forms are available at <http://www.biology.ualberta.ca/esc.hp/form.htm>, or from the Chair of the ESC Student Awards Committee. **The original and three copies of the application and supporting documents, must be submitted to the Chair of the Student Awards Committee postmarked no later than 10 June 2002. Only one original transcript is required.** Please specify on the application form if you are applying for the Postgraduate Award, or the Keith Kevan Scholarship. Separate applications and documentation packages must be submitted with each award application.

##### **Process of Selection and Award Presentation**

Applications will be reviewed by a committee of the Society. An announcement of the two winners will be made at the annual meeting of the Society and each winner will receive a certificate. Payment of the award will be made in October 2002.

##### **Regulations**

**Earnings from Other Sources:** Award holders are permitted, under normal circumstances, to demonstrate, instruct or assist in non-degree related research for a maximum of 200 hours per annum, provided that the Head of their Department considers this is desirable and that it does not hinder the progress of their studies. Apart from these assistantships, award holders will devote their full time to study and research and will not undertake any paid work during the school term. They may hold other awards and scholarships.

**Transfers:** Awards are made on the condition that the winners engage in a program of graduate studies and research for an advanced degree in entomology in Canada. Students who, after receiving the award, wish to change their graduate program or transfer to a foreign university may be asked to decline the award. Any change in the course of study, department or university in which an award winner is

registered requires prior approval of the Scholarship Committee. A request for permissions to transfer must be supported by statements from Heads of Departments.

**Additional Allowances:** The award stipends are all-inclusive. There is no provision for additional grants by the Society for any purpose. Additional grants, for example, to attend meetings, pay course fees, meet publications costs, etc., will not, under any circumstances, be authorized.

All communications regarding these awards, including requests for applications, should be addressed to:

Dr. David R. Gillespie, Chair  
ESC Student Awards Committee  
Pacific Agri-Food Research Centre (Agassiz)  
Agriculture and Agri-Food Canada  
P.O. Box 1000, Agassiz, B.C., V0M 1A0  
E-mail: GillespieD@em.agr.ca

(ESC-SEC <http://esc-sec.org/>)

### **BOURSE POUR ÉTUDIANTS POST-GRADUÉS** **Société entomologique du Canada**

La Société d'entomologie du Canada offrira deux bourses d'une valeur de \$2,000 chacune pour aider des étudiants qui débutent des études post-graduées et des recherches en vue de l'obtention d'un premier diplôme d'études supérieures en entomologie. Les bourses seront accordées aux étudiants ou étudiantes en raison des seuls critères de réussite académique.

#### **Avis**

##### **Éligibilité**

Les candidats doivent être membres de la Société d'entomologie du Canada au moment de la demande. Les candidats doivent aussi être Canadiens ou résidents reconnus du Canada et détenir un baccalauréat d'une université canadienne. Les candidats doivent obligatoirement avoir débuté leur première année d'études post-graduées entre le 15 juin 2000 et le 31 décembre 2002 en vue d'obtenir leur premier diplôme d'études supérieures en entomologie, et effectuer leur étude et recherche dans une université canadienne. Les bourses ne seront accordées que lorsque les directeurs de Département auront certifié que les candidats choisis sont inscrits en première année d'un programme d'études supérieures, et ce avec tous les privilèges attachés au statut d'étudiant gradué. Un étudiant qui n'a pu être admis à l'École des Gradués, ou qui s'inscrit en vue de compléter l'obtention de crédits, n'est pas éligible à la bourse.

##### **Procédure**

Les candidats devront soumettre leur candidature à l'aide du formulaire approprié et y joindre tous les documents requis. Les formulaires sont disponibles auprès du président du Comité des bourses aux étudiants de la Société ou sur notre site internet à l'adresse suivante:

<http://www.biology.ualberta.ca/esc.hp/form.htm>. **L'original ainsi que trois copies de la demande et des autres documents qui l'accompagnent doivent être soumis au Président du Comité des Prix au plus tard le 10 Juin 2002. Seulement un original de la demande complète est exigé.** Veuillez préciser sur le formulaire si vous soumettez votre candidature pour la Bourse Post-graduée ou la Bourse Keith Kevan. Des formulaires distincts accompagnés des documents requis doivent être soumis pour chacune des

Bourses.

### Sélection et remise des bourses

L'analyse des candidatures se fait par un comité de la Société, et l'annonce des récipiendaires se fera à la réunion annuelle de la Société où ils recevront un certificat. Le paiement de la bourse aura lieu en octobre 2002.

### Règlement

Autres sources de revenus: Un boursier pourra normalement donner des séances de cours ou de démonstration et être auxiliaire de recherche jusqu'à un maximum de 200 heures par année, en autant que le Directeur de son département considère cela profitable et que ces tâches additionnelles ne nuisent pas au progrès de l'étudiant. Mises à part ces exceptions, un boursier devra consacrer tout son temps à ses études et recherches et n'accepter aucune autre rémunération. Il peut cependant jouir d'une autre bourse ou d'un prix.

Transferts: Les bourses sont accordées à condition que les boursiers entreprennent des études graduées en vue de l'obtention d'un diplôme en entomologie au Canada. Les boursiers qui décideront de changer de champ d'études, ou de transférer dans une université hors du Canada peuvent se voir retirer leur bourse. Après acceptation de la bourse, tout changement de programme d'études, de département ou d'université devra recevoir au préalable l'approbation du Comité de la Bourse de la SEC. Une telle demande doit être accompagnée de documents provenant des Directeurs des départements concernés.

Frais supplémentaires: La somme offerte est invariable. En aucun cas la Société n'accordera de montant supplémentaire. Des frais additionnelles, par exemple, pour assister aux réunions scientifiques, payer des frais de cours, défrayer des coûts de publications, etc..., ne seront autorisés sous aucune considération. Toute correspondance relative aux bourses, incluant les demandes de formulaires doit être adressée à:

Dr. David R. Gillespie, Président

Comité des prix aux étudiants de la SEC

Centre de recherches agricoles du Pacifique - Agassiz

Agriculture et Agroalimentaire Canada

Case Postale 1000, Agassiz, C.B., V0M 1A0

Courriel: GillespieD@em.agr.ca

( ESC-SEC <http://esc-sec.org/> )

Le masculin est employé dans ce texte pour désigner les personnes des deux sexes.

---

### Travel award recipients:

Kennantudawage Hemachandra, Department of Entomology, University of Manitoba, to assist in travelling to the Canadian National Collection in Ottawa and the Laurentian Forestry Centre in St. Foy Quebec to examine material *Aleochara* spp. and to collaborate with experts in the field.

Madlen Denoth, Dept of Zoology, University of British Columbia, to assist in travelling to Switzerland to interact with weed biocontrol specialists at CABI Delemont and University of Fribourg.



## Scholarship Fund

Over the past year many of you have donated very generously to our scholarship fund. In total, during 2001, we received \$8,800 in **tax-deductible** donations. The names of many of those donors are shown below. On behalf of the society I would like to thank every one of you for your generosity. For those who have yet to give please consider the following.

- 1) Our Society currently awards \$8,000 in scholarships annually with a further \$1,000 biannually from the Kevan Scholarship. A new award, the Borden Scholarship will come on board soon in addition to travel grants to assist students to attend our Annual General Meetings.
- 2) We would like these funds to be self-sustaining but we are not there yet and with current low interest rates we depend upon your annual donations to make up the difference.
- 3) Students are the future of our society. As university-based support becomes harder to obtain the importance of these scholarships grows as a means to help defray the high costs of research and research-based travel.

Once again, thank you for your generous donations.

Bernie Roitberg

### 2001 Scholarship donors

G. Ball	R. Edwards	S. Loschiavo	J. Shorthouse
E. Becker	D. Eidt	M. MacGillivray	R. Smith
E. Belton	P. Fields	J. McLean	T. Smith
J. Borden	S. Fitzpatrick	J. McNeil	R. Stark
J. Brooks	R. Forbes	L. Merrill	A. Stevenson
G. Byers	J. Gavloski	T. Okubo	C. Summers
J. Churcher	T. Galloway	D. Peschken	J. Sweeney
M. Clodius	G. Gibson	B. Philogène	V. Vickery
C. Cloutier	D. Gillespie	T. Poland	J. Webster
R. Crowell	K. Griffiths	D. Quiring	R. Westwood
J. Cunningham			
K. Davey	P. Harris	E. Radcliffe	D. Williams
R. DeClerck-Floate	D. Herne	L. Rankin	P. Wood
P. deGroot	R. Jaques	K. Richards	
J. Downes	R. Lamb	B. Roitberg	
	S. Lindgren	L. Safranyik	

and those who gave anonymously.

## **Fonds pour les bourses d'étude**

Plusieurs d'entre vous ont donné généreusement au fonds pour les bourses d'étude cette année. Nous avons reçu un total de 8,800 \$ en dons **déductibles d'impôt** en 2001. Les noms de ces généreux donateurs et généreuses donatrices apparaissent plus bas. Au nom de la Société, je voudrais remercier chacun de vous pour votre générosité. Pour ceux qui n'ont pas encore donné, veuillez considérer les éléments suivants :

- 1) Notre Société distribue présentement 8,000 \$ en bourses d'étude annuelles. À cela, nous devons ajouter 1,000 \$ additionnel tous les deux ans pour la bourse Kevan. Une nouvelle bourse, la bourse Borden, sera bientôt offerte en plus de bourses de voyage pour aider les étudiants et étudiantes à assister au congrès annuel.
- 2) Nous voudrions que ces fonds soient autosuffisants, mais cet objectif n'est pas encore atteint. Avec le bas niveau des taux d'intérêt, nous dépendons de vos dons annuels pour combler la différence.
- 3) Les étudiants sont le futur de notre Société. Alors que les fonds de soutien provenant des universités deviennent plus difficiles à obtenir, l'importance de nos bourses d'étude augmente sans cesse et aide à défrayer les coûts élevés de recherche et de voyage de recherche.

Encore merci pour vos généreux dons.  
Bernie Roitberg

### **Donateurs et donatrices pour les bourses d'étude 2001**

G. Ball	R. Edwards	S. Loschiavo	J. Shorthouse
E. Becker	D. Eidt	M. MacGillivray	R. Smith
E. Belton	P. Fields	J. McLean	T. Smith
J. Borden	S. Fitzpatrick	J. McNeil	R. Stark
J. Brooks	R. Forbes	L. Merrill	A. Stevenson
G. Byers	J. Gavloski	T. Okubo	C. Summers
J. Churcher	T. Galloway	D. Peschken	J. Sweeney
M. Clodius	G. Gibson	B. Philogène	V. Vickery
C. Cloutier	D. Gillespie	T. Poland	J. Webster
R. Crowell	K. Griffiths	D. Quiring	R. Westwood
J. Cunningham			
K. Davey	P. Harris	E. Radcliffe	D. Williams
R. DeClerck-Floate	D. Herne	L. Rankin	P. Wood
P. deGroot	R. Jaques	K. Richards	
J. Downes	R. Lamb	B. Roitberg	
	S. Lindgren	L. Safranyik	

et ceux et celles qui ont préféré garder l'anonymat.

**MINUTES**  
**ENTOMOLOGICAL SOCIETY OF CANADA**  
**Executive Council Meeting**  
**Ottawa, Ontario**  
**April 27, 2002**

The meeting was called to order at 0910 h on April 27, 2001 by President B. Roitberg. Those present were President, B. Roitberg; Past-President, R. Foottit; Second Vice-President, C. Vincent; Treasurer, G. Gibson; and Secretary, R. West. S. Smith, First Vice-President, participated by phone from France.

1. Notice of Meeting

The notice for this meeting was e-mailed on February 22, 2002 and printed in the December 2001 and March 2002 issues of the Bulletin.

2. Additions to and approval of the Agenda

R. Foottit moved and S. Smith seconded that the Agenda be approved. Carried.

3. Proxies and absences

Nil.

4. Minutes - Governing Board Meeting, October 20, 2001

The minutes were circulated by Secretary R. West on November 3, 2001. R. Foottit moved and C. Vincent seconded that the minutes be approved. Carried.

5. Minutes - 51st Annual General Meeting, October 23, 2001

The minutes were circulated by Secretary R. West on November 3, 2001. R. Foottit moved and C. Vincent seconded approval of the minutes. Carried.

6. Minutes - Governing Board Meeting, October 24, 2001

The minutes were circulated by Secretary R. West on November 3, 2001. R. Foottit moved and C. Vincent seconded acceptance of the minutes. Carried.

7. Minutes - Executive Council Meeting, April 21, 2001

R. Foottit moved and C. Vincent seconded that the minutes as circulated by the Secretary on May 2, 2001 and signed by the President and First Vice-President, be accepted. Carried.

8. Business arising from the previous minutes:



The following items were identified from previous minutes. As they pertained to individual committees, they were discussed under new business:

- 8.1 Discount for members to attend annual meeting (9.2.14.1 EC, 9.2.19.1 GB1), moved to 9.2.19.1
- 8.2 Endangered species legislation (9.2.16 EC, 9.2.16.1 GB1), moved to 9.2.16.1
- 8.3 Marketing strategy for *The Canadian Entomologist* (9.2.18.1 EC), moved to 9.2.18.1
- 8.4 Proceeds from 2000 J.A.M. (9.2.1.1 GB1), moved to 9.2.1.2
- 8.5 Electronic Publishing with NRC Press (9.2.4.1 GB1), moved to 9.2.6.1
- 8.6 Web page on Science Policy (9.2.16.4 GB1), moved to 9.2.6.2
- 8.7 Copyright/License to Publish (9.2.6.5 GB1), moved to 9.2.6.3
- 8.8 Search for a new Editor (9.2.6 GB1), moved to 9.2.4.1
- 8.9 Advertising in the Bulletin (9.2.5 EC, 9.2.3.1, 9.2.6.7 GB1), moved to 9.2.3.1
- 8.10 Ad hoc Scholarships Funding Committee (9.2.15 GB1), moved to 9.2.15.1
- 8.11 Conference Travel Award Guidelines (9.2.15.1 GB1), moved to 9.2.15.2
- 8.12 Student List (9.2.17 GB1), moved to 9.2.17.1
- 8.13 Student Symposia/Workshops at Annual Meetings (9.2.17 GB1), moved to 9.2.17.2
- 8.14 Reprint Costs (7.2 GB2), moved to 9.2.3.2
- 8.15 ESC Headquarters improvements (9.2.2.2 GB1), moved to 9.2.2.2
- 8.16 Thelma Finlayson Endowed Chair (7.3 GB1), moved to 9.2.1.1

## 9. New Business

### 9.1 Correspondence

#### 9.1.1 Secretary

R. West reported that the correspondence received by him was routine in nature and did not require action by the Executive Council.

#### 9.2 Reports from Officers, Trustees, Committees and Representatives

R. Foottit moved and C. Vincent seconded that all reports be received. Carried.

#### 9.2.1 Executive Council

President Roitberg outlined Society business dealt with since the fall meeting of the Board (see his report in the upcoming June Bulletin).

##### 9.2.1.1 Thelma Finlayson Endowed Chair.

President Roitberg informed the Executive Council that he wrote a letter on behalf of the Society in support of the Thelma Finlayson Endowed Chair to T. Finlayson, the Dean of Science and President of Simon Fraser University. All responded, thanking the Society for its endorsement of this award.

##### 9.2.1.2 Proceeds from the 2000 J.A.M.

The Society received \$7955.20 from the proceeds of the 2000 J.A.M. R. West will check with D. Johnson to confirm that copies of correspondence concerning the 2000 J.A.M. were sent to the Society Office for filing. **Action: R. West, D. Johnson.**

Treasurer

Report received.

9.2.2.1 Auditors Report.

Financial statements for 2001 (General, Endowment, Building and Scholarships Fund, Book project) were circulated. S. Devine will mail the financial statements to the Board. **Action: S. Devine.**

R. Footitt moved and C. Vincent seconded acceptance of the auditors report. Carried.

9.2.2.2 ESC Headquarters Committee

Report received. Several items were identified for attention and repair. The Executive Council authorized V. Behan-Pelletier to contract work under \$5000 (additional funds need to be approved by the Treasurer and Executive Council).

**Action: V. Behan-Pelletier.**

C. Vincent asked if the electrical wiring at ESC Headquarters was satisfactory. G. Gibson stated that the electrical wiring followed building code requirements and was working properly.

9.2.2.3 Conference Travel Fund

Not enough funds have yet been raised to initiate this award. A draft for the Conference Travel Award, produced by D. Gillespie, elicited the following recommendations from the Executive:

The committee needs to decide whether to award a fixed amount or a variable amount; agrees that students must be members of the Society to be eligible (supervisors should not have to be members); students must present a poster or a talk; a demonstration (statement) of need is a better criterion than an essay of why the meeting is important; and transcripts are unnecessary. Full disclosure of financial contributions needs to be made (i.e., Corporate contributions should be acknowledged).

9.2.2.4 Borden Award

This Award will be initiated once sufficient funds have been raised to sustain it. Membership forms now have offer a selection of awards to which money can be donated. Again active solicitation for this Award is needed.

Finance Committee

9.2.3 Report received. The 2001 audit and the treasurer's interim report indicate that the Society is financially sound having realized a net gain in assets of nearly \$70,000 in 2001. However, the surplus in 2002 will be lower because the cost of publishing *The Canadian Entomologist* increased significantly at the beginning of this year.

9.2.3.1 Advertising in the Bulletin

G. Gibson suggested that the revenues from advertising would be minor and the Executive felt lukewarm to the idea of advertising, as did the Publications Committee. As a result, the Executive decided to recommend that advertising not be included in the Bulletin.



#### 9.2.3.2 Reprint Costs

The Society is currently incurring a loss for short papers. Increased charges should cover the costs of reprints with a small profit but should not be used to fund non-print activities like online publishing. At 35.00/page authors are getting a great bargain (actual cost of publication is about 80.00/page) and the increased reprint charges can help to offset this. S. Smith moved and R. Footitt endorsed alternative B recommended by G. Gibson. Carried. This increase will be put to a vote by the Board at its annual meeting. **Action: R. West**

#### 9.2.4 Scientific Editor

Report received. G. Gibson cautioned that moving to electronic submission and review of papers may require significant costs (eg, up to 20k). These costs and other costs of electronic publication need to be identified by the Editor in Chief and discussed with the Treasurer before they can be approved by the Board. **Action: J. Turgeon, G. Gibson.**

#### **New Editorial Board Structure**

A new editorial board structure is proposed as follows: as follows: 1 Editor-in-Chief, 3 Division Editors [one for each of the following divisions listed in the journal's Table of Content (*i.e.*, Division 2 - Biodiversity, Systematics, Morphology and Evolution; Division 3 - Physiology, Biochemistry, Development and Genetics; Division 4 - Behaviour and Ecology (Division 5 - Insect management, would also be the responsibility of the Division 4 Editor)] and a variable number of Associate Editors. The Editor-in-Chief would be responsible for the selection of scientific papers for Division 1 (Reviews) and Division 7 (Forum) and publication of the scientific journal of the Society. Under this new structure, the role, duties and numbers of Associate Editors would not change.

The executive fully supported the appointments of Mike Sharkey, Michel Cusson, and Bob Lamb as **Associate** Editors of The Canadian Entomologist covering divisions 2, 3, 4 (&5). The Executive requests that the new editorial board structure be operated for one year and a report given to the next meeting of the Executive Council. If the new structure works well, then appropriate changes will be made to the Standing Rules and Committee Guidelines.

The Editor recommended that reference to Scientific Editor (Memoirs) should be removed as this position no longer exists. However, the Executive decided to leave this option open in the event that a special publication be issued as a Memoir.

The Treasurer will prepare a revised budget for operation of the Editorial Office following discussion with the Editor in Chief. **Action: G. Gibson.**

#### **Parallel Publishing**

G. Gibson and J. Turgeon drafted a form, "Authorization to publish/Copyright assignment" and proposed a policy on the rights and privileges of authors using similar documents from other societies/journals. This form was reviewed by NRC personnel familiar with the legalities of



copyright and they some minor changes (such as putting in the section for dead people), were advised and incorporated into the forms. The Chair of the Publications Committee, V. Nealis, recommended that the forms as they stood be accepted.

R. Footitt moved and C. Vincent seconded that the form "Authorization to publish/Copyright assignment" be authorized for use provided that a version/date for the form be included. Carried.

**Action: J. Turgeon**

R. Footitt moved and S. Smith seconded that the policy on authors rights and privileges proposed by G. Gibson and J. Turgeon be approved with the phrase "no financial gain is recognized" deleted. A copy of the two forms will be scrutinized by senior staff at Agriculture Canada and any concerns will be passed on to the ESC Executive for consideration., if there are no problems, the form will be sent to the Board for approval by email ballot. **Action: G. Gibson, R. West.**

Once copyright forms are signed, the Society has the legal right to sign with an abstracting service, e.g., ProQuest.

The Executive is in favour of parallel publishing but needs more information. Before parallel publishing can be approved, a set budget, security, password and other operational requirements from the Publications Committee in consultation with NRC is needed along with a time line on how to proceed. As soon as this information is provided, an email ballot to formally approved parallel publishing of *The Canadian Entomologist* will be sent to the Board. B. Roitberg will discuss this process with V. Nealis and J. Turgeon in order to expedite approval. **Action: B. Roitberg, V. Nealis, J. Turgeon.**

#### **Associate Editors**

In December, Peter de Groot and Felix Sperling stepped down as Associate Editors. A letter will be sent to both individuals, thanking them for their tremendous efforts and significant contribution to the success of our Journal. **Action: B. Roitberg**

Drs. Mitch Trimble (Vineland Station) and Mary Reid (University of Calgary) have accepted to join our team of Associate Editors. Mitch will handle submissions dealing with chemical ecology whereas Mary will handle those on reproductive behaviour and ecology. A letter of thanks will be sent to Drs. Trimble and Reid. **Action: B. Roitberg.**

#### **9.2.4.1 Search For A New Editor**

J. Turgeon has offered to postpone his retirement until a smooth transition to a new editorial board, under a new structure is in place.

#### **9.2.5 Editor - Bulletin**

Report received.

The Publications Committee recommended that the *Bulletin* be posted as a PDF, identical to the hardcopy version, on the ESC website with no restrictions on retrieval. The Executive instructed D. Johnson to continue to provide B. Lyons with PDF versions of the Bulletin. **Action: D. Johnson.**

The Executive also instructed D. Johnson to get a cost and provide a timeline on publishing *Heritage to Biography* as a special insert in the Bulletin. A PDF version of this document should also be posted on the web site once the hard copy version is in print. **Action: D. Johnson.**

The President will discuss designation of duties and communication processes with the Bulletin Editor and Assistant Bulletin Editor. **Action: B. Roitberg, D. Johnson, P. Fields.**

#### 9.2.6 Publications Committee

Report received.

The Executive approved the following recommendations by V. Nealis regarding the electronic version of the Bulletin:

- The electronic version should be posted once the hardcopy goes to press. Thus, the electronic version will be available before the hardcopy version.
- Back electronic issues should be archived and indexed on the ESC website. No specific recommendations are made on how many issues should be retained on the website. The website should not, however, be regarded as an archival system for the *Bulletin* at this point in the development of the technology.
- Once electronic posting is implemented, members should be given the option of not receiving their hardcopy version of the *Bulletin* in the interest of paper conservation and reduction in society mailing costs. No changes in membership dues is at issue.

G. Gibson suggested that a password be used to access the Bulletin. The Executive agreed that access to full bulletin content be for members only. C. Vincent will look into this following discussion with B. Lyons, the ESC Webmaster, and the SEQ webmaster who has a password system in place for the SEQ web site. **Action: C. Vincent, B. Lyons.**

See item 9.2.3.1. regarding advertising in the Bulletin.

#### 9.2.6.1 Electronic publishing with NRC Press

See item 9.2.4.

#### 9.2.6.2 Web page on science policy

C. Vincent will set up a page on Science Policy in consultation with B. Lyons. **Action: C. Vincent, B. Lyons.**

#### 9.2.6.3 Copyright and license to publish in The Canadian Entomologist and The Bulletin

See item 9.2.4.

#### 9.2.7 Nominations Committee

The following have been nominated and agreed to stand for election in 2002:

Second Vice-President: Bob Lamb and Lorraine Braun

Director-at-Large: Dave Gillespie, Fiona Hunter, Cynthia Scott-Dupree

R. Foottit will remind the nominees to send their biographies to R. West who will have them translated by L. Royer. R. West will send the ballot and biographies to S. Devine for mailing to the membership.

**Action: R. Foottit, R. West, L. Royer, S. Devine**

#### 9.2.8 Elections Committee

The Committee is in place and ready to fulfill its mandate for the 2002 elections.

#### 9.2.9 Achievement Awards Committee

The committee recommends Dr. Bob Lamb as the 2002 recipient of the Gold Medal and members are being encouraged to submit nominations for the C. Gordon Hewitt Award, Honorary Membership and Fellowship. **Action: S. Smith**

S. Smith moved and R. Foottit seconded that the recommendation by the Achievement Awards Committee to award Dr. Bob Lamb with the Gold Medal Award be accepted. Carried. B. Roitberg will inform Dr. Lamb of the Committee's decision. **Action: B. Roitberg.**

#### 9.2.10 Bilingualism Committee

Report received. Any requests for money to fund translations should be made to the Treasurer.

#### 9.2.11 Bylaws, Rules and Regulations Committee

No report received. The Executive recognized the need for a committee to solicit funds for scholarships and for the Society in general. The Bylaws, Standing Rules and Regulations Committee is charged with developing terms of reference (rules and guidelines) for a new continuing committee, the Fund-raising Committee. **Action: Mark Goettel**

#### 9.2.12 Heritage Committee

Report received. The Heritage Committee is pleased to note that the ESBC celebrated its 100<sup>th</sup> anniversary in 2001. B. Roitberg will write a congratulatory letter to the ESBC and request a copy of the ESBC's 100<sup>th</sup> anniversary issue for filing at Society Headquarters. **Action: B. Roitberg**

C. Vincent will clarify copyright issue for a collection of slides that the Entomological Society of Saskatchewan is willing to donate to the ESC. **Action: C. Vincent**

#### 9.2.13 Insect Common Names and Cultures Committee

Report received.

#### 9.2.14 Membership Committee

Report Received.

##### 9.2.14.1 Membership list

The committee recommends that the list of ESC members and their email addresses be distributed to individual ESC members on request to the Membership Committee. Once per year, each member would be given the option of having his or her name and address removed from such a distribution list, perhaps by ticking the appropriate box on the membership renewal form.



C. Vincent and R. Foottit will format the existing Memberships list and provide it to the Memberships Committee. **Action: C. Vincent, R. Foottit.**

C. Vincent moved and R. Foottit seconded that the membership list be made password-accessible by members only from the web site. Carried. **Action: J. Sweeney, B. Lyons.**

The Membership Committee is charged with maintaining the web version of the membership list with periodical updates provided from Society Headquarters. **Action: J. Sweeney.** The Bylaws, Standing Rules and Committee Guidelines Committee is charged with drafting a motion to include the above in the Memberships Committee Guidelines. **Action: M. Goettel**

R. West suggested that memberships might increase if government scientists could use A-base funding to join a professional society as part of their professional development. Universities already provide funding to professors to join professional societies. This possibility will be discussed with the union representing government scientists. **Action: C. Vincent, R. Foottit.** A letter to the Presidents of other professional Canadian Societies will be written to increase support for this initiative. **Action: B. Roitberg. C. Vincent, R. Foottit and B. Roitberg will keep the Memberships Committee informed on the progress of this investigation.**

Additional suggestions on how to increase memberships are requested from the Memberships Committee. **Action: J. Sweeney.**

#### 9.2.15 Student Awards Committee

Report received. Since the report was received, K. Hemachandra (U. Manitoba) M. Denoth (UBC) received travel awards.

#### 9.2.15.1 Ad hoc Scholarships Funding Committee

see item 9.2.11.

#### 9.2.15.2 Conference Travel Award Guidelines

A draft of the Conference Travel Award Guidelines prepared by D. Gillespie was circulated. See item 9.2.2.3

#### 9.2.16 Science Policy Committee

Report received. No actions were requested from the Executive Council. The first generation of insect photos (~50) are expected to be posted on the web site by mid-summer.

#### 9.2.16.1 Endangered Species Legislation

B. Roitberg sent a letter, drafted by S. Smith and reviewed by members of the Society, to the Prime Minister and Mr. Charles Caccia.. There was no answer from the PMO, however, a thoughtful response was received from Mr. Caccia. Copies of the letter will be sent to the media and the correspondence from Mr. Caccia will be posted on the web site. **Action: B. Roitberg, C. Vincent, B. Lyons.**

#### 9.2.17 Student Affairs

Report received. The directory of student members and their research interests is posted on the ESC web site. Mention of this list should be made in the Bulletin. **Action: D. Johnson**

B. Roitberg will contact J. Savage regarding meeting room requirements at the Winnipeg meetings. **Action: B. Roitberg**

#### 9.2.18 Marketing Committee

Report received. In preparation for the 2002 Annual Meeting in Winnipeg, the ESC Marketing Committee requests funds up to the amount of ca. \$600 to be used as seed money for production of saleable items (coffee mugs, lapel pins). Initial designs will consist of the ESC logo (as it appears on the ESC plaque), without reference to the yearly Annual Meeting (so as to remain current). R. Footit moved and C. Vincent seconded that the above request be approved. **Carried. Action: L. Braun.**

##### 9.2.18.1 Marketing strategy for *The Canadian Entomologist*

The Executive directed the Marketing Committee to develop a marketing strategy for *The Canadian Entomologist*. **Action: L. Braun.**

#### 9.2.19 Annual Meeting Committee

Report received. No actions required by the Executive Council.

##### 9.2.19.1 Discount for members to attend annual meeting

P. de Groot is working with the ESBC to establish a differential fee structure for registration at the 2003 Annual Meeting. A differential fee structure is already in place for the 2002 meeting.

#### 9.2.20 Affiliated Entomological Societies

Reports were received from all regional societies except the ESS.

C. Vincent will clarify the issue of copyright for a collection of slides that the Entomological Society of Saskatchewan is willing to donate to the ESC. **Action: C. Vincent.**

The ESO wishes that the \$637.00 in proceeds from the Niagara meetings be directed to public education. **Action: G. Gibson.**

#### 9.3 Other Business

##### 9.3.1 Report of AIBS Representative

Report received. No action required.

#### **Date and place of next meeting**

The next meeting of the Governing Board will be held at the Delta Winnipeg on October 5, 2002.

#### Adjournment of meeting:

The meeting was adjourned at 1425h (moved by R. Footit seconded by C. Vincent)

## **News and Announcements**

### **Mariposa Azul (Le papillon bleu)**

En 1990, lors de l'inauguration de l'**Insectarium de Montréal**, David, un garçon gravement affligé d'un cancer au cerveau et qui était en chaise roulante, n'avait pas été invité à la conférence de presse, mais est allé voir Georges Brossard pour lui dire son rêve: «attraper un papillon bleu». Grâce à l'organisme Enfants de Rêves, David et sa mère se sont envolés au Mexique avec Georges Brossard pour capturer le Mariposa Azul, qui, selon la croyance, porte sur ses ailes un rêve que l'on lui a confié.

Cette histoire vraie est présentement tournée au Costa Rica et sera à l'affiche au Canada en 2003.

Francine Allaire: productrice chez Galafilm. Léa Pool, réalisatrice  
Comédiens: Pascale Buisnières, William Hurt et Marc Donato

D'après un article de Judith Lachapelle publié en p. C1-2 du journal La Presse, samedi 13 avril 2002.

### **Mariposa Azul (The blue butterfly)**

In 1990, during a press conference for the opening of the **Insectarium de Montréal**, David, a boy severely afflicted by a brain cancer and restricted to a wheelchair, had not been invited to the event. However, he told his dream to Georges Brossard: "to catch a blue butterfly". Thanks to "Enfants de rêves", David, his mother and Georges Brossard flew to Mexico to catch a Mariposa Azul, which, it is believed, bore on its wings a dream confided to him.

This true story is presently filmed in Costa Rica will be screened in Canada in 2003.

Francine Allaire: producer at Galafilm. Léa Pool, art director  
Actor: Pascale Buisnières, William Hurt et Marc Donato

After an article by Judith Lachapelle published in the newspaper La Presse, Saturday 13 April 2002 (p. C1-2).

Submitted by Charles Vincent



**An Alphabetical Listing of Student Members** (with contact information and descriptions of research interests) is now posted at our web site (<http://esc-sec.org/gradstud.htm>).

Contact: Jade Savage

**HOSTS** - a database of the hostplants of the world's Lepidoptera

By Gaden S. Robinson, Phillip R. Ackery, Ian J. Kitching, George W. Beccaloni and Luis M. Hernández; Department of Entomology, The Natural History Museum, Cromwell Road, LONDON SW7 5BD

Contact; [gsr@nhm.ac.uk](mailto:gsr@nhm.ac.uk)

<http://www.nhm.ac.uk/entomology/hostplants/>

(cited in Science vol. 296, No 5568, 26 April 2002, p. 623)

For a list of insect newsgroups and discussion lists, kindly compiled by BIOSIS, see:

[http://www.biosis.org/zrdocs/zoolinfo/ins\\_disc.htm](http://www.biosis.org/zrdocs/zoolinfo/ins_disc.htm)

**The International Society for Pest Information** has now published the second issue of its 'Pest Directory' database. The database is available as CD for installation on a PC (about 80 megabytes of disk space and Windows 95 or higher are needed). For more information see the website <http://pestinfo.org/pestdir.htm>.

Submitted by Bernhard Zelazny

International Society for Pest Information (ISPI)

Eulerweg 3

D-64347 Griesheim, Germany

e-mail: [ispi@pestinfo.org](mailto:ispi@pestinfo.org)

internet: <http://www.pestinfo.org>

tel: 0049 6155 88 06 82

### **IPMnet: Integrated Pest Management Network**

IPMnet is a free, non-commercial, internet-based IPM and crop pest management global information resource in its 9th year. "Its free monthly electronic newsletter (IPMnet NEWS) is seen by nearly 5,000 of your colleagues, peers, and contemporaries in 128 countries who are interested in staying current on this increasingly important topic."

To subscribe or to obtain more information contact [IPMnet@bcc.orst.edu](mailto:IPMnet@bcc.orst.edu)

A grasshopper nymph made the cover of the annual environment issue (May/June) of **The Canadian Geographic**. The title on the cover says "Peril of the prairie? A green crusader befriends the West's most feared pest." The magazine developed a website on related topics. To see their educational material on this insect go to [www.canadiangeographic.ca](http://www.canadiangeographic.ca) and click "Et cetera" and then "a grand look at grasshoppers."

**The 50th anniversary meeting of the Entomological Society of Alberta** will be held October 24-26, 2002 at Lethbridge. A Heritage Symposium is being planned and submissions for presented scientific papers or posters are welcomed. The details of the meeting and first call for papers can be seen on the website: <http://www.biology.ualberta.ca/courses.hp/esa/esa.htm>  
For further information contact: Dr. Hector Carcamo (ESA President, 2002), AAFC, Lethbridge Research Centre, P.O. Box 3000, Lethbridge, AB, T1J 4B1, Tel: (403) 317-2247, email: [carcamo@em.agr.ca](mailto:carcamo@em.agr.ca)

**The Biological Survey of Canada** has moved the BSC web site to a different directory on the U of A server. The new BSC home page is: <http://www.biology.ualberta.ca/bsc/bschome.htm>.

Contact: Susan Goods  
Biological Survey of Canada  
(Terrestrial Arthropods)  
Canadian Museum of Nature  
P.O. Box 3443, Station "D"  
Ottawa, ON K1P 6P4  
tel. 613-566-4250 fax. 613-364-4022  
email: [sgoods@mus-nature.ca](mailto:sgoods@mus-nature.ca)

**The Biological Survey of Canada's "Annotated List of Workers on Systematics and Faunistics of Canadian Insects and Certain Related Groups"** has been published from time to time in paper format. This information is now available in the form of a searchable database on the Survey's website. Although the database is updated whenever new information is received, many of the entries have not been revised since 1996. We therefore invite you to look at your entry on our website and let us know what needs to be changed.

An online form is available to submit updates.

The introduction to the list is at:

<http://www.biology.ualberta.ca/bsc/english/listofworkers.htm>

**The ESC insect photographs project** (on the WEB): The Entomological Society of Canada is preparing a collection of photographs of insects to be offered free of charge to the public through its web site. Insect photographs (as JPEG files, preferably 300 dpi, 1200x1800 pixels, or 4x6 inches) are requested. Send images to Charles Vincent, [vincentch@em.agr.ca](mailto:vincentch@em.agr.ca). Please provide the name of the insect and the name of the photographer, so that we could post these information. It is understood that the photographs are copyright-free and will be made available without obligation from the ESC.

**Le projet de collection de photos d'insectes** (sur le WEB) de la SEC: La Société d'entomologie du Canada prépare une collection de photographies d'insectes qui seront offertes gratuitement au public à partir de son site WEB. Veuillez les faire parvenir vos photos d'insectes par courriel (préférentiellement en fichiers JPEG, 300 dpi, 1200x1800 pixels, ou 4x6 po) à: Vincentch@em.agr.ca. Veuillez mentionner le nom de l'insecte et du photographe, pour que l'on puisse afficher ces informations. Il est entendu que les photographies son exemptes de Copyright et qu'elles seront disponibles au grand public sans obligations de la SEC.

**FAO IPM information:**

[www.fao.org/globalipmfacility](http://www.fao.org/globalipmfacility)

**FAO E-list:** Global IPM Facility, FAO Plant Protection Service

To subscribe or unsubscribe contact E. Tagliati, [elisabeta.tagliati@fao.org](mailto:elisabeta.tagliati@fao.org)

**DIVERSITAS - International Biodiversity Observation Year (IBOY)**

The May/June 2002 can be downloaded from

<http://www.nrel.colostate.edu/projects/iboy/news/newsletter.html>

The IBOY newsletter contains information on current biodiversity research activities and products of IBOY Projects and the IBOY Secretariat, including publications, international meetings, research expeditions, awards and collaborative opportunities.

Contact: Gina Adams

Tel: (+1) 970 491 3552; Fax: (+1) 970 491 3945; Email:

[gadams@nrel.colostate.edu](mailto:gadams@nrel.colostate.edu)

Special book price offer: **Biological Control Programmes In Canada**, Mason, P.G. and Huber, J.T. (eds.) 2001. CABI Publishing, Wallingford, UK, 608p. ISBN 0 85199 527 6  
£95.00 (US\$175.00)

CABI is offering members of the Entomological Society of Canada a 20% discount on this new book, available after February 1, 2002. A URL needed to order the book at a 20% discount can be obtained by ESC members by contacting the ESC Bulletin Editor, the ESC President, ESC Headquarters, or the Chair of the Publications Committee by e-mail.

**Dave Hardwick Memorial Fund:** The CanaColl Foundation has established a fund in memory of David F. Hardwick. As with the other funds established by the Foundation (W. J. Brown, G. P. Holland, G. E. Shewell, etc.), the money generated will be used to support the general principles of CanaColl. In the past, approximately \$25,000 has been received in memory of various people. For those of you who may not realize the value of the Canadian National Collection of Insects (CNCI) and associated arthropods, it is considered to be the best research collection in North



America and among the top 10 in the world. Nevertheless, there is still curating that needs to be done and this is where CanaColl comes in. Since 1972, CanaColl has issued a total of 281 grants; these amounted to \$211,472 and provided 570.2 person/weeks of research and curation on the CNCI. The time factor is roughly equivalent to 11 full years of work--no vacations! About 10% of the grants were for collecting, bringing collections to Ottawa, etc., therefore the person/weeks were not counted in the above figures. If you have any questions about CanaColl, I will be glad to try to answer them.

- Edward Becker (ec.becker@sympatico.ca)

### **Personalia**

(The following three news items were submitted by Lisa Spurlock, Public Affairs Coordinator, Entomological Society of America)

**Alan Cameron**, a long-time ESC member and professor for over 30 years at Pennsylvania State University, has been selected as the new editor-in-chief of *Environmental Entomology* (EE). In addition to teaching, he has conducted research in insect behavior, biological control, chemical ecology, ecology, and pest management. Cameron has authored over 150 entomological publications, and co-edited the text *Diagnosing Injury to Eastern Forest Trees*, which brought him a USDA Certificate of Appreciation in 1987. He received a second USDA certificate in 1994 for his contributions to gypsy moth research at the USDA's European Biological Control Laboratory in Montpellier, France.

**Todd E. Shelly**, a prominent US government entomologist, has been selected as the new editor-in-chief of *Annals of the Entomological Society of America* (ESA).

Shelly is an entomologist with the Hawaii Plant Protection Laboratory of USDAO's Animal and Plant Health Inspection Service in Waimanola. Shelly has been a co-editor of *Annals* since February 2000. Shelly has published approximately 80 research articles, mostly on insect behavior and community ecology. He has taught and conducted research at Pennsylvania State University, the University of California - Los Angeles, the University of Hawaii, and the University of Western Australia. He resided in Costa Rica (1996-99), where he served as the founding director of the undergraduate study abroad program of the Organization of Tropical Studies and Duke University.

**John T. Trumble**, a professor for over 20 years at the University of California-Riverside (UCR), has been selected as the new editor-in-chief of the *Journal of Economic Entomology* (JEE). The journal's publisher, the Entomological Society of America (ESA), has also implemented a new editorial structure and procedures.

Trumble held an associate editor position with the journal *BioControl* (1997-2001), and currently serves on the editorial board of *Annual Review of Entomology*. He also has published more than 220 peer-reviewed journal articles, reviews, book chapters, and other scientific publications. His research interests include the ecology of plants' defensive chemicals in reaction to insect pathogenic bacteria, pollutants, and environmental stress, with the applied goal of discovering ecologically, environmentally, and economically sound solutions to problems associated with broad-spectrum pesticides in commercial agriculture.

### **Recent deaths**

Submitted by Ed Becker (ec.becker@sympatico.ca)

#### **Recent death No. 35**

I received the following information from Valerie Elliott about her stepfather, Blair McGugan. Blair passed away peacefully on March 16th in his 79th year while wintering in Victoria, B.C. Survived by his loving wife Yvonne Elliott, his children Mark (and Sandra), Robert (and Robin), Ian (and Maria), stepdaughter Valerie (and Stephan), and stepsons John (and Barbara), and David, and seven grandchildren. Brother Evan of London, Ontario. A remembrance and celebration of his life will be held on Sunday, April 7th at 29 Windeyer Crescent, Kanata, Ontario, K2K 2P6 (Ottawa Home), from 1 pm to 4 pm. Bring memories and pictures. Internment will be in the family plot at Longwood, Cemetery, Melbourne, Ontario. Donations may be made to the charity of your choice. Blair was with Forest Entomology and spent much of his career in Ottawa.

#### **Recent death No. 36**

James Prebble, 6598 Dorack Dr., P. O. Box 232, Kars, ON, K0A 2E0, 613-489-3979, <jeprebble@aol.com> called me the evening of 13 April to say his father Malcolm had just died; he was 92. Malcolm had been in a retirement home for several years. Malcolm was predeceased by his wife Louise about five years ago.

Recent death notice No. 37 was in error, and corrected.

#### **Recent death No. 38**

Dora Posselwhite, age 95, passed away on 17 April 2002. She was predeceased by her first husband Robert Quinney and by her second husband Charles Posselwhite and there were no children from either marriage. She was formerly Bev Smallman's and then Ed LeRoux's secretary.

Recent death No. 39

Ron Stark, 520 South First Ave., Sandpoint, ID 83864-1206, U. S. A., died on 9 April 2002. Survived by his wife Laurie and two sons. About six years ago, Ron had a bout of cancer and after treatment it was thought to have been wiped out. Not too long ago, he developed a pain in his right shoulder and even after extensive tests and x-rays the doctor never found the source of the recurrence. Death was suddenly, but not unexpected. He and Laurie had a great time traveling all over the world except for Australia.

Recent death No. 40

Paul Riegert, 103 Mayfair Cres., Regina, SK, S4S 5T9, 306-584-1160, died 9 May 2002 at age 78. He is survived by his wife Betty and several children and grandchildren. Paul suffered a massive brain aneurysm on 23 April. At the time, Paul and Betty were in Saskatoon visiting their daughter. The doctor did not have much hope for recovery. Paul was well-known for his four booklets on the Entomologists of Manitoba, Saskatchewan, Alberta, and British Columbia. He has also been very interested in his family tree and had just completed writing his life history. He wrote another book, *From Arsenic to DDT: A History of Entomology in Western Canada*. Paul spent 24 years at the Dominion Entomological Laboratory, Saskatoon, and then in 1968 he joined the University of Regina. Paul has been active with the Entomological Society of Canada, particularly with the Heritage Committee.

Recent death No. 41

Bert Nesbitt, Col. By Retirement Residence, #302---43 Aylmer Ave., Ottawa, ON, 613-730-7979, died on 13 May 2002 at age 89. He is survived by his wife Bea Wickett and four children (by his first wife Betty) and many grandchildren. Bert joined the Dept. of Agriculture in 1939 and then went to Carleton University in 1946. He is best known as Carleton's Marshal of Convocation, a role he carried for 50 years.

Contact: Ed Becker



## Book Reviews

Dugatkin, Lee Alan (ed). 2001. **Model systems in behavioral ecology: Integrating conceptual, theoretical, and empirical approaches**. Princeton University Press, 551 pp., ISBN 0-691-00653-9, (paper) US\$35.00\$

Do not let the stern title of this book fool you, this book is great reading. The editor of the book, L. A. Dugatkin, organizes discussion of twenty-five model systems, ranging from insects to mammals, used in behavioral ecology. A model system is defined as a species or a group of closely related species in which detailed studies have been undertaken in order to answer fundamental questions. For each of these systems, the contributing authors were asked to explain how they integrated conceptual, theoretical and empirical approaches. The result is a book both enjoyable to read, because of the variety of animal systems examined, and very informative.

Combining the conceptual, theoretical and empirical approaches used in each model system is challenging. The difference between these three terms is sometimes blurred and there is still some conflict evident between "fundamental" and "applied" scientists. A conceptual perspective is defined as one driven primarily by a broad-based idea considered common to different disciplines or model systems, while a theoretical approach involves the generation of verbal or mathematical models to analyze the world. Empirical studies describe the "real world" and are valued as much for verifying hypotheses deduced by theory as for the new ideas they generate implicitly. These three approaches are not a linear gradation but rather a circle. You can enter the circle at any point, but if you are to progress in understanding behavioral ecology you need to travel the circumference of the circle.

In his preface, the editor states that one goal of this book is to guide graduate students in behavioral ecology. How to get research started, which system to choose, which concepts and theories are important, these questions are often pondered by graduate students at the beginning of their programs. This book proposes some answers, not necessarily easy, but at least indicative of current paths being explored. The different chapters reveal that to study behavioral ecology, one can either proceed by first mastering some general behavioral topics, such as optimal foraging theory, sex ratio theory or kin selection theory, and then look for an organism with which to test the hypotheses framed by these theories. Or one can do the reverse by first choosing an organism and then undertaking study of the various behavioral aspects of that species. Examples of both strategies are given in this book. Judging by the scientific success of the case studies, both strategies can be fruitful.

Some authors offer fascinating insights on why they chose a particular system for their research. For some it was a logical choice as a given animal system had the characteristics necessary to answer questions of interest. G. S. Wilkinson, for example, wanted to study the genetic consequences of sexual selection and has been working with *Drosophila*. In *Drosophila*, large males are more successful in mating with females but Wilkinson soon found out that this success was not due to female choice of large males but rather to the fact that large males outcompete small males. Wilkinson changed his model system and used *Diopsis* flies where female choice is observed. In this case a thorough understanding of both the theoretical background and the animal studied enabled this author to avoid wasting time with an

inappropriate model system. For other authors their choice of system originated with a fascination for a specific animal, often rooted in childhood. As G. W. Uetz states in his chapter on web-building spiders "My advice to students of behavioral ecology in search of a model system is to choose a species and a project that captures your scientific curiosity whether that curiosity is based in logic, skepticism or simply fascination".

The necessity of knowing the details of a model system is stressed in several of the chapters in answer to the question by T. D. Seeley: "How can it be professionally adaptive for a behavioral ecologist to give years of his or her life to the patient study of a given species?". The answers cited most often point to the advantages of a broad knowledge of an animal while interpreting its behavior and in the capacity to propose new hypothesis based on observation. None of the authors lack new ideas or hypotheses because they have worked on the same system for up to twenty-five years. In fact, several authors refer to the importance of observing globally the behavior of an animal and to deriving new ideas and hypothesis based on these observations; the "watching and wondering" approach of eminent behavioral ecologist, N. Tinbergen.

This book will be of interest to both behavioral ecologists and those interested in how scientific research proceeds. The variety of subjects and animals truly cover most of the modern aspects of behavioral ecology and some chapters are more than just a synthesis of the current knowledge. One can only regret that the book is so much centered on American science; twenty of the twenty-five chapters are from American authors. More diversity would have been welcomed especially in a book looking at the personal and cultural factors that brought individuals to study behavioral ecology.

Guy Boivin  
St Jean-sur-Richelieu

Chittka, L. and Thomson, J.D. (eds.) 2001. **Cognitive Ecology of Pollination**. Cambridge University Press, Cambridge, UK. xiii + 344 pp. ISBN 0 521 7895 7-5 (cloth) US \$90.

Plants create unique problems for themselves and their pollinators simply because they are immobile. As a result pollinators must employ special rules to efficiently exploit plants in a non-random manner. These visitation patterns can have important implications for plant reproductive success. Thus animal pollinated plants should be under selection to exploit pollinator visitation behavior and they apparently are.

There is nothing new in my introductory statements. What is new however is our understanding and appreciation of the complexities of pollinator foraging behavior. Just as we no longer view mosquitoes as flying syringes that randomly visit hosts it is no longer appropriate to view insect pollinators as flying pollen baskets. Moreover, a new era of pollination biology awaits those who study plant-pollinator interactions without a taxonomic bias. This is the message from *Cognitive Ecology of Pollination* by Chittka and Thomson.

Chittka and Thomson have produced an excellent compilation of 16 chapters all of which work from a central premise that pollinators, mostly insects but also birds and bats, may



express highly labile preferences for particular floral types. The book does not attempt a broad survey of all the issues associated with labile pollinator traits but rather particular subjects were chosen because "they stimulated us intellectually".

The first few chapters focus on cognition, memory and perception. They are very technical in nature. The most impressive aspect of these chapters is a demonstration of the difficulty of studying cognition and the need for sophisticated experimental designs (there is no such thing as a naïve animal) to tease apart all the interacting complexities.

From cognition per se, the book moves to a series of chapters on sensory modalities. From the entomological perspective there is little new here but the work is well organized with lots of good references. Weiss' chapter on non-social insect pollinators is particularly useful in that regard. In addition, she points to the potentially important problem of multitasking for non-social insects. When individuals visit flowers for different reasons e.g. food, mating and oviposition that can interfere with abilities to exploit plants for any one task due to presumed tradeoff in different search (or other task) modalities.

The third section of the book deals with interactions and is much more ecological in scope. Here there are two exciting chapters that challenge current dogma. First, Chittka *et al.* suggest that pollinators and their plants are not so tightly co-evolved as we might like to believe. The authors use flower color to explore a number of co-evolutionary issues. Two strengths of this chapter are examination of alternative hypotheses to explain contemporary patterns and a reminder that exclusivity is often not the rule (e.g. hummingbirds are not exclusive pollinators of red flowers). In another chapter Dukas challenges the notion that predation risk is insignificant in pollination systems. First, he shows that daily predation may be on the order of 1% or less. This looks like a low value but over the course of a lifetime can be biologically significant. Even more important this 1% rate represents death rates **after** behavioral adjustments have been made.

The final section of the book is very much from the plant perspective. Essentially, it tells botanists to take insect behavior more seriously. Two chapters stand out here. First, there is Smithson's contribution on frequency dependent selection (FDS) and pollinator behavior. This is an important issue because +ve FDS would tend to fix alleles and constrain floral evolution in animal-pollinated plants whereas -ve FDS would promote phenotypic diversity. Of course, pollinator learning and behavior adjustments could generate the form and strength of the FDS. This chapter goes a long way to demonstrating an important linkage between behavior and evolutionary processes. The final chapter of the book by Waser on plant speciation provides a very forceful argument for a better understanding of insect foraging ecology for the elucidation of plant speciation.

I liked this book. It is uniformly well written and well edited. The figures and tables are easy to decipher and headings and sub-headings efficiently and effectively used. Finally, I believe that the editors met their goal of bridging the gaps that seemingly exist between different traditions: zoology vs. botany, functional vs. causal biology, organismal vs. population level analysis.

Bernie Roitberg  
Burnaby, BC, Canada



Corbet, Philip S. 1999. **Dragonflies: Behavior and Ecology of Odonata**. Comstock Publishing Associates, Cornell University Press, Ithaca, NY, USA. xxxii + 829 pp. ISBN 0-8014-2592-1 (cloth). US \$115.00.

*Dragonflies: Behavior and Ecology of Odonata* is the culmination of Philip Corbet's long and illustrious career as the most prominent dragonfly biologist of the second half of the 20<sup>th</sup> Century. Corbet's work has been punctuated by important syntheses of dragonfly biology: *Dragonflies* (with Cynthia Longfield and Norman Moore -- 1960), *A Biology of Dragonflies* (1962), *Biology of Odonata* (published in *Annual Review of Entomology* -- 1980). While working in Canada with Agriculture Canada and at the University of Waterloo, Corbet completed Walker's *Odonata of Canada and Alaska* by writing the third volume (1975) of this important series. His new book describes and synthesizes the material in these earlier works and adds a wealth of information from the 1980s and 1990s, when dragonfly research intensified and burgeoned around the world.

The book must be described in superlatives. It is encyclopedic in its scope and splendid in its quality. Corbet's vast knowledge of the Odonata around the world, his ability to assess volumes of information critically, his cogent writing – all combine to make this the definitive reference on dragonfly behaviour and ecology. Much of dragonfly biology is omitted; the systematics, morphology and physiology of the Odonata are mentioned only when an explanatory context is required. Nevertheless, for years to come, the book will be a magnificent standard that should be emulated by any future treatment of an insect order.

As the title indicates, dragonflies as defined here include all the Order Odonata. These insects are ideal for behavioural and ecological study; they are large and easily observed and their varied and complex behaviour is readily analyzed. There is so much information available on dragonfly biology that these insects can often serve as useful models for the interpretation and understanding of the lives of other animals. Corbet successfully integrates the details of dragonfly biology into an evolutionary context. The striking diversity of species behaviour and ecological roles are stressed, but coherent patterns and their underlying biological principles are also described.

The chapters are logically organized around the life cycles of dragonflies. Each of the 12 chapters has a synopsis summarizing the main points discussed, and some important sections within chapters have their own overviews. An introduction briefly outlines the life histories, evolution, classification and diversity of the Odonata and details the book's approach to the order's ecology and behaviour. Topics treated include habitat selection and oviposition; the egg and prolarva (including diapause and parasitoids); the physical environment of the larva and its respiration, feeding behaviour and interactions with other organisms; growth, metamorphosis and emergence; the adult life, including foraging, spatial displacement, reproduction and the evolution of mating systems. The final chapter deals with dragonflies and people – attitudes, international research, habitat destruction and conservation.

*Dragonflies: Behavior and Ecology of Odonata* is exhaustive and impressive in its detail, but Corbet has not simply produced a comprehensive review of the literature. He has made some new and original contributions here. Especially useful are the classifications of larval morphology and behaviour, life cycles, flight types and mating systems.

Complementing the text is a wealth of other information -- 232 figures, 40 black and white photographs and 96 colour photographs. The colour photographs, inserted as a unit, visually summarize dragonfly biology, illustrating diversity, habitats, larval life, emergence, mating behaviour, oviposition, and so on.

One of the important features of the book is the astonishing compilation of 191 tables documenting vast amounts of experimental and observational data. It seems that few published accounts have been missed or ignored. And a significant amount of the material is not published elsewhere; the book is unique in its large number of personal communications concerning dragonfly biology. Corbet's worldwide network of researcher friends happily contributed unpublished information and observations to such a seminal book. The "Corbet Seminar" at various international meetings was one effective method of gathering new data for the work; Corbet would outline a topic and solicit answers to various questions, recording the conversations for potential use. I count these events among the most pleasurable parts of the meetings of the International Dragonfly Society over the years.

In all, there are more than 4000 references to original sources, making the volume an indispensable guide to the odonatological literature. Another 96 supplementary citations are included; these papers were published too late to be incorporated into the body of the text. In addition there is a useful glossary and indices organized by author, Odonata taxon and subject.

In my initial perusals of the book, I have found almost no errors. On page 180 *Cordulia aenea* is noted as a Holarctic species, whereas it is restricted to Eurasia. *Epithea sepia*, not *E. stella*, is reproductively isolated from other congeners in Florida by its crepuscular activity (p. 310).

Seldom does a book inspire awe. But Corbet's work, in its authority, thoroughness, analytical elegance and importance to the field it treats, certainly does. Along with the fascinating lives of the wonderful animals that it reveals, the book will be a huge stimulus to dragonfly research for decades.

Rob Cannings  
Royal B.C. Museum  
Victoria, B.C.



Waldbauer, Gilbert. 2000. **Millions of Monarchs, Bunches of Beetles: How Bugs Find Strength in Numbers**. Harvard University Press, Cambridge, MA, USA. 264 pp. ISBN: 0-674-00686-0 (paper) US16.95\$

Swarms of insects are most people's worst nightmare. Gilbert Waldbauer, Professor Emeritus at the University of Illinois, brings a lifetime of entomology and a practised pen in popular writing (*Insects Through the Seasons* and *The Birder's Bug Book*, both from Harvard University Press) to explain the fascinating world of insect aggregations. What is unique about *Millions of Monarchs, Bunches of Beetles* is that Waldbauer does not re-visit the much-popularized social insects nor does he investigate the reasons for damaging outbreaks of pests that dominate the economic literature. Instead, he describes and explains the natural history of familiar insect species that aggregate. We are introduced to the phenomenon of gregarious habits in overwintering monarch butterflies, hill-topping flies, and communal-feeding aphids and sawflies. Some pest species, such as locusts and bark beetles, are included here but it is more for what they illustrate in terms of group behaviour than in the devastation caused by their abundance. To further emphasize the general ecology of animal aggregations, Waldbauer includes examples from the worlds of spiders, horseshoe crabs, and musk oxen.

The science in *Millions of Monarchs, Bunches of Beetles* is as clear and accurate as one would expect from a renowned scientist but the presentation is simple and with the touch of humour that lets you know this author loves his bugs. The alliteration in the title continues through the chapter titles ("Teams of Tent Caterpillars", "Myriads of Mayflies"). Each chapter is introduced by an attractive halftone. Waldbauer then chronicles the theme of the chapter either through his own personal experience or by his interpretation of what other scientists have described, always communicating the joy of discovery. Early in the book there is a somewhat tentative suggestion that group selection may be the basis for the evolution of gregarious behavior but this is not pursued as the author provides conventional, adaptive interpretations of phenomena. We learn how group behavior reduces the risk of predation for individuals, modifies the thermal environment, or maximizes the likelihood of coinciding with a necessary resource, especially your mate. Waldbauer broadens the discussion beyond the species to explore the relationship between aggregation and general evolutionary phenomena such as mimicry.

As an insect ecologist, I would have preferred a little more technical treatment of the subject, even if simplified for popular consumption. After all, the sort of non-professional who would read a book about insects in the first place could probably handle it. As if to anticipate that complaint, Waldbauer provides at the end of the book, a list of selected readings organized by chapter. Many of these are from the primary literature and should satisfy the scientist's need to be convinced by figures and graphs. There is also a very complete subject index, somewhat surprising in a popular treatment but welcome nonetheless.

*Millions of Monarchs, Bunches of Beetles* is a very good book of natural history. Professionals should read it to remind themselves of the sense of wonder that has inspired their careers. Then pass it on to a non-professional friend so they can begin to understand why grown people can spend their lifetime studying insects.

Vince Nealis  
Victoria, BC



## **Instructions for Reviewers**

(Submitted by the Chair of the Publications Committee)

Book reviews are solicited by the Chair of the Publications Committee of the Entomological Society and are published in either English or French in the *Bulletin of the Entomological Society of Canada*. Reviews should be approximately 600 words in length and submitted in electronic format to either the Chair of the Publication Committee or the Editor of the *Bulletin* for a final edit. We ask that reviews be submitted within 3 months of receiving the book. Reviewers may retain the book for their effort.

Each review will contain the full citation for the book including author(s), title, publisher, year and location of publication, number of pages, and availability in either cloth or paper. The ISBN and cost for both cloth and/or paper editions should be included in Canadian \$\$ if available from the publisher, or in the currency quoted by the publisher. Examples of recent reviews can be found in the *Bulletin of the Entomological Society of Canada* 33: 56-58 (2001). An example of the suggested format for the title header is:

Hochberg, M.E. and Ives, A.R. (eds.) 2000. **Parasitoid Population Biology**. Princeton University Press, Princeton, USA. xiv + 366 pp. ISBN 0-691-04981-5 (cloth) US75.00\$, ISBN 0-691-04982-3 (paper) US24.25\$.

At the end of each year, copies of the *Bulletin* containing reviews will be sent to the appropriate publishers both as a courtesy and to encourage future requests for reviews.

## **News of Organizations and Meetings**

### **Introducing The Alberta Lepidopterists' Guild**

On October 16, 1999 the Alberta Lepidopterists' Guild (ALG) was formally inaugurated at Olds College, Alberta. The founding group of 16 people comprised a mixture of amateur and professional entomologists with a particular interest in Lepidoptera, or at least with a willingness to encourage and support those of us who do. The stated objectives of the new society are to support and encourage the study and appreciation of Alberta Lepidoptera. We also thought that belonging to an official organization would facilitate obtaining collecting permits for provincial parks and other protected areas, and wider access to funding for group projects.

Since that time the group has almost tripled in size. Most active members of ALG are interested mainly in particular groups of the Alberta moth fauna, which have received less attention than the butterflies since Ken Bowman stopped collecting some 50 years ago. New technology, such as mini-generators, low-cost UV and MV bulbs, flatbed scanners and the Internet, has contributed to the resurgence of interest in the moth fauna by making it much easier to obtain and identify specimens. It should be noted, however, that the author of "Butterflies of Alberta" and the five co-authors of "Alberta Butterflies" are all members of ALG as well.

Another event that contributed to our growth was the return of Felix Sperling to the University of Alberta, where among other duties he took on the position of Curator of the Strickland Museum of Entomology. The historical Bowman Lepidoptera collection was soon re-energized into a growing, working collection once again. In conjunction with the museum, a Virtual Museum Project was initiated. Funding was obtained to have the macro-lepidoptera in the collection databased and posted, and to help produce species pages with color images, information on range, host plant and other data, as well as dot-maps that are generated and updated from the database. This is an ongoing project, but already pages for some 200 species of Alberta macro-moths have been completed (<http://www.biology.ualberta.ca/uasm/uasm.html>). The Strickland Museum has also provided us with space for an ALG Web-page on the Museum's Website (<http://www.biology.ualberta.ca/uasm/alb.lep.guild.htm>). Although rudimentary at this time, we have plans to make it a more useful place to visit in the near future. Two other significant and active collections of Alberta Lepidoptera are housed at the Canadian Forest Service's Northern Forestry Center in Edmonton, and at Old's College in Olds; ALG members curate both. Many members also maintain significant private collections.

Since our establishment group members have been involved in a number of Lepidoptera-related projects. Alberta provincial government personnel (several of whom are members of the group) have been very co-operative in providing permission to collect in provincial parks and other protected areas in return for information on the Lepidoptera fauna found there. This co-operation has culminated in members of ALG being invited to join in faunal surveys of a number of newly established Wilderness Parks in extreme northern Alberta in both 2000 and 2001 (and planned for 2002-2004). All costs are covered, and funding is provided to ALG to

prepare reports of the Lepidoptera taken during these surveys. Members of the group have also been invited to give talks or put on "Moth Nights," complete with sheets and lights, for a number of Natural History and Conservation groups. ALG Members have also been active in participating in or organizing many of the record number of butterfly counts that are done in Alberta each season. But perhaps most importantly we have done a lot of collecting in the hitherto largely ignored areas of the province, including the Grasslands and Boreal Forest regions.

The most ambitious project in our short history is planned for the summer of 2003, when we will be hosting the Annual Meeting of the Lepidopterists' Society at Olds College. This location is close to both the mountains and the arid grasslands, and is an ideal location for a wide variety of Lepidoptera. On behalf of the Alberta Lepidopterists' Guild I would like to invite you all to join us in Olds, Alberta in July of 2003.

If you would like more information about the group, or are interested in joining (a bargain \$10.00 Canadian for an annual membership), contact the Treasurer, Greg Pohl, at [gpohl@nrcan.gc.ca](mailto:gpohl@nrcan.gc.ca).

Gary Anweiler, Alberta Lepidopterists' Guild  
Edmonton, Alberta, T6A 0V1  
[gganweiler@sprint.ca](mailto:gganweiler@sprint.ca).

**The 5th International Conference of Hymenopterists, Beijing, July 22-26, 2002.**

Submitted by: Chao-dong ZHU, Ph. D.,  
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**5ième Conférence Internationale Francophone d'Entomologie (CIFE 2002)** qui se tiendra du 14 au 18 juillet 2002 à l'Université du Québec à Montréal. Le thème de cette conférence sera "La recherche de pointe en entomologie". Informations : <http://www.seq.qc.ca/> puis suivez le lien CIFE 2002.

The 5th 'Conférence Internationale Francophone d'Entomologie' will be held at Université du Québec à Montréal, 14th to 18th July 2002. The theme will be "Advanced research in entomology." All information available online at: <http://www.seq.qc.ca/> then follow the link CIFE 2002.

M. Claude Godin, Entomologiste,  
CRDH-Agriculture et Agroalimentaire Canada  
[godinc@em.agr.ca](mailto:godinc@em.agr.ca)



## **II International Congress of Coleopterology**

Prague, Czech Republic, Sept 14 - 21, 2003,

European Association of Coleopterology, Czech Entomological Society and  
Forestry and Game Management Research Institute Jiloviste

Announcement of the Congress, Online Registration and Registration Form:

<http://www.coleocongress2003.cz/>

Milos Knizek, Secretary of the Congress

Forestry and Game Management Research Institute

Jiloviste - Strnady

Praha 5 - Zbraslav

CZ - 156 04, Czech Republic

Tel: +420-2-57921643 Fax: +420-2-57920648 or 57921444

email: [knizek@vulhm.cz](mailto:knizek@vulhm.cz)

## **ICOPA X: The 10th International Congress of Parasitology, "Parasitology in a New World".**

August 4-9, 2002, Vancouver Convention and Exhibition Centre, Vancouver, B.C. The call for

abstracts and registration is now ONLINE at: [www.venuewest.com/ICOPA](http://www.venuewest.com/ICOPA). Deadline for

abstract submission is March 1, 2002. Contact: The ICOPA X Secretariat, c/o Venue West

Conference Services, Ltd., #645 375 Water Street, Vancouver, BC, Canada V6B 5C6

Tel: (604) 681-5226 / Fax: (604) 681-2503

e-mail: [congress@venuewest.com](mailto:congress@venuewest.com)

## **The XV<sup>th</sup> International Plant Protection Congress, Beijing, China, July 6-11, 2003.**

Sponsored by The International Association for the Plant Protection Sciences, and Organised by  
China Society of Plant Protection.

For further information, contact: Ms. WEN Liping,

Secretariat, 15th IPPC, c/o Institute of Plant Protection,

Chinese Academy of Agricultural Sciences, Beijing 100094 China,

Tel: 0086 10 62815913

Fax: 0086 10 62815913

e-mail: [ippc2003@ipmchina.net](mailto:ippc2003@ipmchina.net)

<http://www.ipmchina.net/ippc/ippcwelcome.html>

A Powerpoint description of the venue and meeting is available at:

<http://res2.agr.ca/lethbridge/scitech/dlj/johnsond.htm>

Search for beijing2003.ppt

**The 5<sup>th</sup> International Congress of Dipterology**, Brisbane, Australia, will be held Sept 29 to  
Oct 5, 2002. More information can be found at the meeting website:

<http://www.uq.edu.au/entomology/dipterol/diptconf.html>

**The 8<sup>th</sup> International Working Conference on Stored Product Protection** will be held in  
York, UK, July 22-26, 2002. Details about the conference are available at:

<http://www.icscs.co.uk/iwcspp2002/>

The **62<sup>nd</sup> Annual Meeting of the Acadian Entomological Society** will be held in Machias, Maine on July 21-23, 2002. The meeting will be held jointly with the Maine Entomological Society. The call for papers and registration information will be circulated at a later date. Address all inquiries to Andrei Alyokhin ([andrei.alyokhin@umit.maine.edu](mailto:andrei.alyokhin@umit.maine.edu)) and Steve Woods ([woods@maine.edu](mailto:woods@maine.edu)).

#### Chalcidoidea CD (2nd Edition)

The second (first revised) edition of the World Chalcidoidea (Insecta, Hymenoptera) Database on CD is now available. It can be obtained directly from Dicky Yu (E-mail:

[DickyS\\_Yu@telus.net](mailto:DickyS_Yu@telus.net). Or contact: Dicky S. Yu, P.O.Box 48205, Bentall Centre, Vancouver, B.C., V7X 1N8, Canada. See at the website at [www.taxapad.com](http://www.taxapad.com).

#### Price:

First purchase, \$190. Upgrade on proof of purchase, \$95, plus postage and handling.

The CD contains information on all aspects of the taxonomy, biology and distribution of more than 26,000 taxa of Chalcidoidea published up to April 2001 and includes many corrections of errors that were present in the first edition. It contains information equivalent to more than 20,000 printed pages. There are also more than 300 images of living chalcidoids (for those that are interested in images of living invertebrates). Dicky has included many new features such as a distribution map facility and an improved capability for host searches so that it is now possible to search for hosts of parasitoids at any taxonomic level (family, subfamily, genus, species). It comes highly recommended, from several sources.

As with the previous version, the CD should work on any Windows platform, including Windows 95, Windows 2000 and NT.

Notice submitted by John Noyes

The Natural History Museum, Cromwell Road, South Kensington, London, SW7 5BD, UK

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