

Bulletin

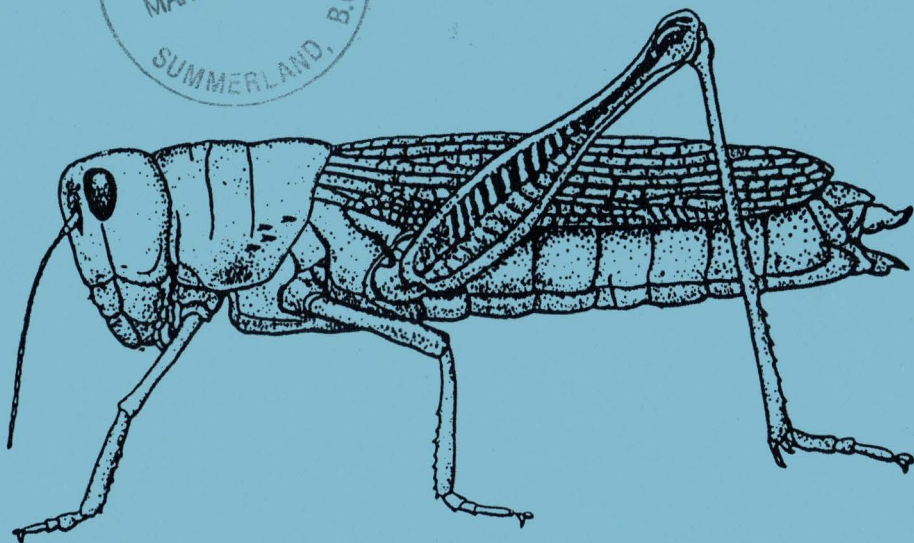
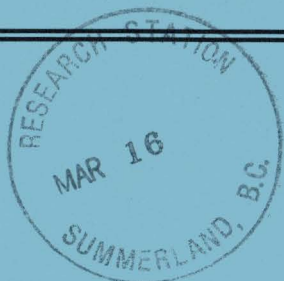
Entomological Society
of Canada

Société d'Entomologie
du Canada

Volume 29

No. 4

Dec/dec 1997



Entomological Society of Canada
Société d'Entomologie du Canada

393 Winston Avenue, Ottawa,
Ontario, Canada K2A 1Y8

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Web Page for the ESC: <http://www.biology.ualberta.ca/esc.hp/homepage.htm>
E-mail: 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 a female *Melanoplus bivittatus* (Say) (Orthoptera: Acrididae). The two-striped grasshopper occurs widely in North America. It prefers locations that are relatively moist. It is polyphagous and feeds on many kinds of plants, but prefers forbs. This grasshopper is a major crop pest causing great damage to small grains, alfalfa, and corn. [Drawing courtesy of R.E. Pfadt, Laramie, Wyoming.] La page couverture illustre la femelle adulte de *Melanoplus bivittatus* (Say) (Orthoptera: Acrididae). Le criquet birayé est très répandu en Amérique du Nord. On le retrouve surtout dans les endroits relativement humides. C'est un polyphage qui se nourrit de plusieurs sortes de plantes mais montre une préférence pour les herbacées. Ce criquet est un important ravageur des petits grains, de la luzerne et du maïs. [Le dessin est une gracieuseté de R. E. Pfadt, Laramie, Wyoming].

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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 de 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

The mid-term meeting of the Executive Council will be held at the Entomological Society of Canada office in Ottawa on **April 18, 1998**. Matters for consideration at this meeting should be sent to the secretary at the address below.

La réunion de mi-session du Conseil Exécutif aura lieu au Siège social de la Société d'entomologie du Canada le **18 avril, 1998**. 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. Peggy Dixon
Atlantic Cool Climate Crop Research Centre
P.O. Box 39088, St. John's
Newfoundland A1E 5Y7
Tel: 709-772-4763; Fax: 709-772-6064
E-mail: dixonpl@em.agr.ca

Call for Nominations - Second Vice President & Director-at-Large

Nominations for Second Vice President and Director-at-Large must be signed by three members in good standing and received by **30 April 1998** by the Secretary, Dr. Peggy Dixon

Nominations pour Deuxième Vice-Président et Directeur doivent être signées par trois membres de la Société et envoyées avant le **30 avril 1998** au secrétaire, Dr. Peggy Dixon.

The Canadian Entomologist and the Memoirs are available from the Ottawa office and may be purchased by Mastercard or VISA as well as by cheque or money order.

All regular and student members will have received their 1998 renewal forms by now and are urged to pay promptly, especially if ordering either of the Annual Reviews offered at discount prices. All in Canada are reminded to add the GST or HST applicable to all amounts.

Please send all correspondence concerning
the Bulletin to:

Dr. Hugh J. Barclay
Bulletin Editor
Pacific Forestry Centre
506 West Burnside Road
Victoria, B.C.
V8Z 1M5
Tel: (250) 363-0736
Fax: (250) 363-0775
E-mail: hbarclay@pfc.forestry.ca

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

Dr. Sheila Fitzpatrick
Chair, Publications Committee
Pacific Agri-Food Research Centre
6947 #7 Hwy, P.O. Box 1000
Agassiz, B.C.
V0M 1A0
Tel: (604) 796-2221 x 208
Fax: (604) 796-0359
E-mail: fitzpatrick@s@em.agr.ca

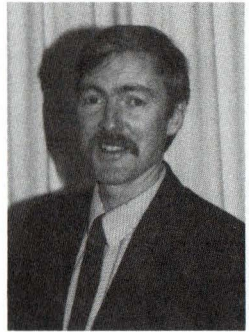
The deadline for submissions to be included in the next issue (Vol. 30(1)) is **February 1, 1998**

La date limite pour recevoir vos contributions pour le prochain numéro (Vol. 30(1)) est le **1 février 1998**

ESC President's Report

I would like to take this opportunity to briefly summarise some of the events and activities of this past year, and to comment on some of the issues dealt with at Saturday's board meeting. I won't take up too much of your time discussing the activities of our committees and trustees because, as usual, full reports will appear in the *Bulletin*. This has, however been an eventful year and some of those events warrant some comment at this time.

As everybody is aware, our Society has taken some significant steps towards implementing the recommendations stemming from last year's strategic review. The new committees being struck by Hugh Danks at this time are markedly different from those of the past, and represent a useful streamlining of our activities. Some committees, such as the Endangered Species, Fellowship, Annual Meeting, Science Policy, Scholarship, Public Education, and Graduate Research Travel Grants committees have been combined or discontinued, and other committees, such as the Finance and Insect Common Names committees have been reduced in size. The Board itself is being reduced, with only 3 directors at large rather than 6, and many improvements have been made to board and committee operations. The important responsibilities of the discontinued committees have been spread over new or redefined committees including the Student Awards Committee, Nominating Committee, and the Science Policy and Education Committee. Our past president Guy Boivin pointed out last year that over 100 members, which is close to 20% of our membership, served either on committees, as trustees, or on the governing board. We have cut this down a bit, but there is still plenty of opportunity for willing and enthusiastic members to take their turn at the work of keeping the ESC the superb Society it is and has been for many years. Actually, one of the things that makes the ESC such a great Society is that very willingness and enthusiasm which characterises so many of our members.



President Steve Marshall

Our trustees, filling the very demanding roles of Secretary, Treasurer and Scientific Editors, and *Bulletin* Editor, epitomise that willingness and enthusiasm, and they deserve special credit and thanks for their dedication to the society. On that note I would like to thank our secretary, Peggy Dixon, for her outstanding efforts, and to announce that she will be stepping down in 1998. Peggy is doing an enormous job for the Society, and we will soon be looking for candidates to fill this extremely important position. Our Scientific Editor (*The Canadian Entomologist*) is also retiring, and I would like to thank Peter Kevan for filling that demanding position over the past four years, and to welcome Jean Turgeon as our new scientific editor starting at the end of this year. Our Scientific Editor (*Memoirs of the Entomological Society of Canada*) is also finishing up her term this year, but will not be replaced because we are suspending publication of the *Memoirs* as of this year. I would like to thank Valerie Behan-Pelletier for her hard work as *Memoirs* editor. *Memoir* Volume 171 (*"Microbial Control of Grasshoppers and Locusts"*, edited by Mark Goettel and Dan Johnson) is in press, and represents the end of a long and distinguished series. I fear that the demise of the *Memoirs*, which was probably best known for the many important monographs in insect that came out in that series, is symptomatic of a general decline in our systematics infrastructure in Canada. I hope my fears are unfounded, and appreciate the fact that the ESC has been very active in drawing attention to Canada's diminishing capability in insect systematics.

This has certainly been a year of change and challenge for our society, and it has been particularly demanding for our treasurer, Gary Gibson, because many of the new directions we are taking following the Strategic Review have had financial implications. Perhaps the most important of those new directions has been towards a new set of procedures for publication of

our scientific journals, new procedures which have profound implications for our Society's finances. The ad hoc Publications Procedures Committee, struck at last year's meeting and chaired by Hugh Danks, investigated various alternatives to the employment of a full-time managing editor, something that was recognised as a very costly way to put out six issues of *The Canadian Entomologist* per year. Dr. Danks undertook a rigorous investigation of the various alternatives, including the solicitation of detailed submissions from a large number of alternative bidders. NRC press emerged as the best alternative, and contracting out our technical editing to NRC will entail substantial savings to the Society, will maintain the high quality of our Scientific Publications, and puts us in a good position to take advantage of advances in digital technology and electronic communication.

Speaking of electronic communication, have you seen our new WEB page? If not, you are strongly urged to do so, because it is an excellent page ... a real boon to the Society, and a credit to the WEB committee (chaired by Barry Lyons). Among other things, it includes hot keys taking you to history, meeting information, committee structure, publications, positions available, links to other organisations, and of course membership information. Promoting membership in the Entomological Society of Canada is important, especially since we are still in a period of declining membership. Jeff Stewart, past chair of our membership committee, has informed me that although student membership has remained steady at about 70, regular membership has declined from about 450 to about 400 over the past year. I firmly believe that every entomologist in the country should belong to the professional family that the ESC represents, so please do what you can to reverse this trend. The Society is certainly central to the entomological side of my life, so it has been a real honour to serve as President for this past year and I thank you for the opportunity.

Steve Marshall, President
Entomological Society of Canada

SEC Rapport du Président

Je voudrais profiter de l'opportunité qui m'est donnée pour résumer certains événements et activités de la dernière année et commenter certaines questions discutées lors de la réunion du conseil de samedi. Je ne discuterai pas trop longuement des activités de nos comités et fiduciaires, les rapports complets apparaîtront comme d'habitude dans le *Bulletin*. L'année passée a cependant été fertile en événements et plusieurs de ceux-ci méritent certains commentaires.

Comme vous êtes tous au courant, la Société a fait un grand pas vers l'implantation des recommandations du plan stratégique de l'année dernière. Les nouveaux comités instaurés par Hugh Danks sont radicalement différents des anciens, et représentent un changement favorable pour nos activités. Certains comités comme les Espèces Menacées, les Compagnons, la Réunion Annuelle, la Politique Scientifique, les Bourses d'Études, l'Éducation Publique et les Allocations de Voyage pour Étudiants Gradués ont été combinés ou supprimés et d'autres comme les Finances et les Noms Communs d'Insectes ont été restreints. Le conseil lui-même est réduit, avec seulement 3 directeurs régionaux au lieu de 6 précédemment, et plusieurs améliorations ont été faites pour faciliter le fonctionnement du conseil et des comités. Les responsabilités importantes des comités supprimés ont été réparties sur des comités nouveaux ou redéfinis, comme le Comité des Bourses aux Étudiants, le Comité des Nominations, le Comité de Politique Scientifique et le Comité de l'Éducation. Le président sortant de la Société, Guy Boivin, a signalé l'année dernière que plus de 100 membres, soit près de 20% du total de nos membres, sont impliqués dans un des comités et fiduciaires ou sont membres du conseil. Ce nombre a chuté quelque peu cette année, mais il reste abondamment d'opportunités pour un membre enthousiaste prêt à s'investir afin de maintenir cette admirable société qu'est la SEC. C'est cette volonté et l'enthousiasme qui caractérisent un grand nombre de nos membres qui rend la SEC si remarquable.

Nos fiduciaires remplissant les rôles de Secrétaire, Trésorier, Rédacteur Scientifique et Rédacteur du *Bulletin*, illustrent bien cette bonne volonté et cet enthousiasme, et méritent une mention spéciale et un grand merci pour leur dévouement à la Société. Continuant sur cette note, je voudrais remercier notre secrétaire Peggy Dixon pour ses efforts constants et annoncer son retrait pour l'année 1998. Peggy a accompli un travail énorme pour la Société et nous devons bientôt envisager la nomination d'un candidat pour combler ce poste extrêmement important. Le rédacteur scientifique (*The Canadian Entomologist*) se retire également et je voudrais remercier Peter Kevan pour avoir rempli cette tâche exigeante au cours des quatre dernières années. Par le fait même, je veux souhaiter la bienvenue à Jean Turgeon, qui remplira cette fonction à partir de la fin de la présente année. La rédactrice scientifique (*Mémoires de la Société d'Entomologie du Canada*) termine aussi son mandat, mais ne sera pas remplacée car nous suspendons la publication des *Mémoires* à partir de cette année. Je tiens donc à remercier Valérie Behan-Pelletier pour son travail acharné comme rédactrice des *Mémoires*. Le volume 171 des *Mémoires* (Microbial control of Grasshoppers and Locusts, édité par Mark Goettel et Dan Johnson) est sous presse et représente la fin d'une longue et fructueuse série. Je perçois la fin des *Mémoires*, bien connues pour la publication de séries de monographies sur les insectes, comme reflétant un déclin général des infrastructures en systématique au Canada. J'espère que mes craintes sont non-fondées, et j'apprécie le fait que la SEC ait été très active pour attirer l'attention sur la diminution des ressources en systématique des insectes.

Cette année fut sans aucun doute une année de transformations et de défis pour la Société, particulièrement pour notre trésorier Gary Gibson car le changement de direction engendré par le Plan Stratégique comporte de nombreuses implications financières. L'un des changements les plus importants est probablement la mise en application des nouvelles procédures de publication de nos journaux scientifiques, ces nouvelles procédures ayant de profondes répercussions sur les finances de la Société. Le nouveau Comité ad hoc des Procédures pour les Publications, inauguré lors du congrès de l'année dernière et présidé par Hugh Danks, a étudié plusieurs alternatives quant à l'emploi d'un rédacteur à temps plein, une situation qui s'avérerait très onéreuse pour publier les 6 numéros du *The Canadian Entomologist*. Dr. Danks a examiné de façon rigoureuse les différentes options, y compris plusieurs offres de nombreux soumissionnaires. NRC Press est apparu comme étant la meilleure alternative, et le contrat avec NRC nous permettra de réaliser des économies non-négligeables pour la Société, tout en maintenant la haute qualité de nos publications scientifiques et en permettant de prendre avantage de la technologie digitale et des communications électroniques.

Parlant de communications électroniques, avez-vous vu notre nouvelle page WWW? Je vous encourage fortement à y jeter un coup d'oeil car il s'agit d'une excellente page, qui constitue un réel atout pour la Société et un mérite pour notre Comité WWW (présidé par Barry Lyons). Entre autres, cette page inclue des sites clés sur l'histoire de la Société, les informations sur les réunions annuelles, les comités et représentants, les publications, les offres d'emploi, les liens d'entomologie et bien sûr des informations sur l'adhésion à la Société. Promouvoir l'adhésion à la Société d'Entomologie du Canada s'avère important, surtout en cette période de déclin d'adhésion. Jeff Stewart, le président sortant du comité d'Adhésion, m'informait que malgré le fait que le nombre de membres étudiants soit demeuré constant à environ 70, le nombre de membre réguliers a diminué de 450 à 400 durant la dernière année. Je crois fermement que chaque entomologiste au pays devrait faire parti de la famille professionnelle que représente la SEC, et j'encourage toute action pour modifier cette tendance à la baisse. La Société est indiscutablement importante en ce qui a trait au côté entomologique de ma vie, et ce fut un honneur pour moi de servir en tant que Président de celle-ci au cours de la dernière année et je vous remercie de cette opportunité.

Steve Marshall, Président
Société d'Entomologie du Canada

Call for Nominations - Fellows and Honorary Members

The Achievement Awards Committee invites the membership of the Entomological Society of Canada to nominate worthy candidates as Fellows or Honorary Members in the ESC.

Fellows: Fellows may be active or special members or entomologists who have made outstanding contribution to the advancement of entomology. This can be in any area, such as research, teaching, application, or administration, and may be judged on the basis of contribution to and stimulation of the work of others, as well as by direct personal effort. Nominations must be signed by four active members of the Society.

Honorary Members: An Honorary Member may be an active or a former active member of the Society who has made an outstanding contribution to the advancement of entomology. Nominations must be signed by five active members of the Society and are then reviewed by the Achievement Awards Committee. Names are submitted to the Executive Council for approval.

A brief biography of the candidate and a statement of her/his contribution to entomology should be included with all nominations. Nominations for both awards are reviewed by the Achievement Awards Committee and names are submitted to the Executive Council for approval. Nominations should be received by the Committee by **January 31, 1998**. They should be sent in an envelope marked "Confidential" to:

Linda A. Gilkeson
Ministry of Environment, Lands and Parks
PO Box 9342 Stn Prov Govt
Victoria, BC V8W 9M1

Student Affairs Committee Update

The ESC-ESA meeting in Edmonton was very rewarding. It was wonderful to meet new Student Members from other parts of the country and to see some familiar faces.

The 1997-1998 Student Affairs Committee (SAC) will be comprised of: Laura Hooper, Chair (McGill University); Troy Danyk (Simon Fraser University); Daniel Gingras (McGill University); and Paul Lomic (University of Toronto). David Barrett (University of New Brunswick) will act as an 'unofficial' contributor to the Committee.

This year the SAC plans to organize a bilingual version of the Linnaean Games at the ESC-SEQ meeting in Québec. Now is the time to get your teams together! Also, we hope to update the Directory of Entomological Education in Canada. If you know of colleges or universities that have courses with a significant entomology component and do not already appear in the Directory, let us know! You can have a look at the Directory on the ESC home page:

www.biology.ualberta.ca/esc.hp/homepage.htm If you have an issue that may be of interest to the SAC, please contact us. The e-mail of the SAC is: **esc-student@sfu.ca**

Laura Hooper, Chair

New Secretary in 1998

The Executive Council is soliciting names of persons willing to serve a minimum of three years as Secretary of the Entomological Society of Canada, beginning on or about January 31, 1998. The position requires attendance at Annual (Fall) and Executive Council (April) meetings

of the Society; access (and employer's permission if applicable) to use photocopying, phone, fax, computer and mail services; and proficiency in word processing. A working knowledge of both official languages is a desired attribute as is previous experience with the Society. Persons willing to submit their names for consideration for this position should send a statement of their qualifications by **January 23, 1998** to: **H.V. Danks, President ESC**

Nouveau Secrétaire pour 1998

Le Conseil Exécutif est à la recherche d'une personne intéressé à devenir secrétaire de la Société d'Entomologie du Canada pour un terme minimum de 3 ans, débutant à peu près le 31 janvier 1998. Le secrétaire de la Société doit assister à la réunion annuelle (automne) de la Société ainsi qu' à la réunion de l'exécutif (printemps). Le secrétaire doit également avoir accès, avec permission de l'employeur si c'est applicable, aux services de photocopie, téléphone, télécopie, ordinateur et courrier électronique et être capable d'utiliser un logiciel de traitement de texte. Une connaissance des deux langues officielles et une expérience du fonctionnement de la Société sont des atouts. Toute personne désireuse de soumettre sa candidature pour ce poste doit faire parvenir une lettre indiquant ses intentions et ses qualifications avant le **23 janvier 1998** à:
H.V. Danks, Président SEC

Change of Scientific Editor - Changement de Rédacteur Scientifique

The Canadian Entomologist

Dr. Jean Turgeon will assume the duties of Scientific Editor for *The Canadian Entomologist* on January 1, 1998. After that date NEW manuscripts should be sent to him at his address below.

Dr. Peter Kevan will continue to process submissions already under editorial consideration. Please continue to correspond with Dr. Kevan about submissions for which the first two digits of the manuscript number are 97 or less.



Hugh Danks and Peter Kevan,
Editor *Canadian Entomologist*

Le Dr Jean Turgeon prendra la relève comme Rédacteur scientifique de la revue *The Canadian Entomologist* dès le 1^{er} janvier 1998. Après cette date, nous vous prions de lui faire parvenir tout NOUVEAU manuscrit à l'adresse indiquée ci-dessous.

Le Dr Peter Kevan continuera à traiter toute soumission déjà sous considération. Nous vous prions donc de continuer à correspondre avec le Dr Kevan dans les cas de soumissions dont le numéro de manuscrit débute par 97 ou un nombre plus petit.

Jean Turgeon: **Tel:** (705) 759-5740 ext. 2082; **Fax:** (705) 759-5709
e-mail: editor.canent@nrcan.gc.ca

Please note that these Fax and E-mail addresses will be activated only on January 1, 1998. Veuillez noter que ce numéro de fax et cette adresse e-mail ne seront fonctionnels qu'à partir du 1^{er} janvier 1998.

Postal address/Adresse postale: Dr. Jean Turgeon, Editor/Rédacteur, *The Canadian Entomologist*, P.O. Box 490, Sault Ste. Marie, Ontario, Canada P6A 5M7

Courier address/Adresse par porteur: Dr. Jean Turgeon, Editor/Rédacteur, *The Canadian Entomologist*, 1219 Queen St. East, Sault Ste. Marie, Ontario, Canada P6A 2E5

Joint Annual Meeting of the Entomological Society of Quebec and the ESC

October 31-November 4, 1998, in Quebec City, at the Château Frontenac

"Today's Basic Research, Tomorrow's IPM" is the theme of the next ESC Annual Meeting, which will be held jointly with that of the ESQ. The theme will be discussed in three symposia addressing Chemical Ecology (J.N. McNeil, organizer), Evolutionary Biology (Y. Carrière, organizer) and Physiology (M. Cusson, organizer). Workshops will also be organized; some themes have already been proposed, but we invite you to submit additional ideas (J. Brodeur, coordinator).

Located in the heart of Old Quebec, the Château Frontenac is one of Quebec City's most precious jewels, with its panoramic view of the St. Lawrence River, its warm atmosphere, its fine cuisine and its proximity to the many restaurants, activities and boutiques that the city has to offer.

Updates regarding registration and paper submission will be published in upcoming issues if the *ESC Bulletin*.

For more information, please contact: Dr. Johanne Delisle, Chair of the organizing committee, or Dr. Michel Cusson (Scientific Committee) at the Laurentian Forestry Centre, Natural Resources Canada, Canadian Forest Service, P.O. Box 3800, Ste. Foy, QC, G1V 4C7.

Réunion annuelle conjointe des Sociétés d'entomologie du Québec et du Canada

31 octobre au 4 novembre 1998, Château Frontenac, Québec

La prochaine réunion annuelle de la Société d'entomologie du Canada sera tenue conjointement avec celle de la Société d'entomologie du Québec et se déroulera sous le thème "Recherche fondamentale d'aujourd'hui, Lutte intégrée de demain". Ce thème sera abordé dans trois symposia traitant d'écologie chimique (J.N. McNeil, organisateur), de biologie évolutive (Y. Carrière, organisateur) et de physiologie (M. Cusson, organisateur). Nous comptons également organiser des ateliers; quelques thèmes nous ont déjà été suggérés mais nous vous invitons à en proposer d'autres (J. Brodeur, coordonateur).

Situé au coeur du Vieux Québec, le Château Frontenac est un des joyaux du patrimoine de la capitale provinciale. Sa vue panoramique sur le Fleuve Saint-Laurent, son atmosphère chaleureuse, sa cuisine raffinée et sa proximité à plusieurs restaurants, activités et boutiques en font un site de villégiature très recherché.

Nous publierons des mises à jour concernant l'inscription à la réunion ainsi que la présentation de communications orales et d'affiches.

Pour de plus amples informations, veuillez contacter le Dr Johanne Delisle (Présidente du comité organisateur) ou le Dr Michel Cusson (Directeur du comité scientifique), au Centre de foresterie des Laurentides, Ressources Naturelles Canada, Service canadien des forêts, C.P. 3800, Sainte-Foy (QC), G1V 4C7.

E-mail/Courrier électronique: jdelisle@cfl.forestry.ca & cusson@cfl.forestry.ca

Fax/Télécopieur: (418) 648-5849; **Phone/Téléphone:** 648-2526 (J.D.), 648-3944 (M.C.).

Web sites: ESQ/SEQ: <http://ecoroute.uqcn.qc.ca/group/seq/seq3.htm>

Sites Web: ESC/SEC: <http://www.biology.ualberta.ca/esc.hp/homepagf.htm>

Report of the Elections Committee

Members of the Elections Committee for 1996-97 were Andrew Applejohn, Svenja Belaussoff and Jim Corrigan. 179 ballots were tabulated. The successful candidates were:

Second Vice-President

D. Johnson

Directors-at-Large

M. Goettel, V. Nealis

Proposal to Accept Dr. Dr. Douglas Eidt as an Honorary Member of the Society

Accepted Unanimously

Proposals to change the By-Laws of the Society:

By-Law IX (1), By-Law IX (2), By-Law XI (1), By-Law (5):

All Changes Accepted

Jim Corrigan

Report of the ESC-ESA 1997 Joint Annual Meeting Committee:

By all reports the meeting was a great success, with 257 participants, 3 plenary lectures, 28 invited papers in 4 symposia, 21 speakers in 4 workshops, 32 student papers, 51 submitted papers and 19 posters. Although pledges and contributions are still coming in, all our big bills have been paid and we are still well in the black. The meetings were well covered by the local media (Edmonton Journal, CBC, ITV, CFRN, etc.). I would like to thank members of the Organizing Committee, particularly Dave Langor, Local Arrangements Chair, student volunteers, personnel of the Crowne Plaza/Chateau Lacombe, and all those who attended for helping to make the meeting a scientifically productive and entertaining event.

Bruce Heming, Chair
ESC-ESA 1997

Treasurer's Report

The annual audit of finances by McCay, Duff & Company showed that Societal operating expenditures exceeded revenue by \$17,696 in 1996. This amount was partially offset by \$13,030 income from investments. As a result total assets of the Society decreased by \$4,666 in 1996, excluding income from sales of *Diseases and Pests of Vegetable Crops in Canada* (the 'book project'). This loss continued the downward trend that the Society has experienced in assets over the past several years, but was \$1,383 less than the projected deficit.

Two changes in operating procedures during 1997 will have significant effects on Societal finances and the approved 1997 budget: 1) publication of *The Canadian Entomologist* through the National Research Council of Canada Press as of the July/August issue, and 2) termination of the position of Managing Editor as of July 31. These changes substantially reduce cost of production of *The Canadian Entomologist* and therefore operating costs of the Society. However, expenses relating to termination of the Managing Editor position have not yet been finalized and it is not possible to determine net effects on the 1997/98 budgets. However, a net surplus in operations is forecast for 1998 because of the changes.

A substantial amount of investment bonds in both the General and Scholarship funds matured in 1995 and were reinvested at much lower interest rates current in 1996. Because of these lower rates, Scholarship investment income decreased to \$6,347 in 1996 from \$9,240 in 1995. It is estimated that Scholarship interest will be about \$6,500 in 1997. Consequently, inter-

est is now insufficient to cover the \$9,000 maximum allowable for scholarships and travel grants for any one year. This means yearly donations could be needed to cover expenses rather than being invested to increase future possible scholarships and grants. Members are encouraged to contribute to the Scholarship fund as part of their 1998 membership renewal or at any time during the year.

An audit by McCay, Duff & Company of the 'book project' from 1992 through December 31, 1996, revealed total revenues of \$181,691 and total expenditures of \$290,152. Inventory assets were set at \$153,541 based on an average cost price of \$50.54/book for 3,038 books. As a result, the audit projects a gross profit of \$45,080 for both Societies or \$22,540/Society when all books have been sold.

Gary Gibson, Treasurer
Ottawa, Ontario

ESC Finance Committee Report

Before the annual meeting, the Finance Committee examined and approved of the proposed budget for 1998 as present by the treasurer. From a financial standpoint, the change over to the National Research Council for publishing *The Canadian Entomologist* has progressed relatively smoothly.

Edward C. Becker

Annual Report of the Student Affairs Committee

The members of the Student Affairs Committee during the 1996-1997 session were: Troy Danyk, Chair (Simon Fraser University); Amanda Chau (Simon Fraser University); Laura Hooper (Memorial University of Newfoundland); Lloyd Jeffs (University of Saskatchewan); Paul Lomic (University of Toronto); Eric Lucas (Université Laval); Claude Godin acted as entomology survey advisor. I plan to resign as Chair of this Committee, and give another person a chance to serve the Society and its members. I thank present and past members of the Committee for their innovative ideas and insights that made the job as Chair much easier; it has been a pleasure to be associated with such a productive group as you-- thanks! I have recommended to President Steve Marshall that Laura Hooper be the next Chair of the SAC. Laura has served the Committee and the Society well during her time with the SAC and I am confident that she will make a fine Chair. The composition of the 1997-1998 Committee will include: Laura Hooper, Chair; Troy Danyk and Paul Lomic.

The SAC completed the first edition of the *Directory of Entomological Education in Canada* (le *Répertoire des formations en Entomologie au Canada*). Barry Lyons uploaded it onto the home page of the ESC, and added some internal links to improve navigation within the document. A link to the Directory was added to the entomology home page at the University of Colorado, and I registered the Directory with a number of internet search engines. An ESC member commented to a member of the SAC that the Directory is missing some schools. This is true. Department/Faculty Heads/Chairs (or prominent people at Colleges) were contacted on at least two occasions and invited to contribute a submission. Schools that did not respond could not be included in the Directory. To date, I have received an enquiry from one of the missing schools to add their submission. I hope to update the Directory in November 1997. After consulting with, and seeking approval from Steve Marshall, I shall maintain the Directory.

The SAC stopped collecting job vacancy and graduate study notices for (re-)publication

in the *Bulletin*. Given that the notices were being downloaded from the internet, and the widespread use of the internet for job/study search purposes, the publication of potentially outdated notices on paper did not seem warranted. Alternately, I provided a list of job/study-related URLs to *Bulletin* Editor, Hugh Barclay, for publication in the September issue of the *Bulletin*..

Recommendation to the Board:

The SAC would like the Board to direct either the Marketing Committee to solicit the corporate sector for funds to establish new scholarships that would be available to Student Members of the ESC. Rationale: The amount of scholarship funds awarded by universities and governments has declined, resulting in greater financial uncertainty and increased debt load among students. Scholarships sponsored by business, and awarded by the ESC, would be welcomed.

Troy Danyk, Chair

Report of the Scientific Editor - The Canadian Entomologist

Since I assumed the scientific editorship on 1 January, 1994 operations have continued to run fairly smoothly, even considering the major change in Technical Editing and Printing. So far since the end of September 1996 to date, I have processed over 111 manuscripts. The team of Associate Editors has done legion work in trying, and usually succeeding, in quick turn-around of manuscripts, review, and so on. Nevertheless, there have been some hiccups. In fact, it seems that there has been even greater difficulty in obtaining expeditious reviews this year than last. I suspect that reflects the continued trend in diminishing number of entomologists and the additional work that those of us who remain have now to do. Further, morale in many institutions remains rather low so incentive to assist others may have suffered. The upshot of the review process suggests a decline in the quality of manuscripts submitted, not from the viewpoint of the science included so much, but that is a factor contributing to the higher rate of rejection than in the past, but in the quality of presentation.

My policy on dating manuscripts remains as follows: Date of Receipt (obvious). Date of Acceptance is given for papers which require no change or minor revisions at the time I return the material to the author(s). For submissions requiring major revisions, Date of Acceptance is given at the time that the comments of reviewers have all been answered. Sometimes, I return such revised manuscripts to the Associate Editors for their call as to whether or not re-review is needed. Needless to say, submissions falling into the final category take a long time to move through the system. My absences, especially during the latter part of the summer, contributed to delays which became unavoidable as a result of the unexpected need to change my Assistant at that time.

The Table below presents a comparison of the categories into which papers have fallen during the years of my editorship versus including 1997, which is incomplete:

	1994	1995	1996	1997
Acceptance with minor revision:	46%	47%	16%	61%
Major Revisions needed:	42%	28%	64%	24%
Rejected:	14%	25%	20%	15%

The 1997 values are artificially high for the manuscripts with minor revisions needed because these are the ones that tend to get prompt attention from reviewers (n = 33 only).

Last year interest was expressed in the numbers of foreign and Canadian authors of submitted papers. The following is a run-down. Of 75 first or only authors, 76% are Canadian, 11% American (USA), and the rest (13%) from all over the world. Submissions from Latin America and North Africa are higher than usual this year.

All the Associate Editors are on e-mail and networking with them is facilitating the exchange of information, opinion, and news. This is working very well. The slate of Associate Editors has changed since I took office. The most recent change will come about from the recent retirement of Chris Sanders and Tara Sahota. We still also need another Associate Editor in the area of crop entomology. The appointment of Associate Editors by the Scientific Editor has made little difference in editorial operations.

From time to time, I engage the hourly help of an Assistant Editor. This year Kym Welstead and, more recently Terri Feltz have been a great help.

The changed format of the reviewers' forms, since 1994, continues to work well. A new form to accompany the final manuscript has been designed to accommodate the change in Technical Editing and the need for information to go both to NRC with respect to Technical Editing and to ESC-HQ with respect to billing etc.

The FORUM section is beginning to develop. We have had three papers in the FORUM published, and commentaries to the first FORUM paper are in press. I hope that this section will grow and stimulate exchange of ideas outside the rather tight constraints of the usual scientific paper.

The rough calculation of the cost of handling a manuscript from the Scientific Editor's office is \$15.00 per manuscript remains in effect. This includes all communications with authors, Associate Editors, and the Technical Editor. I can not keep track of the actual costs because of the amount of time and bookkeeping that would entail. The amount of \$15.00 per manuscript received by the University of Guelph seems to be about right and in line with the costs used by other journal editors in Canada.

The major, special, job completed over the past year was the preparation of the terms of reference for bids for the Technical Editing. With the help of Jan Lupson and Sandra Arthurs, I was able to provide a thorough set of terms of reference which the Society was able to use, with slight modifications, in seeking Technical Editing services outside the Society. This was required because of the excessive costs of maintaining our own, internal Technical Editor, Barbara Patterson, especially given the discontinuation of the *Memoirs* and modern means of word processing, technical editing, and type-setting. Although Ms. Patterson was an excellent Technical Editor, and her skills well appreciated by the Society over her years of service, her reluctance to embrace new technology, word processing, and desk-top publishing methods made it difficult to advance our efficiency and save money. Only in the last year or so was the Society able to insist on receiving disk copy of finally accepted manuscripts.

With the change to the National Research Council of Canada as providing the Technical Editing and Type-Setting services, the Society has been able to save a large amount of money and increase efficiency in handling manuscripts in their final journey to publication. The sort of change which has taken place, and which I advocated as necessary when I took over in January 1994, was long overdue. The change in procedures has affected a number of authors whose manuscripts were held back from Technical Editing for up to 3 months while "the system" changed. Letters of explanation were sent to them. The change has not seriously affected the timely appearance of *The Canadian Entomologist*, but some members may have noted that the last two issues

have been a little delayed. The July/August issue was distributed on 24 September. NRC will be notified to make sure that the front cover date reflects the actual date of issue in future. All in all, the change has not affected the duration from final manuscripts' submissions to actual date of appearing.

The first final manuscript has been submitted to NRC by electronic mail this month. We shall see how this experiment works before encouraging other authors to follow suit. NRC wishes to set the last line of Figure and Table Captions left justified rather than centered.

A point of business that the Board needs to consider, and one which I cautioned about before the change over is wording inside the front cover: "Publisher: NRC RESEARCH PRESS"

I believe that the Publisher of Record is THE ENTOMOLOGICAL SOCIETY OF CANADA and that NRC RESEARCH PRESS is the Printer and provides Technical Editing Services.

As a final note, I wish to thank the Board and the Membership for allowing me to be the Scientific Editor for the last four years. I have enjoyed the work, not ruffled too many feathers, and am looking forward to stepping down. Jean Turgeon will take over as of 1 January, 1998. He and I have already chatted by telephone to initiate the transfer of duties and files. I shall continue to process manuscripts which started off with me for as long as it is practical and useful to Jean. I expect that will be about a further four to six months.

Peter Kevan, Scientific Editor
The Canadian Entomologist

Report of the Scientific Editor - *Memoirs*

As of September 1997, all contributions to a *Memoir* on "Microbial Control of Grasshoppers and Locusts", edited by M.S. Goettel and D. Johnson, have been accepted for publication. This, the final *Memoir* (No. 171), will be published before the end of 1997.

It has been a pleasure and an honour serving as Scientific Editor of the *Memoirs* for the last few years - thanks so much to the Entomology Society of Canada for giving me the opportunity.

My thanks, as always, to the anonymous reviewers, who have given their time and expertise, and finally, thanks to Sandy Devine and the last Managing Editor, Barbara Patterson, for their help, patience, and cheerfulness.

Valerie Behan-Pelletier
Scientific Editor, *Memoirs*

Report of the *Bulletin* Editor

We have reverted to the old (6 by 9 inch) size for the *Bulletin* after determining that the cost would be substantially less than the 6 1/2 by 10 inch size of the past year. This will have the additional effect of reducing the effective font size slightly, as the 6 by 9 page size allows greater reduction of an 8 1/2 by 11 sheet.

I have been sending some of the contents of the *Bulletin* of general interest to Barry Lyons for inclusion on the Web page, and that seems to be working well. However, the 'Positions Available' section is no longer being included in the *Bulletin* since Troy Danyk, who used to send me that information, advised me that such information was easily available on the Web and in fact

was often out of date when the *Bulletin* appeared. Perhaps this feature could be actively pursued by our Web site; the job information currently available on the ESC Website is what I sent in March and is now out of date.

I extend my thanks to those who have sent submissions to me on diskette and via E-mail, and who have otherwise tried to make my life easy.

Hugh Barclay
Bulletin Editor

Report of the ESC Publications Committee

1.) Chair compiled list of committee members and addresses (phone, e-mail and FAX). Chair mailed Committee Guidelines out to all members.

2.) In January, Chair amended Instructions to Authors for *The Canadian Entomologist* and sent them to Managing Editor Barbara Patterson. Amendments have since been published.

3.) Search for new Scientific Editor. The Committee's long and diligent search for an editor has ended. Dr. Jean Turgeon (Natural Resources Canada, Sault Ste. Marie) bravely volunteered to take over from Dr. Peter Kevan as Scientific Editor. We welcome and congratulate Jean!

4.) Page charge waivers. Vernon Vickery, Emeritus Curator of the Lyman Entomological Museum & Research Laboratory at McGill University (Macdonald campus) requested waivers for two papers, one 6 pages and the other 10 pages long. The waivers were granted.

5.) Book reviews. Chair has received 21 books for review. The chair and the committee have found reviewers for most, and most books have been sent out. Three reviews have been received; two have been published in the *Bulletin*. The chair has also received several miscellaneous pamphlets announcing new journals and software; summaries of the information have been published in the *Bulletin*.

6.) Requests to reproduce material published in *The Canadian Entomologist*. The chair has received and signed requests from the following sources to reproduce information and graphics published in *The Canadian Entomologist*: Blackwell Science (CD-ROM of book *Ecology*); United States Department of Agriculture (CD-ROM on biological control of exotic thistles); the University of Wageningen (book *Insect-Plant Biology*); the University of California (book *Natural Enemies Handbook: An Illustrated Guide to Biological Control*); the University of Arizona (book *The Insects: Structure and Function*); Molinis, Switzerland (chapter for book published in honour of Huffaker); New York University (chapter in book *Encyclopedia of Reproduction*); and Clemson University (book *The Plant Bugs (Heteroptera: Miridae): Pests, Predators, Opportunists*). More detail on these requests can be obtained from the chair.

7.) The appointment of Dr. Jean Turgeon as Scientific Editor of *The Canadian Entomologist*, has been approved by the President.

Sheila Fitzpatrick, Agassiz, B.C.

Report of the Publications Procedures Committee

Introduction

The Publication Procedures Committee was set up to secure bids from contractors, and recommend actions, for the production of all stages of *The Canadian Entomologist*. Preliminary

analyses (stemming from the work of the 1994–1996 Strategic Review Committee) had shown that the Society could expect considerable savings by producing the journal in this way rather than by employing a full-time Managing Editor and contracting out the printing as at present.

The Committee was established in late October 1996, comprising H.V. Danks (Chair; and President-elect), G. Boivin (chair of the former publications subcommittee of the Strategic Review Committee), S. Fitzpatrick (chair, Publications Committee), G.A.P. Gibson (Treasurer), P.G. Kevan (Scientific Editor), and S.A. Marshall (President).

Procedure

The Committee first developed comprehensive terms of reference for the production of the journal, specifying what was required for copy editing and publication in order to solicit bids that were comparable and that, if accepted, would result in the work being done completely and properly at the expected cost. A covering letter to prospective bidders was also developed. These materials were also checked for missing information by the current printer and by the managing editor. Prospective bidders were identified, based on input from Committee members, and the terms of reference and invitations to bid were sent out in January 1997.

Fifteen potential contractors from various cities were invited to bid, approximately equal numbers of each of three types: editing/desktop publishing groups, and academic presses (both of whom normally subcontract printing); and printers (who normally subcontract editing services). Nine (three desktop plus two academic plus four printers) prepared formal bids. One did not answer; one declared interest only at the last moment and did not bid; and three smaller operations declined to bid, apparently because they would need more staff which would not be worthwhile for the one job. The current managing editor made an alternative proposal (see below).

After receipt of bids, copies of all bids (and some summary and background information prepared by the chair) were sent to each member of the committee, and initial independent specific evaluations, including annotated rankings based on all relevant elements, were requested. In addition to basic price information, the key elements for evaluation were: costs for other price elements (e.g. changes from the “standard” 200 page issue, cost of reprints); quality control / abilities of personnel; continuity / reliability; experience / scientific familiarity; and other elements (e.g. duration of contract, quality of the bid document).

Evaluations, including detailed pros and cons provided by Committee members, were summarized by the chair. These summaries, the individual evaluations, and some further individual discussions with member of the Committee, were used as the basis of a detailed report to the Executive Council in April 1997, which presented the Committee’s recommendations.

Evaluations

The bids ranged very widely, from several strong, relatively inexpensive bids ranked more or less highly by all Committee members to several bids that were at or higher than the status quo. In addition, the current managing editor did not submit a bid under the terms of reference but instead offered to work significantly reduced hours to do the editing work, for a comparably reduced salary.

The bid most favoured by the Committee was by the National Research Council, which has wide experience and capability, already produces other scientific journals, is committed to electronic matters, has an existing qualified staff and a base in Ottawa, and offered means to save on postage as well as significant savings on editing and printing costs.

Several other bidders were also deemed suitable for the role of producing *The Canadian Entomologist* (but with bids judged not quite as strong as NRC's), and would also cost well below the status quo.

Recommendations

Based on the cost and quality of the bids received and the detailed analyses, the Committee recommended:

1. That the Society should follow through with its decision to contract out the whole production of *The Canadian Entomologist*. [However, they also recommended that, in the interests of clarity, the Executive should first discuss the different option, albeit with smaller savings, of retaining the managing editor part time.]

2. That the Society should accept the NRC bid.

Subsequent actions

Based on the Publications Procedures Committee's report of April 1997, and comments on it made by the Finance Committee, these recommendations were endorsed by the Executive Council. Following discussions between Society representatives and the National Research Council, production of *The Canadian Entomologist* was transferred to the NRC, effective for the issue of July/August 1997.

H.V. Danks, Chair

Report of the Science Policy Committee

The Science Policy Committee (SPC) for 1996-1997 comprises H.V. Danks (Chair), P. Dixon, L. Gilkeson and M. Goettel.

The Committee has not taken a proactive role during 1996-1997, chiefly because the Chair was asked to make a major effort instead to lead the work of the Publications Procedures Committee. Consequently, only two items have come to the attention of the SPC this year.

First, the possibility arose that the area around the Criddle homestead at Aweme, Manitoba, might be sold to a private owner who would likely cultivate it. A letter was sent from the Chair of the SPC to relevant authorities, pointing out the great historical and scientific values of the site for entomology. This letter and other submissions helped to ensure that the site would not be sold. A plan for preservation and management is currently being developed in Manitoba.

Second, efforts by the previous SPC Chair to provide input on behalf of entomology to the NSERC's "Reallocations Exercise" brought the response from NSERC that the ESC should try to have its views incorporated into submissions being prepared by steering committees for each Grant Selection Committee. This potentially cumbersome process was not pursued further.

H.V. Danks, Chair

Marketing Committee Report

Activities by the Marketing Committee in 1997 largely have been restricted to developing five pamphlets advertising the availability of ESC *Memoirs*. Each pamphlet lists *Memoirs* in one of the following categories: Coleoptera, Lepidoptera, Hymenoptera, Diptera/Hemiptera, and

Miscellaneous Topics. These pamphlets are now finished and are being used by the Head Office to encourage *Memoirs* sales. The Committee acknowledges A. Devine and others who have participated in the successful completion of this project.

A special pamphlet was prepared and distributed to advertise the upcoming publication of *Microbial Control of Grasshoppers and Locusts* (M.S. Goettel and D.L. Johnson, eds), Vol. 171 of the *Memoirs* of the Entomological Society of Canada. This will be the last volume to be published in this series.

Marketing of the book "*Diseases and Pests of Vegetable Crops in Canada*" continues. Approximately 288 copies were sold in 1997 (hardcover French - 58 copies; softcover French - 45 copies; softcover English - 185 copies). With these most recent sales, unsold copies of DPVCC total about 1,760 copies of softcover English, 29 copies of hardcover French, and 894 copies of softcover French. ESC members are encouraged to promote the availability of DPVCC to friends and colleagues.

Members: K. Floate (Chair), J.D. Shorthouse, R. Westwood, S. Marshall (ex officio). Members of the committee in 1998 will be Lloyd Dosdall (Chair), Troy Danyk, Dave Gillespie, Kevin Floate, and Hugh Danks (ex officio).

Lloyd M. Dosdall

Report of the Membership Committee

1. The Membership Committee is comprised of: J.G. Stewart, Chair, Charlottetown, J. Brodeur, Quebec City, B. Lyons, Saulte Ste Marie, D.W. Langor, Edmonton, T. Shore, Victoria

The entomological societies of Manitoba and Saskatchewan did not provide a representative for the Membership Committee. The President may wish to make the necessary appointments to increase the membership to eight.

2. As of December 1996, the Society has 594 members (438 regular, 77 student, and 79 emeritus). A membership list was prepared and submitted to the *Bulletin* Editor and has been distributed.

3. One nomination for an Honorary Member was received. I understand that the Society has seven Honorary Members. This number exceeds our quota of 1% of the active membership. However, the Standing Rules allow for the number of Honorary Members to exceed the quota temporarily. As no Honorary Memberships were put forward in 1996, the Board may wish to consider the merits of supporting a nomination this year.

Jeff Stewart, Chair

Report of the Bilingualism committee:

The Committee has received several texts for translation: (i) announcement for a new editor of *The Canadian Entomologist* in 1998, (ii) the ESC program of the 1997 meeting from the ESA (iii) the logo for the 1997 ESC meeting (iv) changes to the ESC By-Laws (v) the biographies for the candidates for 1997 ESC elections (vi) biographies of the 1997 recipients of the Gold Medal and the Gordon Hewitt Award, and (vii) a short letter from the Election committee. All translations were done by members of the committee so there have been no charges for the Society. I have been told by the secretary Peggy Dixon, that a new version of the By-Laws and Standing Rules is in preparation and the translation of both texts may be requested during the

coming year. Given the amount of time required for such work, I suggest that the translation be done by professional translators, with members of the committee revising the final version. Therefore, I would recommend that the annual budget for the bilingualism Committee be increased to \$2500. If this extra work is not required, then I suggest that the \$500.00 annual budget be maintained.

Rapport du comité du bilinguisme

Le comité a reçu plusieurs textes à traduire: (i) avis de recherche d'un nouvel éditeur pour le *Canadian Entomologist* en 1998 (ii) le programme de la réunion 1997 pour la SEA (iii) la description du logo de la réunion 1997 de la SEC (iv) changements apportés aux règlements de la SEC (v) les biographies des candidats pour les élections 1997 (vi) biographies des récipiendaires de la Médaille d'Or et du prix Gordon Hewitt et (vii) un lettre du comité des Élections. Toutes les traductions ont été faites par les membres du comité si bien qu'aucun frais n'a été chargé à la Société. J'ai été informée par la secrétaire de la SEC, Peggy Dixon, qu'une nouvelle version des Règles et Règlements étaient en préparation et que la traduction de ces textes pourrait être demandée au cours de la prochaine année. Comme la traduction de ces documents peut exiger beaucoup de temps, je suggère qu'elle soit faite par des traducteurs professionnels, et que les membres du comité se chargent d'en réviser les versions finales. Je recommande donc que le budget annuel alloué au comité du bilinguisme soit augmenté à \$2500. Si ce travail additionnel n'était pas demandé, alors je suggère que le budget annuel de \$500 soit maintenu.

Johanne Delisle

Report for the Insect Common Names Committee

Few entomologists are interested in common names but as the world population continues to increase and more food has to be produced, the importance of insect pests and of the insects that control them will also increase as will that of insects that vector diseases. To explain what is happening to farmers, growers, doctors, veterinarians and reporters, reliable common names will be needed along with their current scientific name. Common names seldom change but scientific names change frequently as taxonomists reclassify species and higher groups. They have to be kept up to date and this was the main reason for the ESC's agreement with CAB International. In October 1996 CABI compared the ESC's Archival database with their Arthropod Names Index and sent us the first of their annual reports. The 88 scientific names that differed on the two databases have been checked by North American taxonomists. On their recommendation 54 scientific names have been corrected/ updated in the Archive and 14 footnotes have been changed, added or deleted.

Thirty five of these 54 Archival names are also on the ESC Common Names Disk and will have to be corrected and 3 orphan common names should be deleted until new names are ratified by the ICNC. The list of corrections will be published in the *Bulletin* and on the Society's Web Page from which it can be downloaded.

Acknowledgements of E.M.Belton

Most of the taxonomists who helped me are at ECORC - Klaus Bolte, Don Bright, Bruce Cooper, P.T.Dang, Henri Goulet, Andy Hamilton, Don Lafontaine, Laurent Lesage, Eric Maw and special thanks to Jean-Francois Landry. Thanks to Peter Kevan and Entomo-L, I corresponded with many other taxonomists and I'm also grateful to Francois Genier, Can.Mus. of Nature, Ottawa; John Garland and Amalia Pucat, Plant Health, Nepean; Tony Thomas, Forestry, Fredericton; James Amrine, U West Virginia; Jackie Miller, U South Carolina; Barry OConnor, U Michigan; Doug Yanega, U Illinois; Alma Solis and John Brown of SEL, USDA and Dr.Carlson

and Dr Poole who maintain the BIOTA and NIN databases, respectively. I would also like to thank Dr. Bosik, Chair of the ESA Common Names Committee. He has been updating the ESA list this year and we have had numerous email discussions about scientific names. Unfortunately taxonomists in Ottawa, Washington and Wallingford do not always agree.

Acknowledgements of R.E.Roughley

Former members of the Insect Common Names Committee were:- Rob Roughley, outgoing Chair and ESM representative; Bob Footitt, Liaison with the ESAmerica; E.M.Belton; ESBC rep; David Langor, ESA Alberta rep; Keith Moore, ESS rep; Kathryn Nystrom, ESO rep and Alain Roy ESQ rep.

E.M.Belton, Director-at-large, ESC
R.E.Roughley, Chair, ICNC

1997 Corrections for the ESC Common Names Disk

In October 1996 the ESC's Archival database was compared with CAB International's Arthropod Names Index and the 88 scientific names which did not agree have been checked by North American taxonomists, mainly at ECORC. On the ESC disk 35 scientific names require updating, so far, and 3 common names should be deleted until new names are ratified by the ICNC.

If you know how to convert the names into a database you will only have to make one lot of corrections. If not, you must make the changes in the three files, names.txt, sci2.txt and, where appropriate, in french.txt. Nearly all the scientific names will have to be moved to their correct alphabetical order in sci2.txt. This list of corrections will also be on the ESC Web Site.

ENGLISH NAME	UPDATED SCIENTIFIC NAME	OLD NAME
acorn moth	<i>Blastobasis glandulella</i> (Riley)	<i>Valentinia</i>
aspen leafblotch miner	<i>Phyllonorycter apparella</i> (H.-S.)	<i>P.ontario</i> (Free.)
aspen webworm	<i>Pococera applastella</i> (Hulst)	<i>Tetralopha</i>
common green lacewing	<i>Chrysoperla carnea</i> (Steph.)	<i>Chrysopa c.</i> Steph.
elm leafgall mite	<i>Aceria campestricola</i> (Frau.)	<i>A.ulmi</i> (Gar.)
elm leafminer	<i>Kaliofenusa ulmi</i> (Sund.)	<i>Fenusa u.</i> Sund.
English grain aphid	<i>Sitobion avenae</i> (F.)	<i>Macrosiphum</i>
European chafer	<i>Amphimallon majalis</i> (Raz.)	<i>Rhizotrogus</i>
European elm scale	<i>Gossyparia spuria</i> (Mod.)	<i>Eriococcus spurius</i>
filbert weevil	<i>Curculio uniformis</i> (LeC.)	<i>C.occidentis</i> (Casey)
golden oak scale	<i>Asterodiapsis variolosa</i> (Ratz.)	<i>Asterolecanium variolosum</i>
gray spruce cutworm	<i>Xestia perquiritata</i> (Morr.)	<i>Anomogyna</i>
green cloverworm	<i>Hypena scabra</i> (F.)	<i>Plathypena</i>
hickory twig pruner	<i>Anelaphus parallelus</i> (Newm.)	<i>Elaphidionoides</i>
lilac leafminer	<i>Caloptilia syringella</i> (F.)	<i>Gracillaria</i>
maple trumpet skeletonizer	<i>Catastega aceriella</i> Clem.	<i>Epinotia a.</i> (Clem.)
maple webworm	<i>Pococera asperatella</i> (Clem.)	<i>Tetralopha</i>
Mediterranean flour moth	<i>Ephesia kuehniella</i> Zell.	<i>Anagasta k.</i> (Zell.)
milkweed leaf beetle	<i>Labidomera clivicollis</i> (Kby.)	<i>L.trimaculata</i> (F.)
olive fruit fly	<i>Bactrocera oleae</i> (Gmel.)	<i>Dacus</i>
pine webworm	<i>Pococera robustella</i> Zell.	<i>Tetralopha</i>
redstriped needleworm	<i>Epinotia radicana</i> (Heinr.)	<i>Griselda r.</i> Heinr.

rose-grass aphid	<i>Metopolophium dirhodum</i> (Wlk.)	<i>Acyrtosiphon</i>
sheep blow fly	<i>Lucilia sericata</i> (Meig.)	<i>Phaenicia</i>
striped oak webworm	<i>Pococera expandens</i> (Wlk.)	<i>Tetralopha</i>
sycamore webworm	<i>Pococera militella</i> (Zell.)	<i>Tetralopha m. Zell.</i>
twig pruner	<i>Anelaphus villosus</i> (F.)	<i>Elaphidionoides</i>
willow beakedgall midge	<i>Rabdophaga rigidae</i> (O.S.)	<i>Mayetiola</i>
willow cabbagegall midge	<i>Rabdophaga salicisbrassicoides</i> (Pack.)	<i>Rhabdophaga</i>
willow flea weevil	<i>Isochnus rufipes</i> (LeC.)	<i>Rhynchaenus</i>
willow leafblotch miner	<i>Phyllonorycter salicifoliella</i> (Cham.)	<i>P.kenora</i> (Free.)
willow pinecone gall midge	<i>Rabdophaga strobiloides</i> (O.S.)	<i>Rhabdophaga</i>
willow potatogall midge	<i>Rabdophaga salicisbatatas</i> (O.S.)	<i>Rhabdophaga</i>
woods weevil	<i>Geoderces incomptus</i> Horn	<i>G.i.</i> (Horn)
yellow apple leafhopper	<i>Typhlocyba frogatti</i> Baker	<i>*T.crataegi</i> Douglas

(**T.forgatti* and *T.crataegi* are separate species. Both are called the yellow apple leafhopper but *T.crataegi* does not occur in Canada.)

The three common names to be deleted are - alder flea weevil and birch flea weevil both of which now apply to *Rhynchaenus testaceus* (Mill.) and chameleon caterpillar, now *Xestia elimata* (Gn.), which does not occur in Canada. The 'birch and alder flea weevil' has been suggested for *R.testaceus* but has not yet been ratified by the ICNC.

Change Pamphilidae to Pamphiliidae (all three files) for pine false webworm; nesting pine sawfly; and for spruce, red pine, plum and viburnum webspinning sawflies.

Nomenclatura Insectorum Canadensium is correct in the Introduction. Please change "Canadensis" to "Canadensium" above the Menu/Contents.

E.M.Belton, Burnaby, B.C.

Report of the Achievement Awards Committee

1. The Awards committee recommended that the 1997 Gold Medal be awarded to Dr. Peter Harris and that the C. Gordon Hewitt award be given to Dr. Jacques Brodeur. The recommendations were accepted by the Executive at the April 16, 1997 meeting and endorsed by mail by the Governing Board. Photographs and biographical information were obtained from the nominators of the successful candidates and forwarded to the ESC office for production of awards brochures. Announcements for the 1998 awards were run in the June and September 1997 *Bulletin*. In contrast to the previous year, an ample number of candidates were nominated for each award. As was the practice in previous years, however, the award deadline was extended until the end of February to receive all possible nominations.

2. The committee was charged with reviewing the guidelines for the Criddle Award and considering whether there should be additional ways to recognize this award. The committee members agreed that this is an important award and that the value should be increased to reflect its importance. The committee made the following recommendations to the Executive, which accepted these recommendations at the April 16, 1997 Executive Board meeting:

- a) that the award certificate be framed before it is presented, *and*
- b) that the travel expenses of the recipient be paid for on the same basis as the Gold Medal and C. Gordon Hewitt awards.

Linda A. Gilkeson, Chair

Report of the Scholarship Committee

There were six eligible applications for the Postgraduate Award this year. All applicants were strong contenders, attesting to the high calibre of graduate students in entomological research across Canada. As one reviewer stated, "I'm glad I don't have to compete with these students. The general quality of the applications, and in particular the experience gathered by these students is truly amazing." The winners of the Award for 1997 are Cynthia Broberg from Simon Fraser University, Burnaby, B.C., working on a wood-boring weevil, and Stephanie Sopow, of the University of New Brunswick, Fredericton, working on adelgid gall-formers on white spruce.

Five students applied for the Keith Kevan Scholarship. The winner is Andrew Bennett, of the University of Toronto, who is unravelling the phylogeny of the ichneumonid subfamily Tryphoninae.

I would like to thank the members of the Scholarship Committee who had the difficult job of rating the applications: Rene Alfaro, Staffan Lindgren, Bev Mitchell, John Conroy, Gord Surgeoner, Conrad Cloutier, Jon Sweeney, Geoff Scudder, Rob Roughley, Bob Footitt, and Steve Marshall.

Juliana J. Soroka, Chair

Report of the Research Travel Grants Committee

This year was an unusual one for the Research Travel Grants Committee due to the fact that there was no applications received for this years available grants. The reason for the lack of interest in the grants is not clear. There were some problems with the notification of the grants in the January *Bulletin* of the Society but the extension of the deadline should have been sufficient to alleviate this problem.

Under the revision of the various committees that were made at last years annual meeting the Research Travel Grants Committee will become part of the Scholarships Committee in 1998. I would like to thank this years committee members for agreeing to serve the society in this capacity. I would also like to thank those members who have served on the committee for my tenure as chairperson since 1994.

The 1997 Research Travel Grants Committee consisted of: Dr. Wade Bowers, Dr. Terry Wheeler, Dr. Imre Otvos, Dr. B. K. Mitchell, Dr. Daniel Coderre, Dr. R. DeClerck Floate, Dr. Steve Marshall (ex-officio), Mr. Lloyd Hollett (Chairperson)

The Entomological Society of Canada can only be as strong as the commitment of its membership. I encourage all members to serve their society in any capacity they feel they can fulfill.

Lloyd H. Hollett, Chair

Report of Fellowship Committee

A call for nominations of Fellows was published in the *Bulletin* (Vol. 28, No. 4:111) in December 1996, with deadline of 31 January 1997. No nominations were received by the committee. There are therefore no fellowship recommendations for 1997.

G.G.E. Scudder
University of B. C.

Report of the Public Education Committee

The Public Education Committee accepts applications for the regional societies for an annual grant of \$200 in support of the promotion of entomology. In 1997 the committee received and approved applications for \$200 from the Entomological Society of Saskatchewan (ESS), the Entomological Society of Manitoba (ESM) and the Société d'entomologie du Québec (SEQ). The ESS purchased videos on entomology, insect collecting and insect identification for use at public displays. The ESM will use the money towards travel costs of members making presentations promoting entomology and for the purchase of lapel pins with the slogan "YEEC" (Youth Entomological Encouragement Campaign). The SEQ will use the funding to support the activities of the Association of Amateurs Entomologists of Quebec which publishes a bulletin and the Fabriques magazine. In addition, letters of thanks/encouragement were sent to CBC's "Quirks and Quarks" for their broadcast March 18, 1997 covering the decline of systematics in science and to the Discovery channel for their continued presentation of programs with entomological focus.

Rapport du Comité de la Éducation public

Le Comité de la Éducation Public accepte des candidatures pour les sociétés régionales pour une subvention annuelle de \$200 dans support de la promotion d'entomologie. Dans 1997 le comité a reçu et candidatures approuvées pour \$200 de la Société Entomologique de Saskatchewan (ESS), la Société Entomologique de Manitoba (ESM) et le Société [du] du [d'entomologie] Québec (SEQ). L'ESS a acheté des vidéos sur entomologie, insecte rassemblement et identification de l'insecte pour utilise à expositions du public. L'ESM utilisera l'argent vers coûts du voyage de présentations de la fabrication des membres promeut l'entomologie et pour l'achat d'épingles du revers avec le slogan "YEEC" (Jeunesse Encouragement Entomologique fait campagne). Le SEQ utilisera la consolidation supporter les activités de l'Association d'Entomologistes des Amateurs de Québec qui publie un bulletin et le Fabriques magazine. Dans addition lettres de merci/encouragement a été envoyé à CBC 'Quirks and Quarks' pour leur émission le 18 mars 1997 couvre le déclin de systematiques dans science et canal à la Découverte pour leur présentation soutenue de programmes avec centre entomologique.

Peter G. Mason
Saskatoon, Saskatchewan

Report of the By-Laws, Rules & Regulations Committee

The By-Laws, Rules & Regulations Committee revised the Standing Rules and Committee Guidelines of the Society according to the actions taken at the 1996 Governing Board Meeting and Annual General Meeting. The revised documents were submitted to the Executive Council Meeting in April for comments and recommendations. The Executive Council made a number of suggestions for changes. Most of these changes were made in consultation with the Secretary. The By-Laws, Rules & Regulations Committee now considers the Standing Rules and Committee Guidelines to be in the final draft, except for the Web Committee. The Web Committee has not yet provided the information needed to write the Standing Rules and Committee Guidelines for this Committee; the Committee in 1997/1998 will have to look after this task. Since the Headquarters Committee and the Marketing Committee are new committees, the Governing Board needs to approve the Committee Guidelines for these two Committees.

The Committee thanks Dr. Peggy Dixon for her assistance in revising the Society's documents and for arranging the typing of these documents.

George H. Gerber, Chair

Report of the WWW Committee

<http://www.biology.ualberta.ca/ecs.hp/homepage.htm>

The ESC website has undergone many changes since my last report to the Governing Board. The main page now consists of a series of buttons that access the various modules that make up the website. Under each button on the homepage is a date indicating when that portion of the website was last updated. Thus, the user can determine if new information has been made available since the site was last visited. Fifteen modules are currently available from the main page. Six modules were described in my last report. Since that time, Hugh Danks submitted the following modules: "History of the Entomological Society of Canada;" "Information about Entomology in Canada," "Roles of the Entomological Society of Canada;" and "Membership Application." A list of "Committees and Representatives" submitted by Steve Marshall has been converted to hypertext markup language (HTML), the language of the web, and made into an additional module. Hugh Barclay has forwarded material from the *Bulletin* which was converted into the modules "Newsletter Articles" and "Positions Available." The remaining new modules are described below.

The most significant change in the website was its conversion to a bilingual format. Thanks to the efforts of Hugh Danks, major portions of the website are now available in both official languages. The user can access the website from either an English or a French homepage. Buttons on these pages also allow the user to jump to the homepage in the other language. Some of the information on the site is available in either French or English versions, some documents contain both languages and some pages are in English only with links to the French language pages.

The Student Affairs Committee (SAC), under the leadership of Troy Danyk, has created a hypertext document titled "Directory of Entomological Education in Canada/Répertoire des formations en Entomologie au Canada." This document is accessible from a button on the homepage (english version only at this time). As described in the document, "This Directory lists post-secondary institutions in Canada that offer training in entomology, that includes course work, supervision of entomological research and internet entomology courses. For some schools, the information from more than one department is listed separately. The information about schools has been sorted alphabetically by, and within, geographical location (i.e., by province), and is in their language of instruction. Information contained in this Directory was compiled from responses received to questionnaires sent to post-secondary institutions. Schools that did not respond, or that do not have an entomology program, are not listed in the Directory." Only minor changes, such as hypertext jumps, were made to the document before it was uploaded to the site.

The homepage and associated HTML files for the Biological Survey of Canada (Terrestrial Arthropods) is also accessible from a button on the ESC homepage. This button is coloured differently from the other buttons on the homepage to signify its uniqueness. These pages were created by Hugh Danks and his assistant Susan Goods. The pages reside on the ESC server and are administered by me. Updates and corrections are submitted to me and I edit and make appropriate changes to the files and upload them onto the server.

The website suffers from the lack of new and current information. Members, especially of the Governing Board, should be on the lookout for material to submit to the website. Meeting dates, positions available and WWW links of interest to members should be forwarded to me for inclusion on the site. New and topical material is imperative to maintain interest in the website. The website still requires input from the affiliated societies, each of which has an area on the site. An article in the *Bulletin* describing the homepage might do much in helping to promote it. Committee Guidelines for the WWW Committee have not yet been drafted. The new e-mail address for the Society has been incorporated into the homepage.

D. Barry Lyons
Chair

Report of the Entomological Society of British Columbia

The Entomological Society of British Columbia will hold its annual meeting for 1997 on October 29th at Agassiz, B.C. The main project the society is working on this year is the creation of an ESBC Home Page on the World Wide Web. Dr. Lisa Poirier is heading this project and a prototype has been developed and is currently being modified based on initial feedback. We are hoping to add a catalogue of our library holdings to the web page as well as our newsletter Boreus.

The current executive is: *President:* Dave Gillespie; *President-elect:* Staffan Lindgren;

Past President: Gail Anderson; *Secretary/Treasurer:* Robb Bennett

Directors: Rob Cannings, Rob McGregor, Ken Naumann, Elizabeth Tomlin, Ward Strong

Editors: Peter Belton (J. Ent. Soc. B.C.), Troy Danyk (Boreus), Lisa Poirier (Home Page)

Terry Shore
Regional Director

Report of the Entomological Society of Alberta

The 45th Annual Meeting of the ESA will be held in conjunction with the 47th Annual Meeting of the Entomological Society of Canada in Edmonton on October 4-8, 1997. The theme of this meeting was "Insects and Mother Earth". The Plenary Address was given by Dr. Geoff Scudder, and the Heritage Lecture by Dr. George Ball. A full slate of excellent papers, posters, symposia, and workshops, as well as great attendance from across Canada and from several other countries, contributed to the success of this meeting.

The ESA established an amateur award in entomology, to be given to an individual in recognition of efforts, excluding professional obligations, that promote entomology to the public. The "Carr Award" is named in honour of Fredrick Stephen Carr's pioneering contribution to entomology in the province. The first recipient of this award is Dr. Ruby Larson (retired). Dr. Larson established and ran in her basement a weekly Science Club for children. Her enthusiasm and encouragement inspired most of her students to go on to distinguished careers in medicine and science, including several in entomology.

The popular Insect Collectors Guide has been revised, and will soon be available (free of charge) from any member of the ESA.

Newly elected Officers of the ESA are as follows: Ken Fry (vice president) and Troy Danyk (director).

David Langor, R.D.

Report from the Entomological Society of Saskatchewan

The initial volume of the Canola Pest Management video series is now available. It contains chapters dealing with bertha armyworm and red turnip beetle. The remaining three volumes are essentially complete and will be available as follows: Flea beetles and diamond back moth (Oct. 97), lygus and cabbage root maggot (Dec. 97), crop production, monitoring, agronomy, disease, weed control, and minor insects (Feb. 98).

Volumes are 23 minutes long and sell for \$50 each or \$200 per set. Individual volumes or complete sets may be ordered from Lloyd Harris at Sask. Agriculture (Regina) or Julie Soroka at A.A.F.C. (Saskatoon). The series has thus far been licenced to one provincial educational network (S.C.N.).

Members of the society were once again very active in bringing entomology to school aged children. Members made presentations to several hundred grade two students at Gardenscape as well as travelling to schools with live and mounted insects. The society now has Discover Entomology' videos which can be lent to schools as a teaching aid.

Preliminary planning for the 1999 ESC-ESC joint meeting is underway. A final decision on location and date will be made at the ESS annual meeting in November 1997.

The E.S.S. executive for 1997-8 is as follows: *President* - Scott Hartley;
Vice President - Lorraine Braun; *Secretary* - Larry Grenkow;
Treasurer - Julie Soroka; *Regional Director* - Owen Olfert

Keith Moore, R.D.

Report from the Entomological Society of Ontario

The 134th Annual General Meeting of the Entomological Society of Ontario will be held on 7-8 November 1997 at the Pest Management Research Centre, Agriculture and Agri-Food Canada, 1391 Sanford Street, London ON. Details about the meeting can be found on the PMRC Website: <http://res.agr.ca/lond/pmrc/eso.html>

The current executive for the ESO, which will hold office until the upcoming Annual General Meeting, is as follows:

President: Robert Trottier; *President-Elect*: Scott MacDonald; *Past President*: Sandy Smith
Secretary/ESC Rep.: Barry Lyons; *Treasurer*: Blair Helson

The website for the ESO has undergone a significant facelift. Visit the website at <http://www.utoronto.ca/forest/eso/> to see the changes.

Volume 127 of the *Proceedings of the Entomological Society of Ontario* was published in December of 1996. This was the memorial issue dedicated to D. R. Wallace. The first article in the issue was a tribute to Wallace written by D. B. Lyons entitled "*From sawflies to solenoids: a tribute to Donald Raymond Wallace.*" The issue also contained 14 scientific papers and two book reviews.

D.B. Lyons, R.D.

Rapport Annuel de la Société d'Entomologie du Québec

La SEQ a inauguré en 1996 un site WEB qui diffuse de l'information auprès de ses membres et qui fait la promotion de l'entomologie auprès du grand public. L'adresse de ce site est "<http://ecoroute.uqcn.qc.ca/group/seq/index.html>". La province de Québec se dotera sous peu d'un insecte emblème. Plusieurs activités de promotion sont organisées conjointement à cet effet par la SEQ et l'Insectarium de Montréal. Le tout culminera à l'automne 1998 par un vote populaire qui décidera lequel des six insectes proposés sera désigné.

La réunion annuelle 1996 de la SEQ a été tenue les 29 et 30 octobre à Québec. Cette réunion a été organisée par M. C. Cloutier et son équipe. Le symposium regroupait huit conférenciers invités sous le thème "*Lutte biologique aux ravageurs: Interactions, interférence et synergisme*". Une trentaine de communications scientifiques ont été présentées. M. P. Lévesque a obtenu le prix Melville Duporte pour la meilleure présentation étudiante. MM J. Brodeur (catégorie professionnel) et François Génier (catégorie amateur) ont été récipiendaires des décorations

Léon Provancher. M. L. Jobin a été reçu membre émérite de la Société.

La réunion annuelle 1997 se tiendra à Saint-Jean-sur-Richelieu les 6 et 7 novembre. Le symposium portera sur les biopesticides. Monsieur G. Bélair est responsable de cette réunion.

Jacques Brodeur
Rep. à la SEC

Report of the Acadian Entomological Society

The Acadian Entomological Society has undertaken a quarterly newsletter the '*AES Bulletin*' as a means of connecting and communicating with the society's membership. Those interested in receiving a copy should contact the secretary.

The 57th annual meeting of AES was held August 10th -12th at the Kentville Research Centre with approximately forty members and guests participating. '*Semiochemicals....status & potential in pest management*' was our symposium theme. Presentations were from Bill Seabrook, Univ. Of New Brunswick, Randy Alford University of Maine, Jeremy Heath, Ohio State university and Sonia Gaul & Rob Smith from the Kentville Research Centre. Plans are underway to publish electronically the five symposium presentations. Winners of the student award presentations were Jeremy Heath 'Diel emergence and flight activity of the apple leaf curling midge *Dasineura mali*' and Cory Sheffield 'Alfalfa leafcutter bee, *Megachile rotundata*, Low temperature tolerance and feral population development in Nova Scotia. Both Mr. Heath and Sheffield attended Acadia University where in cooperation with the biology department, Dr. Rob Smith, Kentville Research Centre, served as their project supervisor.

Membership endorsed the concept of an Acadian Entomological Society webpage to be established within the coming year. The 1998 executive elected at the meeting are: President Lloyd Hollett, Vice President Peggy Dixon, Treasurer Gary Holloway, Secretary Karen Ryan. We gratefully acknowledge financial support to the 57th AES meetings from Rohm & Haas Canada, DowElanco Canada and locally from Marbicon Inc., Berwick N.S.

Rob F. Smith, R.D.

Volunteers Welcomed for ESC Committees

The ESC functions well thanks to the volunteers who work on the Society's behalf in various committees. In addition to formal members of the committees (appointed by the President to take up their responsibilities after the Annual Meeting), committees often will invite additional people to help them with particular tasks. Knowing which members have an interest in the topics dealt with by a particular committee therefore is very valuable to establish a list of members willing to serve on or help the Society's committees. Such a list assists both future presidents and current committee chairs.

Any member with interests in the work of a particular committee is invited to indicate these interests to the President. The committees and brief outlines of their tasks, as recently revised following the Society's Strategic Review, are listed below.

Standing Committees

Nominating Committee: secures and submits nominations for Second Vice-President and Directors-at-Large, and invites nominations to the Achievement Awards Committee for the Gold Medal and the C.Gordon Hewitt Award.

Elections Committee: scrutinizes and counts the secret ballots in a timely manner.

Continuing Committees

Achievement Awards Committee: ensures that worthy eligible persons are selected for the ESC Awards for Outstanding Achievements in Entomology (Gold Medal, C.Gordon Hewitt Award, Fellowships, Honorary Membership).

Bilingualism Committee: ensures appropriate use by the Society of the official languages of Canada.

By-Laws, Rules, and Regulations Committee: monitors the need for, and recommends, any necessary changes in the By-Laws, Standing Rules, and Committee Guidelines of the Society.

Finance Committee: assesses the financial condition of the Society and makes recommendations concerning revenue, expenditures, and investments.

Headquarters Committee: manages the physical properties of the Society headquarters, including the business office, rental accommodations, grounds, and facilities.

Heritage Committee: secures safe storage and maintains an inventory of and a record of the location of the Society's archival material, and publicizes the history of the Society.

Insect Common Names Committee: maintains a list of English and French names of insects and related arthropods in Canada, receiving proposals and assisting in their preparation.

Marketing Committee: promotes and markets the publications and other saleable items of the Society, and develops ways of increasing revenue for the Society.

Membership Committee: promotes Membership, of all categories, in the Society.

Publications Committee: ensures that publications policies are followed, and formulates new policies and procedures for approval when necessary.

Science Policy and Education Committee: coordinates all Society programs related to Science Policy, suggests new programs and activities, publicizes entomology and encourages student interest in entomology.

Student Affairs Committee: ensures good liaison between the Society and Student Members on matters and programs concerning students, future employment opportunities and the training of entomologists in Canada.

Student Awards Committee: selects the recipients of awards, scholarships, and graduate research-travel grants.

Web Committee: develops and maintains the Society's home page on the World Wide Web.

Bienvenue aux bénévoles des comités de la SEC

La SEC fonctionne bien et ce grâce aux bénévoles qui travaillent en son nom dans les différents comités. En plus des membres officiels des comités (appelés par le Président à prendre leurs fonctions après la réunion annuelle), les comités invitent souvent d'autres personnes à les

assister dans leurs tâches particulières. En sachant quels sont les membres intéressés par les sujets qui concernent un comité en particulier il peut être alors utile d'établir une liste de ces personnes prêtes à servir ou à aider les comités de la Société. Cette liste pourrait servir aux présidents futurs et actuels des différents comités.

Tout membre intéressé par le travail d'un comité en particulier est invité à en faire part au Président. Les comités, ainsi qu'une brève description de leurs fonctions, laquelle a été récemment révisée suite à la nouvelle revue stratégique de la Société, sont listés ci-dessous.

Comités permanents

Comités des nominations: obtient et soumet les candidatures pour le poste de second vice-président et les postes de directeur national et sollicite les propositions de candidats au comité des Prix d'excellence pour le Prix de la Médaille d'Or et le Prix C. Gordon Hewitt.

Comité des Elections: examine attentivement et compte tous les scrutins secrets dans un laps de temps convenable

Comités siégeants

Comité des Prix d'excellence: s'assure que des personnes éligibles et méritantes sont proposées pour les prix attribués à des contributions exceptionnelles à l'entomologie (Prix de la Médaille d'Or, Prix C. Gordon Hewitt, membres associés, membres honoraires)

Comité du Bilinguisme: veille à ce que la Société utilise correctement les langues officielles du Canada

Comité des Règlements: s'informe des besoins et recommande tout changement à apporter aux Règlements, aux Règles Permanentes et aux Lignes Directrices pour les Comités

Comité des Finances: évalue la situation financière de la Société et présente des recommandations concernant les revenus, les dépenses et les investissements

Comité du Siège social: administre les biens physiques du Siège social dont, le bureau d'affaires, le logement, le terrain et les installations

Comité de l'héritage: veille à l'entreposage et au maintien d'un inventaire et d'un registre de l'emplacement des archives de la Société et fait connaître l'histoire de la Société

Comité des Noms Communs d'insectes: maintient une liste en anglais et en français des noms d'insectes et autres arthropodes du Canada, reçoit et aide à la préparation de leurs propositions.

Comité du marketing: promouvoit et vend les publications ou autres items vendables de la Société et développe des façons pour augmenter les revenus de la Société.

Comité de l'adhésion: encourage l'adhésion des membres au niveau de toutes les catégories rencontrées dans la Société.

Comité des Publications: s'assure que les politiques de publication de la Société sont respectées et formule de nouvelles politiques et procédures pour approbation quand c'est nécessaire

Comité de la Politique Scientifique et de l'Éducation: coordonne tous les programmes liés aux

politiques scientifiques de la Société, propose de nouveaux programmes et activités, fait de la publicité pour l'entomologie et stimule l'intérêt des étudiants à l'entomologie.

Comité des Affaires Étudiantes: assure une bonne liaison entre la Société et les membres étudiants sur tous les sujets et programmes les touchant directement, ainsi que sur les futures opportunités d'emploi et la formation des entomologistes.

Comités des Prix aux étudiantes et étudiants: sélectionne les récipiendaires de prix, des bourses, et des subventions de voyage de recherche

Comité Web: développe et garde à jour la page d'accueil de la Société sur le World Wide Web.

MINUTES

Governing Board Meeting, October 4, 1997 Crowne Plaza Hotel Edmonton, AB

The meeting was called to order at 08:30 h on October 4, 1997 by President S.A. Marshall. Those present were President, S.A. Marshall; First Vice-President, H.V. Danks ; Second Vice-President, L. Gilkeson; Past-President, G. Boivin; D. Johnson, incoming Second Vice-President; L. Dossall, J. Spence, E. Belton, R. West and S. Fitzpatrick, Directors-at-Large; M. Goettel, incoming Director-at-Large; T. Shore (ESBC), D. Langor (ESA), K. Moore (ESS), R. Roughley (Acting Director - ESM), B. Lyons (ESO), J. Brodeur (SEQ) and R. Smith (AES), Directors from Affiliated Societies; G. Gibson, Treasurer; P.E. Kevan, Editor, *The Canadian Entomologist* and H. Barclay, *Bulletin* Editor; T. Danyk, Student Affairs Committee, L. Hooper, incoming Student Affairs Committee Chair, J. Soroka, Scholarships Committee, J. McNeil (Annual Meeting, year 2000) and P.L. Dixon, Secretary.

1. *Notice of Meeting*

The notice for this meeting was mailed on 15 August 1997 and printed in the March, June and September 1997 issues of the *Bulletin* (Vol. 29).

2. *Additions to and approval of the Agenda*

There were no additions to the agenda.

H.V. Danks moved, L. Gilkeson seconded approval of the agenda.

Carried

3. *Proxies and absences*

A. Ewen, V. Behan-Pelletier and V. Nealis sent regrets. R. Roughley was Acting Director for the Entomological Society of Manitoba.

4. *Minutes - Governing Board Meeting, Oct 5-6, 1996*

The minutes were circulated by the Secretary on November 20, 1996 and published in the December 1996 *Bulletin* (Vol. 29).



The Governing Board 1997

K. Moore moved, L. Gilkeson seconded acceptance of the minutes. Carried.

5. ***Minutes - 46th Annual General Meeting, Oct 8/96***

The minutes were circulated by the Secretary on November 20, 1996 and published in the December 1996 *Bulletin* (Vol. 29). The minutes will be presented for approval at the Annual General Meeting.

E. Belton moved, G. Boivin seconded acceptance of the minutes. Carried

6. ***Minutes - Governing Board Meeting, Oct 9/96***

The minutes were circulated by the Secretary on November 20, 1995 and published in the December 1996 *Bulletin* (Vol. 29).

H.V. Danks moved, L. Gilkeson seconded acceptance of the minutes. Carried.

7. ***Minutes - Executive Council Meeting, April 19, 1997***

H.V. Danks moved and K. Moore seconded the motion that the minutes as circulated by the Secretary on 2 June 1997, be accepted. Carried.

8. ***Business arising from the previous minutes:***

The following items were identified from previous minutes and moved for discussion under New Business.

8.1 *New Scientific Editor for The Canadian Entomologist*
(Item 9.2.4.1, Governing Board meeting, October 5-6, 1996). Moved to 9.2.5.1.

8.2 *Financial arrangements for, and Mexican involvement in, the 2000 meeting*
(Item 9.2.11.4, Governing Board meeting, October 5-6, 1996 and Executive Council meeting, April 19, 1997). Moved to 9.2.12.4.

8.3 *Editing and printing of The Canadian Entomologist*
(Item 9.2.1, Executive Council meeting, April 19, 1997). Moved to 9.2.1/9.2.2.

9. ***New Business***

9.1.1 Deaths

Notice was given of the deaths of John Barron, David Dyer, Bas Furgala, Janice Gillespie, William Haliburton, James Marshall and Frank Morris.

9.1.2 Correspondence

President Marshall presented three items as follows:

a) Dr. Marshall received a letter from the Ecological Monitoring and Coordination Network (EMAN), asking ESC to endorse the document "*EMAN's Contribution to the Implementation of the Canadian Biodiversity Strategy*". The document supports entomology and systematics in Canada and after a brief discussion was endorsed by the Board.

H.V. Danks moved that S.A. Marshall send a letter on behalf of ESC. This motion was seconded by R. Roughley.

Carried

Action: S.A. Marshall

b) & c) The two other items, involving publication of a list of Lepidoptera of Quebec, and a request from Cornell University, were referred to 9.3, 'Other Business'.

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

Moved by H.V. Danks, seconded by R. West that all reports be received.

Carried.

9.2.1 Executive Council

S.A. Marshall stated that the report will be presented at the AGM, and updates are printed regularly in the *Bulletin*. As the main item during the past year concerned Publications Procedures, President Marshall thanked the Committee for their efforts and suggested the following item (9.2.2), be dealt with immediately.

9.2.2 Publication Procedures Committee (ad hoc)

The Publication Procedures Committee was set up to secure bids from contractors, and recommend actions, for the production of all stages of *The Canadian Entomologist*. Dr. Danks reviewed the process and recommendations of the Committee. There was discussion of the implications and costs involved with the transfer of publication duties to NRC Press.

S. Fitzpatrick moved that the Society contract with the National Research Council of Canada (NRCC) Press be reviewed by a lawyer. R. Roughley seconded the motion, which was Carried.

Action: H.V. Danks

Dr Danks noted that the Publications Committee should monitor publication of *The Canadian Entomologist* and communicate errors or problems to the Executive Council.

Action: S. Fitzpatrick

9.2.3 Treasurer

G. Gibson presented the Treasurer's report. Total assets of the Society decreased slightly in 1996, but on a bright note the decrease was less than forecast. A substantial amount of investment bonds matured and were reinvested at the much lower interest rates current in 1996. Interest is now insufficient to cover the maximum allowable for scholarships and travel grants in any one year. Termination of the position of Managing Editor and publication of *The Canadian Entomologist* through the NRCC Press will have significant effects on Societal finances and the approved 1997 budget.

Gift subscriptions were discussed. Increasing the number of gift subscriptions could result in increased mailing costs as most are outside Canada. There was discussion of increasing marketing efforts for the *Memoirs*, an issue urgent due to space restrictions at Headquarters where all Societal publication inventory is now stored. G. Gibson suggested the Marketing Committee approach authors of *Memoirs*, advising them of the availability of their *Memoirs* and encourag-

ing them to purchase using their author discounts. Late winter is an appropriate time to hold such a 'sale': many authors are federal government employees, the fiscal year ends on March 31 and there may be end-of-year funds.

Action: L. Dosdall

9.2.3.1 Auditors Report.

Financial statements for 1996 were circulated. The 1996 audit was initially tabled in March, 1997 and published in the June 1997 *Bulletin*. On 16 July 1997, it was withdrawn by the Auditors due to an error. The corrected version adds the following to the last sentence of the covering letter (see *Bulletin* 29 (2): 48): "except that they are prepared on a non-proportionate consolidated basis".

9.2.3.2 ESC Headquarters Committee

No report.

9.2.4 Finance Committee

The Finance Committee examined and approved the proposed budget for 1998. Little other activity was required over the reporting period.

9.2.5 Scientific Editors

9.2.5.1 Scientific Editor - *The Canadian Entomologist*

Between the end of September 1996 and early October 1997, over 111 manuscripts were processed. Two Associate Editors, Chris Sanders and Tara Sahota, retired recently and will need to be replaced. An Associate Editor in the area of crop entomology also is required. Three papers have been published in the FORUM section of *The Canadian Entomologist*, and commentaries to the first FORUM article are in press.

With the change to the National Research Council of Canada Press as providing the Technical Editing and Type-Setting services, there has been increased efficiency in handling manuscripts, although there were some delays during the transition. Dr. Kevan noted that the wording inside the front cover incorrectly states that the Publisher of *The Canadian Entomologist* is the NRC Research Press. The Board asked Dr. Kevan to advise NRC that this should be corrected.

Action: P.G. Kevan

Dr. Kevan thanked the Board and Membership for allowing him to be Scientific Editor during the past four years. Dr. J. Turgeon will take over as of 1 January, 1998.

9.2.5.2 Scientific Editor (*Memoirs*)

As of September, 1997, all contributions to a *Memoir* on "*Microbial Control of Grasshoppers and Locusts*", edited by M.S. Goettel and D. Johnson, have been accepted for publication. This, the final *Memoir* (No. 171) will be published before the end of 1997. V. Behan-Pelletier thanked the anonymous reviewers and the office staff at Headquarters, and stated that it has been an honour and a pleasure to serve as Scientific Editor of the *Memoirs*.

The Board suggested that until the final *Memoir* is actually published, the position of Scientific Editor (*Memoirs*) would be retained.

9.2.6 Editor - *Bulletin*

The *Bulletin* is now being printed in the previous 6 by 9 inch size, resulting in substantial cost savings. H. Barclay has been sending some of the contents of the *Bulletin*, to B. Lyons for inclusion on the Web page; this is working well. It was suggested that the email and web site addresses be added to the cover of the *Bulletin*, similar to the cover of *The Canadian Entomologist*.

Action: H. Barclay

9.2.7 Publications Committee

The new Editor of *The Canadian Entomologist* will be Dr. Jean Turgeon, of Natural Resources Canada in Sault-Ste. Marie. Amended "*Instructions to authors*" have been published. Waivers for page charges were granted for two papers, and 21 books were received for review over the past year. The Chair received and granted requests from a number of sources to reproduce information and graphics published in *The Canadian Entomologist*.

M. Goettel asked for advice on how many copies of the final *Memoir* should be printed. After discussion it was decided that the issue would be dealt with by the Publications Committee in consultation with M. Goettel and D. Johnson.

Action: S. Fitzpatrick, M. Goettel, D. Johnson

9.2.8 Nominations Committee

The Governing Board accepted the report of the Nominating Committee. Nominations were:

Second Vice-President:	D. Johnson, D. Coderre
Director-at-Large:	M. Goettel, V. Nealis, J. Stewart

There were no nominations for membership on the Fellowship Committee.

9.2.9 Elections Committee

A total of 179 ballots was counted. The following were elected to office: Dan Johnson, Second Vice-President; Mark Goettel and Vince Nealis, Directors-at-Large.

Dr. D. Eidt was accepted unanimously as an Honorary Member of the ESC. All proposed By-Law changes were accepted.

9.2.10 Fellowship Committee

A call for nominations was published in the *Bulletin* (Vol. 28, No. 4) but none was received.

9.2.11 Achievement Awards Committee

The Board extended congratulations to Dr. Peter Harris, winner of the 1997 Gold Medal, and Dr. Jacques Brodeur, recipient of the 1997 C. Gordon Hewitt Award.

Regarding the Criddle Award the Committee made the following recommendations to the Executive, which accepted them at the April 16, 1997 Executive Council meeting:

a) that the award certificate be framed before it is presented, and

b) that the travel expenses of the recipient be paid for on the same basis as the gold Medal and C. Gordon Hewitt awards.

(Note: these recommendations were approved at the Governing Board meeting of October 8, 1997).

9.2.12 Annual Meeting Committee

9.2.12.1 1997 (Edmonton)

To be held October 4-8 at the Crowne Plaza. Dr. Bruce Heming is serving as General Chair, Drs. John Spence and Jan Volney are organizing the scientific program, and Dr. David Langor is coordinating local arrangements. The theme of this meeting is "*Insects and Mother Earth*". As of today, 220 people have registered, with 80-90 papers and 22-23 posters. The logo shows a grylloblattid on a montane background. Unfortunately, the Linnean games were canceled due to a lack of participants.

9.2.12.2 1998 (Quebec)

The 1998 ESC-ESQ meeting will be held at the Château Frontenac in Québec City, from the 31st of October to the 4th of November. The theme of the 1998 meeting is: Today's basic research, tomorrow's IPM.

A grant application was submitted to the Ministry of Industry, Commerce, Science and Technology within the context of their program promoting the use of French in scientific and technological communication, and the ESQ has been awarded a \$10,000 grant. This grant will be used to publish the scientific program in both official languages, cover expenses of the two invited speakers coming from french-speaking countries and publicize the meeting through different media.

9.2.12.3 1999 (Saskatchewan)

The meeting will be held in Saskatoon. Further details will be published in the *Bulletins* following the ESS Annual meeting in November.

9.2.12.4 Year 2000 Meeting with the Entomological Society of America

J. McNeil, liaison between ESC, ESQ and ESAm., asked the Board to consider what the ESC wishes to have at the year 2000 joint meeting. For example, should there be an ESC-ESQ banquet as at other Annual Meetings? How should the profit or loss be shared? Dr. McNeil needs specific proposals which he can bring to the ESAm. H.V. Danks suggested that a small group be added to Dr. McNeil's already-existing Chair, to gather relevant information and develop options. This group might include the ESC and ESQ Treasurers and one ESC representative might be G. Gerber. Options could be discussed by each Society.

Action: H.V. Danks, J.N. McNeil

It was agreed that Mexican participation should be encouraged, a principle expected to be endorsed by the ESAm. The invitation should come from the ESQ. Whether the Mexicans are

co-hosts or invited participants needs to be decided.

T. Danyk suggested that more detailed program information, such as Symposia speakers, titles, be provided for the web site a month or so in advance of Annual Meetings. There should be good communication between the Organisers of the Annual Meeting and the Web Editor.

Action: J. Delisle, B. Lyons

9.2.13 Bilingualism Committee

Several texts were received for translation during the past year, and all were translated by Committee members at no charge to the Society. A new version of the By-Laws and Standing Rules is in preparation and the translation of both texts may be requested during the coming year. Given the amount of time required for such work, the Committee suggest that the translation be done by professional translators, with members of the Committee revising the final

version. Therefore, it is recommended that the annual budget be increased to \$2500. This recommendation will be discussed under the 1998 budget at the October 8, 1997 Board meeting.

9.2.14 Bylaws, Rules and Regulations Committee

The Bylaws, Rules and Regulations Committee revised the standing Rules and Committee Guidelines of the Society according to the actions taken at 1996 Governing Board Meeting and Annual General Meeting. Since the Headquarters Committee and the marketing committee are new committees, the Governing Board was required to approve the Committee Guidelines for these two Committees. L. Gilkeson moved, H.V. Danks seconded, acceptance of the two sets of Guidelines. Carried

Dr. Marshall noted that eventually the Web Editor might be a Society Trustee like the *Bulletin* Editor. A preliminary draft of the Web Committee guidelines was discussed. A section stating that the Web Editor screen incoming material to protect the interests of the Society, needs to be added. L. Gilkeson moved and H.V. Danks seconded that the contents of the preliminary draft be accepted for review at the AGM.

Carried

Action: G. Gerber, B. Lyons

9.2.15 Heritage Committee

No report. P. Kevan asked if the Board could be informed as to the specific documents the Canadian Archives would like to have.

Action: Chair, Heritage Committee

9.2.16 Insect Common Names and Cultures Committee

E. Belton is to send an updated disk to A. Devine at ESC headquarters.

Action: E. Belton

R. Roughley moved that the ESC stop selling the disk and instead post the information on the web site. The list could be updated annually by the Chair of the Insect Common Names Committee. The motion was seconded by T. Shore.

Carried

Action: E. Belton

It was suggested that a member of the Committee be a systematist from the Eastern Cereal and

Oilseed Research Centre of Agriculture and Agri-Food Canada, if possible.

Action: H.V. Danks

9.2.17 Membership Committee

Dr. Douglas Eidt was elected as an Honorary Member. As of September 1997, the Society has approximately 550 members. A list was distributed in the March 1997 issue of the *Bulletin* (Vol. 29, No. 1), and two copies were sent to the National Library of Canada in compliance with Legal Deposit Regulations.

The Chair asked that a decision be made as to who is responsible for updating the Membership list each year. The Board suggested this duty should rest with the Committee Chair.

Action: D. Langor

Dr. J. Stewart thanked all Committee members for their participation and support. Dr. D. Langor assumes the Chair for 1997-1998. D. Johnson volunteered to prepare and maintain an email list of ESC members.

Action: D. Johnson

9.2.18 Public Education Committee

The Committee received and approved applications for \$200 from the Entomological Society of Saskatchewan (ESS), the Entomological Society of Manitoba (ESM) and the Entomological Society of Quebec (ESQ). Letters of thanks/encouragement were sent to CBC's 'Quirks and Quarks' for their broadcast March 18, 1997 covering the decline of systematics in science and to the Discovery Channel for their continued presentation of programs with entomological focus.

9.2.19 Scholarship Committee

There were six eligible applications for the Postgraduate Award this year. The winners are Cynthia Broberg from Simon Fraser University, Burnaby, BC, working on a wood-boring weevil, and Stephanie Sopow of the University of New Brunswick, Fredericton, working on adelgid gall-formers on white spruce.

Five students applied for the Keith Kevan Scholarship. The winner is Andrew Bennett, of the University of Toronto, who is studying the phylogeny of the ichneumonid subfamily Tryphoninae.

The Committee Chair raised a point of concern re. the Keith Kevan Award. In 1995 and 1997 a majority of applicants were not 'true' systematists but some were studying related fields such as biodiversity. P. Kevan commented that whether an application meets the criteria should be left to the discretion of the Committee, but that the intent of the award is to support systematics primarily in the sense of mainstream taxonomy. Dr. Danks agreed to examine existing rules and discuss the issue with Dr. Kevan. Dr. Soroka will copy relevant documentation to Dr. Danks.

Action: H.V. Danks, P.Kevan, J. Soroka

The 1997-98 Chair of the new Student Awards Committee will be Dr. Staffan Lindgren. This Committee combines the previous Scholarships and Research-Travel Grants Committees.

9.2.20 Research-Travel Grants Committee

No applications were received for this year's available grants. Lloyd Hollett, Chair, thanked this year's Committee members for agreeing to serve the Society in this capacity as well as those members who have served on the Committee for his tenure since 1994. The Board noted that Travel Grants and Scholarships should be advertised on Entomo-L and on the ESC website, and that the Student Affairs Committee should be involved in this.

Action: L. Hooper, S. Lindgren

9.2.21 Science Policy Committee

Two items came to the attention of the SPC this year. First, a letter was sent from the Chair of the SPC to relevant authorities, pointing out the great historical and scientific value of the Criddle homestead at Aweme, Manitoba for entomology. This letter and other submissions helped to ensure that the site would not be sold. The Criddle site is part of Spruce Woods Provincial Park although it is physically separated from the park by a bison ranch and Shilo military base. Second, efforts by the previous SPC Chair to provide input on behalf of entomology to the NSERC's 'Reallocations Exercise' brought the response from NSERC that the ESC should try to have its views incorporated into submissions being prepared by steering committees for each Grant Selection Committee. This potentially cumbersome process was not pursued further.

9.2.22 Student Affairs Committee

The Chair intends to resign and recommended that Laura Hooper replace him. The first edition of the Directory of Entomological Education in Canada has been completed and Barry Lyons has uploaded it onto the home page of the ESC. The SAC asked that Board members inform them of Universities not currently part of the Directory.

Action: Governing Board

The SAC recommended that the Board direct either the Students Awards or Marketing Committee to solicit the corporate sector for funds to establish new scholarships that would be available to Student Members of the ESC. The Board replied that this is already a duty of the Marketing Committee. As the outgoing SAC Chair is a member of the Marketing Committee, he will raise the issue with the Committee.

Action: T. Danyk

9.2.23 Marketing Committee

Activities by the Marketing Committee in 1997 largely have been restricted to developing five pamphlets advertising the availability of ESC *'Memoirs'*. Each pamphlet lists *'Memoirs'* in one of the following categories: 'Coleoptera', 'Lepidoptera', 'Hymenoptera', 'Diptera/Hemiptera', and 'Miscellaneous Topics'.

Marketing of the book "*Diseases and Pests of Vegetable Crops in Canada*" continues. Approximately 288 copies were sold in 1997: the inventory of DPVCC now contains about 1,760 copies of softcover English, 29 copies of hardcover French, and 894 copies of softcover French. The Board wondered whether the Committee has made a point of sending the book out for review and using favorable reviews for publicity purposes? It was suggested that the French and English covers, order forms and *Memoirs* brochures (with prices attached), be placed on the web site.

Action: L. Dosdall, B. Lyons

An email had been received by the Secretary from Denise McCall, Marketing Coordinator for the Entomological Society of America, offering to display ESC publications at the upcoming ESAm meeting. D. Langor moved that the ESC initiate a reciprocal arrangement with ESAm for display of materials for 1997. Seconded by H.V. Danks, the motion was

Carried.

Action: L. Dosdall

9.2.24 ESC Website

The ESC website has undergone many changes since the last report to the Governing Board. Six modules were described in the last report. Since that time, Hugh Danks submitted the following modules: "*History of the Entomological Society of Canada*", "*Information about Entomology in Canada*", "*Roles of the Entomological Society of Canada*", "*Membership Application*", and a list of "*Committees and Representatives*". "*Newsletter Articles*" and "*Positions Available*" are also available on the website.

The most significant change in the website was its conversion to a bilingual format. The homepage and associated HTML files for the Biological Survey of Canada (Terrestrial Arthropods) is also accessible from a button on the ESC homepage.

It was suggested that members, especially of the Governing Board, should be on the look-out for material to submit to the website. Meeting dates, positions available and WWW links of interest to members should be forwarded to the Chair on this site. The Chair will write an article for the *Bulletin* giving background information and soliciting articles.

Action: B. Lyons, Governing Board

9.2.25 Regional Entomological Societies

The 57th meeting of the Acadian Entomological Society (AES), was held in August in Kentville, N.S. Approximately 40 members participated and the theme was '*Semiochemicals... status and potential in pest management*'.

The Entomological Society of Quebec (ESQ) initiated a website ('<http://ecoroute.uqcn.qc.ca/group/seq/index.html>'). In the fall of 1998, Quebec will be choosing a provincial insect. The 1996 meeting of the ESQ was held in October in Quebec City with the theme '*Biological control of pests: interaction, interference and synergism*'.

The website of the Entomological Society of Ontario (ESO) has undergone a significant facelift and can be visited at '<http://www.utoronto.ca/forest/eso>'. Volume 127 of the Proceedings of the ESO, a memorial issue dedicated to Don Wallace, was published in December 1996. The 1997 ESO meeting will be held in early November in London.

The highlight of the summer for members of the Entomological Society of Manitoba (ESM) was an August expedition to the Cretaceous amber beach near Easterville, Manitoba. A number of small pieces of amber was collected, some of which contained insects. The 53rd Annual Meeting of the ESM will be held in Winnipeg in early November.

The Entomological Society of Saskatchewan (ESS) has been busy assisting in the production of the Canola Pest Management video series. The initial volume is now available and the remaining three will be ready by February 1998. Preliminary planning for the 1999 joint ESC-ESS meeting is underway.

An amateur award in entomology was established at the 44th Annual Meeting of the Entomological Society of Alberta (ESA) in Lethbridge in November 1996. The popular Insect Collectors Guide has been revised and will soon be available free from any ESA member. The 45th Annual Meeting is joint with the ESC.

The Entomological Society of British Columbia (ESBC) will hold its annual meeting in late October 1997 at Agassiz. The main project for the coming year is the creation of an ESBC home page for the world-wide web.

9.3 *Other Business*

9.3.1 Registering with CANCOPY to increase royalty payments to the ESC

CANCOPY is a non-profit organisation established by Canadian artists, writers and publishers to administer their reproduction rights, including photocopying rights. If ESC was a member of CANCOPY, they would represent our publications through licences for photocopying. The Board discussed the background and implications of the issue and outlined some concerns which should be addressed before we join. Concerns include implications of the indemnification clause; journal vs individual copyright; how CANCOPY determines library charges. The Publication Committee will consider these issues. G. Gibson will send copies of CANCOPY agreements to S. Fitzpatrick.

Action: S. Fitzpatrick, G. Gibson

- 9.3.2 a) Request from SEQ for funding the list of Lepidoptera of Quebec
b) Establishing guidelines for donating funds to authors, editors or publishers of books on entomology in Canada

Currently, requests for donations to assist with publishing are considered on a case-by-case basis by the Governing Board. As the number of such requests are increasing, guidelines may be needed to ensure consistency of response. The Publications Committee will look into the issue and formulate draft guidelines for Board consideration. H.V. Danks noted that existing guidelines for page charge waivers may provide useful information.

Action: S. Fitzpatrick

Regarding the specific request from the ESQ, R. Smith moved that in the absence of appropriate rules, which the Publications Committee will develop, the ESC, from the C.-P. Alexander Fund, as a one-time only donation, make a \$500 donation to the ESQ for publication of a list of Lepidoptera from Quebec. S. Fitzpatrick seconded the motion, which was

Carried. Action: G. Gibson

9.3.3 Formula for division of profits (if any) at Annual Meetings

The Finance Committee had been asked to provide recommendations on this issue to the 1997 Executive Council meeting but no recommendations were received. Incoming President Danks will ask the 1997-98 Finance Committee to provide recommendations fair to all concerned. Discussion at the 1996 Board meeting included T-shirt sales and sponsorship donations as items to consider.

Action: H.V. Danks, J. O'Hara

9.3.4 Suggestion that ESC Committees be more widely advertised and have automatically rotating chairmanships

Due to differing lengths of terms, automatically rotating Chairs would be difficult to organize. It was agreed that advertising the Committees and the possibility that interested members could join them, is a good idea. Some suggestions for advertising include annual articles on the

website and in the *Bulletin* and enclosing a form which interested members could fill in, in the *Bulletin* and with the end of year Membership renewals. Regional representatives should publicize this at Annual meetings and in the newsletters and/or websites of their Societies.

Action: H. Barclay; H.V. Danks and L. Gilkeson; Regional Directors

9.3.5 Cornell University request to add 5 years of *The Canadian Entomologist* to their Essential Electronic Library for the third world

This item was referred to the Publications Committee for further discussion. Some concerns include how to ensure the CD Rom would have restricted use, and the legal implications of the issue.

Action: S. Fitzpatrick

Date and place of next meeting

The next meeting of the Governing Board will be held at the Crowne Plaza in Edmonton at 12:00 on October 8, 1997.

Adjournment of meeting President Marshall adjourned the meeting at 17:00, 4 October 1997, following a motion by B. Lyons, seconded by R. West.

MINUTES

47th Annual General Meeting Crowne Plaza Hotel Edmonton, Alberta October 7, 1997

President S.A. Marshall called the meeting to order at 17:30 h. Fifty members were present.

1. Notice of Meeting

Notices of the meeting were published in the March, June and September 1997 issues of the *Bulletin* (Vol. 29).

2. Proxies

There were no proxies.

3. Additions to the Agenda and Approval of the Agenda

M. Goettel moved and S. Fitzpatrick seconded that the agenda be accepted. There were no additions.

Carried

No action required

4. Deceased Members of the Entomological Community

A moment of silence was observed in memory of the following members of the Entomological Community who passed away since the last annual meeting: John Barron, David Dyer, Bas Furgala, Janice Gillespie, William Haliburton, James Marshall and Frank Morris. P.L. Dixon



Incoming President Hugh Danks presenting award to former President Steve Marshall

thanked Ed Becker for writing letters of condolence to the families of the deceased.

5. ***Minutes of the 46th Annual General Meeting***

Minutes of the 46th Annual General Meeting were printed in the December 1996 issue of the *Bulletin* (Vol. 28).

S. Fitzpatrick moved and I. Otvos seconded that the minutes be accepted.

Carried No action required

6. ***Business Arising from the Minutes***

There was no business arising from the previous minutes.

7. ***Report from the Governing Board***

President Marshall presented a report on behalf of the Governing Board. The report from the Governing Board and regular updates are published in the *Bulletin*. This particular report will be published in the December, 1997 *Bulletin* (Vol. 29). Highlights: the appointment in January 1998 of a new Scientific Editor for *The Canadian Entomologist* (Dr. J. Turgeon) and the fact that the final Memoir, number 171, will be published in the next few months.

8. ***Auditor's Report***

G. Gibson presented the Auditor's Report for 1996 as published in the June 1997 issue of the *Bulletin* (Vol. 29). The original report, dated March 1996, was withdrawn in order to include a statement relevant to the audit for the book "*Diseases and Pests of Vegetable Crops in Canada*". A revised version, dated July 1997, was presented. G. Gibson moved and L. Safranyik seconded that the revised Auditor's report be accepted.

Carried No action required

9. ***Elections Committee Report***

P. Dixon read the Elections Committee report. Those elected were: Dan Johnson, Second Vice-President; Vince Nealis and Mark Goettel, Directors-at-Large. The four By-Laws changes on the ballot were approved as well.

10. ***Installation of Officers***

The President called on G. Boivin to escort Dan Johnson, Second Vice-President, to the dias. President Marshall turned the gavel over to H.V. Danks as incoming President of the Entomological Society of Canada. The new President accepted the gavel and thanked the Members for the honour of being elected President.

11. ***Presentation of Service Awards***

President Danks thanked S.A. Marshall, outgoing President, for his service to the Society and presented him with a service award. P. Kevan was also presented with a service award as thanks for his term as Scientific Editor of *The Canadian Entomologist*.

12. **Appointment of Auditor**

G. Gibson moved and E. Becker seconded that McCay, Duff, and Company be retained as Auditors for 1997.

Carried

Action: G. Gibson

13. **Resolutions**

At the request of President Danks, J. Sweeney presented the following resolutions on behalf of the Entomological Society of Canada:

Thanks to organizing committee

"Whereas the 1997 Annual Meeting of the Entomological Society of Canada and the Entomological Society of Alberta have met at the Crowne Plaza Hotel in Edmonton, October 4-8, 1997; and

Whereas there has been a full and interesting meeting of lectures, symposia, and papers; and

Whereas the meeting has been planned with care and concern for those attending; and

Whereas there has been ample opportunity for social interaction and visits to Edmonton and surrounding areas;

Be it resolved that the Entomological Society of Canada express its sincere thanks to the Organizing Committee for their hard work and skill in arranging a worthwhile and entertaining program; and

Be it further resolved that the Society thank the Organizing Committee and meeting contributors for their generous assistance; and

Be it further resolved that the Society express its thanks to the Management and Staff of the Crowne Plaza Hotel for their courteous assistance during the Meeting."

J. Sweeney moved and R. West seconded that the resolutions be accepted.

Carried

Action: P.L. Dixon

14. **New Business** nil

15. **Notice of 48th Annual General Meeting**

The 48th Annual General Meeting will be held at the Chateau Frontenac in Québec City, on November 3, 1998. Further notices for the meeting will be published in the March and June 1998 issues of the *Bulletin* (Vol. 30).

Action: P.L. Dixon

16. **Adjournment**

President H.V. Danks adjourned the 47th Annual General Meeting at 17:50 h following a motion by L. Safranyik, seconded by J. Shorthouse.

Carried

MINUTES

Governing Board Meeting, October 8, 1997

Crowne Plaza Hotel

Edmonton, Alberta

The meeting was called to order at 1200 hours on October 8, 1997 by President H.V. Danks. Those present were H.V. Danks, President; L. Gilkeson, First Vice-President; D.L. Johnson, Second Vice-President; S.A. Marshall, Past-President; R. West, L. Dosdall, J. Spence, M. Goettel, Directors-at-Large; T. Shore (ESBC), K. Moore (ESS), R. Roughley, (ESM), B. Lyons (ESO), J. Brodeur (SEQ), and R. Smith (AES), Directors from Affiliated Societies; G. Gibson, Treasurer; P.G. Kevan, Scientific Editor-*The Canadian Entomologist*; P.L. Dixon, Secretary; L. Hooper, Student Affairs Committee.

1. ***Notice of Meeting***

Notice of this meeting was mailed on August 15, 1997 and given at the Board Meeting of October 4, 1997.

2. ***Absences and Proxies***

H. Barclay, V. Behan-Pelletier, S. Fitzpatrick and V. Nealis were absent; R. Roughley was proxy for the Entomological Society of Manitoba.

3. ***Additions to and approval of the Agenda***

Items added to the agenda are listed below under 'Business arising from previous Governing Board meeting' and 'New Business'. The revised agenda was accepted following a motion made by R. West and seconded by J. Spence.

Carried

No action required

4. ***Minutes of Previous Governing Board Meeting***

Minutes of the Governing Board meeting held on October 4, 1997 will be circulated to the Board by the Secretary in November, and published in the December *Bulletin*.

No action required

5. ***Business Arising from Previous Governing Board Meeting***

i. A motion to advise the Elections Committee Chair to destroy the 1997 ballots was made by B. Lyons and seconded by L. Gilkeson.

Carried

Action: P.L. Dixon

ii. The recommendations regarding the Criddle Award made in the annual report of the Achievement Awards Committee were approved following a motion by J. Spence, seconded by D.L. Johnson.

Carried

Action: G. Gerber

6. ***Other Business***

6.1 ***Appointments***

6.1.1. Executive Council

D. Langor moved and R. West seconded that the Executive Council for 1997-98 be: H.V. Danks, President; L. Gilkeson, First Vice-President; D.L. Johnson, Second Vice-President; S.A. Marshall, Past-President.

Carried No action required

6.1.2. Trustees

M. Goettel moved and T. Shore seconded that the Trustees for 1997-98 be:

Treasurer: G. Gibson

Scientific Editor (*The Canadian Entomologist*): P.G. Kevan (until December 31, 1997)
J. Turgeon (effective January 1, 1998)

Scientific Editor (*Memoirs*): V. Behan-Pelletier (until publication of final *Memoir*)

Bulletin Editor: H. Barclay

Secretary: P.L. Dixon (until a new Secretary is appointed)

Carried No action required

6.1.3. Committees and Representatives

J. Spence moved and R. West seconded that the Governing Board approve the list of Committees and Representatives as prepared by the President and further that the Governing Board accept the President's appointees to remaining positions to be filled.

A list of Committee Chairs for 1997-1998 was discussed. Chairs of all but two Committees are members of the Governing Board, as recommended by the Strategic Review. In those cases, the Finance Committee Chair should be from the Ottawa area, and the By-Laws, Rules & Regulations Committee Chair needs to have experience in and enthusiasm for the subject. The President will write to all Committee Chairs and Representatives confirming their appointment for 1997-1998.

Carried Action: H.V. Danks

The Secretary will send terms of reference and Committee Guidelines to all Chairs.

Carried Action: P.L. Dixon

6.2 *Budget*

L. Gilkeson and D. Langor seconded that the budget for 1998 as presented by the Treasurer, be approved.

Carried Action: G. Gibson

7. *New Business*

i) Revised Standing Rules and Committee Guidelines: The President consulted the Board on some final details. A final draft will be circulated to Governing Board members for comment in the next two months.

Action: H.V. Danks, P.L. Dixon

ii) Award Brochures: The President mentioned an idea proposed by C. Cloutier that the Gold Medal and Hewitt Award winner brochures distributed at Annual meetings include information on the purpose of each Award. This was agreed to. Dr. P.G. Kevan suggested that press releases on the winning candidates could be distributed to the media in the winner's hometown.

In some cases, such as in 1997 when the Gold Medal winner, Dr. P. Harris also was presented an Order of Canada, national media such as Maclean's magazine could be contacted.

Action: L. Gilkeson (Achievement Awards)

iii) Annual Meeting in 2001: The ESC received an invitation from the Canadian Botanical Association (CBA) to hold a joint meeting at the Okanagan University College in B.C. in 2001. After discussion it was clear that there are a number of problems with the proposal: CBA meetings are held in the spring; there was concern that the opportunity for entomological interaction would be diluted; and the 2001 annual meeting is scheduled to be held in Manitoba, not British Columbia. The President will write to the organizers, expressing the Society's appreciation of the invitation, and suggesting that a joint meeting with the ESBC might be more feasible. T. Shore will bring the issue to the ESBC.

Action: H.V. Danks, T. Shore

iv) J. Spence questioned whether annual meetings might be lengthened, for example to start the program on Sunday instead of Monday. The Board felt that this is an option every year and is at the discretion of the Organizing Committee.

8. *Next Meeting*

The next meeting of the Governing Board will be held on 31 October 1998, at the Château Frontenac in Québec City.

9. *Adjournment*

The meeting was adjourned by President H. V. Danks at 13:05 h following a motion by L. Gilkeson, seconded by R. West.

Carried.

PERSONALIA

**Entomological Society of Canada Gold Medal
for Outstanding Achievement in Canadian Entomology
1997
presented to
DR. PETER HARRIS
at Edmonton, Alberta, October 6, 1997**

The 1997 recipient of the Entomological Society of Canada's Gold Medal for outstanding achievement in entomology is Dr. Peter Harris.

Dr. Harris was born in Cambridge, England, and emigrated to Canada in 1950. He received a Bachelor of Science of Forestry from the University of British Columbia in 1955. He received a Diploma of Imperial College (D.I.C.) of Science and Technology, London, in 1958. From 1959 to 1972 he was employed as a Research Officer and subsequently a Research Scientist with the Agriculture Canada laboratory in Regina, Saskatchewan, and in 1992 transferred to Lethbridge, Alberta, where he currently resides. although officially retired in 1995, Dr. Harris has maintained an active research program and was appointed an Emeritus Scientist in 1997. Dr. Harris married L.M. Irene Young in 1957, and has three children and seven grandchildren.

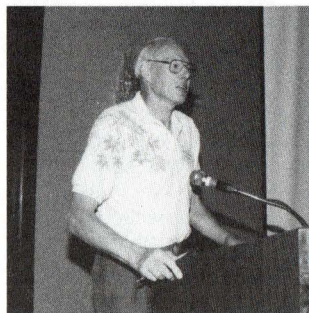
Dr. Harris has made many important contributions to entomology in general and weed

biological control in particular. As a result of Dr. Harris's efforts, the Canadian weed biocontrol program is recognised as one of the world's most successful. Through his efforts, he has organized tremendous public, political, and scientific support for weed biological control, both nationally and internationally. His research encompasses both the theoretical and practical aspects of weed biocontrol. He has been involved with the importation, screening, release and impact assessment of 36 insect and one nematode biocontrol agents. Of these, 26 have become established and some have proved dramatically effective. Introduction of the nodding thistle seed-head weevil reduced the status of nodding thistle in Canada from that of a major problem to one of ephemeral occurrence on disturbed sites. This is now recognised as the world's third most successful weed biocontrol project in terms of impact and the area affected.

Introduction and successful establishment of two species of beetles for control of St. John's-wort in Ontario resulted in substantial suppression of this weed. He also introduced insects that significantly reduced tansy ragwort, in both British Columbia and the maritime provinces. As a result of these efforts, several provinces have removed the above weeds from their noxious weeds list. The release and establishment of 10 insect species on diffuse and spotted knapweeds in British Columbia has resulted in decline of both these rangeland weeds. Leafy spurge is also declining in the drier parts of the Prairie provinces following the establishment of two species of root-feeding beetles; several other recently introduced species show promise for control of leafy spurge in moister areas. Using a promising agent for biocontrol of Canada thistle as a test case, Dr. Harris recently devoted considerable effort to developing a new protocol using a risk analysis approach to address these concerns. Dr. Harris is currently co-operating with a rhizosphere microbiologist to examine the mycorrhizal relationships of knapweed. It appears that knapweed establishes much more easily on sites previously occupied by knapweed than on naive (previously uninfested) soil as is evidenced by the rapid reinvasion by this weed following chemical control. It also appears that the insects having the most impact on the knapweed are those that have the most detrimental indirect effect on the associated mycorrhizae.

Dr. Harris's international stature is evidenced by requests to review programs, chair symposia, present invited papers, serve on scientific advisory boards, and to act as supervisor, advisor, and external examiner for numerous graduate students. He has given addresses to the International Congress of Entomology (1976), the German Academy of Science Symposium on Biological Plant and Health Protection, and invitational addresses to the Entomological Society of America Annual Meetings. He has lectured and consulted on weed biocontrol at the University of Bayreuth, Germany; toured South Africa to advise on weed biocontrol; advised the USSR Academy of Science on the biocontrol of ragweed; guest lectured in China under the UN Distinguished Persons (UNDP) Program to advise on biocontrol issues; and has advised and lectured in Australia and Brazil.

Dr Harris has been inducted as a Fellow of the Entomological Society of Canada, awarded the Commemorative Medal for the 125th Anniversary of Canadian Confederation, and was the recipient of a Special Award of the Canadian Forum for Biological Control. In 1997, he was also appointed a member of the Order of Canada.



Dr. Peter Harris giving the Gold Medal Address

**Medaille d'Or de la Société d'Entomologie
DU CANADA
pour souligner la contribution exceptionnelle en entomologie canadienne 1997
présente a
DR. PETER HARRIS
à Edmonton, Alberta, le 6 octobre, 1997**

La Médaille d'Or, attribuée par la Société d'entomologie du Canada à un chercheur pour ses réalisations remarquables dans le domaine de l'entomologie, est décernée en 1997 au Dr. Peter Harris.

Le Dr. Harris, né à Cambridge en Angleterre, a émigré au Canada en 1950. En 1955, il obtient un Baccalauréat en Foresterie de l'Université de Colombie-Britannique. En 1958, il a obtenu à la fois un Diplôme en Science et Technologies (D.I.C.) du Collège Impérial de Londres ainsi qu'un Ph. D. en entomologie de l'Université de Londres. De 1959 à 1972, il a travaillé pour Agriculture Canada à Belleville en Ontario, d'abord comme professionnel de recherche et ensuite comme chercheur scientifique. Toujours à l'emploi d'Agriculture Canada, il a effectué ses travaux de recherche à Regina, Saskatchewan, de 1972 à 1992. En 1992, il est transféré à Lethbridge, Alberta, où il réside depuis. Bien qu'il soit officiellement à la retraite depuis 1995, le Dr. Harris continue ses activités de recherche et a été nommé Chercheur Émérite en 1997. Le Dr. Harris est marié à Mme L. M. Irene Young depuis 1957; ils ont trois enfants et sept petits-enfants.

Le Dr. Harris a grandement contribué à l'avancement de la recherche dans le domaine de l'entomologie, en particulier celui du contrôle biologique des mauvaises herbes. Grâce à ses efforts soutenus, le programme canadien de lutte biologique des mauvaises herbes est reconnu comme étant l'un des plus performants au monde. Le Dr. Harris a su développer d'importants appuis publics, politiques et scientifiques pour la lutte biologique aux mauvaises herbes, et ce, d'un point de vue national et international. Ses recherches couvrent autant les aspects théoriques que pratiques du contrôle biologique des mauvaises herbes. Le Dr. Harris s'est impliqué au niveau de l'importation, de la sélection, de l'introduction et de l'évaluation des impacts de 36 insectes et d'un nématode, tous ayant un potentiel comme agents de lutte biologique. De ces 37 espèces, 26 se sont établies et quelques unes ont démontré une efficacité surprenante. L'introduction du charançon du chardon penché a fait passer le statut de cette mauvaise herbe de problème majeur à celui de négligeable au Canada. Ce programme de lutte biologique est maintenant reconnu comme étant le troisième plus efficace au monde en termes d'impact et de super-ficé protégée.

L'introduction et l'établissement de deux espèces de coléoptères pour le contrôle du millepertuis en Ontario ont permis la suppression substantielle de cette mauvaise herbe. Le Dr. Harris a également introduit des insectes qui ont réduit de façon significative la tansie jacobée en Colombie-Britannique et dans les provinces maritimes. Grâce à ces efforts acharnés, plusieurs provinces ont retiré les plantes ci-haut mentionnées de leur liste des mauvaises herbes jugées indésirables. L'introduction et l'établissement en Colombie-Britannique de 10 espèces d'insectes contre les deux espèces de centauree ont contribué à réduire les populations de ces mauvaises herbes. L'euphorbe érule est aussi contrôlé dans les zones arides des Prairies grâce à l'établissement de deux espèces de coléoptères se nourrissant des racines. Introduites depuis peu, plusieurs autres espèces démontrent du potentiel pour le contrôle de l'euphorbe érule en milieu plus humide. Utilisant un agent de lutte prometteur pour le contrôle du chardon du Canada comme modèle expérimental, le Dr. Harris a concentré plus récemment ses efforts dans le développement d'un nouveau protocole, basé sur une analyse de risques, pour le biocontrôle des mauvaises herbes. Le Dr. Harris travaille actuellement en coopération avec un microbiologiste spécialiste

des rizosphères pour examiner les relations entre la centauree et ses mycorrhizes. Il semblerait que les centaurees s'établissent beaucoup plus facilement sur un site précédemment infesté que sur un site non infesté comme le démontre les réinvasions de cette mauvaise herbe suite à un traitement chimique. De plus, il semblerait que les insectes ayant le plus d'impact sur les centaurees sont ceux qui ont les effets indirects les plus marqués sur les mycorrhizes associées.

Au fil des années, le Dr. Harris a acquis une renommée internationale. Il est régulièrement sollicité pour réviser des programmes, présider des symposia, présenter ses travaux, faire partie de comités de scientifiques, superviser, conseiller et évaluer les thèses de nombreux étudiant(e)s gradué(e)s. Il a été conférencier invité au Congrès international d'Entomologie (1976), au Symposium sur la protection phytosanitaire à l'Académie des Sciences de l'Allemagne, de même qu'aux rencontres annuelles de la Société Américaine d'Entomologie. Il a enseigné le contrôle biologique des mauvaises herbes comme professeur invité à l'Université de Beyreuth en Allemagne, et agi comme consultant dans plusieurs autres pays du monde dont, l'Afrique du Sud, la Russie, la Chine, l'Australie et le Brésil.

Le Dr. Harris fut nommé Membre Associé de la Société d'Entomologie du Canada, décoré de la Médaille Commémorative pour le 125e anniversaire de la Confédération canadienne et récipiendaire du prix Spécial du Forum canadien pour la lutte biologique. En 1997, il fut également nommé Membre de l'Ordre du Canada.

**Entomological Society of Canada C. Gordon Hewitt Award
for Outstanding Achievement in Canadian Entomology, 1997**

Presented to

JACQUES BRODEUR

at Edmonton, Alberta, October 6, 1997

The 1997 recipient of the Entomological Society of Canada's C. Gordon Hewitt Award is Dr. Jacques Brodeur, professor in the Département de phytologie, Faculté des Sciences de l'Agriculture et de l'Alimentation, Université Laval.

Jacques Brodeur was born in 1959 in Quebec City, P.Q., where he subsequently completed his primary and secondary education. He undertook undergraduate studies at the Université de Québec à Rimouski and received a B. Sc. in Biology in 1985. Jacques then enrolled at l'Université Laval where he completed his Ph. D., with Jeremy McNeil, in 1990. He subsequently spent two years as a Post Doctoral Fellow with Louise Vet in the Department of Entomology at the University of Wageningen, Holland before accepting a position in the Département de phytologie, where he now holds the rank of Associate Professor.

Jacques has developed a very active research programme on both the basic and applied aspects of host-parasitoid interactions, a field where he has already made very significant contributions. In fact his first published paper, which appeared in *Science*, provided the first experimental evidence that parasitoids manipulate host behaviour and that the physiological state of the parasitoid may effect the type of host behaviour expressed. Subsequently, he was the first to demonstrate that the manipulation of host behaviour may be extended beyond the intimate physical association of the parasitoid and its host. He has currently extended his research to include intra-guild interactions, addressing questions of basic ecological interest that have considerable implications for the biological control of pest species. In addition, he has developed an exciting project examining the biology and ecology of a fungus that has the capacity to develop in both fungal pathogens and insects. This fungus not only has considerable potential for the biological control of both pathogens and insects within the same cropping system, it offers an excellent

model for basic research on the chemical and biochemical factors involved in fungal host specificity. To date Jacques has authored or co-authored 25 refereed papers in international journals and his work is well recognized by research community. This is evidenced by the fact that certain aspects of his research have been used as case histories in text books on behaviour and evolution, that he is regularly invited as a symposium speaker at international meetings, and that he repeatedly asked to act as referee by scientific journals and granting agencies.

The excellence of Dr. Brodeur's research programs, as well as his personal concern for the students working under his direction, makes his laboratory an excellent environment for graduate training. Jacques has had three M. Sc. students finish and he currently has 2 M. Sc. and 3 Ph. D. student's in his group. In addition he is the co-supervisor of an additional 3 M. Sc. and 1 Ph. D. students. His enthusiasm and dedication to teaching is not limited to the graduate level, for his courses in integrated pest management are greatly appreciated by undergraduate in Agronomy.

Jacques has also made a significant contributions to learned Societies, serving first as a Director of the Entomological Society of Quebec and then as the ESQ representative to the Entomological Society of Canada. He is currently serving as an Associate Editor of BioControl. In addition, he has chaired committees organizing symposia in areas as diverse as animal behaviour and alternate practices for plant production.

Through his outstanding research, enthusiasm and excellence as a teacher, as well as his willingness to contribute to the general scientific community, Jacques has clearly distinguished himself as one of the most talented young entomologists in Canada today. The Entomological Society of Quebec recognized his contributions by awarding him the Prix Léon Provancher in 1996, and it is with considerable pleasure that the Entomological Society of Canada awards the C. Gordon Hewitt Award to Dr. Jacques Brodeur for his outstanding achievements in Canadian Entomology.

**Société d'entomologie du Canada prix C. Gordon Hewitt
pour souligner la contribution exceptionnelle en entomologie
canadienne
présenté à
JACQUES BRODEUR
à Edmonton, Alberta, le 6 octobre, 1997**

Le Prix C. Gordon Hewitt de la Société d'entomologie du Canada est décerné en 1997 au Dr. Jacques Brodeur, professeur au département de Phytologie de la Faculté des Sciences de l'Agriculture et de l'Alimentation, Université Laval.



Jacques Brodeur receiving the Gordon Hewitt Award from Steve Marshall

Jacques Brodeur est né en 1959 à Québec, P. Q., où il a effectué ses études primaires et secondaires. Il a entrepris des études sous-graduées à l'Université du Québec à Rimouski où il obtient un B. Sc. en Biologie, en 1985. Par la suite, Jacques s'est inscrit à l'Université Laval où il compléta un Ph.D en 1990, sous la direction de Jeremy McNeil. Au cours des deux années suivantes, il effectua un stage post-doctoral chez Louise Vet au département d'entomologie de l'Université Wageningen en Hollande, avant de se joindre au département de Phytologie de l'Université Laval, où il occupe présentement un poste comme professeur agrégé.

Le programme de recherche de Jacques couvre les aspects appliqués et fondamentaux des interactions hôte-parasitoïde, un domaine auquel il a déjà fait des contributions importantes. En fait, son premier article scientifique, paru dans la revue Science, fut le premier à démontrer que les parasitoïdes peuvent manipuler le comportement de leur hôte et que le type de comportement

exprimé par l'hôte peut être déterminé par la physiologie du parasitoïde. Par la suite, il démontra que cette manipulation du comportement se continuait bien au-delà de l'étroite relation physique

unissant le parasitoïde à son hôte. Depuis, il a étendu ses recherches aux relations intra-guildes, posant des questions écologiques à caractère fondamental mais dont les incidences peuvent être considérables pour le contrôle biologique des insectes nuisibles.

Il a aussi développé un fort intéressant projet sur la biologie et l'écologie d'un champignon ayant la particularité de se développer tant dans les champignons pathogènes que les insectes. Non seulement, ce champignon offre du potentiel en lutte biologique contre les pathogènes et les insectes nuisibles associés aux mêmes cultures, mais il constitue un excellent modèle pour étudier les facteurs chimiques et biochimiques impliqués dans la spécificité des champignons pour leurs hôtes. À ce jour, Jacques a signé ou co-signé 25 articles, tous publiés dans des journaux scientifiques à comité de lecture, et son travail est bien connu du milieu de la recherche. En effet, certains aspects de sa recherche font l'objet de citations dans des ouvrages de référence portant sur le comportement et l'évolution, il est régulièrement invité à prononcer des conférences lors de symposiums organisés dans le cadre de congrès internationaux et il est souvent sollicité pour réviser des articles scientifiques ou des demandes de subvention.

La qualité des recherches menées par le Dr. Brodeur, autant que l'attention qu'il porte aux étudiants qu'il dirige, font de son laboratoire un excellent milieu pour la formation des gradués. Jusqu'à maintenant, Jacques a supervisé 3 étudiants à la maîtrise et il dirige présentement 2 étudiants à la maîtrise et 3 au doctorat. Il est aussi co-directeur de 3 autres étudiants à la maîtrise et de 1 au doctorat. Son enthousiasme et son dévouement ne se limite pas qu'à l'enseignement au niveau gradué, puisqu'il donne aussi des cours sur la lutte intégrée contre les insectes nuisibles qui sont grandement appréciés par les étudiants sous-gradués en Agronomie.

Jacques a aussi oeuvré au sein de sociétés savantes, d'abord comme directeur régional de la Société d'entomologie du Québec et ensuite comme représentant de la SEQ auprès de la Société d'entomologie du Canada. Il est actuellement éditeur associé de BioControl. En plus, il a organisé des symposia dans des domaines aussi variés que le comportement animal et les pratiques alternatives de productions végétales.

De par l'originalité de ses recherches, son enthousiasme et son excellence comme enseignant ainsi que son implication au sein de la communauté scientifique, Jacques s'est nettement distingué comme étant l'un des plus talentueux jeunes entomologistes au Canada. La Société d'entomologie du Québec a déjà reconnu ses mérites en lui attribuant le Prix Léon Provancher en 1996 et c'est avec grand plaisir que la Société d'entomologie du Canada lui décerne le prix C. Gordon Hewitt en reconnaissance de l'excellence de ses réalisations dans le domaine de l'entomologie canadienne.

Manfred Mackauer's Retirement

BioSciences hosted a party on the occasion of Manfred Mackauer's retirement, September 18th 1997. Many of Manfred's students and former students attended as well as current and former faculty members and many of BioScience's support staff. His wife, Ingrid, also attended and there were many gifts and speeches with some very interesting slides of the early days at SFU.

Manfred was born in Wiesbaden in Germany. He studied at the University of Frankfurt and obtained his Dr. Phil. nat. (Magna cum Laude) in 1959. He became a Research Associate in the Department of Zoology from 1959-61. Then he and his family left Germany for Canada where

they have remained. Manfred became a Research Scientist at the "Bug House" (Agriculture Canada's Research Institute for Biological Control) in Belleville, Ontario. Six happy years were spent on the shores of the Bay of Quinte. In 1967 a group of Belleville scientists was lured to SFU

to help with teaching and setting up the "Pestology Centre". Manfred and Ingrid and their daughter, Cornelia, moved first to North Vancouver and a few years later to West Vancouver. Manfred continued some of the research he had begun in Belleville and taught several different courses at SFU. He was Chair of BioSciences from 1976 to 1981 and became Director of the Centre for Pest Management for the next ten years. In addition to his research and teaching commitments and supervising students, Manfred has also been Acting Dean of Science on several occasions, a member of SFU's Senate and President of the Faculty Association. He has been a member, and on the Executive, of numerous Societies and Committees outside SFU and has received many honours over the years, including a Fellowship of the Entomological Society of Canada in 1978 and their Gold Medal for Outstanding Achievement in Canadian Entomology in 1989.

His research has mainly been on insect parasites and the control of agricultural pests. He has written several books and more than 100 papers, mostly about aphids and the parasitic Aphidiidae and has supervised scores of students. More about Manfred's research is on his web page : <http://www.biol.sfu.ca/faculty/mackauer/mackauer.html>.

His retirement is well-earned and we hope it will be happy and productive.

Peter & Elspeth M. Belton, Burnaby

Obituary

Basil Furgala

Basil (Bas) Furgala died on 11 May 1996 in Minnesota. He received his B.S. and M.S. from the University of Manitoba (1953, 1954) and a Ph.D from the University of Minnesota (1959). He was a Research Scientist with Agriculture Canada from 1959 to 1967 and then returned to the University of Minnesota as an Associate Professor of apiculture.

His career focused on research designed to aid the beekeeping industry of Minnesota, including epidemiology and chemotherapy of nosema and viruses affecting honeybees, sunflower and legume pollination, queen evaluations and investigation of the honeybee tracheal mite. He was well known for his work on colony management systems including techniques for successful overwintering of honeybee colonies in the upper midwest.

When Bas retired in 1987, Minnesota Hobby Beekeepers Association established the Basil Furgala Scholarship Fund at the University of Minnesota. Bas is survived by his wife, a daughter, two sons and four grandchildren.

From the American Society of Entomology

NEWS OF ORGANIZATIONS

International Commission on Zoological Nomenclature

Applications published in the Bulletin of Zoological Nomenclature

The following Applications were published on 30 September 1997 in Vol. 54, Part 3 of the Bulletin of Zoological Nomenclature.

- Case 3002 *Papilio camillus* Fabricius, 1781 (currently *Cyrestis camillus*) and *Limenitis reducta* Staudinger, 1901 (Insecta, Lepidoptera): proposed conservation of the specific names

Torben B. Larsen

358 Coldharbour Lane, London SW9 8PL, U.K.

Abstract. The main purpose of this application is to conserve the specific name of *Cyrestis camillus* (Fabricius, 1781) for one of the most distinctive of African butterflies, known as the African map butterfly or African porcelain (family NYMPHALIDAE). The name has been in use for this taxon for more than 200 years but it is a junior primary homonym of *Papilio camillus* Cramer, [1780], an invalid name for a West African blue butterfly (family LYCAENIDAE). The specific name of the latter taxon has been known as *isis* Drury, 1773 for more than 150 years; the taxon has been placed in various genera and is currently known as *Azanus isis*. It is also proposed that the specific name of *Limenitis reducta* Staudinger, 1901 (family NYMPHALIDAE) be conserved for the butterfly known as the Southern White Admiral, which ranges from southwest Europe to Iran. The name *reducta* was placed on the Official List in Opinion 562 (April 1959); however, the senior subjective synonym *Papilio sibilla* Linnaeus, 1767 (previously used in a misidentified sense) was not then suppressed, and this is now proposed.

Keywords: Nomenclature; taxonomy; Lepidoptera; butterflies, NYMPHALIDAE; LYCAENIDAE; *Azanus isis*; *Cyrestis camillus*; *Limenitis reducta*.

- Case 3001 *Lactura* Walker, 1854 (Insecta, Lepidoptera): proposed conservation, and proposed conservation of the specific name of *Eustixia pupula* Hübner, [1831] (currently *Lactura pupula*)

J.B. Heppner

Florida State Collection of Arthropods, Division of Plant Industry, Florida Department of Agriculture & Consumer Services, P.O. Box 147100, Gainesville, Florida 32614-7100, U.S.A.

Abstract. The main purpose of this application is to conserve the widely used name *Lactura* Walker, 1854 for a genus of moths (Microlepidoptera, superfamily ZYGAENOIDEA), now the type genus of the family LACTURIDAE Heppner, 1995. *Lactura* is a junior subjective synonym of *Eustixia* Hübner, [1831]; it is also technically junior to the simultaneously published synonym *Miezia* Walker, 1854, and the suppression of both these long disused names is proposed. The nominal species *Eustixia pupula* and *Eustixia pupula* were established with Hübner's authorship in 1823 and [1831] respectively, probably due to error since they referred to entirely different moths; it is proposed that the established usage of the North American *Eustixia pupula* (1823; PYRALIDAE) and *Lactura pupula* ([1831]; LACTURIDAE) should be maintained.

Keywords. Nomenclature; taxonomy; Lepidoptera; Microlepidoptera; LACTURIDAE; YPONOMEUTIDAE; PYRALIDAE; *Lactura*; *Lactura pupula*; *Eustixia*; *Eustixia pupula*; *Eustixia*; *Miezia*.

Opinions published in the Bulletin of Zoological Nomenclature

The following Opinions were published on 30 September 1997 in Vol. 54, Part 3 of the Bulletin of Zoological Nomenclature.

OPINION 1879. *Cacoxenus indagator* Loew, 1858 (Insecta, Diptera): generic and specific names conserved

OPINION 1881. *Stilpon* Loew, 1859 (Insecta, Diptera): conserved

OPINION 1882. *Dialictus* Robertson, 1902 and *Chloralictus* Robertson, 1902 (Insecta, Hymenoptera): given precedence over *Paralictus* Robertson, 1901

BOOK REVIEWS

Rentz, David C. 1996. *Grasshopper Country, The Abundant Orthopteroid Insect of Australia*, UNSW Press, Sydney, Australia, 284 pages, \$69.95, hardcover.

Some books are merely readable and help to pass the time, and others are good and memorable; this book shoots right off the upper end of the scale. Some entomology books serve as frequent references, while others present facts, argue points, educate or even entertain. This book does all that and more, and I unashamedly sing its praises. I unconsciously selected singing as my metaphor, because as I type this report, my PC busies itself in the background to fill my office with the clearly recorded songs of over 100 cricket and katydid species from Australia. The CD that comes with "*Grasshopper Country*" is superb and would be worth buying all on its own. The recorded sounds are all fascinating to hear (to me, since I live in a region that by comparison suffers from a dearth of katydids, but also to anyone else who enjoys the diversity of life). The human ear/brain automatically searches for similarities and differences among the calls, attempting to discern evolution in a few seconds of sound, or to assign behaviour and purpose ('that one sounds defensive, alright') to the patterns. I am beginning to recognize the calls of insects that are not even found on my continent, mainly by using memory tricks, like the children in Alberta who know that the chorus frog is the one that sounds like a comb. I work on recognizing the succinct buzz of the 32-spotted Katydid (*Ephippitytha tringitiduoguttata*). The calls of the Black Field Cricket (*Teleogryllus commodus*) and the Oceanic Field Cricket (*T. oceanicus*) are as clear and lovely as the calls of warblers. Some calls are somewhat similar but vary in frequency and length: the sniff of the Vocal Green Shield-Backed Katydid (*Chlorodectes loquax*), the sneeze of the Montane Green Shield-Backed Katydid (*C. montanus*), and the drawn out, lower frequency 'rip' of *Coptaspis* sp. The Giant Marauding Katydid and Common Marauding Katydid (*Metaballus decticoides* and *M. frontalis*) sound enough like small helicopters that they could pass for incoming 'Dustoff'. An *Ornebius* sp. that Rentz recorded sounds very much like a fascinating but annoying nocturnal insect that I encountered in a camp in Togo this spring, which we dubbed 'the electronic' alarm clock cricket' for the sound it mimics all too perfectly for much of the night.

The book itself, when one manages to pull oneself away from the CD, is marvellous. It pays detailed attention to the Orthoptera (grasshoppers, katydids and crickets), Blattodea (cockroaches), Mantodea (mantids) and Phasmatodea (leaf and stick insects). While it is true some taxonomic groups are covered in more detail than others, as Rentz points out, the thing that struck me about this book again and again was the thoroughness of each portion. Each method, technique, description and personal experience is presented with such readable detail that by the end

of the book, any reader will have metamorphosed into an acridologist (or even an orthopterophile for life, as Murray Upton, the writer of the foreword, claims). Much of the knowledge thus imparted is meant to be learned hands-on, and techniques for collection and culture are presented for most groups (even how to go about recording calls). The presentation of the taxonomic classification of the groups covered in the book equally serves the academic and the novice, mak

ing this an excellent book for schools and young naturalists (especially in Australia). Each sub-order, superfamily, family, subfamily, tribe and group is presented along with a key, a description of identifying features, and discussion of the biology, ecology and behaviour of representative species. Literature review is provided where this is needed.

I cannot find anything that I do not like about this book. The colour photos and scanning electron micrographs are marvellous. The line drawings surpass most of what you see in textbooks and research papers. The organization and layout allow the reader to learn more each time they pick it up. It has rare spelling errors, but very few (and after all, who could blame the typesetters and proofreaders for *Ephippitytha* / *Ephippithytha* ?).

David Rentz writes "This book is, unfortunately, far from complete...". Well, maybe so, but it puts the rest of us to shame, but I like the way it does it.

Dan Johnson
Lethbridge

Creffield, J.W. *Wood-destroying Insects: Wood Borers and Termites*, CSIRO, 1996. 44 pp.

The first edition of this publication from 1990 has been updated to accommodate changes in taxonomic nomenclature, recent upgrades of Australian Standards for timber preservative treatments as well as new Australian Standards for the protection of buildings from termite attacks. There is also an extensive section on design suggestions for new homes that are planned for termite areas. This would be of interest to any one in the world who has to deal with termites where a single above or below ground nest can contain millions of insects. Interesting to note that one of the favoured treatment for termites is arsenic trioxide which is applied as a powder which the insects themselves spread throughout the colony by mutual grooming.

The first figure in this very well illustrated volume is of the ubiquitous globe trotting furniture beetle *Anobium punctatum*. The illustrated insect measures 21 cm from tip of antenna to the distal end of the elytra. This is very good macrophotography, perhaps a touch over-enlarged and one that would be greatly improved with a life-size scale. Several of the figures of products have a scale included and that is very useful for students and the public in general who want to know what to look for in the field. The excellent insect macrophotographs would be improved by the addition of a life-size scale. The major insect wood borers covered are grouped by substrate - standing trees and green timber, seasoned timber and decaying timber. Termites are dealt with separately. The well illustrated presentation demonstrates the type of damage rather than an encyclopaedic list of intercepted species. The important role of quarantine procedures is emphasized by the number of species that have been introduced into Australia, including 4 of the 5 economically important drywood termites.

At first I thought there was an error in the caption of figure 4 where an ambrosia beetle, which looks like *Trypodendron* spp. that is so familiar to many of us in western Canada, is described as being in the family Curculionidae (usually restricted to weevils). There has been a recent paper by Kuschel (1995) where he has described a phylogenetic classification of the Curculionoidea and subfamilies [*Memoirs of the Entomological Society of Washington* 14:5-35]

that would now require me to describe *Trypodendron* as a scolytine curculionid. I wonder how the bark beetle taxonomists are going to take to this classification where the family Scolytidae is now the subfamily Scolytinae of the family Curculionidae?

This publication is a most useful compact well illustrated compilation on wood borers and termites that are active on the Australian continent. The information contained therein is very

useful for those about to build a home in termite-infested areas. The designs featured should be passed along to the builders to ensure that dream homes do not rapidly become termite food.

Dr. John A. McLean
The University of B. C.

Dunn, Gary A. 1996. *Insects of the Great Lakes Region*. The University of Michigan Press 1996, 324pp., ISBN 0-472-09515-3 (hardback); 0-472-06515-7 (Paperback \$17.95 U.S.)

The stated purpose of this book is to "assist you in recognizing some common insects of the Great Lakes Region and to summarize information on their interesting habits, unusual lifestyles, changing distributions and populations, and economic importance", and it explicitly targets a broad audience ranging from "beginning entomophiles" to professionals. *Insects of the Great Lakes Region* lacks keys (other than a short ordinal key) and has no original illustrations, but it has other potentially unique strengths in its explicit regional focus and in the author's obvious enthusiasm for insect study. The regional emphasis is best reflected in the first three chapters, which very briefly overview insect distribution and the geological, biological, and entomological history of the Great Lakes Region. This is followed by a few pages on distributional patterns of insects in the Great Lakes Region, and a few pages on where and when insects are found. The discussions of insects characteristic of different environments are well-written and useful, with the most common species named and references given to habitat studies in the primary literature.

Chapter 4, Insect Classification and Identification, is basic and appropriate for "beginning entomophiles". The ordinal key is clearly meant to be comprehensive, as it includes rarely encountered taxa such as Protura and Strepsiptera, but will not work for some more common apterous taxa, such as wingless flies other than the sheep ked (wingless Chloropidae and Phoridae for example). Many common mayflies will get lost in couplet 19 in which only flies are allowed to have two wings, all mayflies will be difficult to slip by couplet 25 which demands visible chewing mandibles, and an error in couplet 32 will compound any resulting confusion by demanding that mayfly hind wings be larger than the fore wings. There are other glitches in the key, and novice users would probably key tree crickets to Blattaria and would likely key most microhymenoptera to Psocoptera. These minor problems with the short ordinal key are more than compensated for by good ordinal descriptions that follow in the extensive chapter 5, a taxon-by-taxon treatment of the insect fauna of the Great Lakes Region.

Chapter 5 follows a standard format, with a description of each order, a section on each common family, common and scientific names for example species, and a separate paragraph on identification resources. Common names are given for almost all species, even for obscure taxa which do not, and probably should not, have official common names. Fabricated common names made up of the specific name anglicised and put in front of the generic name do not seem useful to this reviewer. The format for this chapter is generally easy to read, with clear subheadings,

short sections divided by spaces and about a third of the page-width left as blank margin. This wide margin is often used for habitus illustrations, reproduced from various sources, but often just contributes to the rather large amount of empty space per page. The classification system used is conservative, for example all hexapods are included in the class Insecta and separate orders Anoplura and Mallophaga are used for the lice (which most authors now group into the single order Phthiraptera). Archaeognatha (jumping bristletails) are not mentioned at all, although they are relatively common along the Great Lakes, and certainly of more general interest than some other groups, such as Protura, which are covered in this book. I am unsure if this is an oversight or if the author is just following the old system of including Archaeognatha in the Thysanura. The latter is unlikely since Dunn lists only two species of Thysanura in the Great Lakes Region.

Most other orders are discussed concisely, with mention of common species and appropriate "identification resources". There are some omissions in the latter area, for example An Introduction to the Aquatic Insects of North America (Merritt and Cummins 1984, 1996) is not mentioned under the aquatic orders, Mockford's (1992) treatment of the Psocoptera of North America is not mentioned in the Psocoptera section, and no mention is made of the Manual of Nearctic Diptera (McAlpine et al. 1981, 1987) in the Diptera section. The Diptera, although arguably the largest and most common of the orders in the region, is clearly not a group the author is comfortable with, and this section is one of the weakest in the book, with few insights and several minor errors and omissions (many flies are less than 2mm, rhagionids are not rare, *Poecilographa decorum* is not among our most common sciomyzids, bee flies have a greater host range than indicated, *Dolichopus* is our common dolichopodid, etc.). In contrast, the beetle section seems like a useful summary, with many of the species I see on a regular basis illustrated and concisely characterised. The section on Carabidae seems particularly useful, with margin illustrations of many of our most common species, but the Coccinellidae section seems a bit dated by the lack of any information of the drastic changes our fauna has undergone over the past 20 years.

The book has several appendices, some of which contain information not easily obtained elsewhere. Appendix A is a list of entomological organisations in the Great Lakes Region, including the Illinois Mosquito Control Association and various regional societies, but excluding the Entomological Society of Ontario (probably the oldest entomological organisation in the region) and the Toronto Entomologists' Association. Appendix B is a list of 12 periodicals featuring information on Great Lakes Insects, and Appendices C and D list institutional collections, insect zoos and butterfly houses in the region. There are no Canadian entries in the latter category. Appendix E covers regulations on insect collecting on public lands. Under the heading 'Canada' we find that permits are required for National Parks, but no mention is made of provincial parks and regional conservation areas (they also require permits). Appendix F is a list of endangered, threatened and special concern insects of the Great Lakes Region, but no information is given here about distribution, where the species are listed, or what the status of each species is. In most cases this information is found elsewhere in the book, and is in fact the greatest strength of the book. Without this timely, regionally specific information I would find it difficult to recommend Dunn's book when more thorough, better-illustrated field guides and general insect biology books are available. As it is, the author is to be congratulated for producing a nice overview of common insects in our most populated region.

Steve Marshall
University of Guelph

SCHOLARSHIPS AND GRANTS

Entomological Society of Canada Graduate Research-Travel Grants Invitation for Applications

Preamble

To foster graduate education in entomology, the Entomological Society of Canada will offer two research-travel grants, awarded annually on a competitive basis. The intent of these grants is to help students increase the scope of the graduate training. These grants, up to a maximum of \$2,000, will provide an opportunity for students to undertake a research project or to do course work pertinent to their thesis subject that could not be carried out at their own institution.

Eligibility

To be eligible, a student must:

- 1) be enrolled as a full-time graduate student
- 2) be an active member of the Entomological Society of Canada

Format of the Application Form

The application form will be in the format of a grant proposal, where the applicant will provide the following information: 1) the subject of the thesis; 2) a pertinent review of the literature in the field; 3) a concise presentation of the status of the ongoing thesis research; 4) a description of the research or course work to be undertaken, clearly indicating a) the relevance to the overall goal of the thesis, b) an explanation of why such work cannot be carried out at the student's own university and c) the justification of the site where the research/course work will be carried out; 5) a budget for the proposed project; 6) anticipated dates of travel and date on which grant money is needed.

The application form should also be accompanied by: 1) an up-to-date C.V.; 2) a supporting letter from the senior advisor; 3) When appropriate, a support letter from the scientist or Department Head at the institution where the applicant wishes to go.

Evaluation Procedure

The scientific merit of each application will be evaluated by a committee that has the option of sending specific projects out for external review by experts in the field. A constructive written report, underlining the positive and negative aspects of the proposal, will be returned to the applicant.

Timetable and Application Procedure

Application forms, which may be obtained from the Secretary of the Society, must be completed and returned to the Secretary of the Society by **15 January 1998**. The committee will evaluate all applications by 30 April 1998 and determine if, and to whom, grants will be awarded. The successful applicants will be informed immediately, thereby providing sufficient time for students wishing to start in the fall to make necessary arrangements. Grants must be used in the 12 months following the award.

Recipients must provide a short final report, as well as a detailed list of expenses, in the three months that follow the trip. Any money not spent must be returned to the Society.

La Société d'entomologie du Canada Allocations de Voyage pour Étudiants Gradués Appels pour Allocations

Préambule

Afin de promouvoir les études graduées en entomologie, la Société d'Entomologie du Canada offrira deux bourses de voyage associées à la recherche. Celles-ci seront décernées annuellement sur une base compétitive. Le but de ces bourses est de permettre aux étudiants gradués d'élargir les horizons de leur formation. Les bourses, d'une valeur maximale de \$2,000 permettront à des étudiants de réaliser un projet de recherche, ou de suivre des cours pertinents à leur sujet de thèse qui ne peuvent être entrepris dans leur propre institution.

Éligibilité

Afin d'être éligible, l'étudiant doit:

- 1) être inscrit à temps plein comme étudiant gradué
- 2) être un membre actif de la Société d'Entomologie du Canada

Format du Formulaire de Demande

Le formulaire de demande sera dans le style d'une demande d'octroi et l'étudiant devra

fournir les renseignements suivants: 1) le sujet de la thèse; 2) une présentation de la littérature pertinente au domaine d'étude; 3) une présentation concise du statut du projet de recherche en cours; 4) une description de la recherche ou des cours qui seront entrepris, indiquant clairement a) la pertinence des objectifs généraux de la thèse, b) les raisons pour lesquelles ce travail ne peut être entrepris à l'université où l'étudiant est inscrit, et c) une justification concernant le choix de l'endroit où la recherche/les cours seront entrepris; 5) un budget pour le projet proposé; 6) dates prévues pour le voyage et date pour laquelle la bourse sera requise.

Le demande devra aussi être accompagnée: 1) d'un C.V. complet mis-à-jour; 2) d'une lettre de recommandation du directeur de thèse; et 3) lorsque convenable, une lettre d'appui d'un administrateur de l'institution que le candidat désire fréquenter.

Évaluation

Le valeur scientifique de chaque demande sera évaluée par un comité qui aura l'option d'envoyer des demandes spécifiques pour évaluation par un lecteur externe, expert dans le domaine. Un rapport écrit, contenant une critique constructive, faisant ressortir les aspects positifs et négatifs de la demande, sera retourné à chaque candidat.

Échéances et Procédures

Les formulaires de demande, qui peuvent être obtenus du Secrétaire de la Société, doivent être remplis et retournés pour le **15 janvier 1998** au Secrétaire de la Société. Le comité évaluera toutes les demandes pour le 30 avril 1998 et déterminera si, et à qui, les bourses seront décernées. Les candidats choisis seront contactés immédiatement, cela afin d'allouer suffisamment de temps pour les préparatifs nécessaires à un départ possible à l'automne. La bourse doit être utilisée dans les 12 mois suivant l'octroi.

Les récipiendaires devront préparer un court rapport final, en plus d'une liste détaillée de leurs dépenses, dans les trois mois suivant le voyage. Tout argent non dépensé devra être remis à la Société.

Entomological Society of Canada Postgraduate Awards 1998

The Entomological Society of Canada will offer two postgraduate awards of \$2,000 each to assist students beginning graduate study and research leading to an advanced 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.

The successful applicants must be either Canadian citizens or landed immigrants with Bachelor's degrees from Canada universities. Applicants must begin their first year of postgraduate studies between **15 June 1996** and **31 December 1998**. 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.

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. Peggy Dixon
Atlantic Cool Climate Crop Research Centre
P.O. Box 39088, St. John's, Newfoundland A1E 5Y7
Tel: 709-772-4763; Fax: 709-772-6064
E-mail: dixonpl@em.agr.ca

La Société d'entomologie du Canada Bourse pour Etudiants Post-Gradués 1998

La Société d'entomologie du Canada offrira deux bourses d'un montant de \$2,000 chacune pour aider des étudiants qui entreprennent des études post-graduées et des recherches en vue de

l'obtention d'un diplôme d'études supérieures en entomologie. Les bourses seront accordées aux étudiants ou étudiantes en raison des seuls critères de réussite académique.

Avis

Éligibilité: Candidats pour chacune des bourses doivent être membres de la Société d'entomologie de Canada.

Les candidats doivent 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 1996** et le **31 décembre 1998**, 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.

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. Sauf pour ces assistances, 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. Peggy Dixon
Atlantic Cool Climate Crop Research Centre
P.O. Box 39088, St. John's, Newfoundland A1E 5Y7
Tel: 709-772-4763; Fax: 709-772-6064
E-mail: dixonpl@em.agr.ca

MEETINGS

Fifth International Symposium on Fruit Flies of Economic Importance June 1 - 5, 1998, ParkRoyal Resort, Penang, Malaysia. **Registration Fees:** Before March 1, 1998 - US\$250.00; For further information and registration form, kindly contact the following address: Secretariat, Fifth International Symposium on Fruit Flies of Economic Importance School of Biological Sciences, Universiti Sains Malaysia, 11800 Penang, Malaysia. Tel: 604-8603961, 604-6575076; Fax: 604-6565125; Email: fruitfly@usm.my
Website: <http://www.bio.usm.my/bio/fruitfly/>

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LA SOCIÉTÉ D'ENTOMOLOGIE DU CANADA**

393 Winston Ave., Ottawa, Ontario K2A 1Y8

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