

Bulletin

Volume 33

Entomological Society of Canada

No. 4

Société d'Entomologie du Canada

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Owen Olfert (2003)

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Robert Elliot (ESS), Patricia MacKay (ESM),
David Hunt (ESO), Nancy Laroque (SEQ),
Gilles Boiteau (AES).

SOCIETY BUSINESS / AFFAIRES DE LA SOCIÉTÉ

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 2002 by the Secretary, Dr. Rick West.

Nominations pour Deuxième Vice Président et Directeur doivent être signées par trois membres de la Société et envoyées avant le 30 avril 2002 au secrétaire, Dr. Rick West.

52nd Annual General Meeting

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

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

(<http://home.cc.umanitoba.ca/esm/meet-esc.html>)

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

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

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Victoria, BC, V8Z 1M5
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Fax: (250) 363-0775
E-mail: vnealis@pfc.forestry.ca

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

Notice of Executive Council Meeting

The mid-term meeting of the Executive Council will be held at the Entomological Society of Canada office (393 Winston Ave., Ottawa) in April, 2002. Matters for consideration at any of the above meetings 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 en avril, 2002. 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'address suivante:

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Portugal Cove-St. Philips, Newfoundland A1M 3G6
Phone and fax: (709) 895-2734
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Bulletin on the Website

Beginning with the December, 2001, issue, the Bulletin of the Entomological Society of Canada will be available on the website in PDF format. Steps will eventually be taken to provide web-based links for selected topics in Bulletin content. Comments and questions concerning the ESC-SEC website should be directed to the webmaster, Dr. Barry Lyons, blyons@NRCan.gc.ca. The new website of the ESC is www.esc-sec.org. Also coming to the new website will be documents of interest to ESC members, such as the Directory of Entomological Education in Canada. This directory is being updated by Troy Danyk and will be available in either html or pdf format.

'I suppose you are an entomologist?', I said with a note of interrogation.

'Not quite so ambitious as that, sir. I should like to put my eyes on the individual entitled to that name! A society may call itself an Entomological Society, but the man who arrogates such a broad title as that to himself, in the present state of science, is a pretender, sir, a dilettante, an impostor! No man can be truly called an entomologist, sir; the subject is too vast for any single human intelligence to grasp.'

Attributed to Oliver Wendall Holmes
The Poet at the Breakfast Table

(Thanks to "The Project Gutenberg Etext", Entomo-L, and posts by Richard Pollack and Alec McClay)

President's Address, Annual General Meeting, October 9, 2001

The Society is enjoying overall financial stability. Headquarters operations are running smoothly, thanks to the efforts of our office manger, Sandy Devine and Treasurer, Gary Gibson. Of course, new issues continue to emerge which might have financial implications for the Society. For example, we will be negotiating a new publishing contract for the *The Canadian Entomologist* with NRC, to take effect next year.



This year the Society began to move towards developing our capacity to keep up with changes in the electronic delivery of information and in the improvement of services to the membership. We have started to develop a new, distinctive internet site (ESC-SEC.ORG). The site is under construction so please check it regularly for developments. The new site will allow us to provide timely postings of information and services. For example, we plan to utilize the site to post information on student affairs, minutes of meetings and a range of information now published only in the hard-copy version of the *Bulletin*. I would like to acknowledge the efforts of Barry Lyons, Rick West, Dan Johnson and our student representative, Jade Savage, in the planning and ongoing development of the web-site.

A major concern for the Governing Board this year has been the issue of parallel publishing (hard-copy and electronic version) of *The Canadian Entomologist*. I would like to thank our journal editor, Jean Turgeon, for the tremendous amount of effort he has put into compiling a comprehensive, thoroughly researched, report for the Board which deals with all aspects of electronic publishing. There are many issues to consider, including archiving, copyright, reprints, and, of course the financial implications. This background information will allow the Board to make sound decisions as the Society moves towards the electronic delivery of scientific information.

I would like to take this opportunity, on behalf of everyone in the Society, to thank the three people who keep the Society going on a day-to-day basis, that is, Sandy Devine (Office Manager), Rick West (Secretary) and Gary Gibson (Treasurer). Many thanks for your continuing efforts and for making my job as President a pleasant one. Finally, I would like to emphasize that our Society depends upon the efforts of volunteers. Thank you to all of you who have volunteered your valuable time to chair and sit on committees, organize and run meetings and carry out all of the activities that help to move the Entomological Society of Canada forward.

La Société jouit présentement d'une stabilité financière générale. Les opérations administratives se font rondement. Merci aux efforts de notre directrice de bureau, Sandy Devine, et de notre trésorier, Gary Gibson. Naturellement, de nouveaux sujets surviennent continuellement et pourraient avoir des implications financières pour la Société. Par exemple, nous négocions présentement un nouveau contrat de publication pour le 'The Canadian Entomologist' avec RNC qui prendra effet cette année.

Cette année, la Société commence à développer sa capacité afin de se maintenir continuellement à niveau malgré les changements en matière de distribution électronique de l'information et d'améliorer les services aux membres. Nous avons commencé à développer un nouveau site internet distinct (ESC-SEC.ORG). Le site est en construction, alors veuillez le consulter régulièrement pour suivre les développements. Ce nouveau site nous permettra d'afficher en temps opportun l'information et les services. Par exemple, nous prévoyons utiliser le site pour afficher les informations au sujet des affaires étudiantes, les minutes des assemblées, et tout un éventail d'informations qui ne sont publiées jusqu'à présent que dans la version papier du Bulletin. Je voudrais souligner les efforts de Barry Lyons, Rick West, Dan Johnson et du représentant des étudiants, Jade Savage, pour la planification et les développements en cours de notre site Web.

Un soucis majeur du conseil d'administration cette année a été le problème de publier parallèlement en version papier et électronique le 'The Canadian Entomologist'. Je voudrais remercier à ce sujet notre éditeur, Jean Turgeon, pour l'énorme effort qu'il a déployé à la production d'un rapport détaillé et très documenté traitant de tous les aspects de la publication électronique. Il y a plusieurs aspects à considérer, incluant l'archivage, les droits d'auteur, les tirés à part et, bien sûr, les implications financières. Les informations contenues dans ce rapport permettront au Conseil de prendre des décisions éclairées lors du virage de la Société vers la distribution électronique de l'information scientifique.

Je voudrais profiter de cette opportunité pour remercier au nom de tous les membres de la Société et au mien, trois personnes qui s'occupent du bon déroulement des affaires courantes de la Société. Ce sont Sandy Devine (directrice de bureau), Rick West (secrétaire) et Gary Gibson (trésorier). Mes sincères remerciements pour votre effort soutenu qui fait que mon travail de Président soit si plaisant. Finalement, je voudrais souligner que la Société dépend des efforts des volontaires. Merci à vous tous, qui se sont portés volontaires, et qui prennent un temps précieux à diriger et à siéger sur les comités, à organiser les congrès et à prendre en main toutes les activités qui aident à l'avancement de la Société entomologique du Canada.

R. Foottit

**Achievement Awards Committee
Call for Nominations**

**Gold Medal for Outstanding Achievement in Canadian Entomology
and
The C. Gordon Hewitt Award**

Members of the Society are invited to nominate individuals whom they regard as eligible for these awards (for the year 2002). Nominations should be sent in an envelope marked "Confidential" to the following address:

Achievement Awards Committee
Entomological Society of Canada
393 Winston Avenue, Ottawa, Ontario K2A 1Y8

and should comprise: (1) the name and address of the nominee(s); (2) a statement of relevant achievements; and (3) the name of the nominator and at least one seconder. To be considered by the Achievement Awards Committee, nominations must bear a postmark no later than 28 February 2002.

The following conditions govern these awards:

1. Outstanding contributions should be judged on the basis of
 - (a) superior research accomplishment either as a single contribution or as a series of associated endeavours and which may be either in entomology or a related field where the results obtained are of great consequence; or (b) dedicated and fruitful service in the fields of Society affairs, research, administration or education.
2. No more than one of each award shall be granted per year but, where circumstances warrant, more than one individual may be mentioned in a single award.
3. Recipients need not be members of the Society providing their contribution is judged to have a major impact on entomology in Canada.
4. The award may be granted on different occasions to the same recipient but for different contributions to entomology in Canada.
5. Nominees for the C. Gordon Hewitt Award must be less than 40 years of age throughout the calendar year in which the award is both announced and awarded.

Comité des décorations

**Médaille d'Or pour Contributions
Exceptionnelles à l'Entomologie Canadienne
et Prix C. Gordon Hewitt**

La Société invite les membres à lui faire parvenir les noms des personnes qu'ils considèrent éligibles à ces deux prix. Veuillez envoyer vos nominations (pour l'année 2002) au:

Comité des décorations
La Société d'entomologie du Canada
393 Winston Avenue, Ottawa, Ontario K2A 1Y8

dans une enveloppe portant la mention "Confidentiel". La nomination doit contenir: (1) le nom ainsi que l'adresse du (ou des) candidat(s) désigné(s); (2) un compte rendu des réalisations pertinentes; et (3) le nom du parrain et celui d'au moins une deuxième personne appuyant la mise en nomination. Pour être acceptées par le Comité, les nominations devront porter un sceau postal d'au plus tard le 28 février 2002.

Les conditions suivantes régissent le choix des récipiendaires de ces prix:

1. Les contributions exceptionnelles devraient être jugées dans le contexte
 - (a) d'un accomplissement hors pair en recherche, soit comme résultat d'une seule contribution ou d'une série d'efforts reliés et ayant abouti à des résultats de grande valeur. Cette recherche aura été réalisé en entomologie ou tout autre domaine connexe; ou (b) de service dévoué et fructueux au profit de la Société, de l'administration de recherche, ou de l'éducation.
2. Chaque prix ne sera décerné qu'une seule fois par année. Cependant, lorsque les circonstances le justifient, plusieurs personnes peuvent collectivement devenir récipiendaires d'un prix.
3. Les récipiendaires ne doivent pas nécessairement être membres de la Société pour autant que l'on juge que leur contribution à eu un impact majeur sur l'entomologie au Canada.
4. Chaque prix peut être décerné plus d'une fois au même récipiendaire mais pour différentes contributions à l'entomologie au Canada.
5. Le candidat désigné pour le prix C. Gordon Hewitt doit être âgé de moins de 40 ans pour toute la durée de l'année au cours de laquelle le prix est annoncé et décerné.

**Entomological Society of Canada / Société d'entomologies du Canada
Committees and Representatives 2001 / Comités et Représentants 2001**

Standing committees/Comités permanents

Nominations/Nominations

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

Elections/Elections

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

Continuing Committees/Comités en cour

Achievement Awards/Prix d'excellence

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

Annual Meeting/Réunion Annuelle

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

Bilingualism/Bilinguisme

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

Bylaws, Rules & Regulations/Règlements M.

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

Finance/Finance

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

Headquarters/Siège social

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

Heritage/Heritage

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

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

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

Marketing/Comité du marketing

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

Membership/Adhésion

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

Publications/Publications

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

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

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

Student Affairs/Affaires étudiantes

J. Savage, Chair, Montréal

C. Schmidt, Edmonton
B. Sarauer, Saskatoon
D. Gillespie, ex officio, Agassiz
B. Roitberg, ex officio, Burnaby

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

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

Ad hoc Committees / Comites ad hoc

Joint Meeting Document

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

**Minutes:
Entomological Society of Canada Governing Board Meeting
Sheraton Fallsview Hotel and Conference Centre,
Niagara Falls, Ontario, October 20, 2001**

(Meeting minutes are prepared and submitted by ESC Secretary Rick West)

The meeting was called to order at 0830 h on October 20, 2001 by President R. Foottit. Those present were President, R. Foottit; First Vice-President, B. Roitberg; Second Vice-President, S. Smith; Directors-at-Large, P. de Groot and O. Olfert; Regional Directors, T. Shore (ESBC), R. Bouchier (ESA), R. Elliot (ESS), R. Lamb (ESM), and D. Hunt (ESO); Student Representative, J. Savage; Scientific Editor, J. Turgeon; Treasurer, G. Gibson; Secretary, R. West; incoming Second Vice-President (observer), C. Vincent

1. Notice of Meeting

The notice for this meeting was e-mailed on August 29, 2001 and printed in the March and June 2001 issues of the Bulletin.

2. Additions to and approval of the Agenda

B. Roitberg moved and P. de Groot seconded that the Agenda be accepted. Carried.

3. Proxies and absences

D. Johnson, N. Larocque, G. Boiteau and R. Bennett were absent.

4. Minutes - Governing Board Meeting, December 2, 2000

The minutes were circulated by Secretary R. West on December 12, 2000. B. Roitberg moved and B. Lamb seconded that the minutes signed by the President and First Vice-President, be accepted. Carried.

5. Minutes - 50th Annual General Meeting, December 5, 2000

The minutes were circulated by Secretary R. West on December 12, 2000. S. Smith moved and R. Bouchier seconded that the minutes signed by the President and First Vice-President, be accepted. Carried.

6. Minutes - Governing Board Meeting, December 7, 2000

The minutes were circulated by Secretary R. West on December 12, 2000. O. Olfert moved and P. de Groot seconded that the minutes signed by the President and First Vice-President, be accepted. Carried.

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

The minutes were circulated by the Secretary on May 2, 2001. B. Roitberg moved and T. Shore seconded that the minutes signed by the President and First Vice-President, be accepted. Carried.

8. Business arising from the previous minutes:

The following items were identified from previous minutes. Reports by trustees, officers and committees covered these items and they were discussed under new business:

- 8.1 Password to access common names list (9.2.6.5 EC), moved to 9.2.6.5
- 8.2 Discount for members to attend annual meeting (9.2.19.2 EC, 9.2.14.1 GB1), moved to 9.2.19.2
- 8.3 Borden Award (9.2.2.5 EC, 9.2.15.2 GB1), moved to 9.2.2.5
- 8.4 Endangered species legislation (9.2.16.1 EC, 9.2.16.2 GB1), moved to 9.2.16.1
- 8.5 Media releases (9.2.16.2 EC, 9.2.16.3 GB1), moved to 9.2.16.2
- 8.6 URL change, file access to web site (9.2.6.3 EC, 9.2.19.3 GB1), moved to 9.2.6.4
- 8.7 Annual meeting guidelines on web (9.2.6.6 EC), moved to 9.2.6.4
- 8.8 Office manager (9.2.2.3 EC, 9.2.2 GB1), moved to 9.2.2.3
- 8.9 Proceeds from 2000 J.A.M. (9.2.1.1 EC, 9.2.1.1 GB1), move to 9.2.1.1
- 8.10 Electronic Publishing with NRC Press (9.2.6.1 EC, 9.2.4.1 GB1, 7.2 GB2), moved to 9.2.6.6
- 8.11 Financial support of external publications (9.2.6.2 EC, 9.2.6.4 GB1), moved to 9.2.6.2
- 8.12 Conference Travel Fund (9.2.2.4 EC, 9.2.15.1 GB1), moved to 9.2.2.5 and 9.2.15.1
- 8.13 Web page on Science Policy (9.2.6.4, 9.2.16.4 GB1), moved to 9.2.6.4
- 8.14 DPVCC book marketing (9.2.18.2 EC, 9.2.18.2 GB1), moved to 9.2.18.2
- 8.15 DPVCC photographs (9.2.6.7 EC, 7.1 GB2), moved to 9.2.6.5
- 8.16 Advertising in the Bulletin (9.2.5 EC), moved to 9.2.6.7
- 8.17 Search for Editor of The Canadian Entomologist (9.2.4 EC) moved to 9.2.6.1
- 8.18 Amendment to Standing Rules regarding Elections (9.2.8 EC) moved to 9.2.11.1

9. New Business

9.1 Correspondence

Secretary West reported that correspondence received by him was routine in nature and addressed under committee business. Members of the Entomological community who died during the past year included Walter Askew, Betty Griffis, Pat Pielou, Harry Wressel, Genevieve Watt, Daisy Morris, Lin Lindquist, Ann Dyer, Charlie Lilly, Bill Foott, Alec Jones, Dave Hardwick, John Robinson, Reg Underwood, Alma Criddle, John Robinson, Emma Carmody, Bill Ricker, Ken Elliot, Lloyd Putnam and Gary Wilson.

Correspondence to President Foottit aside from routine Society business included numerous requests from the media concerning insect pests, general information from the public and requests for employment.

9.2 Reports from Officers, Trustees, Committees and Representatives

B. Roitberg moved and R. Bouchier seconded that all reports be received. Carried. Summaries of all reports will be published in the December 2001 issue of the Bulletin.

9.2.1 Executive Council

President Foottit provided a summary of Society business and will present a report at the AGM.

Action: R. Foottit

9.2.1.1 Proceeds from 2000 J.A.M.

The ESC has been promised approximately \$8000 from the proceeds of the 2000 J.A.M. D. Johnson is preparing documents concerning the J.A.M. and these will be sent to the ESC office, Heritage Committee and Annual Meeting Committee. Action: D. Johnson.

9.2.2 Treasurer

Report received. Societal finances will permit transfer of funds from general operations into the Investment Fund in 2002, but a decrease in interest revenue is expected due to lower interest rates. Additional effort needs to be made to raise funds for Student scholarships.

9.2.2.1 Auditors Report.

There was a net increase of Societal assets of \$65,867 due to gains in currency exchange, reduced costs of publishing and mailing Canadian Entomologist, and reduced meeting costs.

9.2.2.2 ESC Headquarters Committee

V. Behan-Pelletier is the new Chair of the Headquarters Committee. The oil furnace at Headquarters is being replaced by a new natural gas furnace; a tree will have to be removed from the property because of proximity to the house foundation. Action: V. Behan-Pelletier and G. Gibson.

9.2.2.3 Office Manager

The Office Manager's contract was successfully renegotiated through 2003.

9.2.2.4 DPVCC Book

During 2000, \$7,000 was reimbursed to the ESC from the Book Project. The annual review of the Book Project finances continues to cost the project \$1,000/year. The Societal Office Manager now has complete responsibility for all shipping and handling of orders.

9.2.2.5 Conference Travel Fund

Additional funds need to be raised before Conference Travel Awards can be granted.

9.2.2.6 Borden Award

Additional funds need to be raised before the Borden Award can be granted.

9.2.3 Finance Committee

Report received. The Committee warns that implementing and running an online version of The Canadian Entomologist should not be at the expense of a decline in memberships and subscriptions.

9.2.3.1 Advertising in the Bulletin

Further to the minutes of the April 2001 meeting of the Executive Council (Item 9.2.5), the

Finance Committee is reminded to review the Society's advertising policy with respect to finances and in consultation with the Publications Committee. Action: J. O'Hara.

9.2.4 Scientific Editor

Report received. Editor Jean Turgeon summarized activities of his office including manuscript processing and assessment, number and origin of manuscripts, and C.P. Alexander Reviews. Dr Chris Lucarotti has agreed to serve as an Associate Editor and will handle submissions on pathogens. Drs. Imre Otvos and Jackie Robertson resigned as Associate Editors. Their services to the Society were much appreciated and this will be acknowledged in a letter from President Foottit. Action: R. Foottit.

9.2.4.1 Parallel Publishing

A comprehensive report on electronic publishing prepared by J. Turgeon and sent to the Publications and Finance Committees was circulated. A three-year contract with NRC is anticipated and is felt to be to the benefit of the Society. Security of subscriptions is essential to the financial health of the Society. A contract for parallel publishing needs to be in place to deliver parallel publishing by July 31st, 2002, the deadline for institutional subscription renewals.

R. Lamb moved and R. Bouchier seconded that G. Gibson provide an analysis of the Society's subscription base and meet with NRC (Paul McClymont) by January 1, 2001 to clarify legal obligations, financial impacts, and security of subscriptions to conglomerates-multiple user institutions and independent institutions. Carried. Action: G. Gibson.

9.2.5 Editor - Bulletin

Report received. D. Johnson has replaced H. Barclay as Editor of the Bulletin. Putting at least some of the Bulletin on the website will guide the future form of the Bulletin. D. Johnson urges the Board to move on this plan and suggest ways to stimulate submissions to the Bulletin.

R. Foottit and B. Roitberg will meet with D. Johnson to ensure that the September 2001 issue of the Bulletin is published as soon as possible in the interest of the Society and to discuss the need for coeditors. Coeditors would facilitate timely publication of the Bulletin, input from amateur societies, addition of francophone/bilingual content, and the transfer of Bulletin content to the web site. Action: R. Foottit, B. Roitberg and D. Johnson.

9.2.6 Publications Committee. Report received.

Search for a New Editor

An ad hoc search for an editor of The Canadian Entomologist to begin December 2002 has not ended. Discussions with between potential editors (including co-editors) and R. Foottit, B. Roitberg and J. Turgeon are ongoing. Action: R. Foottit, B. Roitberg and J. Turgeon.

The Publications Committee recommends advertisement for the position in the Bulletin, that funds be budgeted to enable the new editor to convene a meeting of as many associate editors as

possible within the first year to review objectives and procedures, and that the existing stipend for the editor's assistant be extended as an enticement. Action: D. Johnson, G. Gibson.

9.2.6.2 Financial Support of external publications. No further action was taken.

9.2.6.3 Stipend (Directory of Entomological Education in Canada)

Troy Danyk will provide the 3rd-edition of the Directory of Entomological Education in Canada in October, 2002. This directory is linked to the ESC website. Notification of the new directory will be given in the Bulletin. P. de Groot moved and T. Shore seconded that Mr. Danyk's contribution be recognized with a \$100.00 stipend. Carried. Action: G. Gibson.

9.2.6.4 Url Change, File Access To Web, Biological Survey, Web Page On Science Policy, Password To Access Common Names List, Annual Meeting Guidelines On Web.

Webmaster Barry Lyons is addressing a change in url (to <http://www.esc-sec.org>), file access, passwords, and additional web pages such as science policy and annual meeting guidelines. In an email (Oct 3, 2001) to Secretary West, Vince Nealis (Chair of the Publications Committee) suggested that the Biological Survey would be better off managing its own web site rather than operating under the ESC's domain name. Action: President, B. Lyons, R. West.

9.2.6.5 Copyright/License to Publish

The Publications Committee recommended that the ESC obtain a license to publish rather than copyright for original material published in The Canadian Entomologist. G. Gibson will seek legal advice after a suitable copyright form is obtained. Action: G. Gibson, B. Roitberg.

9.2.6.6 Electronic Publishing. See item 9.2.4.

9.2.6.7 Advertising in the Bulletin

Further to the minutes of the April 2001 Executive Council meeting (Item 9.2.5), the committee is reminded to review the advertising policy of the Society with respect to Bulletin content and in consultation with the finance committee. Action: V. Nealis.

9.2.7 Nominations Committee

Report received. The following were nominated to stand for election in 2001:

Second Vice-President: David Gillespie, Charles Vincent. Director-at-Large: Gilles Boiteau, Lorraine Maclauchlan, Jon Sweeney, Lucie Royer and David Raworth

9.2.8 Elections Committee

Report received. 172 ballots were counted. Charles Vincent was elected as Second Vice-President. Jon Sweeney was elected as Director-at-Large. R. Lamb moved and T. Shore seconded that year 2001 ballots be destroyed. Action: R. Hallett.

9.2.9 Achievement Awards Committee

Report received. The committee recommended Dr John Spence to receive the Gold Medal, Dr.

Robert Bouchier to receive the C. Gordon Hewitt Award and Dr. John Laing to be recognized as a Fellow of the Society in 2001. R. Elliot moved and R. Lamb seconded that these recommendations be endorsed by the Board. Carried. No action required. No nominations were received for Honorary Membership.

9.2.10 Bilingualism Committee

Report received. Any requests for money to fund translations should be made to the Treasurer. Action: L. Royer.

9.2.11 Bylaws, Rules and Regulations Committee. Report received.

9.2.11.1 Amendment to Standing Rule VIII 3b (Elections)

R. Lamb moved and O. Olfert seconded that the phrase, "Members of the Elections Committee shall not be appointed more than three years in succession." be deleted. Carried. Action: R. West, M. Goettel. This amendment will allow the President to appoint experienced committee members wishing to continue to serve.

9.2.11.2 Amendment to Standing Rule IX.4 (Meetings)

R. Lamb moved and P. de Groot seconded that Standing Rule IX. 4 be changed to, "Whenever the ESC sends to an Affiliated Society a notice of acceptance of that Society's invitation to host a joint annual meeting, both the general meeting guidelines maintained by the ESC, and the recommended financial arrangements (as specified under clause 3), will be referred to and enclosed." Carried. Action: R. West, M. Goettel.

9.2.11.3 Amendment to Standing Rule IX (3) (addition of new subsection):

P. de Groot moved and R. Lamb seconded that Standing Rule IX (3) include, "iii. If a meeting is profitable after return of the ESC monetary advances then a portion of the profits, to be determined by the Affiliated Society, be returned to the ESC for donation to the ESC scholarship fund(s) or for other purpose(s) chosen by the Affiliated Society to promote entomology in Canada." Carried. Action: R. West, M. Goettel.

9.2.11.4 Amendment to Standing Rule II (4a):

R. Lamb moved and B. Roitberg seconded that Standing Rule II (4a) be changed to, "If dues are not paid by the date stated on the annual membership form, the rights and privileges of membership shall be suspended and the member's name shall be removed from the mailing list." Carried. Action: R. West, M. Goettel.

9.2.11.5 Amendment to Standing Rule II (4b):

O. Olfert moved and T. Shore seconded that Standing Rule II (4b) be changed to, "Reinstatement may be effected by paying the dues by the end of December of the same year. There is an additional charge of ten dollars (\$10.00) for late payment of dues." Carried. Action: R. West, M. Goettel.

9.2.11.6 Amendment to Annual Meeting Committee Guidelines

T. Shore moved and B. Roitberg seconded that the Annual Meeting Committee Guidelines include, "Duties: 7. Provide the Treasurer at least one month before* the annual meeting with the following information so that awards can be prepared:

(a.) Full proper name of all award winners as they are to appear on each award/certificate [Gold Medal Award, Hewitt Award, Service Award(s) (President & outgoing Trustees), Fellowship Award, Scholarship Award(s), Travel Award(s), Criddle Award, Honorary Membership] [*Note, the information on the Gold Medal winner needs to be provided at least two months before the AGM].

(b) The date upon which each award shall be presented.

(c) The names of all award winners who will not attend the annual meetings to accept the awards and a proposal for an alternate venue of presentation (travel award cheques are normally issued to winners prior to the meeting date)."

Carried. Action: R. West and M. Goettel (change to guidelines), T. Shore (change to "How to Organize Annual Meetings").

9.2.12 Heritage Committee

Report received. The Index to Biography in Canadian Entomological Publications has been completed and will tentatively appear as a supplement to the Bulletin. Five articles have been published in the Bulletin by members or under the aegis of this Committee between September 2000 and June 2001.

9.2.13 Insect Common Names and Cultures Committee. Report received.

9.2.14 Membership Committee. Report received. Robb Bennett has resigned as Chair.

9.2.14.1 Joint/Family Membership

Further to an inquiry regarding the possibility of a 'Joint/Family membership' in the Society, the Board agreed that such a category of membership was not warranted. No action required.

9.2.15 Student Awards Committee

Travel grants were awarded to Ms. Heather White (University of Manitoba) and to Ms. Alida Janmaat (University of British Columbia). Mr. Scott Brooks (McGill University) was chosen to receive the Kevan award. PostGraduate Scholarships were awarded to Ms. Shelly Hoover (Simon Fraser University); and Ms. Eleanor Fast (McGill University). The committee is requested to remind students that expenses covered by the awards need to be itemized (for annual audits). Action: D. Gillespie.

Current interest rates are affecting the annual income gained from the scholarship funds. G. Gibson suggested that the following actions be considered:

- Creation of a fund-raising form including a concise description of the purpose of each scholarship fund,
- Creation of a web page to give information on how to donate funds to the scholarship committee,
- Creation of an ad hoc committee to solicit funds for the scholarship committee
- Charge the Bulletin Editor to include a section on scholarship funding when appropriate (e.g., to occupy unfilled page space, add to thin bulletin issues),

Bob Elliot moved and O. Olfert seconded that the President appoint an ad hoc committee to provide guidelines on how to attract funding (e.g., as suggested above) and to directly raise funds for Scholarship funds. The ad hoc committee is expected to provide a report to the Executive Council prior to its meeting in April 2002. Action: B. Roitberg, Ad hoc Scholarships Funding Committee.

9.2.15.1 Conference Travel Award Guidelines

The Student Awards Committee is charged with writing guidelines for the Conference Travel Award. Action: D. Gillespie.

9.2.15.2 Award Posters

The Board approved Chair Gillespie's suggestion that a line be added to announcements advertising the student awards stating that applications will be judged on scientific merit, and that awards will only be bestowed upon deserving candidates. Action: D. Gillespie.

9.2.16 Science Policy Committee. Report received.

9.2.16.1 Endangered Species Legislation

The Committee will circulate a draft of a letter responding to the proposed legislation to the membership for comments and revision. The letter then will be sent by the President to the Prime Minister by November 30, 2001. Copies of the letter should also be sent to the media. Action: S. Smith, B. Roitberg.

9.2.16.2 Media Releases

S. Smith moved and R. Lamb seconded that the Science Policy Committee be charged with

identifying issues requiring a press release, drafting press releases, and distributing press releases to the appropriate places (via a university press office or other mechanism approved by the Executive Council). Carried. Action: Science Policy Committee.

R. Bouchier moved and O. Olfert seconded that the above duties be added to the Guidelines for the Science Policy Committee. Action: M. Goettel, R. West.

R. Lamb moved and R. Bouchier seconded that the guidelines for the Annual Meeting Committee include the following duties:

- Inform the local arrangements committee that the Science Policy Committee is available to help issue press releases of interest to the hosting Society.
- Ensure that press releases provided by the Science Policy Committee are distributed to local media." Carried. Action: R. West, M. Goettel, T. Shore.

9.2.17 Student Affairs. Report received.

The Committee is creating a list of the names, research interests and expected graduation date of student members. It was suggested that this information could be obtained from a form circulated to student members when they join or renew their memberships. J. Savage is working with B. Lyons to make this list accessible from the ESC web site. Action: J. Savage, B. Lyons.

D. Hunt suggested that J. Savage contact the student representative to the Entomological Society of Ontario who is working on a similar project. Student representatives of other affiliated societies may also be interested in participating. This interaction may attract additional students to join the Society. Action: J. Savage.

New committee members will be appointed by B. Roitberg in consultation with J. Savage. Action: B. Roitberg, J. Savage.

The board is in favour of student symposia/student workshops at annual meetings. R. Bouchier and J. Savage will provide procedural recommendations to the Executive Council prior to its meeting in April 2002. Action: R. Bouchier, J. Savage.

9.2.18 Marketing Committee. Report received.

9.2.18.1 DPVCC Book Marketing

The brochure was updated in 2001 and cost-shared with the Canadian Phytopathological Society. A copy of the DPVCC book and some brochures (complete with pricing in USD) was sent to the Book Exhibit for the ESA 2001 Annual Meeting in San Diego, California. The exhibit cost was \$60 USD.

9.2.19 Annual Meeting Committee. Report received.

A five-year meeting plan (2001-2005) has been tentatively arranged. The guidelines, "How to Organize an Annual Meeting", now specify that the Chair of the Annual Meeting Committee is

the ESC contact person for the Regional Society hosting the Annual Meeting.

9.2.19.1 Discount for Members to Attend Annual Meeting

P. de Groot moved and S. Smith seconded that the differential fee schedule proposed by the Entomological Society of Manitoba (Regular Members of ESC or ESM - base fee (to be determined); Regular non-members - base fee plus \$25; Student Members and non-members - student base fee) be endorsed for the 2002 ESM-ESC Joint Meeting. Carried. Action: R. Lamb, Patricia Mackay.

A differential fee for 2003 will be discussed with the ESBC. Action: Annual Meeting Committee. The board charged the Annual Meeting Committee to investigate the possibility of joint meetings with other professional societies when appropriate. Action: P. de Groot.

9.2.20 Affiliated Entomological Societies

Reports were received from all Affiliated Societies and will be published in the December 2001 issue of the Bulletin. The Board encourages insect fairs/insect identification workshops at annual meetings to attract members of the general public.

9.3 Other Business. There was no other business.

Adjournment of meeting: The meeting was adjourned at 1350 h following a motion by T. Shore and seconded by O. Olfert. The next meeting of the Governing Board will be held at 12:00 h at the Sheraton Fallsview Hotel and Conference Centre, Niagara Falls on October 24, 2001.

**Minutes:
Entomological Society of Canada 51st Annual General Meeting
Sheraton Fallsview Hotel and Conference Centre,
Niagara Falls, Ontario, October 23, 2001**

President R. Footitt called the meeting to order at 1645 h. Forty-six members were present.

1. Notice of Meeting. Notices of the meeting were published in the March and June 2001 issues of the Bulletin (Vol. 32).

2. Proxies. There were no proxies.

3. Additions to the Agenda and Approval of the Agenda.

G. Boivin moved and T. Wheeler seconded that the agenda be accepted. Carried.

4. Deceased Members of the Entomological Community.

R. West thanked Ed Becker who kindly writes letters of condolence to the families of the deceased on behalf of the Society. A moment of silence was observed in memory of the following members of the Entomological Community who passed away during the past year:

Walter Askew, Betty Griffis, Pat Pielou, Harry Wressel, Genevieve Watt, Daisy Morris, Lin Lindquist, Ann Dyer, Charlie Lilly, Bill Foott, Alec Jones, Dave Hardwick, John Robinson, Reg Underwood, Alma Criddle, John Robinson, Emma Carmody, Bill Ricker, Ken Elliot, Lloyd Putnam, and Gary Wilson.

5. Minutes of the 50th Annual General Meeting.

Minutes of the 50th Annual General Meeting were printed in the March 2000 issue of the Bulletin (Vol. 33). H. Danks moved and R. Lamb seconded that the minutes be accepted. Carried.

6. Business Arising from the Minutes. There was no business arising from the previous minutes.

7. Report from the Governing Board.

President R. Foottit 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, 2001 Bulletin (Vol. 33).

7.1 Changes to Standing Rules

7.1.1 Amendment to Standing Rule VIII 3b (Elections)

M. Goettel moved and O. Olfert seconded that the phrase, "Members of the Elections Committee shall not be appointed more than three years in succession." be deleted. Carried. Action: R. West, M. Goettel. This amendment will allow the President to appoint experienced committee members wishing to continue to serve.

7.1.2 Amendment to Standing Rule IX.4 (Meetings)

In order to correct an error, M. Goettel moved and R. Lamb seconded that Standing Rule IX. 4 be changed to, "Whenever the ESC sends to an Affiliated Society a notice of acceptance of that Society's invitation to host a joint annual meeting, both the general meeting guidelines maintained by the ESC, and the recommended financial arrangements (as specified under clause 3), will be referred to and enclosed." Carried. Action: R. West, M. Goettel.

7.1.3 Amendment to Standing Rule IX (3) (addition of new subsection):

M. Goettel moved and G. Boivin seconded that Standing Rule IX (3) include, "iii. If a meeting is profitable after return of the ESC monetary advances then a portion of the profits, to be determined by the Affiliated Society, be returned to the ESC for donation to the ESC scholarship fund(s) or for other purpose(s) proposed by the Affiliated Society to promote entomology in Canada." Carried. Action: R. West, M. Goettel.

7.1.4 Amendment to Standing Rule II (4a):

M. Goettel moved and Y. Prévost seconded that Standing Rule II (4a) be changed to, "If dues are not paid by the date stated on the annual membership form, the rights and privileges of membership shall be suspended and the member's name shall be removed from the mailing list." Carried. Action: R. West, M. Goettel.

7.1.5 Amendment to Standing Rule II (4b):

M. Goettel moved and T. Shore seconded that Standing Rule II (4b) be changed to, "Reinstatement may be effected by paying the dues by the end of December of the same year. There is an additional charge of ten dollars (\$10.00) for late payment of dues." Carried. Action: R. West, M. Goettel.

8. Auditor's Report

G. Gibson presented the Auditor's Report for 2000. G. Gibson moved and G. Boivin seconded that the Auditor's report be accepted. Carried. No action required.

9. Elections Committee Report

R. West read the Elections Committee report. Those elected were: Dr. Charles Vincent Second Vice-President; and Dr. Jon Sweeney, Director-at-Large.

10. Installation of Officers

President Foottit called on D. Johnson to escort C. Vincent, Second Vice- President, to the dais then turned the gavel over to B. Roitberg 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 Roitberg thanked R. Foottit, outgoing President for his service to the Society and presented him with a service award.

12. Appointment of Auditor

G. Gibson moved and P. Dixon seconded that McCay, Duff, and Company be retained as Auditors for 2002. Carried. Action: G. Gibson.

13. Resolution

At the request of President Roitberg, H. Danks presented the following resolution on behalf of the Entomological Society of Canada:

13.1 Thanks to Organizing Committee:

Whereas the Entomological Society of Canada has met jointly with the Entomological Society of Ontario at the Sheraton Fallsview Hotel, Ontario, October 20-24, 2001; 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 Niagara Falls 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 Sheraton Fallsview Hotel for their courteous assistance during the Meeting."

Carried. Action: R. West

14. New Business

15. Notice of 52nd Annual General Meeting

The 52nd Annual General Meeting will be held October 5-9, 2002 with the Entomological Society of Manitoba in Winnipeg at the Delta Winnipeg Hotel. Further notices for the meeting will be published in the March and June 2002 issues of the Bulletin (Vol. 34). Action: D. Johnson.

16. Adjournment. President Roitberg adjourned the 51st Annual General Meeting at 1708 h following a motion by D. Johnson.

**Minutes:
Entomological Society of Canada Governing Board Meeting
Sheraton Fallsview Hotel and Conference Centre,
Niagara Falls, Ontario, October 24, 2001**

The meeting was called to order at 1220 h by President B. Roitberg. Those present were B. Roitberg, President; C. Vincent, Second Vice-President; R. Foottit, Past-President; P. de Groot, O. Olfert, and J. Sweeney, Directors-at-Large; T. Shore (ESBC), R. Bouchier (ESA), R. Elliot (ESS), R. Lamb (ESM), and D. Hunt (ESO), Directors from Affiliated Societies; J. Turgeon, Editor of The Canadian Entomologist; G. Gibson, Treasurer; and R. West, Secretary.

1. Notice of Meeting

Notice of this meeting was emailed on August 29, 2001 and printed in the March and June (2001) issues of the Bulletin.

2. Absences and Proxies

S. Smith, N. Larocque (SEQ), G. Boiteau (AES), D. Johnson and Jade Savage were absent. There were no proxies.

3. Additions to and approval of the Agenda

R. Foottit moved and O. Olfert seconded that the agenda be approved. Carried. No action required.

4. Minutes of Previous Governing Board Meeting

Minutes of the Governing Board meeting held on October 20, 2001 will be circulated to the Board by the Secretary and published in the December Bulletin. Action: R. West.

5. Business Arising from Previous Governing Board Meeting

There was no business arising from the previous minutes.

6. Other Business

6.1 Appointments

6.1.1. Executive Council

R. Lamb moved and C. Vincent seconded that the Executive Council for 2001-2002 be: B. Roitberg, President; S. Smith, First Vice-President; C. Vincent, Second Vice-President; and R. Foottit, Past-President. Carried. No action required.

6.1.2. Trustees

R. Foottit moved and R. Bouchier seconded that the Trustees for 2000-2001 be:

Treasurer G. Gibson

Scientific Editor (The Canadian Entomologist) J. Turgeon

Bulletin Editor D. Johnson

Secretary R. West

Carried. No action required.

R. Foottit moved and C. Vincent seconded that "the 2002 unaccounted expenses for trustees of the ESC shall be as follows: Bulletin Editor - \$625; Journal Editor - \$1,000; Secretary - \$1,000; Treasurer - \$1,000". Carried. Action: G. Gibson.

6.1.3. Committees and Representatives

O. Olfert moved and T. Shore seconded that the Governing Board approve the list of Committees and Representatives for 2001-2002 as prepared by the President and further that the Governing Board accept the President's appointees to remaining positions to be filled. Carried. Action: B. Roitberg.

The President will provide R. West with the completed list of Committee Chairs and appointees and write to all Committee Chairs and Representatives confirming their appointments for 2001-2002. Action: B. Roitberg.

The Secretary will send terms of reference and Committee Guidelines to all new Chairs. Action: R. West.

6.2 Budget

R. Foottit moved and T. Shore seconded that the budget for 2002, as presented by the Treasurer, be approved. A net surplus of \$12,000.00 is anticipated. Carried. Action: G. Gibson.

7. New Business

7.1 Bulletin Information from Regional Directors

Regional Directors were asked to send articles from regional newsletters and/or other information for publication in the Bulletin. Action: Regional Directors.

7.2 Reprint costs

R. Lamb moved and O. Olfert seconded that the Finance Committee propose suitable page charges for printed and electronic reprints of *The Canadian Entomologist* following renegotiation of the ESC-NRC contract by the President. A report from the Finance Committee to the Executive Council is expected by March 1, 2002.

Carried. Action: J. O'Hara.

7.3 Thelma Finlayson Endowed Chair

R. Bouchier moved and C. Vincent seconded that the Board endorse the establishment of the Thelma Finlayson Chair in Biological Control at Simon Fraser University. Carried. B. Roitberg will send a letter of endorsement to the Dean of Science at Simon Fraser University on behalf of the Society. Action: B. Roitberg.

The Board recommended that notice of this endorsement and additional details on the establishment of the chair be published in the Bulletin. Action: D. Johnson.

7.4 Photographs of Canadian Insects on the Web

As a contribution from the Science Policy Committee, the new Chair, C. Vincent, will initiate a program to obtain donations of insect photographs for public access from the ESC web site. C. Vincent will arrange for the appropriate waiver forms and contact B. Lyons regarding uploading of jpeg files. C. Vincent will present a policy statement for this program at the Executive Council Meeting in April 2002. Action: C. Vincent.

8. Next Meeting

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

9. Adjournment

The meeting was adjourned by President Roitberg at following a motion by R. Lamb seconded by J. Sweeney.

ESC Committee Reports – October, 2001

Treasurer (G. Gibson) (item 9.2.2)

A. 2000 Audit

The 2000 audit of Societal finances by McCay, Duff & Company shows a net increase of Societal assets of \$65,867 (page 2: \$636,443; \$570,576), compared with a net increase in 1999 of \$24,412. This is good news, both because the Society's net revenue increased in 2000 and because this increase was substantial over that of 1999. The increase in net revenue results primarily from the Societal General Fund realizing a net revenue of \$68,613 compared with a budgeted revenue of \$651 (page 5). The much larger realized General Fund net revenue resulted from three main items:

- 1) \$12,189 gain on currency exchange (not a budgeted item)
- 2) \$26,010 less cost for publishing and mailing of the Canadian Entomologist than budgeted. (This lesser expenditure resulted primarily from the Borden tribute issue being published as a regular issue rather than the budgeted special issue, and because the Society retained its publications assistance from Heritage Canada for mailing TCE in Canada.)
- 3) \$14,664 less cost of meetings than budgeted

As usual, the Building Fund audit includes an amortization 'paper loss' of \$5,393 for taxation purposes. Consequently, the real operating loss of maintaining the Headquarters was \$2,029 rather than \$7,422 (page 11), for a monthly operating cost of \$169.00. The operating loss is somewhat greater than the 1999 real loss of \$1,194. The Endowment Fund incurred a net loss of \$232. The Scholarship Fund realized a net profit of \$4,908, which includes \$1,069 recovery of grants awarded in 2000, \$2000 special funds toward establishment of a new student travel fund to attend ESC meetings, and \$2,475 toward establishment of a new "John Borden" award.

B. Diseases and Pests of Vegetable Crops in Canada

During 2000, \$7,000 was reimbursed to the ESC from the Book Project. Gross revenue for 2000 was \$17,493 versus \$23,364 for 1999, \$23,738 for 1998 and \$27,838 for 1997. This shows a general decline in sales annually, whereas the annual review of the Book Project finances continues to cost the project \$1,000/year. As of April 1, 2001, the remaining stock of unsold books were transferred to the ESC Headquarters because the publishers lease expired and they were no longer able to house the inventory. This means that the Societal Office Manager now has complete responsibility for all shipping and handling of orders.

C. Year in Review

The Office Manager's contract was successfully renegotiated through 2003. The oil furnace in Headquarters is being replaced by a new natural gas furnace; a tree will have to be removed from the property because of proximity to the house foundation. The draft budget to be submitted to the Incoming Board Meeting will propose a surplus in Societal net revenue for 2002, but budgetary estimates are tentative because a new contract needs to be negotiated with National Research Council for publishing *The Canadian Entomologist* in 2002, including any extra costs that could be incurred investigating on-line publication. All costs involved with on-line publication will have to be analysed carefully, including those involved with security vs. member and institutional subscriptions, on-line client support, archiving, secondary income sources (e.g., reprints). Even though Societal finances will permit transfer of funds from general operations into our Investment Fund in 2002, I am forecasting a decrease in interest revenue because bonds mature annually and current interest rates (4.9%) are much less than previous rates.

Finance Committee (J. O'Hara, Chair) (item 9.2.3)

A meeting of the Finance Committee was held on 5 October 2001 to discuss the Treasurer's 2002 budget and other matters relating to the mandate of the Committee. Present: J.E. O'Hara (Chair), P.G. Mason, D.J. Parker, M.J. Sarazin and G.A.P. Gibson (Treasurer).

The Treasurer's 2002 budget was reviewed. The budget appears to be in good order and a surplus is expected in the coming year. The Treasurer proposes investing \$12,000 of the surplus into the Investment Fund, and this action is supported by the Finance Committee as a measure to help ensure the financial stability of the Society in future years.

Memberships and subscriptions are expected to decline slightly again in the coming year. The financial loss due to these declining revenues is not very serious, but other potential costs in the next year or so could erode away some of the surplus the Society presently enjoys. One of these is cost of publishing, which must be renegotiated with NRC at the end of December 2001 and could be more expensive than at present (though note that the Treasurer has budgeted for an increase in 2002 of \$2000 in Can. Ent. production costs). Another significant cost might be parallel publishing of Can. Ent. The Executive must be cautious when exploring the cost of implementing and running an online version of Can. Ent. that declines in memberships and subscriptions do not result, as the Society can ill afford both the cost of publishing online and a decline in revenue.

Scientific Editor (J. Turgeon) (item 9.2.4)

Number and origin of submissions. The number of submission received in **2000** was much higher than in 1999, averaging about 16 submissions per month (Table 1). This increase was due primarily to the publication of a special issue - The Borden Tribute.

Table 1. Number and type of submissions

| Type | 1998 | 1999 | 2000 | 2001 |
|--------------------------|-----------------|-----------------|-----------------|-----------------|
| | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> |
| Review | 1 | 3 | 1 | 0 |
| Standard | 94 | 83 | 158 | 100 |
| Note | 22 | 17 | 23 | 21 |
| Forum | 0 | 1 | 2 | 0 |
| Total <i>n</i> | 117 | 104 | *184 | **121 |
| Original submissions (%) | | 89 | 89 | 82 |

* includes 31 submissions for inclusion in the Special issue “Borden Tribute”

** as of 30 Sep 2001

The number of manuscripts received thus far in **2001** averages about 13 submissions per month. This number is in line with 2000 if we exclude the 31 submissions from 2000 destined for the Borden Tribute), and (Table 1). These numbers continue to represent a marked increase in the number of submissions received annually since 1998.

There were 4 publication delays (*i.e.*, the date of issue occurred in the second month covered by the issue rather than the first ($n = 2$), or the next month ($n = 2$)) in **2000**. No delays have occurred in **2001** and none are expected.

As in previous years, most manuscripts submitted in 2000, and thus far in 2001, have originated from Canada (Table 2). The trend reported in last year’s report (*i.e.*, the proportion of submissions from Canada has been decreasing steadily since 1998) is continuing. This is the first time the proportion of submissions from North America represents less than 80% of the total number of submission.

Table 2. Origin of the submissions received by TCE

| Origin | 1998 | 1999 | 2000 | 2001 |
|----------------------------------|-------------|-------------|-------------|-------------|
| (%) | (%) | (%) | (%) | (%) |
| NORTH AMERICA | | | | |
| Canada | 67.5 | 60.6 | 53.6 | 48.8 |
| United States | 14.5 | 17.3 | 27.3 | 24.0 |
| Mexico | 3.4 | 5.8 | 2.2 | 5.0 |
| CENTRAL AND SOUTH AMERICA | | | | |
| Brazil | 0.9 | . | . | . |
| Uruguay | 0.9 | . | . | . |
| Argentina | . | 1.0 | 1.6 | 0.8 |
| Guadeloupe | 0.9 | . | . | . |
| EUROPE | | | | |
| Spain | 4.3 | 4.8 | 2.7 | 0.8 |
| Yugoslavia | 1.7 | . | . | . |
| Sweden | 1.7 | . | 0.5 | . |
| France | 0.9 | 1.0 | . | . |
| Italy | . | 1.9 | 0.5 | 1.7 |
| Ireland | . | 1.0 | . | . |
| Czech Republic | . | 1.0 | . | . |
| Poland | . | . | 0.5 | . |
| Hungary | . | . | 0.5 | . |
| Germany | . | . | 0.5 | . |
| Finland | . | . | 0.5 | . |
| Greece | . | . | 0.5 | 1.7 |
| Turkey | . | . | 0.5 | 0.8 |
| UK | . | . | 0.5 | 0.8 |
| Belgium | . | . | . | 0.8 |
| AFRICA | | | | |
| Morocco | 1.7 | . | . | . |
| Egypt | . | 1.0 | . | . |
| Syria | . | . | 0.5 | . |
| Algeria | . | . | . | 1.7 |
| ASIA | | | | |
| Japan | 0.9 | 3.8 | 2.7 | 1.7 |
| China | . | . | 2.2 | 5.8 |
| India | . | 1.0 | 0.5 | 3.3 |
| Pakistan | . | . | 1.1 | 0.8 |
| Thailand | . | . | 0.5 | . |
| South Korea | . | . | . | 0.8 |
| Korea | . | . | . | 0.8 |
| New Zealand | 0.9 | 0.9 | . | . |
| Australia | . | 0.9 | . | . |
| TOTAL | 117 | 104 | 183 | 121 |

Handling. The amount of time required to find qualified and willing referees has remained relatively stable over the past 3 years, taking on average about 10 work days (Table 3).

In 2000, the handling time (number of weeks between the date a submission is received by me and the date an evaluation is returned to the author(s)) was similar to 1998 mainly because (as indicated in last year's report), for some reason, the submissions for inclusion in the Borden Tribute took much longer to be returned than the other submissions. So far in 2001, we are back to what I consider acceptable handling times.

Table 3. Time to find referees, handle manuscripts and publish submissions in TCE

| <u>Time to:</u> | <u>1998</u> | <u>1999</u> | <u>2000</u> | <u>2001</u> |
|----------------------|-------------|-------------|-------------|-------------|
| Find Referees (days) | 10.6 | 9.1 | 10.6 | 8.9 |
| Handle(weeks) | 12.4 | 10.0 | 12.6 | 9.7 |
| ≤12 weeks (%) | 56.4 | 65.4 | 51.9 | 62.0 |
| 13-16 weeks (%) | 23.1 | 24.0 | 25.7 | 30.4 |
| ≥17 weeks (%) | 20.5 | 10.6 | 22.4 | 7.6 |
| Publish (months) | 9.6 | 7.6 | 7.8 | 6.4 |

Since 1999, the average amount of time required to see a submission in print remains below 8 months; most manuscripts (>87%) are published within 9 months of receipt (Table 3). Those taking much longer are typically manuscripts originating from outside North America that require extensive editing on my part.

Table 4. Assessment of manuscripts submitted to TCE

| <u>Verdict</u> | <u>1998</u> | <u>1999</u> | <u>2000</u> | <u>2001</u> |
|--------------------------|-------------|-------------|-------------|-------------|
| | <u>(%)</u> | <u>(%)</u> | <u>(%)</u> | <u>(%)</u> |
| Suitable | | | | |
| Minor | 28.2 | 23.1 | 21.3 | 26.8 |
| Major | 29.1 | 34.6 | 33.3 | 25.4 |
| Unsuitable, re-review | 20.5 | 18.3 | 24.6 | 15.5 |
| Unsuitable | 22.2 | 24.0 | 20.8 | 32.4 |
| <i>n</i> | 117 | 104 | 183 | *71 |

(* as of 30 Sep 2001)

Assessment. For the past 4 years, the proportion of suitable submissions has fluctuated around 55% (Table 4), irrespective of the number of submissions.

CP Alexander Reviews. None appeared in 2000 or 2001.

Associate Editors. In spring 2001, Dr Imre Otvos indicated his desire to step down after many years of service as Associate Editor for our Journal. His assistance to our Society have been extremely valuable. In summer 2000, Dr Jackie Robertson, one of our Associate Editors became ill. I have tried many times to contact her since then, but without success. I have to assume that she will no longer act as a specialist in insecticide resistance and commodity treatment. The contributions of these two AE to our Journal should be acknowledged officially by the Society.

In September 2001, Dr Chris Lucarotti of NRCan -CFS, Fredericton agreed to serve as an Associate Editor for our Journal and will be handling submissions on pathogens. Earlier in the year, Dr Barbara Ekblom of the Swedish University of Agricultural Sciences has also agreed to serve as an Associate Editor for submissions dealing with Conservation, Diversity and community structure, and insect plant interactions.

Handling costs. The cost of handling manuscripts in 2000 and 2001 was limited predominantly to office supplies and 1st class postage from my desk to authors and referees, and to the ESC head office. I believe that cost was below \$1000 in each year. At its 2000 Annual Meeting, the Board approved my request to hire an assistant to process manuscripts. In February 2001, I hired a high school student, Laura McGonigal, to assist me with data entry, preparation of correspondence, tracking, filing, etc. Currently, she works between 3-10 h per week, resulting thus far in total expenses of about \$950. I expect this amount to reach slightly more that \$1500 by the end of the year.

All others costs (i.e., phone and Fax lines, E-mail services, technical support for the computer and Priority Post service between my office and NRC Research Press) are amalgamated with my work office because it would be too cumbersome to separate these costs.

Electronic publishing. A report was submitted to the Publication Committee and the Finance Committees in early October 2001. It contained *i*) background information on the issues that need to be addressed by the Society (i.e., costs, archiving and copyright requirements and reprints) if it wants to proceed with the publication of a parallel electronic version of its journal, and *ii*) several recommendations on how to proceed. A copy of this report is attached. To proceed with parallel publishing, the Society needs to obtain the copyrights of the papers published in its Journal. Thus, I have also provided the Publication Committee with a suggested form to be signed by contributing authors together with some notes on the assignment of copyrights that typically accompany such forms. I expect the Publication and Finance Committees to present recommendations to the Board on whether to proceed, and if so how.

Items for Action. Letter from the President thanking Dr Otvos and Dr Robertson for their many years of service as Associate Editors for The Canadian Entomologist.

Bulletin Editor (D. Johnson) (item 9.2.5)

As of this writing, all four issues of the ESC Bulletin Volume 33 have been published. Hugh Barclay handled the March issue as his last issue as Editor. I took over from Hugh in April, and cut my teeth on the June issue (Vol 33, No. 2, pp. 65-93). The June issue included a President's Report, details of the Joint Meeting of the Entomological Societies of Ontario and Canada, Committees lists, Student Awards, and an Auditor's Report (abbreviated; my error). Significant space was devoted to student announcements and information, including the Keith Kevan Scholarship, Research Travel Grants, Postgraduate Awards and jobs. News of organizations announced a range of meetings, workshops, websites (not too useful until we put the links on the ESC website), databases and announcements. The heritage section included articles on L.S. McLaine and M.L. Prebble.

When I began this duty earlier this year, I did not have the Quark software that Hugh Barclay had been using, so I prepared the June issue in Word Perfect. Changes in the process are planned.

I have sent several requests to ESC and affiliate members, asking for articles and news, but it is surprising how few items are submitted. I have even greater respect for former Bulletin editors now. I made the radical and no doubt unpopular decision to hold the otherwise very thin fall issue until I could see people in person at the meeting, and not only beat the bushes for more material, but also hear what the Executive what it has in mind for the Bulletin.

We agreed last year to put at least some of the Bulletin on the website, and this will guide the future form of the Bulletin. We need to move on this plan, and we need to find ways to stimulate submissions to the Bulletin. It is also important that submissions to the Bulletin be submitted before the deadlines, if they are to be included in the Bulletin.

In 2002, we will assign an assistant editor, to ensure greater coverage of news and events in Canada, and to provide additional resources for preparation of articles and reports.

Dan Johnson, Bulletin Editor

Publications Committee (V. Nealis, Chair) (item 9.2.6)

Committee Membership: Changes to Publications Committee membership were approved by the Executive Council at the interim meeting in April, 2001. The updated list of members is given in volume 33 (2) of the *Bulletin*.

Editors: Dan Johnson is now editor of the *Bulletin*. Our thanks to both Dan and the former editor, Hugh Barclay, for ensuring a seamless transition.

An *ad hoc* search for an editor of *The Canadian Entomologist* to begin December 2002 has not been successful. Given that we need to find a replacement within the next year, the Publications Committee recommends advertisement for the position in the *Bulletin*. We also recommend that a budget be set aside to enable the new editor to convene a meeting of as many associate editors as possible within the first year to review objectives and procedures and that the existing stipend for the editor's assistant also be extended as enticement.

No further action was taken on a request for translating a publication by Dr. S. Castonguay.

Troy Danyk will provide the 3rd-edition of the Directory of Entomological Education in Canada in October, 2002. This directory is linked to the ESC website. Notification of the new directory will be given in the *Bulletin*. The Publications Committee would like to acknowledge Troy's ongoing contribution with a \$100.00 stipend.

Book Reviews: In 2001, the Publications Committee sent copies of volume 31 of the *Bulletin* to all publishing houses whose books were reviewed in that volume. Subsequently, several new books were received in 2001. Seven (7) reviews are still outstanding meaning that the original request for a 3-month timeframe has been exceeded by at least a further 3 months and a subsequent reminder still produced no review. Currently 4 books are available for review and these have been announced in the *Bulletin*. Although notification in the *Bulletin* of books received may solicit more reviewers, it will not ensure that reviews will eventually be received.

Copyright: The issue of copyright has reached the stage that it requires legal advice. Beginning in May 2001, the Publications Committee began informing people seeking permission to reprint material previously published in TCE that the ESC did not hold copyright on this material and so the ESC could not give permission to reprint. This change in practise was reported to the President, Bob Foottit. A related issue is collecting royalties on published material archived and redistributed by Bell and Howell. The Treasurer, Gary Gibson, informs me that he believes the ESC has received royalties from this company and so a legal opinion as to right of ESC to collect this royalty is necessary.

The Publications Committee recommends that the ESC obtain a license to publish rather than copyright for original material published in *The Canadian Entomologist*. Jean Turgeon is preparing a draft licencing agreement. The agreement will seek the senior author's permission to

publish their work but presumably could have qualifications, such as permission for the ESC to reprint that material itself in the future. It may also be desirable to include our authority to continue to provide copies of the TCE for preparation of hard- and electronic facimilies for sale. This would address the issue of royalties with Bell and Howell. Also, what is our legal position vis-à-vis all material published to date for which we do not have an explicit licensing agreement with the authors? Is there a statute of limitations on back issues? In short, this matter needs now to go for legal opinion. Similar clarification is needed for the *Bulletin* where things such as the cover illustration has no copyright.

Nominations Committee (D. Johnson, Chair) (item 9.2.7)

David Gillespie and Charles Vincent were nominated for Second Vice-President. Gilles Boiteau, Lorraine Maclauchlan, Jon Sweeney, Lucie Royer and David Raworth were nominated for Director-at-Large.

Elections Committee (R. Hallett, Chair) (item 9.2.8)

Charles Vincent was elected as Second-Vice President and Jon Sweeney was elected as Director-at-Large.

Achievement Awards Committee (B. Roitberg, Chair) (item 9.2.9)

Dr. John Spence was chosen as the Gold Medal recipient. Dr. Robert Bouchier was chosen as the recipient of the C. Gordon Hewitt Award. Dr. John Laing was selected as a Fellow of the Society.

Bilingualism Committee (L. Royer, Chair) (item 9.2.10)

In 2000-01, the Bilingualism Committee translated (1) some modifications for the web site, (2) biographies of candidates for the ESC ballots, (3) biographies of recipients of the Hewitt Award, Gold Medal and Honorary Member, (4) the logo caption of the ESC bulletin, and (5) the letter sent to the Awards officers of University. This work was done by the committee members.

The revision of both "Standing Rules" and "Committee guidelines" was temporarily let aside because most members of this committee were involved in the organization of the joint annual meeting in Montreal.

I would like to ask the Governing Board to allocate a budget of \$500.00 to the Bilingualism Committee, in case we receive requests for translation to long to be done by the committee

members.

Bylaws, Rules and Regulations Committee (M. Goettel, Chair) (item 9.2.11)

The Committee recommends to the Board that the following change be made to the Standing Rules:

Present wording (bold for highlighting purposes only):

IX. Meetings

4. Whenever the ESC sends to an Affiliated Society a notice of acceptance of that Society's invitation to host a joint annual meeting, both the general meeting guidelines maintained by the ESC, and the recommended financial arrangements (**as specified under clause 4**), will be referred to and enclosed.

Recommended wording:

4. Whenever the ESC sends to an Affiliated Society a notice of acceptance of that Society's invitation to host a joint annual meeting, both the general meeting guidelines maintained by the ESC, and the recommended financial arrangements (**as specified under clause 3**), will be referred to and enclosed.

The purpose of the proposed amendment is to fix an error and have reference to the proper clause.

Clause 3 reads as follows:

3. 3. The Society shall provide financial support specifically for the scientific program of the Annual Meeting in the amount of:
 - (i) Twenty-five hundred dollars (\$2,500.00) to assist with arranging the scientific program, such as notices of meeting, printing of programs, rental of conference halls, etc.
 - (ii) Up to fifteen hundred dollars (\$1,500.00) to pay expenses and honoraria for special speakers who, in general, would be other than Society members. The twenty-five hundred dollars (\$2,500.00) shall be paid as an unaccountable advance to the Affiliate hosting the meeting (or to the Program Committee) and the remainder paid as requested and shall be accounted for by the recipient.

Action by the Board: The Committee awaits further direction from the Board as to changes to the Standing Rules regarding the Elections Committee, which would allow committee members to serve longer than three years (as per minutes of the Executive Council Meeting, April 21, 2001).

The Bylaws, Rules & Regulations are awaiting translation by the Bilingualism Committee. Drs. Gilles Boiteau, Fredericton and Neil Holliday, Winnipeg remain as members of the Committee.

Heritage Committee (D. Eidt, Chair) (item 9.2.12)

The principal activity of the committee during the past year has been to complete the *Index to Biography in Canadian Entomological Publications*. Permission to publish has been given by the Executive Council and it will tentatively appear as a supplement to the Bulletin. Separates will be printed for Affiliates, librarians, and others whose help was essential. The manuscript has been completed and parts have been forwarded to the Bilingualism Committee for translation into French. We are aiming for the June 2002 issue of the Bulletin; we foresee that the December issue will be large because of the AGM.

Five articles have been published in the Bulletin by members or under the aegis of this Committee between September 2000 and June 2001:

- Just who was Walter Harrington? 32:77-78
- Just who was C.C. Smith? 32:78-79
- Net, Shovel and Screen. The Look-alikes. Reprinted in 33:89
- Who was LS McLaine? 33:90
- Who is ML Prebble? 33:91

Four others are in the hands of the editor to be published as the editor sees fit. Others are envisaged and Riegert and Eidt encourage persons who may be so inclined to contribute vignettes in the spirit of the 'Net, Shovel and Axe' series and the 'Who was..' series.

The papers of the late Reginald E. Balch have been deposited in the New Brunswick Archives in Fredericton. This was decided because we have been advised that it is not wise to split up the papers among different institutions. The NB Archives already has a Balch collection.

We continue to draw attention to the Newsletter for Senior Entomologists and Associates published by Dr. Ed Becker in support of retirees and the Canacoll Foundation. We urge members to keep Ed informed of deaths of entomologists and associates, both for information of members and retirees, and that letters of sympathy can be sent to survivors of the deceased. Another (perhaps macabre) thoughtful deed would be to provide Ed with some autobiographical information for an obituary when the inevitable event occurs. It is extremely difficult sometimes to get appropriate information.

The Programme Committee did not forward programmes and other articles from the Montreal meeting of the SEQ, ESA, and ESA. Riegert donated his personal copies. We urge, indeed plea with this year's Programme Committee to provide copies. We also urge the Heritage Lecturer at

this year's meeting to publish the lecture in the Bulletin.

Paul W. Riegert, Regina; Edward C. Becker, Ottawa; Robert Foottit, Ottawa, *ex officio*; Douglas C. Eidt, Fredericton, Chairman

Insect Common Names Committee (H. Chiasson, Chair) (item 9.2.13)

The Common Names Committee took some time in resuming activities because of major changes in the composition of the committee. The past chair, John Garland, stepped down at the Montreal meetings last year as well as Kathryn Nystrom as committee member. Since then, I accepted the position of chair and Michèle Roy of the Société d'entomologie du Québec agreed to sit on the committee as a representative of the Société. I hope to encourage someone at the Niagara Falls meetings this October to complete our membership (hopefully from another region of Canada). The activities of the committee have been concentrated on the urgent need to update the list and have French names approved for newly introduced agricultural pests in Quebec. This work had been started in the past and so we took the opportunity of having two members from Quebec on the committee to complete this work. At present, several names have been selected for turf and cranberry insect pests and in the following months, we wish to select names for greenhouse pests and beneficials. Jean-Francois Landry at ECORC has contributed greatly to the selection of names for the cranberry pests. This effort will aid growers in correctly identifying the insect fauna. It is important to note as well that the correct use of both French and English names by pest management companies operating in Quebec is required by the federal Pest Management Regulatory Agency. We would like to assure ESC members that our efforts on the committee will not be limited to this work. We are always ready to meet requests from across Canada and hope to stimulate activities through our meetings with ESC members in Niagara Falls.

Hélène Chiasson (Chair). Members: Michèle Roy (SEQ), Bob Foottit (ESC, *ex officio*)

COMITÉ DES NOMS COMMUNS (H. Chiasson, Chair) (item 9.2.13)

Rapport annuel

Le comité des noms communs a mis un certain temps à démarrer ses activités vus les changements majeurs survenus dans la composition du comité lors de la réunion annuelle à Montréal en décembre 2000. À ce moment, le responsable du comité, John Garland a délaissé ses fonctions et le mandat d'un membre, Kathryn Nystrom, a terminé. Depuis, j'ai accepté la responsabilité du comité et Michèle Roy de la Société d'entomologie du Québec s'est montrée intéressée à y siéger. Je compte solliciter un autre membre de la SEC (et espérons-le, d'une autre région du Canada) lors des rencontres à Niagara Falls afin de compléter notre comité. Depuis, les activités de ce nouveau comité se sont limitées à répondre au besoin urgent d'officialiser ou

de sélectionner des noms communs français de nouveaux ravageurs des cultures au Québec. Ce travail avait déjà été amorcé dans le passé et nous avons jugé bon de profiter de l'opportunité d'avoir deux membres du Québec sur le comité pour le compléter. Jusqu'à présent, plusieurs noms ont été sélectionnés pour désigner les ravageurs de gazon et de la canneberge et dans les mois qui viennent, nous nous attaquerons aux ravageurs et insectes bénéfiques des cultures de serre. Nous devons souligner que Jean-François Landry a mis son expertise à contribution pour le choix des noms des ravageurs de la canneberge. Ce travail aidera les producteurs ne mieux identifier et reconnaître les insectes de leurs cultures. Il faut également noter que présentement l'Agence de Réglementation de la Lutte Antiparasitaire du gouvernement fédéral exige que les compagnies de phytprotection utilisent les noms français et anglais officiellement sélectionnés lorsqu'elles travaillent au Québec. Nous voulons rassurer les membres de la SEC que nos efforts ne seront pas limités à la réalisation de cette tâche. Nous sommes toujours disponibles pour répondre à toute requête de tous les membres et espérons obtenir plusieurs suggestions d'activités à Niagara Falls.

Sincèrement,
Hélène Chiasson

Membership Committee (R. Bennett, Chair) (item 9.2.14)

1. Current Membership Committee Members are Robb Bennett (Chair), Lloyd Hollett (AES), Terry Shore (ESBC), Bob Lamb (ESM), Barry Lyons (ESO), Owen Olfert (ESS), Nancy Larocque (SEQ), vacant (Student Rep.), and Bob Foottit (ex-officio).

2. Membership Renewal. Subsequent to a recommendation from this Committee, in May 2001 ESC Executive presented a revamped membership application form (including a box for "renewal") to the ESC Webmaster for posting on ESC's homepage.

3. Other Membership Renewal Issues. In reflection of the bimonthly publication of TCE, ESC executive has set the renewal deadline forward from the end of December to the end of January to give members further time to renew without compromising the publisher's mailing list. Late renewal fees have been raised to \$10.00 (from \$5.00) in the hope of stimulating more timely renewal from tardy members.

Resignation of Membership Committee Chair. With this report, Bennett signifies his desire to resign as Chair of the Membership Committee.

Student Awards Committee (D. Gillespie, Chair) (item 9.2.15)

Kevan Scholarship Committee

Dave Larson
Terry Wheeler
Doug Currie

Scholarships Committee

Dan Quiring
Johanne Delisle
Judy Myers

I would like to thank the members of both committees for their dedicated service over the past year. Responses to requests for evaluation of applications were dealt with in a very timely fashion, and this made my job as chair very easy.

The research travel grant had 2 applications. Two grants were awarded to: Ms Heather White, University of Manitoba, to assist her travelling to Britain for the purpose of attending a short course on taxonomy and biology of parasitic Hymenoptera and consulting with experts regarding thesis problems; and to Ms Alida Janmaat, to assist her in travelling to Dept of Entomology, University of Arizona, to meet with Dr Bruce Tabashnik and become familiar with techniques for working with insect resistance to *B.t.*

Three applications were received for the Kevan award. The recipient will be Mr Scott Brooks. McDonald College, McGill University. Scott is studying the systematics of the subfamily Dolichopodinae (Diptera: Dolichopodidae).

Seven applications were received for the Post-Graduate Scholarship. The two scholarships were awarded to: Shelly Hoover, Department of Biological Sciences, Simon Fraser University, studying the evolution of mating strategies in social insects; and Eleanor Fast, Department of Natural Resource Sciences, McGill University, MacDonald Campus, studying biodiversity of acalyptrate Diptera.

A few issues arose during the course of the year. I was late modifying and circulating the travel awards notification. As a result, I wonder if we missed some applications. I will definitely be better prepared this year. A question did arise as to whether or not two awards should be given if only two applications are received. The discussion among the committee resulted in the committee deciding to award both applicants of the Travel Grant. Committee members felt that both applications were worthy. I think some further discussion among the student awards committee on this issue would be beneficial, and I would appreciate any feedback from the board. Similar situations could arise with the Postgraduate Scholarship and Kevan Award. I think a sentence in the announcement to the effect that applications will be judged on merit, and awards will not necessarily be bestowed.

The changes in wording resulted in all packages, with one exception, arriving with all of the necessary copies and documents. In the one case, this lack of attention did not have any affect on the fate of the application.

I have not yet asked the scholarship committee to address the question of eligibility of expenses in the travel grant announcement.

I have enjoyed my year as Chair of the Student Awards Committee, and look forward to continuing in this capacity.

Science Policy and Education Committee (S. Smith, Chair) (item 9.2.16)

Three issues were addressed by the Science Policy Committee since the last report in April 2001.

First, a request for financial support (\$200) for the public education program of the Association des Entomologistes Amateurs du Quebec was received and recommended by all committee members who responded (3). The Chair remembers that a similar request was received last fall (2000) from another amateur entomological society (probably in Manitoba), which was not circulated, but had a similar plan and amount for furthering public interest in entomology, that we would also like to recommend be funded by the Board.

Second, a general letter was sent to the membership alerting them to the current issue of Endangered Species Legislation that is being put before Parliament in Ottawa. The membership was encouraged to contact the Prime Minister directly about their concerns, but were also solicited for their thoughts on whether the ESC should be making a more collective response to this, as well as other entomological issues of national concern. We received 4 responses, all positive about the ESC responding to this specific issue with a general letter of concern about the proposed legislation. The committee will review this response and present a recommendation at the meeting of the Board on Saturday, 20 October 2001.

Third, the committee was asked to address the general need for a communications policy for scientific issues of national importance (e.g. the endangered species legislation above). Based on the feedback from one committee member (despite several prods), it appears that a policy and mechanism for making general 'press releases' to the public would be a useful way to raise the profile of the society and its issues nationally.

In keeping with this, it was clear that three components need to be addressed in order to make this a successful venture on the part of the Society, namely a means to: 1) identify the issues; 2) draft the releases; and 3) distribute the releases to the appropriate places.

Therefore, the Science Policy Committee proposes that the Society either use the Science Policy Committee, or designate a subcommittee made up of the appropriate people (either selected by the Board or by the Science Policy Committee, and which would include at least one 'non-technical person' to review the final draft) to deal with items 1 and 2. As suggested by the President in April, we would propose that item 3 be addressed by enlisting the help of an

appropriate university, in this case Simon Fraser University, as originally proposed. Rob Bouchier, who submitted the initial recommendation, nicely pointed out that articles arising from such 'press releases' by the ESC could result in 'free national advertizing' worth well over \$20,000/article.

Committee Members: Terry Shore, Rob Bouchier, Robert Elliot, Bob Lamb, David Hunt, Nancy Larocque, Keith Davies, Robert Foottit, Sandy Smith

Student Affairs Committee (J. Savage, Chair) (item 9.2.17)

Over the last few months, the Student Affairs Committee has been working on the creation of a list of all student members of the Society, and their research interests. We feel that this type of registry will benefit students by facilitating communication, cooperation and collaboration amongst student members of the Society, and with the Society membership as a whole. Once compiled, it will be sent to all students as well as posted on the ESC website. This is a long term project, as we are hoping the list will be updated regularly in the following years.

The deadline for submitting a short summary of ongoing research, keywords, and degree sought has been fixed to October 1. The response from student members has not been as strong as expected, but a brief reminder and an extension of the deadline to November 1 should increase the response rate. The project will not be completed by the end of our term, but will be carried on through the next months, hopefully with the cooperation of the new members of the Student Affairs Committee. Any suggestions on how to increase the response from students would be welcome.

Jade Savage (Chair), McGill University, jsavag1@hotmail.com; Bryan Sarauer, University of Saskatchewan, sarauerb@em.agr.ca; Chris Schmidt, University of Alberta, bjorn@ualberta.ca

Marketing and Fund Raising Committee (L. Braun, Chair) (item 9.2.18)

Following the success of the ESC booth at JAM last year, members of the Marketing Committee, together with A. Devine and G. Gibson discussed various marketing options for 2001, including presence at annual meetings and novel marketable items. After some discussion on the possibility of selling T-shirts at ESC annual meetings it was decided that this activity is best left to the local organizing committees hosting the joint annual meetings. L. Braun has been looking into costs associated with other saleable items, including a lapel pin/tie tack bearing the ESC logo. Initial inquiries into lapel pins indicate that costs would be between \$3 - \$4 per pin; mailing costs per item would be minimum postage rate; and selling price of \$7.50 - \$8.00 would result in a fair profit margin. It was suggested by G. Gibson that the Marketing Committee liaise with other

committee chairs (Student Affairs, Membership, Publications etc.) to develop smaller versions of the ESC poster that could be used yearly at annual meetings. The Chair takes full responsibility for not yet following up on this effort for the 2001 Annual Meeting, but fully intends to address this issue in the coming year. A copy of DPVCC and some brochures (complete with pricing in USD) was sent to the Book Exhibit for the ESA 2001 Annual Meeting in San Diego, California. The exhibit cost was \$60 USD.

The Chair of the Marketing Committee continues to liaise with the CPS Information Products Marketing Committee on efforts to sell remaining copies of the book Diseases and Pests of Vegetable Crops in Canada (DPVCC). Discussion during a conference call on 12 April 2001 between members of the CPS committee and L. Braun resulted in a request from L. Braun to the ESC to pay for one half the cost of the updated DPVCC brochures. A cheque for the sum of \$325.75 was mailed from G. Gibson to P. L. Sholberg, CPS Treasurer, on 8 May 2001. A supply of the updated DPVCC brochure was sent to A. Devine at the ESC office.

The Marketing Committee still has one vacancy. Members include Owen Olfert (AAFC Saskatoon) and Heather White (University of Manitoba), and Bob Footitt (*ex officio*).

Annual Meeting Committee (P. de Groot, Chair) (item 9.2.19)

This committee (of one person for now) was formed at the last AGM of the Society and was tasked with two primary responsibilities. The first task was to develop a five-year meeting plan. This has been achieved with the following affiliate Entomological Societies.

| Year | Society, and Contact Person |
|------------------|--|
| 2001 | Entomological Society of Ontario, Cynthia Scott-Dupree |
| 2002 | Entomological Society of Manitoba, Bob Lamb |
| 2003 | Entomological Society of British Columbia, Terry Shore |
| 2004 (tentative) | Acadian Entomological Society, Rachael Cheverie |
| 2005 (tentative) | Entomological Society of Alberta, Rob Bouchier |

The second task was to implement a differential fee structure for members and non-members of the host regional or national entomological society. Due to the advanced planning and prior arrangements made by the Entomological Society of Ontario for the 2001 meeting, a differential fee structure was not possible. Correspondence was initiated with Bob Lamb of the Entomological Society of Manitoba (regional host society of the 2002 joint annual meeting) and after discussion with the meeting organizing committee, they proposed the following differential fee structure:

The ESM Organizing Committee recommends that differential registration fees be charged for

members and non-members, as follows:

Regular Members of ESC or ESM - base fee (to be determined)

Regular non-members - base fee plus \$25

Student Members and non-members - student base fee (to be determined).

(sent via email by Bob Lamb and Don Nixon to P. de Groot, 23 August 2001)

Action: The governing board of the ESC to discuss this proposal and report back to the ESM Organizing committee via the ESC Annual Meeting Chair of its acceptance or otherwise.

A third task as a result of the Executive Council Meeting (21 April 2001) requested that Chair of the Annual Meeting Committee make an amendment in the guidelines, "How to Organize an Annual Meeting", to clearly specify that the Chair of the Annual Meeting Committee is the ESC contact person for the Regional Society hosting the Annual Meeting. Terry Shore (guideline editor) was contacted to make the changes and he sent them to our ESC Web Master (Barry Lyons). The guidelines have been revised to read on page 7 under the duties of the Regional President. "Liaison between the regional Society and ESC will be maintained through both the Regional President as well as the Regional Director. The Chair of the Annual Meeting Committee is the ESC contact person for the Regional Society hosting the Annual Meeting."

Reports from Affiliated Societies

Entomological Society of British Columbia (T. Shore, Regional Director)

The Entomological Society of British Columbia is 100 years old! The society had their annual meeting Sept 27-28 in Summerland BC at the Agriculture and Agri-Foods Canada research centre.

An excellent program of talks was presented, although student papers were under-represented this year. As a result of this the Harold Madsen and the James Grant awards for best student paper were combined this year and the winner was Jennifer Perry, a Master's student from Simon Fraser University.

The second day of the meeting consisted of a field trip lead by Drs. Geoff Scudder, Rob Cannings and Robb Bennett looking at insects of endangered ecotypes in the Okanagan region of British Columbia.

In honour of the centenary of the society, a special edition of the Journal of the Entomological Society of British Columbia is being produced this year. It will include invited papers from a number of distinguished entomologists.

The new executive and officers for this year are:

President: Lorraine Maclauchlan

President-elect: Gail Anderson

Past President: Rob Cannings

Directors: Rene Alfaro, Keith Deglow, Tracey

Hueppelsheuser, Ian Wilson, Chris Guppy

Secretary Treasurer: Robb Bennett

Regional Director to ESC: Terry Shore

Journal Editor: Ward Strong will be taking over from Dave Raworth.

Web Editor: Bill Riel will be taking over from Ward Strong

Boreus: Chris Guppy will be taking over from Phil Jones

Entomological Society of Alberta (R. Bouchier, Regional Director)

The annual meeting of the Entomological Society of Alberta is being held October 11-13, 2001 in Calgary at the Carriage House Inn. The keynote speaker will be Gail Anderson from Simon Fraser University who will speak on the fascinating topic of forensic entomology. Proceedings from the 2000 ESA meeting at Edmonton will be available at this year's meeting. The society web site with information on upcoming activities is <http://www.biology.ualberta.ca/courses.hp/esa/esa.htm>; Troy Danyk is webmaster. Incoming president of the society is Hector Cárcamo, Simon Wilkins is Past-President Mike Underschultz is secretary, and treasurer is Greg Pohl. Directors in 2000 are Felix Sperling, Rob Longair and Troy Danyk. Members at large are Erica Muller and Daryl Williams.

Entomological Society of Saskatchewan (R. Elliot, Regional Director)

The annual spring meeting of the Entomological Society of Saskatchewan was held on May 3 at Saskatoon with 18 members present. The society was very active this past year. Under the direction of Larry Grenkow, the society continued to develop the ESS website

(<http://www.usask.ca/biology/ess/>). Activities in 2001 related primarily to youth encouragement and public education. School tours were held at the Saskatoon Research Centre to foster interest in entomology. ESS members spoke to nearly 1000 grade three students, teachers and parent volunteers. ESS members also hosted a booth at Gardenscape, an outdoor living show attended by nearly 19,000 visitors at the Prairieland exhibition grounds. The 'Bug Booth' was extremely popular with standing-room only for most of the show. Lori-Ann Kaminski made presentations at several elementary schools and prepared a talk for a Master Gardener Class sponsored by the University of Saskatchewan Extension Division.

This past year saw the passing of a long-standing member of ESS, Mr. Lloyd Putnam. Mr. Putnam passed away on May 8 at the age of 88. Lloyd was employed with the Dominion Entomological Laboratory in Saskatoon from 1937-1942. After serving in the army, Lloyd returned to his former job in 1946. Lloyd's research related to management of grasshoppers and insect pests of oilseeds including flea beetles and bertha armyworm. Lloyd's research was pivotal to the registration of methomyl for control of bertha armyworm during a severe outbreak in 1971 and 1972. Lloyd retired from the AAFC Saskatoon Research Centre in 1978. He served as the first and fourth President of ESS.

The Executive for 2001 include President - Martin Erlandson; Past President - Brian Galka; Vice President - Chrystel Lefol and Regional Director - Bob Elliott. Executive staff include Secretary - Larry Grenkow; Treasurer - Dwayne Hegedus; Proceedings Editor - Keith Roney and Newsletter Editors - Wayne Goerzen and Brian Galka.

The 49th Annual Meeting of ESS will be held on Thursday, November 1 in the conference room at the AAFC Saskatoon Research Centre from 9:00am to noon. The guest speaker for the scientific session will be Dr. Jack Gray who will be speaking on aspects of insect flight and neurobiology. Dr. Gray recently joined the faculty in the Department of Biology at the University of Saskatchewan. Dr. Gray assumed the position vacated by the 'retirement' of Dr. Cedric Gillott.

Entomological Society of Manitoba (R. Lamb, Regional Director)

The Entomological Society of Manitoba wishes to report to the Entomological Society of Canada on two topics: The Annual General Meeting of the ESM for 2001; progress in organizing the Joint Annual Meeting of ESC/ESM in 2002. I wish to report that my term as Regional Director ends after the 2001 Annual General Meeting. The election of my replacement, Dr. Patricia MacKay, will be formalized on September 28, 2001, and she will attend the 2002 meeting as Regional Director. I hope to continue to be actively involved in ESC, and will continue to attend the Annual Meeting each year.

The 57th Annual Meeting of the Entomological Society of Manitoba will take place on November 2-3, 2001, at the Freshwater Institute, Winnipeg, with the theme "Insects on the Move". Dr. Dan Quiring will present the keynote address: Insect Movement in Young Forest Stands. In addition to submitted papers, there will be a symposium on Insect Movement with the following contributors:

Dr. Matthias Schöller, Biologische Beratung, Berlin, Germany. Movement of Pests and Beneficials: Do We Know Who Is In?

Dr. Lloyd Dodsall, Alberta Agriculture. Temporal and Spatial Distribution Patterns of Cabbage Seedpod Weevil.

Dr. Marion Harris, North Dakota State University. Insect Movement During Host-finding: Contributions of plant stimuli, internal state, and motor programs.

Jon Bell, Canadian Food Inspection Agency. Quarantine Practices, and Monitoring for Potential New Insect Pests in Canada.

A banquet will be held on November 2 and an informal mixer on November 3.

Planning for the Joint Annual Meeting of ESC/ESM 2002 is underway. Progress to September 28, 2001 is summarized in the attached report of the Organizing Committee and Tentative Program. Working with Dr. Peter de Groot, ESC, the ESM has agreed to charge higher registration fees for regular attendees who are members of neither ESC or ESM. The Chair of the Organizing Committee, Don Dixon, has arranged that a hotel suite will be available to the President of ESC during the meeting, at no cost to ESC. The Organizing Committee has considered and is planning to follow the recommendations of ESC on the funding of ESC functions at a Joint Meeting. The ESM acknowledges the receipt of seed money for the meeting which has been received from ESC. A first announcement of the meeting has been published in

the Bulletin, and a more complete announcement is being printed for distribution at the 2001 Joint Annual Meeting in Niagara Falls.

Entomological Society of Ontario (D. Gray, Regional Director)

The newly elected executive for the ESO, which will be taking office at the October 2001 Annual General Meeting in Niagara Falls, is as follows:

President: Barry Lyons
President-Elect: Bruce Gill
Past President: Gard Otis
Secretary/ESC Rep.: David Hunt
Treasurer: Blair Helson

Editor (Journal): Yves Prévost
Editor (Newsletter): Neil Carter
Librarian: Dave Hull

Directors: 2000-2002: Vanessa Carney, Margaret Pickles
2001-2003: Bruce Broadbent, Kathryn Nystrom
2002-2004: Peter Mason, Rebecca Hallett

The 2001 Joint Annual Meeting of the Entomological Societies of Ontario and Canada is fast approaching. The theme for the meeting is '2001: An Insect Odyssey - Exploration and Discovery'. The meeting has received strong support from sponsors, and will include 37 invited speakers participating in the plenary session, 2 symposia and 5 workshops. In addition, the Scientific Program Committee has accepted 80 submitted papers and 36 posters in the areas of host plant resistance, applied entomology, biological control, ecology, biosystematics, and physiology and molecular biology. Scientific exchange of ideas at a conference is always important, but we also have endeavoured to provide participants with lots of opportunity to socialize throughout the 2001 JAM. The facilities that have been secured for the meeting at the Sheraton Fallsview Hotel and Conference Centre are exceptional, and we anticipate that everyone will be very pleased with the venue and program.

Volume 131 of the Proceedings of the Entomological Society of Ontario was published in December of 2000. The issue contained 7 submitted scientific papers. Yves Prevost has taken over from Dolf Harmsen as journal editor.

Société d'Entomologie du Québec (N. Larocque, Regional Director)

Après avoir été l'hôte de la réunion annuelle conjointe en 2000 à Montréal qui réunissait l'Entomological Society of America (ESA) ainsi que la Société d'entomologie du Canada, la Société d'entomologie du Québec n'a pas cessé pour autant ces activités en 2001. Un projet majeur a été initié par l'Insectarium de Montréal avec la coopération de la SEQ et financé par le programme des Partenariats du Millénaire du Canada, le projet « Une passion à partager : La recherche en entomologie » fut un vif succès auprès de la population québécoise durant l'année 2001. Ce projet comprenait principalement trois volets thématiques:

- 1) L'exposition itinérante 'Four de la recherche en entomologie' a attiré à l'Insectarium de Montréal plus de 62 000 visiteurs depuis son lancement le 26 mars et se voit déjà réservé par d'autres villes à travers le Québec;
- 2) Financement conjoint d'une émission de télévision de la série Les Débrouillards avec la participation de Zone 3 a été télédiffusé sur la chaîne Radio-Canada avec plus de 175,000 auditeurs;
- 3) Un programme intitulé : Les chercheurs à l'école, a aussi impliqué la SEQ par l'entremise de 91 ateliers présentés à plus de 2,000 élèves dans diverses écoles à travers le Québec.

Par le biais de financements de la part de la SEQ, la Maison des Insectes (MDI) de Charlesbourg a pu s'approvisionner en cocons pour sa volière à papillons de l'Arboretum du domaine Maizerets qui a accueilli plus de 30,000 visiteurs en 1999 et 2000. De plus, une exposition sous le thème 'Co-évolution des insectes et des plantes' a été mise de l'avant avec la participation du programme 'Étalez votre science' ainsi que de la SEQ.

Soucieuse du sort de l'entomologie au Québec, la SEQ formera le CAPEQ, le Comité d'Action pour la Promotion de l'Entomologie au Québec, qui aura comme mandat de faire un constat du statut de l'entomologie au Québec.

La SEQ participera au Salon des Insectes de Montréal qui se tiendra les 6 et 7 octobre 2001. Ce salon se veut une place d'échange, de discussion et de contacte avec différents exposants.

La SEQ est aussi partenaire avec l'Insectarium de Montréal pour la mise sur pied d'un site Web intitulé : La toile des Insectes du Québec. Ce site permettra à toute personne qui veut connaître davantage les insectes de pouvoir consulter ce site et obtenir des réponses ou découvrir d'autres sites québécois reliés aux insectes.

La SEQ veut se faire connaître par la population québécoise et ce, par le biais de son tout nouveau dépliant et par son site Internet. Le dépliant couleur explique la raison d'être de la Société, ses projets ainsi que ses partenaires dans le domaine de l'entomologie. Quand à son site Internet, plusieurs changements ont eu lieu tant au niveau du contenu que du format. Jusqu'à tout

récemment, le site Internet de la SEQ a été visité par plus de 18 000 personnes à travers le monde ! Avec ses liens, ses partenaires, ses information, son centre d'emploi, etc... le site Internet de la SEQ se veut une place d'information interactive où l'internaute entomologiste trouvera toute l'information désiré. (www.seq.qc.ca).

La SEQ tiendra sa prochaine réunion annuelle, qui devrait regrouper 100 membres, du 8 au 9 novembre 2001 à Beloeil dont le thème sera 'Entomologie et agriculture durable; vers une production intégrée des fruits et légumes'. En 2002, la SEQ accueillera la CIFE, 5^{ième} Conférence Internationale Francophone d'Entomologie du 14 au 18 juillet 2002 à Montréal dont le thème sera 'La recherche de pointe en entomologie'. Depuis sa création, ces rencontres internationales permettent aux entomologistes francophones du monde entier de partager leurs résultats de recherche dans tous les domaines de l'entomologie.

Acadian Entomological Society Report (Gilles Boiteau, Regional Director)

The executive of the AES rotates between four provinces and one state to ensure representation of the whole region. The lack of a permanent address can however make it difficult for AES and ESC members to remain in contact. This year, the AES improved its accessibility by developing a web page (www.upei.ca/~aes) that could become the permanent link of the Society. The Proceedings of last year's Annual Meeting of the AES were prepared and hard copies circulated to members. Future issues of the Proceedings of the AES will be posted on the web page of the Society.

The 61st Annual Meeting of the Acadian Entomological Society was held in Charlottetown , P.E.I. on August 22 - 24, 2001. The meeting began with a keynote address on vector borne diseases including a timely update on the expansion, prevention and control of the West Nile Virus. Scientific presentations and provincial-state pest updates made up the rest of the meeting. Ms. Rachael Eedy of the University of P.E.I. was the winner of the Student competition with her presentation on the " Comparison of different methods of flow measurement used to characterize stream insect habitat." During the Business meeting, AES members confirmed their interest in hosting the ESC meeting of 2004. in New Brunswick/P.E.I.

The executive of the AES for 2000/2001 is made up of Rachael Cheverie, President, Donna Giberson, Vice-President, Christine Noronha, Treasurer and Gilles Boiteau, AES Regional Director The incoming executive will be from the State of Maine with Donna Giberson, UPEI as AES regional director.

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 research or course work pertinent to their thesis subject that could not be carried out at their own institution, and that represents a significant addition to the planned thesis research or course work. Applications will be judged on scientific merit.

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

The application 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, including a justification for how costs not covered by the grant will be covered; 6) anticipated dates of travel and date on which grant money is needed.

The application shall also be accompanied by: 1) an up-to-date C.V.; 2) a supporting letter from the senior advisor; and 3) when appropriate, a supporting 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. Comments from the Awards Committee members will be provided to the applicant upon request.

Timetable and Application Procedure

Application forms may be obtained from the Chair of the Student Awards Committee or at <http://www.biology.ualberta.ca/esc.hp/gform.htm>. These must be completed in full, and the original plus three copies of all documents returned to the Chair of the Student Awards Committee by 15 February 2002. The committee will evaluate all applications by 30 April 2002 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, including a documented list of expenses relative to the proposed budget, in the three months that follow the trip. Any allocated funds not spent must be returned to the Society.

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

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

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

BOURSES ET SUBVENTIONS

Subventions de recherche-voyage au niveau des études supérieures Société entomologique du Canada

Invitation à soumettre des demandes

Préambule

Pour promouvoir les études supérieures en entomologie, la Société d'entomologie du Canada offre deux subventions de recherche-voyage, qui seront décernées chaque année lors d'un concours. Ces subventions ont pour objet d'aider les étudiants et étudiantes à élargir le champ de leur formation supérieure. Le montant accordé, qui peut aller jusqu'à 2 000 \$, doit permettre aux récipiendaires de suivre des cours ou d'effectuer des travaux portant sur leur sujet de thèse, cours et travaux qu'ils ne pourraient pas entreprendre autrement dans leur propre établissement et qui constituent un ajout important au programme de recherche prévu. Les candidatures seront jugées selon leur mérite scientifique.

Admissibilité

Pour être admissible, un étudiant ou une étudiante doit :

- 1) être inscrit comme étudiant à temps complet au niveau des études supérieures
- 2) être membre actif de la Société d'entomologie du Canada

Présentation de la demande

La demande doit se présenter comme une proposition, dans laquelle le candidat ou la candidate fournit les informations suivantes : 1) sujet de la thèse; 2) revue des documents pertinents; 3) résumé de l'état d'avancement de la thèse; 4) description de la recherche ou des travaux à effectuer, avec les précisions suivantes : a) pertinence de l'objectif global de la thèse, b) raisons pour lesquelles les travaux ne peuvent être effectués à l'université d'attache et c) raisons expliquant pourquoi le candidat ou la candidate a choisi un lieu plutôt qu'un autre pour effectuer ses recherches; 5) budget du projet proposé et des explications concernant le mode de règlement des dépenses non couvertes par la bourse; 6) dates prévues pour le voyage et date à laquelle le candidat ou la candidate aura besoin de la subvention.

Le candidat ou la candidate doit joindre à sa demande : 1) un CV à jour; 2) une lettre de référence de son directeur; 3) au besoin, une lettre d'appui du scientifique ou chef de département de l'établissement où il ou elle souhaite mener à bien son projet.

Méthode d'évaluation

Le mérite scientifique de chaque demande sera évalué par un comité qui pourra soumettre certains projets à l'examen d'experts compétents de l'extérieur. Sur demande, un rapport des commentaires du comité des prix sera remis à chaque candidat et candidate.

Échéancier et marche à suivre pour la présentation des demandes

Les formulaires de demande, qui sont disponibles auprès du président du Comité des prix aux étudiants de la Société ou sur notre site internet à l'adresse suivante: <http://www.biology.ualberta.ca/esc.hp/gform.htm>. Ceux-ci doivent être complétés (original, ainsi que trois copies de tous les documents), et retournés au président du Comité, au plus tard le 15 février 2002. Le comité évaluera toutes les demandes pour le 30 avril 2002 et il déterminera si des subventions seront accordées et, le cas échéant, à qui. Les heureux ou heureuses récipiendaires seront informé(e)s sans délai, de façon à ce qu'ils ou elles disposent de tout le temps voulu pour entamer leur projet dès l'automne suivant, si tel est leur souhait. Les subventions doivent être utilisées dans les 12 mois suivant leur attribution.

Dans les trois mois suivant leur voyage, les récipiendaires doivent remettre un court rapport final, incluant une liste des dépenses réelles accompagnées de pièces justificatives et comparées au budget proposé. Toute somme non dépensée doit être retournée à la Société.

Toute correspondance relative aux bourses, incluant les demandes de formulaires doit être adressée à:

Dr. David R. Gillespie, Président
Comité des prix aux étudiants de la SEC
Centre de recherches agricoles du Pacifique - Agassiz
Agriculture et Agroalimentaire Canada
Case Postale 1000, Agassiz, C.B., V0M 1A0
Courriel: GillespieD@em.agr.ca (ESC-SEC <http://esc-sec.org/>)

Postgraduate Awards Entomological Society of Canada

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

Invitation for Applications

Eligibility

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

Method of Application

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

Process of Selection and Award Presentation

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

Regulations

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

Transfers: Awards are made on the condition that the winners engage in a program of graduate studies and research for an advanced degree in entomology in Canada. Students who, after receiving the award, wish to change their graduate program or transfer to a foreign university may be asked to decline the award. Any change in the course of study, department or university in which an award winner is registered requires prior approval of the Scholarship Committee. A request for permissions to transfer must be supported by statements from Heads of Departments.

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

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

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

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

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

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

Avis

Éligibilité

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

Procédure

Les candidats devront soumettre leur candidature à l'aide du formulaire approprié et y joindre tous les documents requis. Les formulaires sont disponibles auprès du président du Comité des bourses aux étudiants de la Société ou sur notre site internet à l'adresse suivante: <http://www.biology.ualberta.ca/esc.hp/form.htm>. L'original ainsi que trois copies de la demande et des autres documents qui l'accompagnent doivent être soumis au Président du Comité des Prix au plus tard le 10 Juin 2002. Seulement un original de la demande complète est exigé. Veuillez préciser sur le formulaire si vous soumettez votre candidature pour la Bourse Post-graduée ou la Bourse Keith Kevan. Des formulaires distincts accompagnés des documents requis doivent être soumis pour chacune des Bourses.

Sélection et remise des bourses

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

Règlement

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

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

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

Dr. David R. Gillespie, Président
Comité des prix aux étudiants de la SEC
Centre de recherches agricoles du Pacifique - Agassiz
Agriculture et Agroalimentaire Canada
Case Postale 1000, Agassiz, C.B., V0M 1A0
Courriel: GillespieD@em.agr.ca (ESC-SEC <http://esc-sec.org/>)

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

PERSONALIA

Entomological Society of Canada Gold Medal for Outstanding Achievement in Canadian Entomology

**presented to
JOHN R. SPENCE
at Niagara Falls, Ontario, October 22, 2001**



The 2001 recipient of the Entomological Society of Canada's Gold Medal for outstanding achievement in Entomology is Dr. John Spence.

Dr. Spence was born (1948) and raised in Pennsylvania. He received his BSc (1970) in biology at Washington and Jefferson College, his MS (1974) in Zoology at the University of Vermont, and his PhD (1979) in Zoology at the University of British Columbia. Throughout his student career, he was strongly influenced by a string of excellent entomologists including V. M. Lawrence at W&J, R.T. Bell at Vermont and G.G.E. Scudder at UBC. He was a Killam Postdoctoral Fellow with G.E. Ball at the University of Alberta Department of Entomology during 1979-1980, following which he was appointed Assistant Professor and NSERC University Research Fellow in that department during 1980-1986. In 1991 he achieved the position of Professor in the Department of Entomology. He was honored with a McCalla Professorship in 1998-1999. In

2001, he was appointed Chair of the Department of Renewable Resources at the University of Alberta. He and his wife Deborah (nee Hughes) were married in 1976 and have two children, Michael Bryn (b. 1980) and Christina Eiry (b. 1983).

John Spence's research is characterized by an unparalleled combination of entomological breadth and depth. In order to pursue answers to both basic and applied questions, he has mastered the methods of disparate disciplines, whether they are large-scale field ecology, statistics, chemical ecology, molecular genetics or phylogenetic systematics. His work on the community ecology and evolutionary biology of water striders has included studies of habitat templates, mating behavior, parasitoids, the genetic architecture of hybrid zones, allometric growth patterns, and both classical and molecular systematics. This work comprises most of what is known to date about the natural enemies of the Gerridae. Spence's work on carabid beetles has included a range of studies on guild structure, introduced species distributions, and the relationship between community structure and habitat disturbance. His work on forest ecology and biological control has included studies of beetle, moth, and spider faunal assemblages in old growth and managed forests. In particular, Spence and his students have pioneered the use of ground beetles for understanding impacts of forest practices on arthropods. John Spence's accomplishments in any one of the areas of gerrid ecology, carabid ecology or forest biodiversity would unquestionably be considered a worthy lifetime achievement. Together, they demonstrate a virtuosity that is almost unheard of in this age of specialization.

The high regard of the ecological and entomological community for John Spence's work is indicated by the numerous invitations he has received to speak at international campuses and conferences, many of which are plenary talks. Spence has also been invited twice to prepare chapters for the Annual Review of Entomology (Spence and Andersen, 1994; and an upcoming chapter on forest entomology). A paper from his lab (Niemelä et al. 1993) was the only Canadian paper selected by the Society of Conservation Biology to be reprinted in Conservation Biology (Readings in Conservation Biology, vol. 2, Wildlife and Forests, Blackwell Science, Inc., 1995). All of Spence's work has been prominently insect-centered. He is an unabashed spokesman for the continuing value of an entomological perspective.

John Spence's teaching has enriched the lives of many hundreds of students through his instruction in a total of 14 different courses. Most prominent among these are Forest Entomology and Insect Pest Management. His teaching ratings have consistently been very high and, as a result, John Spence has encouraged many dozens of students to make entomology their career, whether by becoming graduate students in entomology or taking jobs in the area. John has also been responsible for mentoring a huge number of graduate students in entomology at the University of Alberta over the last two decades. He has supervised 36 graduate students (11 PhD, 25 MSc) and 7 postdoctoral fellows. The people that he has mentored have gone on to faculty positions in Finland, Indonesia, Kenya, Switzerland and the United States, as well as research scientist positions in Mexico, El Salvador, New Zealand and Canada. Other students have also gone on to key positions in systems analysis and programming, urban planning, public health, science publicity, freelance writing, and TV stardom (Acorn The Nature Nut). Through these

people, John Spence has contributed to an enormous positive influence for entomology in Canada and worldwide.

John Spence's service work has enhanced the health of entomology at many levels. He reviews more than thirty manuscripts per year for a dizzying array of journals, and this is in addition to the numerous informal reviews he does for his immediate colleagues. He has organized a number of entomological symposia and workshops in Canada and internationally. Spence has served twice on the governing board of the Entomological Society of Canada, several years on various committees of the Entomological Society of Canada, and on the executive of the Entomological Society of Alberta. He has served as panel member and chair for several years on the Interdisciplinary Research (GSC21) panel of NSERC and for the National Centres of Excellence program. Spence has also served on scientific agencies in Alberta at many levels. In addition he has been the scientific leader of the EMEND (Ecosystem Management by Emulating Natural Disturbance) project of the Sustainable Forest Management Network (one of the Canadian Centres of Excellence, for which he is a governing board member) from its beginnings in 1995. He is on the University of Alberta Provost's Task Force for Strategic Planning. These positions comprise a clear acknowledgement, by his scientific peers, of the breadth and quality of Spence's contributions to entomology and science in Canada. John Spence is an extraordinary entomologist. Canada is richer for his presence, and it is eminently appropriate that he should be recognized with the Gold Medal of the Entomological Society of Canada.

**MÉDAILLE D'OR DE LA SOCIÉTÉ D'ENTOMOLOGIE DU CANADA
pour souligner la contribution exceptionnelle en entomologie canadienne**

**présenté à JOHN R. SPENCE
à Niagara Falls, Ontario 22 octobre 2001**

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 cette année au Dr John Spence.

Dr Spence est né (1948) et a grandi en Pennsylvanie. Il a obtenu son B. Sc. en biologie (1970) du "Washington and Jefferson College", sa maîtrise en zoologie (1974) de l'université du Vermont, et son doctorat en zoologie (1979) de l'université de Colombie-Britannique. Au cours de sa formation, il a été influencé par plusieurs excellents entomologistes incluant V. M. Lawrence du "W&J", R.T. Bell au Vermont et G.G.E. Scudder à UBC. Il a effectué un stage post-doctoral (Killam) sous la direction de G.E. Ball au département d'entomologie de l'université d'Alberta

(1979-1980), à la suite duquel il a été engagé en tant qu'assistant-professeur et a reçu une bourse de recherche du CRSNG (1980-1986). En 1991, il devient professeur au département d'entomologie. Il reçoit la distinction "McCalla Professorship" (1998-1999). En 2001, il devient titulaire d'une chaire au "Department of Renewable Resources" de l'université d'Alberta. Lui et son épouse Deborah (née Hughes) se sont mariés en 1976 et ont deux enfants, Michael Bryn (n. 1980) et Christina Eiry (n. 1983).

La recherche de John Spence est d'une ampleur et d'une profondeur sans précédent en entomologie. Afin de répondre à des questions tant fondamentales que pratiques, il a maîtrisé les méthodes de plusieurs disciplines, que ce soit en écologie à l'échelle du paysage, en statistique, en écologie chimique, en génétique moléculaire ou en systématique phylogénétique. Ses travaux en écologie des communautés et en biologie moléculaire des gyrins ont englobé l'étude des habitats, le comportement d'accouplement, les parasitoïdes, la structure génétique des zones d'hybridation, les patrons de croissance allométrique, et la systématique classique et moléculaire. Une grande partie des connaissances disponibles jusqu'à présent au sujet des ennemis naturels des Gerridae découle de ses travaux de recherche. Les travaux de Spence sur les carabes comprennent une multitude d'études concernant la structure de la guilda, la distribution des espèces introduites, et la relation entre la structure de la communauté et la perturbation de l'habitat. Ses travaux en écologie forestière et en lutte biologique couvrent les ensembles fauniques de coléoptères, lépidoptères et araignées dans les forêts anciennes et les forêts aménagées. Plus particulièrement, Spence et ses étudiants ont introduit l'utilisation des carabes pour comprendre les impacts de l'aménagement forestier sur les arthropodes. Les réalisations de John Spence dans chacun des domaines auxquels il s'est intéressé (écologie des gyrins, écologie des carabes ou de la biodiversité forestière) seront sans nul doute considérées comme l'uvre d'une vie et témoignent d'une virtuosité peu commune dans cet âge de la spécialisation.

Les travaux de John Spence sont tenus en haute estime par la communauté scientifique en écologie et en entomologie comme en font foi les nombreuses invitations qu'il a reçues des universités et pour donner des conférences au niveau international, plusieurs d'entre elles étant des réunions plénières. Spence a aussi été invité deux fois à préparer des chapitres pour "Annual Review of Entomology" (Spence et Andersen, 1994; et un chapitre à venir traitant de l'entomologie forestière). Un article produit dans son laboratoire a été le seul article canadien sélectionné par la "Society of Conservation Biology" pour être réédité dans la revue "Conservation Biology" (Readings in Conservation Biology, vol. 2, Wildlife and Forests, Blackwell Science, Inc., 1995). Tout le travail de Spence a pour point central l'insecte. Il est un indéfectible défenseur de la valeur d'observer les systèmes avec la perspective de l'insecte.

L'enseignement de John Spence a enrichi la vie de plusieurs centaines d'étudiants qui ont suivi l'un des 14 cours différents qu'il a donné. Les plus importants parmi ces cours sont probablement "Forest Entomology" et "Insect Pest Management". Ses cours ont toujours été très bien cotés. John Spence a par conséquent incité plusieurs douzaines d'étudiants à entreprendre une carrière en entomologie, soit en faisant des études supérieures en entomologie ou en cherchant un emploi dans cette discipline. Au cours des deux dernières décennies, John a aussi été le mentor d'un

nombre important d'étudiants gradués en entomologie à l'université de l'Alberta. Il a supervisé 36 étudiants gradués (11 Ph. D., 25 M. Sc.) et 7 stagiaires post doctoraux. Les gens qu'il a dirigés ont obtenu des postes de professeurs en Finlande, en Indonésie, au Kenya, en Suisse et aux États-Unis, ainsi que des postes de chercheurs scientifiques à Mexico, à El Salvador, en Nouvelle-Zélande et au Canada. Certains de ses étudiants détiennent des postes-clés en analyse de système et programmation, en planification urbaine, en santé publique, en publicité de la science, ou comme journaliste à la pige, et célébrité de la télévision (Acorn The Nature Nut). Par ces personnes qu'il a formées, John Spence a considérablement contribué à l'entomologie au Canada et dans le monde entier.

Le travail de John Spence a amélioré l'état de l'entomologie à plusieurs niveaux. Il révise plus d'une trentaine de manuscrits chaque année pour un nombre vertigineux de journaux, et ceci s'ajoute aux nombreuses révisions qu'il fait pour ses collègues. Il a organisé un certain nombre de symposium et d'atelier de travail au Canada et sur la scène internationale. Spence a siégé par deux fois au conseil d'administration de la Société d'entomologie du Canada, plusieurs années sur différents comités de la Société, et au conseil d'administration de la Société d'entomologie d'Alberta. Pendant plusieurs années, il a été membre et président du comité de la recherche interdisciplinaire (GSC21) et du programme des Centres d'excellence nationaux du CRSNG. Spence a aussi servi à plusieurs niveaux pour des agences scientifiques. En plus, il a été un meneur scientifique du projet EMEND (Ecosystem Management by Emulating Natural Disturbance) du réseau de la gestion durable des forêts (un des Centres canadiens d'excellence, où il a siégé au conseil d'administration) depuis ses débuts en 1995. Il fait parti du "Provost's Task Force for Strategic Planning" de l'université d'Alberta. Ces responsabilités font foi de la reconnaissance évidente, par ses pairs scientifiques, de l'ampleur et de la qualité des contributions que Spence a apportées à l'entomologie et la science au Canada. John Spence est un entomologiste extraordinaire. Le Canada est enrichi par sa présence, et il semble tout à fait approprié de lui témoigner notre reconnaissance en lui décernant la Médaille d'Or de la Société d'entomologie du Canada.

C. Gordon Hewitt Award, 2001

The 2001 recipient of the Entomological Society of Canada's C. Gordon Hewitt award for outstanding achievement in entomology by an individual under 40 is Dr. Robert S. Bouchier of the Lethbridge Research Centre, Agriculture and AgriFood Canada in Alberta.



(2002-2003 President Bernie Roitberg, recipient Rob Bouchier, and 2000-2001 President Bob Footit, presenting the award)

Dr. Bouchier was born in Calgary in 1962 and grew up in the Ottawa area. He completed his first degree in Economics at Carleton University (B.A. 1983), upon which he realized that his natural interests lay more in understanding the driving forces of nature (ecology) than in the *raison d'etre* of human activity (economics). After being 'bitten by the bug', Rob enrolled at the University of Guelph where he spent a year taking courses and building up his entomological background. He went on to complete both his M.Sc. (McGill University-1986) and Ph.D. (Waterloo University-1990) in ecological entomology. Rob's doctoral work with Drs. Steve Smith and Vince Nealis, on host plant tannins and their influence on the interaction between the parasitoids, *Compsilura concinnata* and *Cotesia melanoscela*, and its larval host, the gypsy moth, led him to the Canadian Forest Service and into the realm of forest entomology. His Ph.D. was followed by two years as a NSERC Postdoctoral Fellow in the lab. of Dr. Sandy Smith at the Faculty of Forestry, University of Toronto, where he expanded his interests in biological control, developing expertise in augmentative releases and aspects of parasitoid quality control.

Dr. Bouchier became a Research Scientist with the Canadian Forest Service in the spring of 1993, where over the next 6 years he worked as Project Leader in Biological Control. In 1998, his biocontrol interests took him to Alberta where he joined Agriculture and AgriFood Canada as

Project Leader/Research Scientist in insect ecology and weed biocontrol. The primary focus of his research is on host-plant interactions and their application to the development of biological control strategies. On-going areas of work include the population dynamics of biological control agents and their hosts, landscape effects on biocontrol agent movement and dispersal as well as risk assessment of biological control releases. Throughout his young career, Rob has maintained an active role as a teacher, serving as Adjunct Professor at both the universities of Toronto and Alberta, as well as a supervisor for 7 graduate students, and an instructor and lecturer in numerous courses. The presence and success of his students at scientific conferences is a direct reflection of his dedication to graduate training and supervision.

Dr. Bouchier is the author or co-author of 15 refereed articles in scientific journals, 7 book chapters as well as numerous miscellaneous publications and conference presentations, primarily on ecological aspects of biological control. Since 1992, Dr. Bouchier's research has been supported by internal grants from within the federal government as well as externally from NSERC and private companies. In addition to his research and teaching activities, Dr. Bouchier has served on the ESC Board of Governors as the ESAlberta representative, as a Past-Chair of the Can. For. Serv. Biol. Control. Working Group, as a contributor to the USDA-APHIS North American Technical Advisory Group on the Biological Control of Weeds, and as a reviewer for several international refereed journals. Throughout his career, Rob has worked tirelessly to raise the profile of national biological control activities in both federal agricultural and forestry agencies. His consistent efforts to further the implementation of natural ecological controls and our understanding of their interactions gives testament to his dedication and impact on our profession.

Prix C. Gordon Hewitt 2001

Pour l'année 2001, le récipiendaire du Prix Gordon Hewitt de la Société entomologique du Canada remis à un chercheur de moins de 40 ans pour sa contribution exceptionnelle à l'entomologie, est le Dr Robert S. Bouchier du centre d'Agriculture et Agroalimentaire Canada à Lethbridge en Alberta.

Le Dr Bouchier est né à Calgary en 1962 et il a grandi dans la région d'Ottawa. Il a complété son baccalauréat en économie à l'université de Carleton (B.A. 1983). Il a réalisé alors qu'il avait beaucoup plus d'intérêt pour la compréhension des forces dominantes de la nature (écologie) que pour les activités humaines (économie). Après avoir eu la "piqûre", Rob s'est inscrit à l'Université de Guelph où il a passé une année à suivre des cours et à consolider ses bases en entomologie. Il a complété sa maîtrise (McGill University-1986) et son doctoral (Waterloo University-1990) en écologie des insectes. Les travaux de doctorat de Rob réalisés avec les Docteurs Steve Smith et Vince Nealis portaient sur les tannins des plantes hôtes et leur influence sur les interactions entre les parasitoïdes, *Compsilura concinnata* et *Cotesia melanoscela*, et sur

leur hôte, la spongieuse à l'état larvaire. Ceci l'a conduit au Service canadien des forêts, dans l'univers de l'entomologie forestière. Par la suite, grâce à une bourse du CRSNG, il a effectué un stage post doctoral dans le laboratoire du Dr Sandy Smith à la faculté de foresterie de l'Université de Toronto, où il a élargi ses intérêts à la lutte biologique, développant son expertise dans les lâchers massifs et le contrôle de qualité des parasitoïdes.

Au printemps 1993, le Dr Bouchier est devenu chercheur scientifique au Service canadien des forêts où pendant une période de 6 ans il a travaillé comme chef de projet en lutte biologique. En 1998, ses intérêts en lutte biologique l'ont conduit en Alberta où il a joint Agriculture et AgroAlimentaire Canada à titre de chef de projet/chercheur scientifique en écologie des insectes et lutte biologique des mauvaises herbes. Ces travaux portent principalement sur les interactions plantes-insectes et leurs applications dans le développement de stratégies de lutte biologiques. Ses travaux en cours portent sur la dynamique de population des agents de lutte biologique et leurs hôtes, les effets du paysage sur les mouvements et la dispersion des agents de lutte biologique ainsi que sur l'évaluation du risque encouru par les lâchers en lutte biologique. Au cours de sa jeune carrière, Rob a été très actif dans l'enseignement, à titre de professeur adjoint aux Universités de Toronto et d'Alberta, ainsi qu'à titre de directeur de thèse de sept étudiants diplômés, d'enseignant et de conférencier dans de nombreux cours. La présence et le succès de ses étudiants dans les conférences scientifiques est le reflet direct de son implication dans leur encadrement et leur formation.

Le Dr Bouchier est auteur et co-auteur de quinze publications dans des journaux scientifiques arbitrés, sept chapitres de livres ainsi que de nombreuses publications diverses et conférences portant principalement sur les aspects écologiques de la lutte biologique. Depuis 1992, les travaux de recherche du Dr Bouchier ont été financés par des subventions internes du gouvernement fédéral ainsi que par des subventions externes du CRSNG et du secteur privé. En plus de ses activités de recherche et d'enseignement, le Dr Bouchier a servi sur le conseil d'administration de la Société d'entomologie du Canada à titre de représentant de la Société d'entomologie de l'Alberta, a été président du groupe de travail sur le contrôle biologique du Service canadien des forêts, a contribué au USDA-APHIS North American Technical Advisory Group on the Biological Control of Weeds, et a été réviseur de plusieurs revues internationales arbitrées.

Tout au cours de sa carrière, Rob a travaillé sans relâche pour la promotion sur le plan national de la lutte biologique. Ses efforts constants pour l'implantation de méthodes de lutte écologiques naturelles et la compréhension de leurs interactions sont la preuve de son implication et de son impact sur notre profession.

Student Awards

The recipients of the 2001 Travel Award are Alida Janmaat, University of British Columbia, Department of Zoology, and Heather White, University of Manitoba, Department of Entomology. Alida travelled to the University of Arizona, to meet with Dr. Bruce Tabashnik, Dept of Entomology and to learn techniques and methodology for working with insect resistance to microbial pesticides. Heather traveled to Britain to attend the short course on taxonomy and biology of parasitic Hymenoptera and to consult with experts on the Braconidae. The recipient of the Kevan Award is Scott Brooks, McDonald College, McGill University. Scott is studying the systematics of the subfamily Dolichopodinae (Diptera: Dolichopodidae). The 2001 winners of the PostGraduate Scholarship are Shelly Hoover, who is studying the evolution of mating strategies in social insects at the Dept. of Biological Sciences, Simon Fraser University, and Eleanor Fast, Department of Natural Resource Sciences, who is studying biodiversity of acalyprate Diptera at McGill University, MacDonald Campus. Sarah Bates received an award from ESC for best presentation. The winners of the ESO president's prize competitions were Mireille Marcotte (Laval University) for best oral presentation and Heather Mattila (University of Guelph) for best poster.



Alida Janmaat



Scott Brooks



Sarah Bates



Eleanor Fast

(Apologies: at this time, we do not have photos of all the recipients.)

Criddle Award

Ross Layberry was the recipient of the Criddle Award in 2001, presented at the Joint Annual Meeting in Niagara, Ontario. Ross Layberry has been building a database of butterfly distribution in Canada since 1985, now at over 90,000 records, and is Ontario-Quebec co-ordinator for the annual summary of the Lepidopterists Society.

The 2000 Criddle Award recipient was Stéphane Le Tirant, who has contributed greatly to the success of the Insectarium de Montréal, and other prominent insect collections and public displays. The Criddle Award winners are selected by the affiliate societies, and more details are available in their respective news letters.



Ross Layberry

Other News of Members

Abstracted from Simon Fraser University News clippings: Professor Emeritus of Biological Sciences Thelma Finlayson has established an endowment to promote excellence in research and teaching in pest management, and ultimately to fund a chair in biological control. Thelma Finlayson brought her expertise in biological control to SFU in 1967 to help establish the master of pest management program. Since her retirement from the faculty of biological sciences in 1979, she has contributed to the university community as a researcher, student advisor, and philanthropist. To support the Thelma Finlayson chair, contact Gail McKechnie at (604) 291-5315.

Longstanding ESC member E. Alan Cameron (eajabaka@home.com) has received two recent recognitions from the ESA: Honorary Member, and appointment as Editor-in-Chief for Environmental Entomology. Alan recently retired from the Department of Entomology at Penn State University, and was named Professor Emeritus. He began his entomology career as a summer student at the Forest Insect Laboratory in the Sault in 1954. Alan says that “entomologists around the world are a special breed, and those in forest entomology are among the best. Our whole family has far more than our share of wonderful memories from both work and travel, domestic and international, that have accumulated while someone was paying me to have fun.”

Reference, ESA Newsletter:

<http://www.entsoc.org/newsletter/2001/nov/honorary.htm>

http://www.entsoc.org/newsletter/2001/nov/new_editors.htm

Announced in the 2001 Science Council of BC Awards: “Mark Winston has been selected for the Eve Savory Award for Science Communication for his exceptional achievement in explaining science to the public and for increasing their awareness of it. In his biweekly columns in the Vancouver Sun, articles in internationally-circulated magazines, and many television and radio appearances, Dr. Winston presents engaging discussions—in lay terms for the general public—on issues such as the overuse of chemical pesticides; dangers of global warming; benefits of biological pest control; and the role of science in human affairs.”

Do you have a news item? Mail it to the Editor, or e-mail to JohnsonDL@em.agr.ca.

In Memory

Recent deaths

(summaries supplied by Ed Becker, ec.becker@sympatico.ca)

Tim Bakker, P. O. Box 401, Manitouwadge, ON, P0T 2Z0, an amateur coleopterist, died on 20 September 2001. Like many amateurs in Canada, Tim was virtually unknown to the professionals, which is sad to say but true. His collection of beetles was given to the Canadian National Collection several years ago.

Emma Carmody, widow of Harry, died on 27 August 2001, age 88. The only survivors were two sisters, one of whom lives in Ottawa: Mrs. Dorothy Lowles, 1071 Ambleside Dr., Ottawa, ON, K2B 8E2.

Alma Criddle, niece of Norman Criddle, died on 26 June 2001. Charley Bird, Erskine, AB, sent the information. Alma had Alzheimer's for the past four or more years. She wrote the book *Criddle-de-diddle-ensis*. Her brother lives in Ottawa: Mr. Ernie Criddle, 172 Powell Ave., Ottawa, ON, K1S 2A3.

Ann Dyer, 668 Beach Dr., Victoria, BC, V8S 2M7, died early in 2001. She was the widow of David Dyer.

Ken Elliott, husband of Marg, 5 Quinterra Ct., Ottawa, ON, K1V 0W6, 613-733-7580, died on 2 May 2001. Ken was with the Forest Insect Survey at Fredericton, Sault Ste. Marie, and Winnipeg (head, FIS), then switched to administration in Ottawa. He was a 50-year member of the Canadian Institute of Forestry.

Ruth Fallis, wife of Murray, 43 Aylmer Ave., Ottawa ON, K1S 4R5, died on 16 November 2001. She had not been in good health for several years.

Bill Foott, husband of Lorraine, 105 Commissioner Dr., Kingsville, ON, N9Y1Z2, 519-733-4415, died on 11 May according to Bob McClanahan. Bill spent most of his career at the Harrow Station working on fruit tree and crop insects.

Dave Hardwick, husband of Verna, 116 Heather Cr., Almonte, ON, K0A 1A0, 613-256-0750, died on 25 July 2001, at age 77, peacefully at home from complications of liver, lung, and bone cancer. He worked on noctuid moths and was the director of the Ent. Res. Inst. (which changed to Biosyst. Res. Inst.) from 1973 to 1978.

Alec Jones, husband of Kathleen, 2446 Sudbury Ave., Ottawa, ON, K2C 1L9, 613-828-6459,

died on 7 June 2001 at age 85. Alec was with the old Defense Research Board. He worked on mosquito control during WWII and helped established the laboratory at Churchill. Alec lived an active life, however, the last two years were very frustrating for him because his mind seemed to be working on things he still wanted to do!!

Charlie Lilly, husband of Anne, #9 -135 Jerry Potts Blvd., Lethbridge, AB, T1K 6H2, 403-381-0448, died on 1 March 2001, according to Dave Larson. Charlie spent his career in Lethbridge studying ecology of *Adephocoris* (Miridae) on forage crops, ecology of click beetles, and pheromones, especially those of click beetles.

Lin Lindquist, husband of Lois, 301- 4088 Wellesley Ave., Nanaimo, BC, V9T 6M2, died on 11 April 2001, according to Al Hedlin. He was 83.

Lloyd Putnam (predeceased by Earla), died on 8 May 2001. His residence was #808 -1825 McKercher Dr., Saskatoon, SK, S7H 5N5. He was with the Dominion Ent. Lab. in Saskatoon from 1937-1942, then joined the army. Wounded in the Normandy Invasion, he was repatriated and returned to his former job in 1946. Lloyd was involved in grasshopper research for years and then worked on insect pests of oilseed crops. He served as the 1st and the 4th President of ESS.

Bill Ricker, 3052 Hammond Bay Rd., Nanaimo, BC, V9T 1E2, died on 8 September 2001, at age 93. He was predeceased by his wife Marion and survived by sons Karl (3253 Archibald Way, Whistler, BC, V0N 1B3, 604-938-1107) and Angus (8 Rupert St., Ottawa, ON, K1S 3S3, 613-237-2729). Bill worked for the Pacific Research Station, Department of Oceans and Fisheries, and was an acknowledged expert on stoneflies. He received many honors, among which were: Fellow, Royal Society of Canada; 1969-first Award of Excellence Medal from Amer. Fisheries Soc.; 1973-LLD from Dalhousie University; 1986 - Member, Order of Canada; 1993 - Gov. Gen. 125th Anniversary Medal; 1994 - American Institute of Fisheries Outstanding Achievement Award; 1996-Hon. Doctorate of Science, University of Guelph.

John Robinson, Keswick Ridge, NB, husband of Jessica, died circa 6 July 2001. John was not an entomologist, but he had worked on insect pathology. John Robinson was associated with Western University and retired to Keswick Ridge, NB. In retirement, he grew Christmas trees, which were shipped to London ON, and ran a sugar bush.

Robert Sewell, husband of Carmen Johnson, 691 Trojan Ave., Ottawa ON, K1K 2P1, died on 22 November 2001. Originally from Jamaica, he was a technician for the nematologists.

David Siminovitch, 2625 Regina St., Ottawa, ON, K2B 8B6, died on 7 November 2001. He was not an entomologist, however, he spent his career at the Central Experimental Farm working on cold hardiness of plants and was known by many of the staff in the Neatby Building. He also developed a spray that could be used in the fall to prevent early frost damage.

Reg Underwood, husband of Margaret, died on 14 August 2001, at age 87. Reg was with the

Federal Department of Forestry for his career. He was a member of the River Valley Barbershoppers, an avid sportsman, as well as active with Meals on Wheels and other community services.

Margaret Underwood, widow of the late Reg Underwood, died on 23 September 2001. She had been suffering from Alzheimer's for several years and was in a nursing home for some time. She came from Aroostook NB and was a school teacher. She and Reg had no children.

Announcements and News

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

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

Newsletters of the DIVERSITAS - **International Biodiversity Observation Year (IBOY) 2001 - 2002** are available at <http://www.nrel.colostate.edu/iboy/news/noviboynews.pdf> .

The IBOY Newsletter contains information on current research findings and upcoming activities of IBOY Core Network Projects and the IBOY Secretariat, including international meetings, research expeditions, awards and funding opportunities.

The **Nature Discovery Fund (NDF)**, administered by the Canadian Museum of Nature, invites applications for funding in support of "discovering and naming Canada's insect biodiversity". Established in December 1998, NDF is a non-profit fund seeking to provide resources to recognized entomologists in support of field-based scientific exploration and research in systematics. Application materials and more information can be obtained from
Robert Anderson, randerson@mus-nature.ca
Canadian Museum of Nature,
P.O. Box 3443, Station D, Ottawa, ON K1P 6P4

News from Rome, November 15, 2001. **FAO** fails to adopt new code for pesticide use. Member states of the United Nations world food body have failed to adopt a new international code for pesticide use because of disagreement over intellectual property rights, an official said yesterday. The biennial conference of the Food and Agriculture Organisation (FAO), which ended on Monday, fell short of agreement on a new framework for pesticide use because of differing interpretations over patents and data protection.

IPMnet News is an e-mail news service concerning programs, activities, or interests worldwide that involve or relate to IPM and management/control of pests, including insect pests. IPMnet is a free, non-commercial, internet-based IPM and crop pest management global information source in its 9th year. Its free monthly electronic newsletter (IPMnet NEWS) is seen by nearly 5,000 of your colleagues, peers, and contemporaries in 122 countries who are interested in staying current on the topic. Contact: IPMnet@bcc.orst.edu

Dave Hardwick Memorial Fund: The CanaColl Foundation has established a fund in memory of David F. Hardwick. As with the other funds established by the Foundation (W. J. Brown, G. P. Holland, G. E. Shewell, etc.), the money generated will be used to support the general principles of CanaColl. In the past, approximately \$25,000 has been received in memory of various people. For those of you who may not realize the value of the Canadian National Collection of Insects (CNCI) and associated arthropods, it is considered to be the best research collection in North America and among the top 10 in the world. Nevertheless, there is still curating that needs to be done and this is where CanaColl comes in. Since 1972, CanaColl has issued a total of 281 grants; these amounted to \$211,472 and provided 570.2 person/weeks of research and curation on the CNCI. The time factor is roughly equivalent to 11 full years of work--no vacations! About 10% of the grants were for collecting, bringing collections to Ottawa, etc., therefore the person/weeks were not counted in the above figures. If you have any questions about CanaColl, I will be glad to try to answer them.

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

Special book price offer: **Biological Control Programmes In Canada**, Mason, P.G. and Huber, J.T. (eds.) 2001. CABI Publishing, Wallingford, UK, 608p.

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

BOOK REVIEWS

Dellacasa, Giovanni; Bordat, Patrice and Dellacasa, Marco. 2001. *A revisional essay of world genus-group taxa of Aphodiinae (Coleoptera, Aphodiidae)*. Memorie della Società Entomologica Italiana, vol 79 (2000): 1-482. ISSN 0037-8747 (paper). Available from: Librarian, Società Entomologica Italiana, Via Brigata Liguria 9-I-16121 Genova, Italy (38 Euros).

For people interested in Scarabaeoidea, this is an interesting and important publication. North American workers have, in many cases, placed all species of *Aphodius sensu lato* in the genus without reference to the many subgenera and genera recognized by most European workers. The present work includes all of the world taxa that have been proposed as either genera or subgenera for the species that formerly might have been placed in "*Aphodius*". All subgenera are elevated to generic rank and placed in two tribes, the Aphodiini and the Didactyliini. *Ataenius* and related genera are placed in other "subfamilies" of the family Aphodiidae.

In their initial discussion, the authors give their reasons for elevating all subgenera to the generic level. Problems are discussed, such as the "gap" needed to separate "genera" and the difficulty of placing all described species in one of the 166 genera. This problem has been avoided by limiting the descriptions to the genera and to the type species of each genus. To quote the authors: "Depending upon the extent of descriptions of genera and subgenera of Aphodiinae, it becomes more difficult for the descriptor to insert a new species into a given genus or subgenus unless it closely resembles the type species of one of them. It is often a problem for the specialist to identify an Aphodiinae taxon because it is impossible to check [find] at least one character agreeing with any of those used by authors in establishing genera or subgenera".

Part I of the publication consists of a "Systematic Catalogue" with 166 genera listed in the Aphodiini and 12 in the Didactyliini. Part II consists of "Dichotomical Keys" to all of the taxa. Part III, pages 61 to 304, is the descriptions of genera and their type species placed in the Aphodiini. Part IV is the same for the Didactyliini. This is followed by 16 pages of references, a good index and 134 pages of excellent illustrations of characters used in the keys and of each species discussed in the text.

The authors admit that they have not solved the taxonomic problems, since a world revision is needed for the entire subfamily. However, they have taken the first step in bringing together the information on the genera and subgenera proposed by many different authors. In part I they include the continents on which a given taxon is known to occur, so that North Americans, for example, can find the names that pertain to North America. The keys will also aid in this.

A publication of this broad a scope is never without some problems. With the knowledge that the authors undoubtedly have, they could have clearly indicated doubtful or poorly defined genera. While it would be useful to list all of the species in a given genus, it would double the size of the publication. To a great extent Marco Dellacasa has already done this in his *Contribution to a*

world-wide catalogue of Aegialiidae, Aphodiidae, Aulonocnemidae, Termitotrogidae: Parts I & II (1988) and three "Notes" (1988, 1991, and 1995) all published by *Società entomologica italiana*. In the current work, the English could be improved, as some usage is unusual, to say the least. In places the keys can be difficult since many of the couplets are based on a single, often somewhat variable, character. However the very good habitus drawings of the species and of important characters helps to solve many of the difficulties.

In all, this publication is a major contribution for the study of the world fauna of the aphodiines and a necessary reference for anyone interested in the group.

Henry Howden
CMN, Ottawa

Mueller, L.D. and A. Joshi. 2000. *Stability in model populations. Monographs in Population Biology, No. 31. Princeton University Press, Princeton, New Jersey.* ISBN: 0-691-00733-0 (paper) US 29.95\$, ISBN: 0-691-0073-2 (cloth) US 79.50\$

This welcome addition to the Princeton series of Monographs in Population Biology is timely and well constructed. The authors combine the power of theory with the insights obtained from classic long-term studies on laboratory populations of insects and then consider natural populations as well.

The history of the concept of stability in ecology has been characterized by attempts to arrive at an appropriate definition of stability in the context of ecology. This history has been both guided and clouded by the mathematical notion of linearized stability. Linearized stability has the advantages of being easy to conceptualize and to determine but has the disadvantage that it relies on small perturbations to satisfy the constraints of linearity. These perturbations are often meaningless in an ecological context. On the other hand, if global stability can be assessed, using either Lyapunov functions or numerical stability analysis, then more information of an ecologically useful kind may be obtained. Notions of long-term persistence, resistance and resilience have been proposed to deal with the inadequacies of the definitions of ecological stability emanating from physics and mathematics, but none of these has proven distinctly superior. The treatment of stability in this book deals mostly with linearized stability.

In chapter 1, the authors review the historical aspects of stability, touching on the effects of density-dependence and negative feedback, starting with the early work of Nicholson and proceeding to considerations of the stability of metapopulations and factors likely contributing to stability. They stress the difficulties involved with experimental or field testing of metapopulation phenomena. They also make the succinct point that in most population studies, replication must be at the population level, an often expensive and time-consuming proposition.

Chapter 2 deals with the theory of population stability and methods for testing for stability in models. The authors use these models to test for stability in laboratory populations and show that

not only do different models give different answers, but the inclusion of complicating features such as age structure can profoundly alter the conclusions regarding the same population data set. The concept of chaos is introduced and chaotic dynamics described and related to stability criteria. The mathematical techniques outlined here are useful and well presented, although a somewhat gentler and more expansive introduction to Lyapunov exponents might have been easier to assimilate. The chapter ends with a consideration of how evolution of life history features can affect stability.

Chapter 3 considers techniques for assessing real (as opposed to model) populations. These include linearized stability analysis using population data near the equilibrium, assessing the stability of models in which the parameters are estimated from population data, and time series analysis. A discussion of chaos ensues together with a description of methods to discriminate between chaotic variation and variation caused by extrinsic (random) factors. The apt comparison is made between evolutionary change as a combination of selection (deterministic) and drift (random) on the one hand, and population change as a combination of population regulation (deterministic), including chaos, and extrinsic factors (random) on the other hand. This forms a neat parallel.

Chapter 4 examines the seminal experiments of Nicholson on blowflies. The conclusion is that for both Nicholson's main food provision regimes – (i) abundant for larvae and limiting for adults, and (ii) limiting for larvae and abundant for adults – both biological and modeling considerations lead to the conclusion that the populations are in stable limit cycles, although some degree of chaotic behaviour was also observed.

Chapter 5 deals with *Tribolium*, in which laboratory experiments and modeling have interplayed for decades. After an initial discussion of the biology of *Tribolium*, models are developed and tested in various ways against data from laboratory populations. This interaction between theory and experiment has been very fruitful in the study of *Tribolium* and this chapter sets a standard for its use in ecology in general. The description of this interplay between models and experiments in this chapter could be used as substantial material in a course in quantitative ecology, not just confined to considerations of stability.

Chapter 6 considers *Drosophila* and reviews both the classic work of the mid-twentieth century and the later work by the book's authors on the population dynamics and stability of laboratory *Drosophila* populations under various transfer and food provision regimes. Experiments aimed at facilitating the evolution of stability showed no evolution of stability, but did yield the evolution of life history parameters. This chapter is valuable, as it draws together the research on *Drosophila* population dynamics and also shows how to test for stability in these populations.

Chapter 7 deals with natural populations, detailing the much greater difficulties involved in getting relevant data on these populations for assessing stability criteria. The authors ask the question, "Why, then, should we bother to study natural populations at all?" They do answer the question, but not with the obvious answer that natural populations represent nature, whereas

laboratory populations, however informative, do not. They review several well-studied species and conclude that, while cycles appear to be a fact in some species, chaos is rare in natural populations.

Chapter 8 discusses the role of time lags in stability of populations, and in particular how time lags can arise as a consequence of the demographic structure of the population. The authors point out that time lags may stabilize or destabilize populations. Unfortunately it is not made clear the criteria for time lags that determine these different outcomes. This is an important point and it is unfortunate that the last chapter contains this ambiguity, as the rest of the book is very clearly presented. The three model systems presented in chapters 4, 5 and 6 are then compared and conclusions drawn regarding generalizations of population dynamic behaviour.

There are very few negative aspects of the book. The grammar is not quite perfect in some places, but is generally good, and typographical errors are very sparse. The authors are somewhat selective in their references; for example, the work of Worthen is mentioned in discussing predator-mediated competitive coexistence of *Drosophila* species, but the much earlier classic work of Paine on starfish-mediated coexistence of competing intertidal mollusks is not mentioned (although Paine did not do his work in a laboratory).

On balance, this book is an excellent contribution to the field of population dynamics and surveys the existing laboratory studies on well studied species. They draw conclusions that many workers might not be aware of unless they had studied the voluminous literature on those species. The authors make a strong case for expanded work on single and multiple species populations in the laboratory to test and develop ecological theory in a way that is very difficult or impossible in field studies. I liked the book and I learned from it. It needs to be on the shelf of every population ecologist.

Hugh J. Barclay
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Maw, H.E.L., R.G. Foottit, K.G.A. Hamilton and G.G.E. Scudder. *Checklist of the Hemiptera of Canada and Alaska*. NRC Research Press, Ottawa, Ontario. 2000. Pp. vii+220. ISBN 0-660-18165-7, \$39.95 (softcover).

Some 3600 species in the order Hemiptera including Homoptera, or Rhynchota, have been recorded from Canada and Alaska. This checklist provides information on their occurrence in the various provinces, territories, and the state of Alaska. The information is organized by superfamily, family, subfamily, tribe, and genus. A brief synopsis of the most important morphological and ecological features is provided for families and higher categories as well as for some genera, together with references to (selected) identification guides, catalogues, and bibliographies. Genera and, within each genus, species are listed in alphabetical order with the name(s) of the scientific authority and available common names. Most of the 85 families contain

only a relatively small number of species, with the exception of Aphidoidea (or true aphids) and Cicadellidae (or leafhoppers) which are represented by some 800 and 1100 species, respectively. Except for some questionable literature records, the majority of records is supported by specimens in the collections of major museums and the Canadian National Collection of Insects, Arachnids and Nematodes (Agriculture and Agri-Food Canada, Ottawa).

The checklist will be useful to both taxonomists and non-taxonomists in that it provides an authoritative and up-to-date catalogue of the hemipteran insects found in Canada and Alaska. Also, workers in biological control and pest management may refer to the checklist for first information on economically important, possibly extinct, and non-native species, which latter include introduced and established species, species found only indoors, unestablished adventive species, and port-of-entry interceptions; these terms are explained in a short introductory chapter. Although a number of species are shown as rare or very local in occurrence, the list does not distinguish between species that are rare and may be endangered because of habitat limitation, species that occur at low densities in spite of apparently abundant resources, and yet others that may have been the subject of insufficient sampling effort and hence only seem to be rare.

Species lists are tedious to produce because of the large number of data that must be processed, which often results in mistakes such as the misspelling of scientific names. However, in checking aphid names for errors, I found only one spelling mistake (i.e., *Macrosiphoniella absinthii* [L.] is spelled as *M. absinthi*) and one questionable annotation (i.e., *Ghariesia polunini* Stroyan is shown as being rare indoors in British Columbia but was found outdoors feeding on *Carex mertensii* Prescott, its only known host plant). A possible source of confusion is that only some of the more common synonyms are included, which makes it difficult for general users to verify literature records, especially older records.

The checklist includes a carefully selected list of references for further study and two alphabetical indices, one to genera and subgenera and the other to species and subspecies. The book can be ordered direct from the NRC Research Press (NRC No. 42850).

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Biological Survey of Canada (Terrestrial Arthropods) Survey Report

The Scientific Committee met in Ottawa on April 26-27, 2001. A more detailed account of the meeting is included in the *Newsletter of the Biological Survey of Canada (Terrestrial Arthropods)* 20(2), 2001.



Scientific Projects

The various scientific projects of the Survey were discussed, including the following progress.

Grasslands

A letter has been sent out to a number of philanthropic foundations soliciting support for the grasslands project, although so far most replies have been negative because the project does not fit the foundations' funding priorities. The informal conference on arthropods of grasslands held at the joint meeting in December, and outlined in the latest grasslands newsletter, had generated useful input, e.g. about areas currently being sampled. A more formal symposium is planned for the 2002 ESC Annual meeting in Winnipeg, with a focus on ecology/habitat-based work, that will lead to a volume of symposium proceedings. How to track residues from insect collecting is currently being considered. An excursion to the Onefour area in summer 2001 will focus on work associated with the grasslands project.

Family keys

Funding has been received to complete keys to the families of insects in British Columbia over the next five years, so that the authors will be able to expand that key to produce the Canadian keys.

Seasonal adaptations

Several papers on insect life cycles and cold hardiness are published or in press. Lectures and seminars on seasonal adaptations (especially in a Canadian context) were also given at Kochi and Osaka City Universities in Japan. An invited lecture on diapause responses will be presented at the 4th European Workshop of Invertebrate Ecophysiology (St. Petersburg, September 2001).

Insects of Keewatin and Mackenzie

Two accounts of the 2000 trip to the Horton River were published, in *Newsletter of the Biological Survey of Canada (Terrestrial Arthropods)* 19(2): 48-51 and in *Arctic Insect News* 11: 6-9. During 2001, a smaller trip is planned to Yellowknife and Wood Buffalo National Park, an area in between the Horton and the Thelon Rivers. An expedition to the Thelon River will proceed in 2002.

Other scientific priorities

Arthropod fauna of soils

Dr. Behan-Pelletier reported on several relevant publications, meetings, publicity for soil mites, and recent research activities and expertise.

Invasions and reductions

A book resulting from a session at the 2001 EMAN meeting on alien invaders is now in press. One recently added faculty member at the Redpath Museum of McGill University works on freshwater invasive species. Dr. Behan-Pelletier requested that any information on invasive species in soil, especially arthropods, be forwarded to her because she is considering the possibility of a symposium on this subject. Members of the Committee provided examples highlighting the importance of insect collections in identifying invasive species.

Endangered species

Hearings of a parliamentary committee recently reviewed the endangered species legislation. There is an attempt to get the bill strengthened because of potential weaknesses of terminology and effectiveness. The Act may not result in many benefits, although the government has already allocated money towards stewardship programs. If the legislation is passed unchanged, however, public perception may be that sufficient protection for endangered species is in place when it is not.

Survey web site

Dr. Danks reported on additional and pending elements of the site. Several favourable comments from colleagues and feedback from the site's email address had been received. The site has had many hits and the number seems to be increasing steadily. However, some problems persist in posting new material and changes, and a revised system is needed to make the database about relevant workers and their interests fully functional, because the current version was not designed as a web-based system.

Faunal analysis

A list of number of species by family from *Canada and its insect fauna* will soon be added to the web site. Together with updated numbers for some taxa, the data might stimulate others to provide updated lists. A plan to take the project further is being developed.

Standards for specimen data labels

The Committee endorsed a brief on standards for specimen data labels, which will soon be published as part of the Survey's document series.

Voucher specimens

The Committee discussed how to raise awareness of the importance of voucher specimens. A document to emphasize the need for vouchers will be prepared for consideration at the next Committee meeting.

Information on naturalist handbooks

The possibility that the Survey could expand naturalists guides, in preparation by Dr. Steve Marshall, into more technical products was discussed. The Committee agreed to consider how best to coordinate these sorts of publications and what should be the role of the Biological Survey, given the value of such naturalists guides.

Arthropods and fire

A number of studies of arthropods in fire sites were reported on. A full fire cycle can take many years.

Publication of systematic and faunistic papers

The Committee discussed needs and possibilities for publishing the results of systematic and faunistic work in Canada. The Committee endorsed the idea of a revitalized Lyman Museum series, as well as the possibility of a new Canadian NRC journal for systematics and taxonomy.

The cost of insect identifications

The Survey agreed to pursue the idea of a short document pointing out and substantiating the time and expertise involved in identifying insects to various taxonomic levels, and hence the fair costs of the work.

Monitoring of continuing priorities for work on Canadian faunas

Updated information on earlier or currently less active Survey projects was reviewed, including arthropods of peatlands, aquatic insects of freshwater wetlands, arthropod fauna of large rivers, arthropod ectoparasites of vertebrates, arthropods of the Yukon, arthropods of the Queen Charlotte Islands (Haida Gwaii), arthropods of special habitats, climatic change and agroecosystems. Particular progress on the insects of Newfoundland was reported, and that project was reinstated as an active Survey priority.

NSERC reallocations exercise

Dr. Laurence Packer, a guest of the Committee, summarized the current reallocation process at NSERC. The Committee discussed various possibilities at length and made some suggestions to Dr. Packer.

Other priorities

The Committee also discussed old-growth forests, damaged ecosystems, Survey publicity, and funding for biodiversity projects.

Liaison and exchange of information

Canadian Museum of Nature

Dr. Mark Graham, Director, Research Services, reported about the Global Biodiversity Information Facility (GBIF), an educational exhibit by the Canadian Museum of Nature on endangered plants in Canada, the NSERC post graduate supplement for systematics research, and a draft framework on collection care produced by the Natural Sciences and Engineering Research Council (NSERC). The CMN is developing its national collection development plan which will be ready for circulation and comment in about a month. This document will provide some context for what should come into the national collection given the limitations of finite space, large numbers of collections and the requirement to provide data electronically.

Eastern Cereal and Oilseed Research Centre (ECORC)

Dr. Bob Footitt announced that discussions have begun about restructuring the research branch of Agriculture and Agri-Food Canada. Plans for improving the collection facility are proceeding with a submission sent to Treasury Board. Approval has been received to hire a systematist in the next fiscal year, the first hiring for 10 years.

The Canadian Biodiversity Network Conference

The final list of participants at the Canadian Biodiversity Network Conference was circulated [and see http://www.nrc.ca/confserv/biodiversity/presentations_e.html]. A final document in due course, with recommendations, would address all relevant aspects, such as training, chairs at universities, databasing, infrastructure, etc. The importance of education was emphasized at the conference as well as the aim for a true collaborative network. The meeting was encouraging from various viewpoints, though it is still relatively early. For example, two federal ministers gave introductory talks with significant comments.

Entomological Society of Canada

Dr. Footitt, President, Entomological Society of Canada, reported that the mid-term Governing Board meeting was held recently. The Society has a financial surplus now, in part as a consequence of the restructuring accomplished a few years ago. The Borden award for students of pest management has been established and a search for funding has begun. The current editor of *The Canadian Entomologist* has announced his intention to resign effective January 2002. Dr. Footitt circulated a tentative program for the 2001 Annual Meeting in Niagara Falls, Ontario. A number of comments were made about the logistical and other difficulties of dealing with the large Entomological Society of America at the 2000 joint meeting and especially the professional organizers, although the science program was good.

Parks Canada

Dr. Stephen McCanny, Ecosystem Protection Biologist, Ecological Integrity Branch, Parks Canada reported that in February the Canada National Parks Act was proclaimed. Ecological integrity is given first priority in all aspects of parks management and planning. Some recommendations of the panel on the ecological integrity of Canada's national parks have been recently acted upon and the next step will be to act on those things that require funding. Several recently established parks that require further inventory will be getting new funding and Treasury Board has accepted the idea that increased base funding is required to achieve ecological integrity and increased science capacity. The Committee noted that knowledge of arthropod biodiversity is essential to ecological integrity, while parks are attractive to entomologists because of their long-term stability. Ways to facilitate insect work in parks were discussed. Especially given problems perceived with the permitting process, for example, the Survey agreed to work with Dr. McCanny to try to initiate some more general discussions to inform Parks personnel about the value of arthropods and to work out some more feasible strategies for entomological research in Parks.

Parasitology module, Canadian Society of Zoologists

Dr. David Marcogliese explained that the parasitology module functions in somewhat the same way as the terrestrial arthropod module did in its early years. It is trying to demonstrate its value and produce products, such as protocols for monitoring parasites in biodiversity studies, and a national stickleback parasite survey.

Secretariat activities

Ongoing operations of the Biological Survey Secretariat were reviewed, including coordination, research and other roles, and Dr. Danks' travels to entomological centres on behalf of the Survey to exchange information about relevant work and to present seminars and lectures. Lectures were also presented in Japan, and Dr. Danks participated in a workshop there on a new Japanese high school biology textbook.

Other items

Regional developments

Members of the Committee summarized information from different regions of the country. For example, in British Columbia, Dr. Scudder announced that the *Butterflies of B.C.* has been published. An analysis of richness and rarity hot spots for the province is under way. Systematics work on aphids, mirids, pentatomids and lygaeids continues. Significant areas have been protected as a result of data on endangered species, for example grassland areas in the Okanagan. An identification and information guide on conifer-defoliating insects of B.C. will be published. Universities in British Columbia face a 3% decline in budget this year.

In the prairies, expansion of the Lethbridge Research Centre continues and the new offices and laboratories should be ready by September 2002. The University of Manitoba will experience its first budget increase in 20 years. The cabinet and drawer capacity of the Strickland Museum at the University of Alberta is increasing by 40%, a virtual museum is being built (see <http://www.biology.ualberta.ca/uasm/uasm.html>), and there are several other positive developments at the University of Alberta.

In Ontario, Dr. Currie reported that the master planning process continues at the Royal Ontario Museum. Databasing of the butterfly collection is now complete and databasing of the dragonflies continues. A book on black flies of North America will be published in 2002. Student projects at various universities were described. The website for the University of Guelph includes the insect collection (<http://www.uoguelph.ca/~smarsha/>).

In Quebec, the curatorial position at the Lyman Museum of McGill University has been filled by Ms. Stephanie Boucher. Parts of the Leon Provancher collection have been recognized by the Quebec government as a biological heritage collection and there has been some public recognition of the value of biodiversity collections for documenting Quebec's cultural past. The Entomological Collections Network meeting was held just prior to the joint ESC/SEQ/ESA meeting in Montreal in December 2000. Interest in entomology is high at the school level. The 5^e Conference Internationale Francophone d'Entomologie (CIFE) will be held in Montreal in July 2002.

For Newfoundland and the Maritimes, Dr. Larson reported that in Newfoundland much of the provincial civil service is being decentralized, including most of the natural resources related departments. As a result there have been massive resignations. The threat of West Nile virus is leading to a number of large-scale mosquito surveys in Nova Scotia and New Brunswick. The annual meeting of the Acadian Entomological Society will be held at the University of Prince Edward Island, August 23-24, 2001.

For the Arctic, logistic support from the Polar Shelf Continental Project in the western arctic is not available and the centre at Tuktoyaktuk is closed. The situation in Canada contrasts with that in other nations that provide considerable funding for arctic research. For example, the Canadian Polar Commission spends nearly \$1 million per year on administrative matters but none on research.

Other matters

The Committee also considered recent Survey publications, notably the Survey, arctic and grasslands newsletters, the annual report to the Canadian Museum of Nature, liaisons with organizations outside Canada, and information on relevant publications and meetings. The Annual General Meeting of the Biological Survey Foundation took place.

Hugh Danks
Canadian Museum of Nature
Ottawa

NEWS OF ORGANIZATIONS AND MEETINGS

ICOPA X: The 10th International Congress of Parasitology, "Parasitology in a New World". August 4-9, 2002, Vancouver Convention and Exhibition Centre, Vancouver, B.C. The call for abstracts and registration is now ONLINE at: www.venuewest.com/ICOPA. Deadline for abstract submission is March 1, 2002. Contact: The ICOPA X Secretariat, c/o Venue West Conference Services, Ltd., #645 375 Water Street, Vancouver, BC, Canada V6B 5C6
Tel: (604) 681-5226 / Fax: (604) 681-2503 e-mail: congress@venuewest.com

Environmental Impact of Crop Protection, organised by the Association of Applied Biologists, will be held in Edinburgh March 20-21, 2002. The meeting aims to address the impacts that crop protection as a whole (not just pesticides or genetic modifications) have on the environment. Contributed papers, posters or commercial exhibits are welcome. Details and forms are available at: <http://www.aab.org.uk/meetings/mtgs2002/envirimp.htm>

The 22nd International Congress of Entomology will be held in Brisbane, Australia, August 15-21, 2004. See the website, <http://www.ccm.com.au/icoe/index.html>

The XVth International Plant Protection Congress, Beijing, China, July 6-11, 2003. Sponsored by The International Association for the Plant Protection Sciences, and Organised by China Society of Plant Protection. For further information, contact: Ms. WEN Liping, Secretariat, 15th IPPC, c/o Institute of Plant Protection, Chinese Academy of Agricultural Sciences, Beijing 100094 China,
Tel: 0086 10 62815913 Fax: 0086 10 62815913
e-mail: ippc2003@ipmchina.net <http://www.ipmchina.net/ippc/ippcwelcome.html>

The 5th International Congress of Dipterology, Brisbane, Australia, will be held Sept 29 to Oct 5, 2002. More information can be found at the meeting website:
<http://www.uq.edu.au/entomology/dipterol/diptconf.html>

International IPM Conference: The Ontario Ministry of Agriculture Food and Rural Affairs is hosting an international IPM conference in Toronto March 24-26, 2002. "Exploring New Frontiers in Integrated Pest Management" will cover a diverse range of perspectives on IPM. The presentation schedule is already set, but posters on any aspect of IPM are welcome. Visit the following conference website: <http://www.gov.on.ca/OMAFRA/ipmconference/>
Contact: Neil Carter, Tender Fruit and Grape IPM Specialist
Ontario Ministry of Agriculture, Food and Rural Affairs
Vineland Resource Centre - Advisory Services Building
P.O. Box 8000, 4890 Victoria Avenue North, Vineland, ON L0R 2E0
Tel: (905) 562-3833, Fax: (905) 562-5933, neil.carter@omafra.gov.on.ca

The 8th International Working Conference on Stored Product Protection will be held in York, UK in 2002. Details about the conference are available on:
<http://www.icscs.co.uk/iwcsp2002/>

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

The Annual Meeting of the Canadian Society of Zoologists will be held May 8-11, 2002, at the University of Lethbridge, Alberta. Meeting web site: <http://home.uleth.ca/~goatcp/csz/>
Meeting Chair: Dr. Cameron Goater, Department of Biological Science,
University of Lethbridge, 4401 University Drive West, Lethbridge, AB T1K 3M4
Tel. (403) 329-2752 Fax: (403) 329-2082 goatcp@hg.uleth.ca

The 53rd Annual Meeting of the American Institute of Biological Sciences will be held March 22-24, 2002, in Washington, DC. (D. Johnson will attend, and a short report will be published in the June Bulletin of the ESC.) For more information, visit the website: www.aibs.org

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Membership Form (new members only)

(This is being typed for the next issue. Contact Dan at JohnsonDL@em.agr.ca
or find one from an old Bulletin.)

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and submit corrections, including the
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