

Bulletin

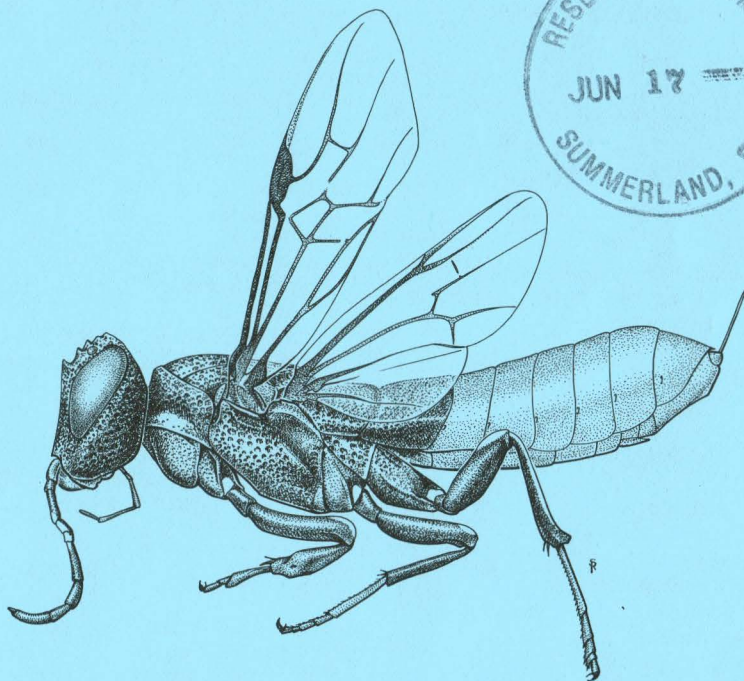
Entomological Society
of Canada

Société d'Entomologie
du Canada

Volume 31

No. 2

June/juin 1999



Entomological Society of Canada
Société d'Entomologie du Canada

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

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des matières sur la couverture-arrière

Date of issue/Date de publication:
June / juin 1999

Web Page for the ESC: <http://www.biology.ualberta.ca/esc.hp/homepage.htm>

E-mail: entsoc.can@sympatico.ca

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

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

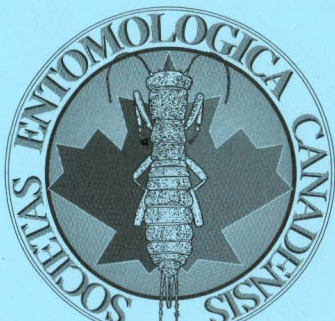
Illustrated on the front cover is a *Orussus occidentalis* (Cresson) (Hymenoptera: Orussidae). These rare and unusually sculptured Hymenoptera are a link between phytophagous sawflies and the thin-waisted Apocrita. They are the only parasitic Symphyta known. The family is ancient and well represented as fossils. [Habitus illustration by Susan Rigby, Ottawa, Ontario, courtesy of H. Goulet and J. Huber.]

La page couverture illustre l'adulte de *Orussus occidentalis* (Cresson) (Hymenoptera: Orussidae). Ces hyménoptères rares aux ornements inusités constituent un lien entre les mouches à scie polyphages et les Apocrites à taille fine. Ce sont les seuls Symphytes parasitiques connus. Cette famille est ancienne et est bien représentée dans les fossiles. [L'illustration par Susan Rigby, Ottawa, Ontario, une courtoisie de H. Goulet and J. Huber..]

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

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

SOCIETY BUSINESS/AFFAIRES DE LA SOCIÉTÉ

49th Annual General Meeting

The Annual General Meeting of the Entomological Society of Canada will be held at the *Radisson Hotel* in Saskatoon on September 26, 1999.

La réunion annuelle générale de la Société d'entomologie du Canada aura lieu au *Radisson Hotel* à Saskatoon, Sask., le 26 septembre 1999.

Governing Board Meeting

The Annual Meeting of the Governing Board will be held at the *Radisson Hotel* in Saskatoon on September 25, 1999.

La réunion annuelle du conseil d'administration se tiendra au *Radisson Hotel* à Saskatoon, Sask., le 25 septembre 1999.

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

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

Dr. Rick West
Box 515, Portugal Cove
Newfoundland A0A 3K0
phone and fax: 709-895-2734
email: reely.west@roadrunner.nf.net

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

*Please send all correspondence concerning
the Bulletin to:*

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

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

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

The deadline for submissions to be included in the next issue (Vol. 31(3)) is **Aug 1, 1999**

La date limite pour recevoir vos contributions pour le prochain numéro (Vol. 31(3)) est le **1 août 1999**

**The Joint Meeting of the
Entomological Society of Canada and the
Entomological Society of Saskatchewan**

Radisson Hotel, Saskatoon, Saskatchewan, September 26-29,
1999

**Theme: Managing the Millennium Bug
'Entomology in the 21st Century'**

"Managing The Millennium Bug"



TENTATIVE PROGRAM

Saturday, September 25

08:30-17:30 Entomological Society of Canada
Governing Board Meeting

E.S.C. - E.S.S.
SASKATOON 1999

Sunday, September 26

10:00-16:00 Registration
13:00-17:00 Workshop (Lygus bug)
13:00-17:00 Workshop (Preparing Grant Applications: Student Affairs Committee)
19:30-20:30 Students meet the Board
20:30-23:00 Mixer / Wine and Cheese

Monday, September 27

08:00-10:00 Registration
08:30-10:00 Opening Remarks, ESC Awards, Gold Medal Address
10:30-12:00 Plenary Lectures: Global and Local Perspectives on Managing the Millennium Bug (Dr. David Pimentel, Cornell University)
13:30-15:00 Contributed Papers, Student Papers (President's Prize)
14:30-16:00 Poster Session (presenters in attendance)
16:00-17:00 Heritage Lecture
19:00-21:00 Workshop (Internet Resources for Entomologists)
20:00-22:00 President's Reception (by invitation only)

Tuesday, September 28

08:30-12:00 Symposium I (Pest Forecasting). Organizers: O. Olfert and D. Johnson
Presenter: R. Hopkinson, D. Johnson, K. Klein, D. Lactin, TBA
13:30-16:30 Contributed Papers
13:30-16:30 Workshop (Leafhopper)
16:30-18:00 Entomological Society of Canada Annual General Meeting
19:00-23:00 Cocktails and Banquet

Wednesday, September 29

09:00-12:00 Symposium II (Biorational/Biotechnological Pest Control). Organizer: G. Khachatourians. Presenters: J-L. Schwartz, P. Marone, B. Anderson, TBA
09:00-12:00 Contributed Papers/ Additional Workshops?
12:30-14:00 Entomological Society of Canada Governing Board Meeting

For additional information, please contact:

Dwayne Hegedus (General Chair)	or	Cedric Gillott (Program Chair)
Agriculture and Agri-Food Canada		Department of Biology
107 Science Place		University of Saskatchewan
Saskatoon, SK		112 Science Place
S7N 0X2		Saskatoon, SK, S7N 5E2

**Réunion commune entre
la Société d'Entomologie du Canada et
la Société d'Entomologie de la Saskatchewan.**

Hôtel Radisson, Saskatoon, Saskatchewan, du 26 au 29
septembre 1999

**Thème: Gérer les ravageurs du nouveau millénaire
"L'Entomologie au 21ème siècle"**

PROGRAMME PROVISOIRE

"Managing The Millennium Bug"



E.S.C. - E.S.S.
SASKATOON 1999

Samedi 25 septembre

08:30-17:30
SEC

Réunion du comité directeur de la

Dimanche 26 septembre

10:00-16:00
13:00-17:00
13:00-17:00
ante)
19:30-20:30
20:30-23:00

Inscriptions

Réunions de travail (Les Lygus)

Réunions de travail (Préparer des demandes de bourses: Association étudi-

Rencontres étudiants / comité directeur

Soirée "vins et fromages"

Lundi 27 septembre

08:00-10:00
08:30-10:00

Inscriptions

Discours d'ouverture, remise des prix SEC et attribution de
la médaille d'or pour accomplissements exceptionnels au sein
de la SEC.

10:30-12:00

Sessions plénières : Perspectives locales et globales sur la
gestion des ravageurs du nouveau millénaire (David
Pimentel, Université de Cornell)

13:30-15:00

Présentations orales (régulières et prix du Président)

14:30-16:00

Présentations des posters (auteurs présents à côté de leurs posters)

16:00-17:00

Discours historique

19:00-21:00

Réunions de travail (l'Internet au services des entomologistes)

20:00-22:00

Réception présidentielle (sur invitations seulement)

Mardi 28 septembre

08:30-12:00

Symposium I (Prévision des infestations dues aux ravageurs).

Organisateurs : O. Olfert and D. Johnson.

Conférenciers : R. Hopkinson, D. Johnson, K. Klein, D. Lactin.

13:30-16:30

Présentations orales

13:30-16:30

Réunions de travail (les cicadelles)

16:30-18:00

Assemblée générale annuelle de la SEC

19:00-23:00

Cocktails et banquet

Mercredi 29 septembre

09:00-12:00

Symposium II (Lutte intégrée et contrôle biotechnologique des
ravageurs). Organisateur : G. Khachatourians.

Conférenciers : J-L. Schwartz, P. Marone, B. Anderson

09:00-12:00

Présentations orales / Réunions de travail

12:30-14:00

Réunion du comité directeur de la SEC

Pour plus d'informations, contactez :

Dwayne Hegedus (coordinateur général)
Agriculture et Agroalimentaire Canada
107, Science Place
Saskatoon, SK
S7N 0X2

ou

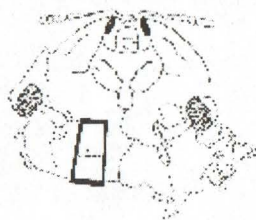
Cedric Gillott (coordinateur du programme)
Département de biologie
Université de la Saskatchewan
112, Science Place
Saskatoon, SK, S7N 5E2

**Joint Meeting of the
Entomological Society of Canada and the
Entomological Society of Saskatchewan**

"Managing The Millennium Bug"

Radisson Hotel and Conference Centre, Saskatoon (SK), Sept.
26-29, 1999

REGISTRATION FORM



E.S.C. - E.S.S.

SASKATOON 1999

Name: _____

Last

First

Initials(s)

Title: _____

City: _____ Province/State: _____ Postal Code: _____

Telephone: _____ Fax: _____ E-mail: _____

Registration fees (\$Cdn) include banquet and GST.

Amount Paid

Registration, regular member (\$125) _____

Registration, non-member (\$145) _____

Registration, student member (\$65) _____

Registration, student non-member (\$75) _____

Registration, accompanying member (\$60) _____

Name of accompanying person _____

Activities for participants and their guests

Western Development Museum (\$10 per person) _____

Wanuskewin Heritage Park (\$10 per person) _____

Late registration: after August 6, 1999, add \$25 _____

Total Amount Due _____

Please make cheque payable to 'ESC Meeting 1999'

Remember to register for the associates program when registering. For more information on activities, refer to the list of 'activities for participants and their guests'.

Accommodations: A block of rooms with one Queen-size or two double beds (\$85/night) has been reserved for participants at the Radisson Hotel. Cut off date to make reservations is Aug. 24, 1999. To obtain this reduced rate indicate that you are participating in the "Entomological Society National Meeting" when making reservations. Any groups requiring additional meeting rooms should contact conference organizers in advance.

Reservations are available through:

Radisson Hotel Saskatoon
405-20 th Street East
Saskatoon, SK S7K 6X6
Ph: 306-665-3322
Fax: 306-665-5531

Return this form and registration fee to:

Juliana Soroka
Agriculture and Agri-Food Canada
107 Science Place
Saskatoon, SK, Canada, S7N 0X2
Ph: 306-956-7294, Fax: 306-956-7247
E-mail: Sorokaj@em.agr.ca

Réunion commune entre
la Société d'Entomologie du Canada et
la Société d'Entomologie de la Saskatchewan.

"Managing The Millennium Bug"

Centre de conférences de l'hôtel Radisson, Saskatoon (SK), du 26
au 29 septembre 1999

BULLETIN D'INSCRIPTION

Noms : _____
Nom de famille Prénoms Initiales

Titre: _____

Ville: _____ Province / état : _____ Code postal : _____

Téléphone : _____ Télécopieur : _____ Adresse électronique : _____

Frais d'inscription (\$Cdn) incluant le banquet et la TPS.

	Sommes dues
Frais d'inscription : - membre régulier	(\$125) _____
- non membre	(\$145) _____
- étudiant membre	(\$65) _____
- étudiant non membre	(\$75) _____
- accompagnateur	(\$60) _____

Nom de l'accompagnateur: _____

Activités pour les participants et leurs hôtes

1. Western Development Museum (\$10 par personne) _____
2. Wanuskewin Heritage Park (\$10 par personne) _____

Inscription tardive (après le 7 août 1999), supplément de \$25 : _____

Total dû : _____

Veuillez émettre les chèques à l'ordre de "ESC 1999", s.v.p.

N'oubliez pas de vous inscrire aux programmes associés au congrès au moment de l'inscription. Pour plus d'informations sur ces activités, veuillez consulter la liste "activités pour les participants et leurs hôtes".

Logement : Un groupe de chambres comportant chacune un lit double (\$85 par nuit) a été réservé à l'Hôtel Radisson pour les participants.

Les réservations peuvent être faites auprès de :

Hôtel Radisson de Saskatoon
405-20 th Street East
Saskatoon, SK
S7K 6X6
Ph: 306-665-3322
Fax: 306-665-5531

**Retournez ce bulletin d'inscription accom-
pagné de votre paiement à :**

Juliana Soroka
Agriculture et Agroalimentaire Canada
107, Science Place, Saskatoon, SK, Canada
Tél : 306-956-7294
Télécopieur : 306-956-7247
Adresse électronique : Sorokaj@em.agr.ca

**Joint Meeting of the
Entomological Society of Canada and the
Entomological Society of Saskatchewan**

Radisson Hotel and Conference Centre, Saskatoon (SK),
September 26-29, 1999

**FORM FOR SUBMITTED PAPERS, STUDENT PAPERS,
AND POSTER PRESENTATIONS**

DEADLINE: Postmarked June 30, 1999

Information required: Author's names, name of presenter, address, title and abstract

Abstracts should be 50 words or less; submission by e-mail or on diskette would be much appreciated.
If possible please provide your abstract in both official languages.

Category of presentation (please check):

Regular _____ **President's Prize*** _____ **Poster** _____

**Students are eligible for the President's Prize if they meet the following criteria:*

You are enrolled in a graduate degree program or have graduated from a program less than six (6) months prior to the meeting.

You must be registered at the meeting.

You must be the primary investigator of the paper.

You must give and oral presentation.

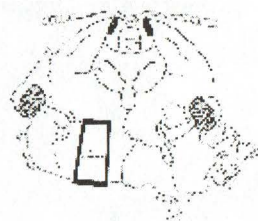
Oral presentation (regular, President's Prize): 12 min + 3 min discussion. Both slide and overhead projectors will be provided. Slides should be provided in a carousel.

Posters: Maximum dimensions: 1.2 m X 1.2 m (width and height)
Attachment to panel:

Please return to:

Dr. Cedric Gillott (Scientific Program Chair),
Department of Biology
University of Saskatchewan
112 Science Place
Saskatoon SK, S7N 5E2;
gillott@duke.usask.ca

"Managing The Millennium: Bug"



E.S.C. - E.S.S.

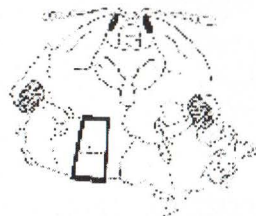
SASKATOON 1999

Volume 31 (2), June - juin, 1999

Réunion commune entre
la Société d'Entomologie du Canada et
la Société d'Entomologie de la Saskatchewan.

"Maravaging The Millennium Bug"

Centre de conférences de l'hôtel Radisson, Saskatoon (SK), du
26 au 29 septembre 1999



**BULLETIN D'INSCRIPTION POUR LES ARTICLES
ET POSTERS À SOUMETTRE.**

DATE LIMITE : le 29 juin 1999 (le timbre de la poste faisant
foi)

**E.S.C. - E.S.S.
SASKATOON 1999**

Renseignements demandés : Noms des auteurs, nom du présentateur, adresse, titre et résumé.

Les résumés doivent être composés au maximum de 50 mots. La soumission des manuscrits par courrier électronique ou par disquette serait appréciée. **Veuillez, si possible, envoyer votre résumé dans les deux langues officielles.**

Mode de présentation (cochez s.v.p) :

Régulier _____ **Prix du Président*** _____ **Poster** _____

* Les étudiants qui remplissent les conditions suivantes sont éligibles pour le Prix du Président :

1. Vous êtes engagés dans un programme d'études graduées ou vous avez été diplômés dans les 6 mois précédant le congrès.
2. Vous devez être inscrit au congrès.
3. Vous devez être le chercheur principal des travaux présentés dans le manuscrit.

Présentations orales (régulières ou prix du Président) : 12 minutes de présentation suivies de 3 minutes de discussion. Des rétroprojecteurs et des projecteurs de diapositives seront fournis aux présentateurs. Veuillez préparer vos diapositives dans un carrousel.

Posters :
- Dimensions maximales : 1.2 m X 1.2 m (largeur x hauteur)
- Panneau d'affichage :

Veuillez retourner le formulaire à :

Dr. Cedric Gillott (Président du programme scientifique)
Département de Biologie
Université de la Saskatchewan
112 Science Place
Saskatoon, SK, S7N 5E2
Gillott@duke.usask.ca.

**Joint Meeting of the
Entomological Society of Canada and the
Entomological Society of Saskatchewan**

"Managing The Millennium Bug"

Radisson Hotel and Conference Centre, Saskatoon (SK),
September 26-29
1999



ACTIVITIES FOR PARTICIPANTS AND THEIR GUESTS:

**E.S.C. - E.S.S.
SASKATOON 1999**

Sunday, September 26: Wanuskewin Heritage Park.

The first people who lived in the Opimihaw valley long ago left traces of a lifestyle that is now taught and implemented at the park today. Information about the past, which could not be learned about from artifacts, were passed down through time in legends and stories told by the Elders. Your guide will introduce you to many culturally appropriate teachings of First Nations people. Regular features include a 25 minute slide presentation about the Park and archeological dig, restaurant, art and craft gallery and 6.2 km of walking trails. For more information view the web site at :
"<http://198.169.147.125/~wanuskewin/index.html>".

Monday, September 27: Western Development Museum; 1910 Boomtown.

Agriculture and Transportation galleries combine with Boomtown to provide a colourful and comprehensive look at western development in Saskatchewan. From an isolated, underdeveloped land, Saskatchewan developed thriving communities like Boomtown. This is how the Saskatchewan pioneer spirit conquered the isolation of the far west. Come and admire the largest indoor exhibit of pioneer agricultural tractors in Saskatchewan. While you are there, stroll through Saskatoon's only vintage car display. As well, stop by the Boomtown Cafe. This working exhibit offers delicious home cooked flavour and variety, tantalizing aroma of home baking in 1910 decor, and daily specials. For more information view the web site at '<http://www.wdmuseum.sk.ca/stoon.html>'.

Suggestions for Restaurants, Bars, Nightclubs and other Activities available on site.

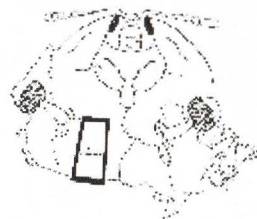
For further information please contact:

Larry Grenkow,
Agriculture and Agri-Food Canada
107 Science Place
Saskatoon, SK, Canada, S7N 0X2
ph: 306-956-7293, fax: 306-956-7247
E-mail: GrenkowL@em.agr.ca

Réunion commune entre
la Société d'Entomologie du Canada et
la Société d'Entomologie de la Saskatchewan.

"Marking The Millennium Bug"

Centre de conférences de l'hôtel Radisson, Saskatoon (SK), du
26 au 29 septembre 1999



E.S.C. - E.S.S.

SASKATOON 1999

**ACTIVITES POUR LES PARTICIPANTS ET LEUR(S)
HOTE(S)**

Dimanche 26 septembre : Wanuskewin Heritage Park.

Les premières populations habitant la vallée de l'Opimihaw ont laissé, année après année, de nombreux vestiges et traces de leur passage. Le parc de Wanuskewin, situé sur le site archéologique de la vallée de l'Opimihaw, expose les vestiges de ce passé et tente d'expliquer la façon de vivre de ces anciens habitants. L'origine et l'utilisation de certains sites n'ont pas encore été comprises et les nombreuses informations sur cette époque ne nous sont parvenues que par l'intermédiaire de légendes ou d'histoires transmises par les Anciens, de génération en génération. Pendant cette visite, votre guide vous fera connaître différents aspects de la culture des premières nations. Vous pourrez aussi assister à un diaporama de 25 min sur le musée et les fouilles archéologiques, visiter la galerie d'art et d'artisanat indiens, ou vous restaurer. 6.2 km de chemins pédestres vous feront découvrir le parc et le site archéologique. Pour plus d'informations, veuillez consulter le site : "<http://198.169.147.125/~wanuskewin/index.html>".

Lundi 27 septembre : Western Development Museum : 1910 Boomtown

La reconstitution d'une ville-champignon et des galeries présentant l'évolution de l'agriculture et des moyens de transports vous donneront un aperçu des changements qui se sont effectués en Saskatchewan depuis le début du siècle. Ce musée vous montre comment l'esprit pionnier a conquis les grandes étendues vierges de l'Ouest canadien. Venez admirer la plus grande exposition de la Saskatchewan sur les machineries agricoles des pionniers de l'Ouest et les voitures de collection de ce siècle. N'oubliez pas de vous arrêter au café Boomtown pour y déguster une cuisine familiale dans un décor des années 1910. Pour plus d'informations, veuillez consulter le site : "<http://www.wdmuseum.sk.ca/stoon.html>".

Des adresses de restaurants, bars et clubs ainsi que des idées pour d'autres activités seront également disponibles sur place.

Pour plus d'informations, contactez :

Dwayne D. Hegedus
Agriculture et Agroalimentaire Canada
107 Science Place
Saskatoon, SK, S7N 0X2, Canada
Tél : 306-956-7667
Télécopieur : 306-956-7247
Adresse électronique : Hegedusd@em.agr.ca

Call for Nominations

Achievement Awards Committee

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 **2000**). 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 **December 31 1999**.

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 2000) 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 **31 décembre 1999**.

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

FINANCIAL STATEMENTS

DECEMBER 31, 1998

McCAY, DUFF AND COMPANY, CHARTERED ACCOUNTANTS

Page 1.

**MCCAY, DUFF
& COMPANY**

CHARTERED ACCOUNTANTS

141 LAURIER AVE. WEST
6TH FLOOR
OTTAWA, ONTARIO K1P 5J3
TEL: (613) 236-2367
FAX: (613) 236-5041
1 (800) 267-6551
E-MAIL: mccay@istar.ca


AUDITORS' REPORT

To the Members,
Entomological Society of Canada.

We have audited the balance sheet of the Entomological Society of Canada as at December 31, 1998 and the statements of revenue and expenditure - General Fund, surplus and cash flows for the year then ended. These financial statements are the responsibility of the Society's management. Our responsibility is to express an opinion on these financial statements based on our audit.

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

In our opinion, these financial statements present fairly, in all material respects, the financial position of the Society as at December 31, 1998 and the results of its operations and cash flows for the year then ended in accordance with generally accepted accounting principles, except that they are not prepared on a proportionate consolidated basis as described in note 6.



Chartered Accountants

Ottawa, Ontario,
February 25, 1999.

JOHN W. FRANKLIN, CA

THOMAS W. HOWARTH, CA

BRYAN E. SULLIVAN, CA

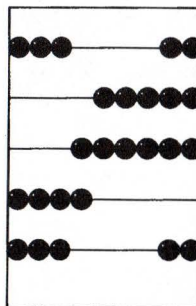
ALBERT G. MONSIEUR, B.Admn., CA

BLAIR E. DAVIDSON, B.Comm., CA

G. WARREN TRICKEY, B.Comm., CA

ROBERT D. SHANTZ, B.Math., CA

CONSULTANT - ELDREN E. MCCONNELL, CA



ENTOMOLOGICAL SOCIETY OF CANADA
BALANCE SHEET
AS AT DECEMBER 31, 1998

ASSETS					
	General Fund	Endowment Fund	Building Fund	Scholarship Fund	1998 Total
CURRENT					
Cash	\$ 113,053	\$ 6,139	\$ -	\$ 14,152	\$ 133,344
Term deposit	25,316	-	-	-	25,316
Accounts receivable	23,070	-	-	-	23,070
Accrued interest receivable	2,402	838	-	1,393	4,633
Interfund balances	8,000	-	-	(8,000)	-
Prepaid expenses	1,562	-	-	-	1,562
	<u>173,403</u>	<u>6,977</u>	<u>-</u>	<u>7,545</u>	<u>187,925</u>
INVESTMENTS (note 5)	129,675	64,631	-	99,780	294,086
INVESTMENT IN BOOK PROJECT (note 6)	62,038	-	-	-	62,038
CAPITAL ASSETS (note 7)	<u>-</u>	<u>-</u>	<u>180,445</u>	<u>-</u>	<u>180,445</u>
	<u>\$ 365,116</u>	<u>\$ 71,608</u>	<u>\$ 180,445</u>	<u>\$ 107,325</u>	<u>\$ 724,494</u>
LIABILITIES					
CURRENT					
Accounts payable and accrued liabilities	\$ 66,410	-	-	-	\$ 66,410
Deferred revenue	99,244	-	-	-	99,244
	<u>165,654</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>165,654</u>
SURPLUS					
	199,462	71,608	180,445	107,325	558,840
BALANCE - END OF YEAR	<u>\$ 365,116</u>	<u>\$ 71,608</u>	<u>\$ 180,445</u>	<u>\$ 107,325</u>	<u>\$ 724,494</u>
					<u>\$ 618,522</u>

Approved on behalf of the Board:

Governor

Governor

ENTOMOLOGICAL SOCIETY OF CANADA

STATEMENT OF SURPLUS

FOR THE YEAR ENDED DECEMBER 31, 1998

	General Fund	Endowment Fund	Building Fund	Scholarship Fund	1998 Total	1997 Total
BALANCE - BEGINNING OF YEAR	\$ 119,530	\$ 68,810	\$ 186,297	\$ 106,600	\$ 481,237	\$ 498,910
Net revenue (expenditure) for the year	82,106	2,798	(8,026)	725	77,603	(17,673)
Interfund transfers	(2,174)	-	2,174	-	-	-
BALANCE - END OF YEAR	<u>\$ 199,462</u>	<u>\$ 71,608</u>	<u>\$ 180,445</u>	<u>\$ 107,325</u>	<u>\$ 558,840</u>	<u>\$ 481,237</u>

ENTOMOLOGICAL SOCIETY OF CANADA

STATEMENT OF REVENUE AND EXPENDITURE - GENERAL FUND

FOR THE YEAR ENDED DECEMBER 31, 1998

	Canadian Entomologist		Memoirs and Other Publications		Society		1998		1997	
	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>	<u>Budget</u>	<u>Actual</u>
REVENUE										
Regular membership	\$ 16,000	\$ 15,200	\$ -	\$ -	\$ 16,000	\$ 15,200	\$ 32,000	\$ 30,400	\$ 33,940	\$ 33,940
Student membership	1,150	580	-	-	1,150	1,500	2,300	2,080	2,160	2,160
Emeritus	-	-	-	-	600	780	600	780	600	600
Subscriptions	131,450	133,197	-	-	20,000	20,266	151,450	153,463	153,013	153,013
Reprints	14,000	11,931	-	-	-	-	14,000	11,931	15,497	15,497
Page charges	36,000	25,320	-	-	-	-	36,000	25,320	52,830	52,830
Back issues	3,300	2,196	-	-	-	-	3,300	2,196	1,137	1,137
Sales of Memoirs	-	-	2,000	4,595	-	-	2,000	4,595	13,879	13,879
Sales of Arctic Arthropods and Bibliography	-	-	200	145	-	-	200	145	108	108
Gain on currency exchange	-	-	-	-	-	16,105	-	16,105	1,324	1,324
Miscellaneous	-	-	-	-	3,000	1,940	3,000	1,940	944	944
REVENUE	\$ 201,900	\$ 188,424	\$ 2,200	\$ 4,740	\$ 40,750	\$ 55,791	\$ 244,850	\$ 248,955	\$ 275,432	\$ 275,432
- Carried Forward										

ENTOMOLOGICAL SOCIETY OF CANADA
STATEMENT OF REVENUE AND EXPENDITURE - GENERAL FUND
FOR THE YEAR ENDED DECEMBER 31, 1998

	Canadian Entomologist		Memoirs and Other Publications		Society		1998		1997	
	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
REVENUE - Carried forward \$	201,900	\$ 188,424	\$ 2,200	\$ 4,740	\$ 40,750	\$ 55,791	\$ 244,850	\$ 248,955	\$ 275,432	
EXPENDITURE										
Publishing and mailing	127,500	91,609	-	-	-	-	127,500	91,609	145,039	
Reprint costs	10,000	9,160	-	-	-	-	10,000	9,160	11,345	
Bulletin publishing	-	-	-	-	16,900	13,586	16,900	13,586	14,241	
Salaries and benefits	17,032	15,162	-	-	17,032	15,162	34,064	30,323	96,315	
Editor's expenses	2,000	3,994	-	-	-	-	2,000	3,994	3,074	
Office	3,250	2,455	-	-	3,250	2,455	6,500	4,910	4,967	
Professional fees	2,000	2,180	-	-	3,000	3,269	5,000	5,450	6,272	
Prizes, awards, brochure	-	-	-	-	1,600	1,104	1,600	1,104	1,558	
Honoraria	1,000	1,000	-	-	2,625	2,625	3,625	3,625	3,625	
Committees	-	1,103	-	-	3,500	136	3,500	1,239	1,237	
Support of other organizations	-	-	-	-	1,700	1,100	1,700	1,100	2,900	
Annual Meetings:										
Grant	-	-	-	-	4,000	2,500	4,000	2,500	2,500	
Honorees	-	-	-	-	2,000	981	2,000	981	548	
Governing Board:										
Interim meeting	-	-	-	-	2,500	2,161	2,500	2,161	1,605	
Annual meeting	-	-	-	-	8,500	4,621	8,500	4,621	4,551	
Other meetings	-	-	-	-	1,000	-	1,000	-	-	
President's discretionary expenses	-	-	-	-	4,000	250	4,000	250	2,000	
General	-	-	-	-	-	1,000	-	1,000	671	
REVENUE (EXPENDITURE)	162,782	126,663	-	-	71,607	50,950	234,389	177,613	302,448	
FROM OPERATIONS	39,118	61,761	2,200	4,740	(30,857)	4,841	10,461	71,342	(27,016)	
Interest on investments	-	-	-	-	8,000	10,764	8,000	10,764	10,065	
NET REVENUE (EXPENDITURE) FOR THE YEAR	\$ 39,118	\$ 61,761	\$ 2,200	\$ 4,740	\$ (22,857)	\$ 15,605	\$ 18,461	\$ 82,106	\$ (16,951)	

ENTOMOLOGICAL SOCIETY OF CANADA

STATEMENT OF CASH FLOWS

FOR THE YEAR ENDED DECEMBER 31, 1998

	<u>1998</u>	<u>1997</u>
CASH PROVIDED BY (USED FOR)		
OPERATING ACTIVITIES		
Net revenue (expenditure) for the year		
- General Fund	\$ 82,106	\$(16,951)
- Endowment Fund	2,798	2,939
- Building Fund	(8,026)	(8,140)
- Scholarship Fund	<u>725</u>	<u>4,479</u>
	77,603	(17,673)
Item not involving cash - amortization	<u>5,852</u>	<u>6,096</u>
	83,455	(11,577)
Net change in non-cash working capital balances related to operations		
- (increase) decrease in accounts receivable	13,838	(8,539)
- (increase) decrease in accrued interest receivable	314	(6)
- (increase) decrease in prepaid expenses	7,268	(1,901)
- increase in accounts payable and accrued liabilities	10,060	46,393
- increase (decrease) in deferred revenue	<u>18,309</u>	<u>(55,990)</u>
	<u>49,789</u>	<u>(20,043)</u>
	133,244	(31,620)
INVESTING ACTIVITIES		
Purchase of investments	(40,000)	-
Proceeds on disposal of investments	15,000	-
Decrease in Investment in Book Project	<u>12,000</u>	<u>5,179</u>
	<u>(13,000)</u>	<u>5,179</u>
INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS DURING THE YEAR	120,244	(26,441)
Cash and cash equivalents - beginning of year	<u>38,416</u>	<u>64,857</u>
CASH AND CASH EQUIVALENTS - END OF YEAR	<u>\$ 158,660</u>	<u>\$ 38,416</u>
CASH AND CASH EQUIVALENTS		
Cash	\$ 133,344	\$ 38,416
Term deposit	<u>25,316</u>	<u>-</u>
	<u>\$ 158,660</u>	<u>\$ 38,416</u>

ENTOMOLOGICAL SOCIETY OF CANADA

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 1998

1. PURPOSE OF ORGANIZATION

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

2. SIGNIFICANT ACCOUNTING POLICIES

(a) Accrual Basis of Accounting

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

(b) Investments

Investments are recorded at cost.

(c) Amortization

Amortization is being claimed on the building at the rate of 4% on the reducing balance basis.

(d) Volunteer Services

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

(e) Fund Accounting

The purpose of each fund is as follows:

General Fund

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

Endowment Fund

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

ENTOMOLOGICAL SOCIETY OF CANADA

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 1998

2. SIGNIFICANT ACCOUNTING POLICIES (Cont'd.)

(c) Fund Accounting (Cont'd.)

Building Fund

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

Scholarship Fund

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

3. FINANCIAL INSTRUMENTS

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

4. UNCERTAINTY DUE TO THE YEAR 2000 ISSUE

The Year 2000 Issue arises because many computerized systems use two digits rather than four to identify a year. Date-sensitive systems may recognize the year 2000 as 1900 or some other date, resulting in errors when information using year 2000 dates is processed. In addition, similar problems may arise in some systems which use certain dates in 1999 to represent something other than a date. The effects of the Year 2000 Issue may be experienced before, on, or after January 1, 2000, and, if not addressed, the impact on operations and financial reporting may range from minor errors to significant systems failure which could affect an entity's ability to conduct normal business operations. It is not possible to be certain that all aspects of the Year 2000 Issue affecting the Society, including those related to the efforts of funders, suppliers, or other third parties, will be fully resolved.

ENTOMOLOGICAL SOCIETY OF CANADA

NOTES TO FINANCIAL STATEMENTS

DECEMBER 31, 1998

5. INVESTMENTS

	<u>1998</u>	<u>1997</u>
General Fund		
Bonds, at cost (market value 1998 - \$141,491, 1997 - \$139,126)	\$ <u>129,675</u>	\$ <u>129,675</u>
Endowment Fund		
Bonds, at cost (market value 1998 - \$72,536, 1997 - \$55,754)	\$ <u>64,631</u>	\$ <u>42,631</u>
Scholarship Fund		
Bonds, at cost (market value 1998 - \$107,866, 1997 - \$95,834)	\$ <u>99,780</u>	\$ <u>89,780</u>

6. INVESTMENT IN BOOK PROJECT

The Entomological Society has invested in the joint project for the publication of "Diseases and Pests of the Vegetable Crop in Canada" in conjunction with the Canadian Phytopathological Society. Both revenue and expenditure are to be shared in an equitable manner. The investment is recorded using the cost method. For the December 31, 1998 fiscal period no accrual was made for sales net of costs as it will be recognized as received. The remaining investment is expected to be recovered over the next few years. The financial statements are in accordance with generally accepted accounting principles, except that they are not prepared on a proportionate consolidated basis.

7. CAPITAL ASSETS

	<u>1998</u>		<u>1997</u>
	<u>Cost</u>	<u>Accumulated Amortization</u>	<u>Net</u>
Land	\$ 40,000	\$ -	\$ 40,000
Building	<u>202,799</u>	<u>62,354</u>	<u>140,445</u>
	<u>\$ 242,799</u>	<u>\$ 62,354</u>	<u>\$ 180,445</u>
			<u>\$ 186,297</u>

ENTOMOLOGICAL SOCIETY OF CANADA
SCHEDULE OF ENDOWMENT FUND REVENUE AND EXPENDITURE
FOR THE YEAR ENDED DECEMBER 31, 1998

	<u>1998</u>	<u>1997</u>
REVENUE		
Interest revenue	\$ 4,569	\$ 4,022
EXPENDITURE		
Page charges and reprints	<u>1,771</u>	<u>1,083</u>
NET REVENUE FOR THE YEAR	<u>\$ 2,798</u>	<u>\$ 2,939</u>

ENTOMOLOGICAL SOCIETY OF CANADA
SCHEDULE OF BUILDING FUND REVENUE AND EXPENDITURE
FOR THE YEAR ENDED DECEMBER 31, 1998

	<u>1998</u>		<u>1997</u>
	<u>Budget</u>	<u>Actual</u>	<u>Actual</u>
REVENUE			
Rental income	\$ 6,214	\$ 6,279	\$ 6,192
EXPENDITURE			
Amortization	-	5,852	6,096
Insurance	600	730	728
Property taxes	4,500	5,057	4,453
Repairs and maintenance	2,055	1,012	1,162
Utilities	<u>1,550</u>	<u>1,654</u>	<u>1,893</u>
	<u>8,705</u>	<u>14,305</u>	<u>14,332</u>
NET RENTAL REVENUE			
(EXPENDITURE) FOR THE YEAR	<u>\$ (2,491)</u>	<u>\$ (8,026)</u>	<u>\$ (8,140)</u>

ENTOMOLOGICAL SOCIETY OF CANADA
SCHEDULE OF SCHOLARSHIP FUND REVENUE AND EXPENDITURE
FOR THE YEAR ENDED DECEMBER 31, 1998

	<u>1998</u>	<u>1997</u>
REVENUE		
Interest revenue	\$ 6,879	\$ 6,849
Donations	<u>1,846</u>	<u>2,384</u>
	8,725	9,233
EXPENDITURE		
Scholarship awards and travel grants	<u>8,000</u>	<u>4,754</u>
NET REVENUE FOR THE YEAR	<u>\$ 725</u>	<u>\$ 4,479</u>

Editor's Note

The Minutes of the Governing Board Meeting on October 31, 1998 were printed in the December 1998 issue of the *Bulletin*, but unfortunately they were incomplete. They are reprinted here in their entirety.

MINUTES

**Governing Board Meeting, October 31, 1998
Chateau Frontenac
Quebec City**

The meeting was called to order at 0830 by President H.V. Danks. Those present were President, H.V. Danks; Past- President, S. Marshall; First Vice-President, L. Gilkeson; Second Vice-President, D. Johnson; Acting-Treasurer and Incoming Second Vice-President, R. Footitt; Scientific Editor, J. Turgeon; Bulletin Editor, H. Barclay; S. Fitzpatrick, J. Spence, L. Dosdall, M. Goettel, and V. Nealis, Directors-At-Large; T. Shore (ESBC), O. Olfert (ESS), R. Lamb (ESM), B. Lyons (ESO), C. Cloutier (SEQ), and L. Hollett (AES), Regional Directors; T. Danyk, Student Affairs; J. McNeil (Annual Meeting 2000), J. Delisle (1998 Meeting Chair), R. Bennett, incoming Director-At-Large; and Secretary, R. West.

1. Notice of Meeting

The notice for this meeting was e-mailed on September 3, 1998 and printed in the March, June and September (1998) issues of the Bulletin.

2. Additions to and approval of the Agenda

L. Gilkeson moved and S. Fitzpatrick seconded that the Agenda be approved.

Carried

3. Proxies and absences

D. Langor (ESA) was absent. There were no proxies.

4. Minutes - Governing Board Meeting, Oct 4 1997 (GB I)

The minutes were circulated by Secretary P. Dixon on November 4, 1997 and published in the December 1997 Bulletin. L. Gilkeson moved and D. Johnson seconded that the minutes be approved.

Carried

5. Minutes - 47th Annual General Meeting, Oct 7, 1997 (AGM)

The minutes were circulated by Secretary P. Dixon on November 4, 1997 and published in the December 1997 Bulletin. B. Lyons moved and R. Lamb seconded approval of the minutes.

Carried

6. Minutes - Governing Board Meeting, Oct 8/97 (GB II)

The minutes were circulated by the Secretary P. Dixon on November 4, 1997 and published in the

E.S.C. Bulletin S.E.C.

December 1997 Bulletin. V. Nealis moved and O. Olfert seconded acceptance of the minutes.

Carried

7. Minutes - Executive Council Meeting, April 18, 1998 (EC)

V. Nealis moved and L. Gilkeson seconded that the minutes as circulated by the Secretary on May 5, 1998 be accepted.

Carried

8. Business arising from the previous minutes:

The following items were identified from previous minutes and discussed:

8.1 NRC Contract and Lawyers opinion (GB I - 9.2.2, EC 9.2.4.1)

The legal firm of Bradley, Hiscock and Wright recommended that the current contract with NRC Press, currently consisting of four documents, be drafted as a single publishing contract with schedules that can easily be amended or replaced. President Danks outlined the nature and development of a long-term contract (initially 3 years) negotiated between the ESC and NRC and legal advisors.

J. Spence moved and L. Gilkeson seconded that such a contract be approved in principle.

Carried

8.2 Final Standing Rules/Committee Guidelines approval and status (GB II - 7 (i), EC - 9.2.9)

President Danks presented a detailed report with drafted amendments and additions to the Standing Rules and Committee Guidelines.

Motions to change the following **Standing Rules** were approved as indicated and will be presented to the general membership for endorsement at the Annual General Meeting.

VII. Employees

1. Office Manager

(a) The Office Manager is responsible to the Society and reports to the Treasurer.

(b) Duties are set forth in a Job Description prepared and maintained by the Treasurer.

(c) Duties shall include preparation, prior to the Interim Executive Council Meeting, of an Annual Report to the President, which normally will be discussed in person with the President and First Vice-President.

(d) Annual salary and benefits shall be recommended by the Executive Council based on the duties, responsibilities and experience of the incumbent, for approval by the Governing Board as part of the annual budget of the Society.

(e) The Job Description and recommended annual salary and benefits shall be reviewed by a committee composed of the Executive Council and the Treasurer prior to employment of a new Office Manager or when deemed necessary by the Executive Council.

(f) The committee's report that follows such a review shall include the method by which salary level and benefits were recommended.

2. Temporary Employees

(a) Casual personnel may be employed by the Treasurer to assist the Office Manager or to perform other specified tasks to further the objects of the Society.

(b) Casual personnel shall be employed within budgetary limits approved by the Governing Board as part of the annual budget of the Society or as directed by the Executive Council.

President Danks moved and L. Gilkeson seconded that Standing Rule VII (Employees) as worded above be approved.

Carried

Action: R. West

VIII. Achievement Awards Committee

The Chair of the Committee reports that the amount of work to be done by this committee does not justify a group of six members. Moreover, because members of the committee cannot serve again for three years after having once served, a large committee reduces the number of experienced and knowledgeable members who are available to serve in a given year.

President Danks moved and L. Gilkeson seconded that Standing Rule VIII – 4 (a) (Achievement Awards Committee) be reworded to read, “The Committee shall consist of three Members of the Society,...” [Replaces "...six Members..."]

Carried

Action: R. West

IX. Meetings

A formal mechanism is required to ensure that the ESC's recommendations and experience with respect to joint annual meetings is communicated to the meeting organizers.

President Danks moved and L. Gilkeson seconded that a new clause be added as follows:

“5. 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.” [ReNUMBER clauses 4-5 as 6-7]

Carried

Action: R. West

XII. Publications

Clause 6 remains from a time when illustrations and tables cost more to print relative to text that they do by modern procedures. It creates additional complexity in billing. This complexity is not worthwhile, because the number of papers that fall under this clause is very small. Consequently the cost of deleting this requirement is small.

President Danks moved and L. Gilkeson seconded that clause 6 (extra cost for illustrations and tables) be deleted [reNUMBER clauses 7-12 as 6-11]

Carried

Action: R. West

Motions to change the following Committee Guidelines were approved as indicated:

Achievement Awards Committee

President Danks moved and L. Gilkeson seconded that the guideline referring to "Composition", be reworded as follows, "COMPOSITION: Three persons who are members..."[Replace:" Six persons who are Members..."]

Carried Action: R. West

The fact that modern communication methods (such as email) can be used effectively for the purpose of approving recommendations make the requirement for a signed written statement too restrictive.

President Danks moved and L. Gilkeson seconded that Item A [Gold Medal and Hewitt Awards], Rules, paragraph c, 4, final sentence] be amended as follows to facilitate the approval process.

"... Written confirmation of the recommendations from all members of the Committee shall be"
[Replaces "... A simple written statement of the recommendations signed by all members of the Committee shall be..."] [Incorporated below in item (4)]

Carried Action: R. West

Achievement Awards Committee

Intentions of the Board were formalized in the Standing Rules. However, wording of some of the Committee Guidelines reflects different procedures, which are not correct. In particular, confirmation of the major awards requires approval by the Governing Board rather than by the Executive Council.

President Danks moved and L. Gilkeson seconded that clauses in Rules, (c), be amended as follows to be consistent with the Standing Rules and clauses in A [Gold Medal and Hewitt Awards].

"Rules, with Procedure for Evaluating Nominations

(4) The Chair of the Awards Committee shall inform the Secretary of the Society of the Committee's recommended nominees prior to the first meeting of the Executive Council subsequent to the selection being made. Written confirmation of the recommendations from all members of the Committee shall be deposited with the Secretary of the Society [see item below concerning this clause]. The Secretary shall seek the confirmation of the Governing Board for the nominees.

[Replaces "The Chair of the Awards Committee, or a delegate of the Chair (who shall be a member of the Board, normally, the President of the Society) shall inform the Executive Council of the Committee's recommended nominees at the first meeting of the Executive Council subsequent to the selection being made. The names of the nominees shall normally be reported verbally to the Executive Council in the course of the Awards Committee report. A simple written statement of the recommendations signed by all members of the Committee shall be presented to the Executive Council and deposited with the Secretary of the Society at that time."]

(5) The Governing Board shall not question...
[Replaces "The Executive Council shall not question..."]

(6) Each recommendation of the Awards Committee shall require the endorsement of a simple majority of the Governing Board. The Chair of the Board shall have a casting vote.
[Replaces "Each recommendation of the Awards Committee shall require the endorsement of a simple majority of the Executive Council at the meeting when the committee's recommendations are presented. The Chair of the Executive Council shall have a casting vote."]

(7) Should the Governing Board reject either or both recommendations of the Awards Committee, the rejection shall be final. [Replaces "Should the Executive Council reject..."]

(8) The names of the recipients of the Awards shall be made public as soon as the Governing Board endorses the selections of the Awards Committee and the...
[Replaces "...as soon as the Executive Council endorses..."]

(9) As soon as possible after the Governing Board's endorsement, the Chair of the Awards Committee shall provide the Secretary of the Society with two texts relating to the recipient of each Award: (a) a press release of 200-300 words which shall be passed to the Science Policy and Education Committee for distribution; and (b) biographical material with a photograph to be used in the Bulletin and in any brochure that may be distributed when the Award is presented."
[Replaces "As soon as possible after the Executive Council's endorsement..."]

Carried

Action: R. West

Achievement Awards Committee

President Danks moved and L. Gilkeson seconded that minor adjustments be made as follows to clauses A [Gold Medal and Hewitt Awards], Duties, 7 (b), and Rules, d, 4 to maintain internal consistency,

"Duties, 7 (b) The reasonable expenses of recipients to register at and travel to the Annual Meeting are covered by the Society. ["reasonable" and "register at and travel to" has been added; cf. Rules, d, 5]

Rules, d, 4 The cost to the Membership of any function, associated with the presentation of the Awards and the Gold Medal Address, shall "not be included..." ["not" has been added; cf. Standing Rule IX, 4 (now IX, 6)]

Carried

Action: R. West

Achievement Awards Committee

The Criddle Award is given each year, but there is no mention of the Award in Achievement Committee Guidelines.

President Danks moved and L. Gilkeson seconded that a section D with information about procedures for the Criddle Award and worded as follows be added,

"D. Norman Criddle Award

DUTIES:

1. Upon appointment, the Chair writes to the Secretary of the Affiliated Society hosting the next Joint Annual Meeting to invite that society to choose a recipient for the Norman Criddle Award, and sends to that society a copy of the Rules for this Award.

2. When advised of the potential recipient by the Affiliated Society, the Chair confirms eligibility only - for example that the recipient is not a professional entomologist - and so notifies the Affiliated Society. [Note that suitability for the Award is the prerogative of the Affiliated Society.]

3. In consultation with the Treasurer and the Affiliated Society, ensures that the necessary arrangements are in place for the Award presentation [by tradition, the ESC memento is a copy of the book about Norman Criddle, "Criddle-de-diddle-ensis"].

RULES:

1. The Society may award, annually, an award known as the Norman Criddle Award to recognize the contribution of an outstanding non-professional entomologist to the furtherance of entomology in Canada.
2. The award may be given for outstanding work in teaching or research, community projects, publicity, popular writing, preparation of slide sets or films or any other activity that enhances the image of entomology.
3. Candidates for the award shall preferably be amateurs or students, residing in Canada. Membership in the Entomological Society of Canada is not required.
4. A candidate to receive the Award shall be selected by the Affiliate Society hosting the Annual Meeting.
5. The Affiliate Society shall notify the Chair of the Achievement Awards Committee of the name of the potential recipient, and the Chair shall confirm only the recipient's eligibility for the Award.
6. After eligibility has been confirmed, the Affiliate Society shall notify the recipient.
7. The recipient shall be invited to the Annual Meeting as a guest of the Society and given a suitable memento (monetary value not to exceed \$100), selected by the President. The reasonable expenses of recipients to register at and travel to the Annual Meeting are covered by the Society.

Carried

Action: R. West

The following items were identified from previous minutes and discussed under New Business:

- 8.3 Auditing and production of more hard copies of the DPVCC book (EC 9.2.2, move to 9.2.2)
- 8.4 Division of profits from Annual Meetings (GB I – 9.3.3, EC - 9.2.3.1, move to 9.2.3.1)
- 8.5 Rules governing Scientific Notes, waiver of fees for 'excessive' figures, electronic publishing of
Can. Ent. (EC – 9.2.4, move to 9.2.4)
- 8.6 Cancopy (GB I – 9.3.1, move to 9.2.6)
- 8.7 Guidelines for donating funds to authors, editors or publishers of books on entomology in
Canada (GBI – 9.3.2, move to 9.2.6)
- 8.8 Cornell University request to add 5 years of Can. Ent. to their Essential Electronic Library (GB I
– 9.3.5, move to 9.2.6)
- 8.9 ESC-SEQ-ESAmerica 2000 (GB I - 9.2.14.4, EC – 8.1, move to 9.2.3)
- 8.10 Kevan Award review (GB I- 9.2.19, move to 9.2.15)
- 8.11 Common names list on web site (GB I – 9.2.16, move to 9.2.16)
- 8.12 Marketing of memoirs (GB I – 9.2.3, move to 9.2.18)
- 8.13 Soliciting corporate funding to create new scholarships (GB I – 9.2.22, move to 9.2.18)
- 8.14 DPVCC book reviews, Memoirs brochures, and reciprocal arrangement with ESAmerica for dis
play of materials at conferences (GB I – 9.2.23, move to 9.2.18)

9. New Business

9.1 Correspondence

President Danks introduced several items of correspondence including that with the Canadian Botanical Association regarding a possible joint annual meeting, a letter of support for an application to the National Centres of Excellence Program for a Biocontrol Network, a message from NSERC indicating that information on systematics scholarships was available on the NSERC web page, and correspondence from the Canadian Society of Zoology indicating interest in occasional joint meetings with the ESC.

M. Gottell moved and J. Spence seconded that dialogue on a CSZ-ESC joint meeting be encouraged.

Carried Action: L. Gilkeson

Correspondence to the Secretary was routine and pertained mainly to information regarding Student Awards. Members of the Entomological Community who died during the past year included Curt Sabrosky, John Hudak, Phil Burke, Rob Richards, Charlie Smith, Harry Andison, Bryan Beirne, Muriel Peterson, Mills Clarke, Zandra Handford, Lucie Daviault, Rene Martineau, Bill Broadfoot, Dorie Maxwell, Herb Teskey, Lloyd Miller, W.A. Shands, and Dave Gaskin.

9.2 Reports from Officers, Trustees, Committees and Representatives

L. Gilkeson moved and R. Lamb seconded that all reports be received.

Carried.

9.2.1 Executive Council

President Danks reported briefly on the activities of the President and Executive during the past year and will present a formal report at the AGM. First, there was standard work, such as staffing of Committees, and correspondence already dealt with under agenda item 9.1. Second, there were some items of followup, concerning the Kevan Scholarship Guidelines (deferred to agenda item 9.2.15), as well as other major items dealt with separately. Third, there were activities related to the change of ESC Secretary and of Treasurer, and such things as the establishment of an Annual Meeting Guidelines committee. Fourth, and taking most of the time, were a number of major topics, namely: NRC Research Press contract evaluation and planning (see agenda item 8.1), Remaining revisions to Standing Rules and Committee Guidelines (see agenda item 8.2), Managing Editor severance; and Office Manager salary review. President Danks felt that the ESC is now better placed for the future: many problems have been resolved; the Society's operations are reorganized and rationalized; necessary infrastructures are in place; and the budget situation is satisfactory.

9.2.1.1 ESC Secretary, Treasurer and Scientific Editor

J. Turgeon replaced P. Kevan on January 1, 1998, R. West replaced P. Dixon as ESC Secretary on February 16th, and R. Footit was appointed as acting Treasurer during the absence of G. Gibson (Sept 98- Sept 99).

9.2.1.2. Annual Meeting Guidelines Committee

An ad hoc committee, comprised of T. Shore (Chair), L. Gilkeson and J. Sweeney was charged with updating the guidelines for annual meetings. T. Shore circulated a draft of the revised guidelines and invited feedback from the Board. L. Gilkeson suggested that T. Shore receive feedback from the SEQ organizers. T. Shore suggested that the final document be posted on the web page.

Action: Board Members, T. Shore

9.2.1.3. Managing Editor Severance

The matter of severance with the former Managing Editor was completed.

9.2.1.4. Office Manager Salary Review

The Executive Council and Treasurer reviewed the salary of the ESC Clerk, Ms. Sandy Devine. ESC Staff salaries are no longer linked with federal government scales; however, the pay equity increases applicable to the federal system may entitle the clerk to retroactive remuneration. A 3-year salary offer was accepted by S. Devine and is considered fair by both parties.

9.2.2 Treasurer

B. Footitt presented the Treasurer's Report. The Governing Board meeting in 1997 was only about half of the budgeted amount (\$8,500), and reflected Board members' acceptance of reimbursement for travel costs only.

The last complete year the The Canadian Entomologist was printed by Lowe-Martin was 1996. There are substantial financial benefits from using NRC to edit and print The Canadian Entomologist.

The 1998 budgeted surplus of \$15,970 after interest on income will probably not be attained because of a substantial decrease (about 80) in non-Canadian subscriptions to The Canadian Entomologist for 1998. This represents a decrease of \$19,200 income for the Society (80 @ \$240). The economic problems in Asia are partly responsible for the reduced subscriptions, but cancellation of the Memoirs of the Entomomological Society of Canada also resulted in some cancellations. The loss of subscriptions seriously impacts the net operating cost of the Society and attempts should be made both to reacquire the lost subscriptions and to obtain new subscriptions. (See item 9.2.18 – Marketing Committee).

'The book project' was audited for the years 1992-1996 in 1997. This audit was necessary to legally establish costs and benefits accrued to each Society to date. The cost of the audit was \$4,173/Society or \$1,043.25/year/Society. DPVCC was initially set up as a project independent of the Society and expenses involved in annual audits were not included in calculations of sale price of the book. Consequently, the longer the project remains 'active' the more expensive auditing becomes on a per book basis and auditing expenses likely will consume any projected profits. The Treasurer approached the Canadian Phytopathological Society with two proposals:

1. An 'audit' of the book project not be made annually and the less costly method of an annual 'review' be initiated. Result: proposal accepted by CPS. Action: ESC Treasurer.
2. Approximately 200 softbound, English versions of DPVCC be rebound in hardcover and marketed at a price to recover binding costs plus additional profit. Result: Proposal rejected by CPS. Action: none.

There were 15 gift subscriptions for 1998, to individuals/institutions in the following countries: Argentina, Azores, Chile, China, Colombia (2), Guinee, India, Indonesia, Morocco, Nigeria, Portugal, Slovak Republik, Spain, and Thailand.

Eric Maw is evaluating various financial software programs that could satisfactorily serve at the ESC office.

Action: Finance Committee

9.2.2.1 Auditors Report.

The Auditors requested that a market appraisal of the Society's building be done for 1999. They also requested that the balance sheet present a summary total of all four Societal Funds for the current and previous audit year rather than a direct comparison for each fund during both years.

B. Lyons moved and L. Gilkeson seconded that the Headquarters Committee arrange for a market appraisal of the Society's building.

Carried

Action: B. Gill

The 1997 audit disclosed that Societal operating expenditures exceeded revenue by \$17,673. Most of the operating loss results from initial costs of transferring publication of The Canadian Entomologist to the National Research Council.

9.2.2.2 ESC Headquarters Committee

Report received. The front steps of the HQ house were repaired in early July at modest cost. Water leakage around the 2nd floor door was not in evidence this summer due to the exceptionally dry weather in Ottawa. However, the situation will be monitored with the coming wet season. No additional problems were reported by A. Devine. However, a new furnace will be required eventually. B. Footitt recommended that the furnace be examined and replaced if necessary.

Action: B. Gill

9.2.3 Finance Committee

Report Received. The budget was considered to be in good order and a surplus is expected in the coming year. The Finance Committee recommends investing \$12,000 of the surplus into the Investment Fund. Memberships and subscriptions continued to decline in 1998 (see Treasurer's Report), resulting in reduced income of about \$19,000. If there is a significant decline in 1999 then the projected surplus will not be realized; sustained decline in future years could jeopardize the financial stability of the Society.

Dan Johnson moved and L. Gilkeson seconded that lapses in memberships and subscriptions be investigated by the Memberships Committee, and increased memberships and subscriptions sought. T. Danyk suggested that incentives to win back lapsed subscribers be considered.

Carried

Action: Memberships Committee

The Committee recommended that the possibility of increased page charges be discussed by the Board. B. Lyons suggested that commercial advertizing in the journal and bulletin be reviewed.

The Board considered that current charges are comparatively low and a modest rise is justified given the Society's current financial situation. J. Spence moved and R. Lamb seconded that the page charges be increased by \$5.00 per page for 1999 and that the Finance Committee review page charges in comparison to other journals and recommend future charges for publishing in the Canadian Entomologist.

Carried

Action: Finance Committee, R. West

J. Delisle presented an initial financial report on the SEQ/ESC meeting and was congratulated for an outstanding job.

The Finance Committee recommended that negotiations with the Entomological Society of America be pursued to ensure that the financial interests of the ESC are not overlooked during preparations for the Joint ESA/ ESC/ SEQ meeting in 2000.

J. McNeil presented a report on the joint meeting with the ESAmerica. He recommended that the ESC and SEQ get equal billing on all correspondence and publicity pertaining to the meeting, have equal say in the planning of the scientific content of the meeting, ensure that the SEQ/ESC receive an appropriate share of complementary hotel rooms and other benefits, and ensure that our students get a fair share of the free registration packages in exchange for working at the meeting. J. McNeil also provided several options regarding financing of the meeting.

J. Spence moved and V. Nealis seconded that a committee chosen by the President meet with the ESA in Las Vegas to obtain additional information on the joint meeting, preparatory to subsequent negotiations in December or January and to ensure that there is a good scientific meeting with fair compensation to the local organizer (SEQ) and the ESC.

Carried

Action: L. Gilkeson, D. Johnson

L. Gilkeson moved and V. Nealis seconded that the financial interests of the ESC be protected during planning for the joint ESA/ESC/SEQ meeting in 2000.

Carried

Action: Ad hoc 2000 Meeting Committee

Dan Johnson will relate the findings of ESAmerica's upcoming report on the benefits of joint meetings.

9.2.3.1. Annual Meeting Finances

The Presidents of the Affiliated Societies were sent an e-mail message in July concerning sharing of profits (or losses) realized at joint annual meetings. Several societies deferred their responses until after their regional meeting; the others have not responded to the original message. The ESA wants more information on the history of sharing costs/profits/losses at Annual Meetings and pointed out that the ESC functions have to be clearly specified and should not be open-ended. J. Spence pointed out that the regional societies run their own projects funded from meeting profits. The ESS had no idea how often losses had occurred (these could devastate a regional society). The SEQ wants clarification on the maximum costs of ESC functions. R. Lamb was concerned that the ESC does not shortchange itself when profits are realised. L. Gilkeson pointed out that any regional society can always petition the ESC for additional funds. The Finance Committee will continue to consult with the regional societies, including further information on previous arrangements and on ESC functions, in order to recommend a fair system of sharing profits from annual meetings.

Action: Finance Committee

9.2.4 Scientific Editor

Report received. Two new Associate Editors were appointed: Dr. D. Johnson for crop entomology, and Dr. R. De Clerck-Floate for biocontrol. Dr. Kevan has agreed to remain as an Associate Editor). Changes in the way manuscripts are handled, made to obtain more expeditious reviews (submission of electronic copy), and the status of submissions, were summarized.

J. Turgeon recommended that the Publications Committee review current rules on publishing a "Scientific Note" (a restriction to only two pages is considered inadequate), consider adding new subdivisions to the table of contents of The Canadian Entomologist, and obtain the copyright of each manuscript, not just of the issue.

J. Spence moved and D. Johnson seconded that the Publications Committee review copywriting of ESC publications.

Carried Action: Publications Committee

Information on the size of issues and on potential electronic submissions was presented. The feasibility of publishing an electronic copy of the Canadian Entomologist to increase our readership is being discussed with NRC.

Several Board members expressed satisfaction with the recent streamlining and other improvements in handling manuscripts.

The President will write a letter of thanks to the Director, CFS-Sault Ste. Marie for the assistance given to the office of the Editor.

Action: L. Gilkeson

9.2.5 Editor - Bulletin

Bulletin operations are proceeding smoothly. H. Danks indicated that additional items for publication in the Bulletin would be appreciated.

M. Goettel moved and L. Hollett seconded that the President create an ad hoc committee to review bulletin and web content and liaison between them and make recommendations on how additional material should be solicited.

Carried

Action: L. Gilkeson, Ad Hoc Bulletin-Web Committee

9.2.6 Publications Committee

Report received. The Committee recommended the print run and prices for Memoir 171 (Microbial Control of Grasshoppers and Locusts).

Waivers must now be requested within a week of submitting a manuscript. However, before this policy became effective, there were 3 requests for page charge waivers. The C.P. Alexander Fund was used to pay the charges for one of these papers. V. Nealis and S. Fitzpatrick suggested that information on page charge waivers and other instructions to authors be put on the web site.

Action: Publications Committee, B. Lyons

The Chair has received and signed requests from numerous academic sources to reproduce information and graphics published in the Canadian Entomologist.

The Committee recommended that the Canadian Entomologist not be included in Cornell University's Mann Library's electronic agricultural library at this time because this may negatively affect subscriptions.

S. Fitzpatrick moved and J. Spence seconded that the Society not enter into a contract with Cornell University's Mann Library to include the Canadian Entomologist in the proposed electronic agricultural library (TEEAL).

Carried

Action: Publications Committee

S. Fitzpatrick moved and J. Spence moved that that the Webmaster be appointed as an ex-officio member of the Publications Committee.

Carried

J. Spence moved and R. Lamb seconded that the standing rule (4 j) and committee guidelines (Publications Committee) be amended accordingly.

Carried

Action: R. West

S. Fitzpatrick moved and L. Dosdall seconded that the Gold Medal Address be published in the Bulletin, not in the Canadian Entomologist.

Defeated

M. Goettel moved and J. Spence seconded that the committee guidelines be amended to have the Achievement Awards Committee invite the recipient of the Gold Medal to publish the Gold Medal address in the Bulletin.

Carried

Action: Bylaws, Rules and Regulations Committee

There was a request from the "Institut québécois du développement de l'horticulture ornementale" to reproduce 7 photographs from the "Diseases and Pests of Vegetable Crops of Canada" for a textbook in french. The Committee would give permission but pointed out that permission might also be necessary from the Canadian Phytopathological Society or the authors.

J. Spence moved and R. Lamb seconded that the issue of donating funds to authors, editors or publishers of books on entomology in Canada be reviewed by the Science Policy Committee in consultation with the Finance and Publications Committees and the Treasurer.

Carried Action: Science Policy Committee

J. Spence moved and S. Marshall seconded that the issue of Membership in CANCOPY be deferred until the issue of copyright is clarified.

Carried No Action Required

9.2.7 Nominations Committee

The following were nominated and agreed to stand for election in 1998:

Second Vice-President: Dr. Bob Foottit, Dr. Peter Kevan

Director-at-Large: Dr. Robb Bennett, Dr. Allan Carroll,
Dr. Johanne Delisle, Dr. Yvan Pelletier

9.2.8 Elections Committee

A total of 196 ballots were counted. Dr. Bob Foottit was elected as Second Vice-President and Dr. Robb Bennett was elected as Director-at-Large.

R. Lamb moved and L. Gilkeson seconded that the 1998 ballots be destroyed.

Carried: Action: J. Corrigan

9.2.9 Achievement Awards Committee

Report received. The Board extended congratulations to Dr. David Rosenberg, winner of the Gold Medal Award for 1998. The Committee did not make a selection for a C. Gordon Hewitt Award Winner for 1998 because no nominations were forthcoming.

An electronic copy of a list of honorary members is being created and L. Gilkeson suggested posting it on the web page.

9.2.10 Bilingualism Committee

Report received. Several translations were done by members of the committee and at no cost to the Society. The committee will revise the translation of the Standing Rules and making the appropriate changes to the french version of the By-Laws after the ESC meeting. However, additional work will have to be done by persons replacing current bilingualism committee members who are resigning this year, having contributed for more than 3 years. The Committee recommends that an announcement for vacancies be made in the Bulletin and/or Antennae, the bulletin published by the Entomological Society of Quebec.

Action: New Bilingualism Chair, Hugh Barclay

9.2.11 Bylaws, Rules and Regulations Committee: Report received. See item 8.2.

9.2.12 Heritage Committee: No report. Doug Eidt has indicated interest in taking over as Chair.

9.2.13 Insect Common Names and Cultures Committee: Report received. No action required.

9.2.14 Membership Committee

Report received. As of Sept 30, 1998 the paid membership totaled 533 (396 regular, 66 student, 71 emeritus). J. Spence moved and R. Lamb seconded that the Committee promote student membership by asking professors and teachers to act on behalf of the Society in distributing information about the ESC and encouraging membership by students.

Carried Action: Memberships Committee

J. Spence moved and R. Lamb seconded that the Membership Committee complete the Canadian membership drive.

Carried Action: Memberships Committee

As of 30 September 1998, there are 164 foreign members in the ESC (31% of total membership), with 116 in the USA, 26 in Europe, 12 in Asia (mainly Japan), 6 in Latin America, and 4 in Australia/NZ.

J. Spence moved and R. Lamb seconded that the Committee proceed with: 1) drafting the text for a brochure (for dissemination in electronic and hard copy formats) targeted at foreign colleagues; 2) developing ideas for lay-out of the brochure, including choice of backgrounds, colors, photos, etc. for a 4-panel (excludes application form) and 6-panel (includes form); 3) explore costs of printing brochures in various quantities.

Carried Action: Memberships Committee

J. Spence moved and R. Lamb seconded that the Committee compile a list of entomological societies to be contacted with a request to display ESC materials, and assist the President in drafting an appropriate letter to these societies.

Carried Action: Memberships Committee

J. Spence moved and R. Lamb seconded that the Committee liaise with SEQ and ESAmerica as soon as possible to request that an opportunity to promote membership in the ESC is made available at the joint meeting.

Carried Action: Memberships Committee

J. Spence moved and R. Lamb seconded that the Committee take the following course of action to help reach a decision whether to proceed with a Sustaining Membership drive: a) explore the success of other Canadian biological societies (and perhaps the ESAmerica) in securing sustaining memberships, and the cost of such memberships, to search for successful models to emulate; b) seek advice from ESC members who are or were affiliated with potential sustaining members.

Carried Action: Memberships Committee

M. Goettel suggested that the benefits to members be published in The Canadian Entomologist.

9.2.15 Student Awards Committee

Report received. Travel Awards of \$2,000 each were given to Cameron Currie, University of Toronto, for travel to the University of Aarhus, Denmark, to do a joint research project on leaf-cutting ants with Dr. J.J. Boomsma, and to Laura Fagan, University of Victoria, for travel to Ohio State University to take an intensive course in Acarology.

Post-graduate Awards of \$2,000 each were given to Sarah Bates, Simon Fraser University, who is studying the impact of the western conifer seed bug on seed production, and to Frederic Beaulieu, McGill University, who is studying phytophagous flies of sedges.

E.S.C. Bulletin S.E.C.

The Keith Kevan Scholarship was not offered in 1998.

Information on the awards along with application forms will be updated for downloading from the web site.

Action: S. Lindgren, B. Lyons

Clarification of the guidelines for the Kevan Award was made by President Danks in 1998.

9.2.16 Science Policy Committee

Report received. J. Spence moved and T. Shore seconded that the request from the SEQ for additional funds to support supplements of the Journal Fabriques be deferred until further information is obtained.

Carried Action: L. Gilkeson

The Board charged the Science Policy Committee to develop guidelines on the issuing of press releases.

Action: J. Spence

9.2.17 Student Affairs

Report received. J. Spence moved and M. Goettel seconded that the Directory of Entomological Education in Canada (le Répertoire des formations en Entomologie au Canada) that presently resides on the ESC home page be updated. The cost is expected to be about \$150.00

Carried Action: D. Gingras

R. Lamb moved and S. Marshall seconded that the Marketing Committee in consultation with the Membership Committee solicit the corporate sector for funds to establish new scholarships that would be available to Student Members of the ESC. The rationale for this is that the amount of scholarship funds awarded by universities and governments has declined, resulting in greater financial uncertainty and increased debt load among students. Scholarships sponsored by business(es), and awarded by the ESC, would be welcomed.

Carried Action: Marketing Committee

9.2.18 Marketing Committee

Report received. Five ESC publications with order forms were on display at the ESA meeting in December 1997.

A marketing brochure including order form was designed for the new ESC publication, Microbial Control of Grasshoppers and Locusts, and an advertisement for the book was designed and submitted for publication in OBC Nearctic Regional Section Newsletter, IOBC Global Newsletter, Pest Management News, Biocontrol News and Information, and the Bulletin of the Entomological Society of Canada.

Many brochures for Diseases and Pests of Vegetable Crops in Canada were mailed to individuals and small businesses in Alberta and British Columbia. An advertisement for the book was designed and submitted for publication in the Bulletin of the Entomological Society of Canada, and was submitted for publication in The IPM Practitioner, at a cost of approximately \$120. The Marketing Representative of the Canadian Phytopathological Society agreed that advertising costs in The IPM Practitioner should apply equally to both Societies.

The ESC and ESA (America) have agreed to exchange membership lists. ESA membership mailing labels have been received and the Marketing Committee is currently preparing a mailing of brochures

for our publications to ESA members.

President Danks suggested that an analysis of the return on advertizing efforts be considered by the Marketing Committee.

9.2.19 ESC Web Site

Report received. Numerous improvements and additions were made to the web site in 1998 including a downloadable version of the insect common names list. An article for the Newsletter detailing the web-site will be completed in the new year. The main page will be revised to make it more appealing. B. Lyons recommended that the site be revised to include material of interest to students and amateurs.

Action: B. Lyons

D. Johnson suggested that passwords be given to members to access mailing lists, bylaws, committee guidelines, etc. The ad hoc committee reviewing content of the Bulletin and Web site will investigate this.

Action: Ad Hoc Bulletin-Web Committee

9.2.20 Affiliated Entomological Societies

Entomological Society of British Columbia: There were 92 applicants for educational funding and only 14 could be selected which highlights the need for, and interest in, this type of activity. The ESBC distributed its first student scholarships this year to help with travel costs to attend and present a paper at an entomological conference.

Entomological Society of Alberta: A web site linked from the ESC page is established and is maintained by T. Danyk.

Entomological Society of Saskatchewan: The ESS conducted a field trip instead of a scientific meeting in 1998. A set of videos on pest management of canola was completed. The 1999 Joint-Annual meeting will be held at the Radisson Hotel in Saskatoon, 26-29 September. The program includes symposia on the lygus bug and internet resources for entomology.

Entomological Society of Manitoba: The main activities of the ESM have been a New Members Social in the spring, a collecting weekend in southeastern Manitoba in summer, and a September supper at Fort Whyte Nature Reserve which included a slide presentation by R. Roughley on biodiversity studies in Costa Rica. The Annual Meeting of the ESM was held on October 16-17. Pat McKay is the President Elect and Marge Smith is the President.

Entomological Society of Ontario: A significant addition to the Board for 1998 was the appointment of a Student Representative with full voting privileges. For 1999, this appointment became an elected position. In 1998, the membership fee for students was waived in an attempt to stimulate student interest in the Society. The theme of this year's Meeting was "Insects in Human Disturbed Ecosystems". The ESO pursued the possibility of funding an award that had an entomological slant at the Canada Wide Science Fair. The cost to the sponsor for this award is 500.00 for a contribution and 500.00 to register. The guidelines for sponsorship to the Canada Wide Science Fair will be given to the Science Policy Committee for review. The Science Policy Committee will report to the Board its recommendations on funding a Canada Wide Science Fair prize.

Action: B. Lyons, Science Policy Committee

Entomological Society of Quebec: The SEQ wants to establish the Insectarium de Montreal as its headquarters. The SEQ has recently undertaken a strategic review of its activities and was very active in promoting a competition for a Quebec Emblematic Insect which will be announced at this year's ESC/SEQ meeting.

Acadian Entomological Society. The AES held its annual meeting in Deer Lake and toured the Newfoundland Insectarium under construction (now open). Membership rose from 37 to 53 following a membership drive. A web site was established (<http://AES.fsn.net>).

9.3 Other Business

S. Fitzpatrick expressed support for covering the expenses of the Executive Council members and the Secretary to attend meetings in cases where the individuals involved were not supported by a company or institution. President Danks indicated that, according to existing Standing Rules, the individuals so affected can apply in writing to the President for additional support prior to the meeting.

At the next meeting of the Board, the President will report on a possible location of the 2001 meeting following discussion with the Entomological Society of Ontario.

Action: L. Gilkeson

T. Danyk suggested listing the authors and titles of past articles in the Canadian Entomologist on CD rom. Perhaps summaries of recent articles could be published in the bulletin or web.

Action: T. Danyk

Adjournment of meeting: The meeting was adjourned at 1600 h following a motion by S. Fitzpatrick and seconded by T. Shore. The next meeting of the Governing Board will be held at the Chateau Frontenac on Wednesday, November 4th at 12:30 pm.

President's Report

This is a brief update on Society business after the spring Executive Council meeting (full minutes are included elsewhere in this issue). A large and exciting project on the horizon is the joint meeting with the ESA and SEQ, to be held in December 2000 in Montreal. On April 18, representatives from the ESC executive met with ESA meeting organizers and the Local Arrangements Committee (a group of keen volunteers, chaired most capably by Charles Vincent) to discuss financial and program arrangements. The enticing program and associated events, some in collaboration with the Montreal Insectarium, will make this a major entomological event not to be missed. For those interested in organizing symposia for this meeting, please see the announcement elsewhere in this Bulletin.

In more mundane matters, I am happy to report that the Society's finances are in good shape—our budget shows a comfortable balance in the black for the first time in years. The headquarters office is running smoothly and having NRC handle publication of Canadian Entomologist has reduced costs as anticipated.

Our Bulletin editor, Hugh Barclay has expressed a wish to step down at the end of next year and there are also upcoming vacancies in several ESC committees, therefore I am taking this opportunity to invite anyone interested in these positions to contact me.

Best wishes for the summer—and I hope to see you all in Saskatoon in September!

Rapport de la présidente

Ceci est une brève mise à jour des affaires de la Société suite à la réunion du conseil exécutif du printemps (les minutes de cette réunion sont publiées plus loin dans ce Bulletin). Un grand projet excitant se dessine à l'horizon. Il s'agit du congrès conjoint de la Société d'entomologie d'Amérique (ESA) et de la Société d'entomologie du Québec qui se tiendra au mois de décembre 2000 à Montréal. Le 18 avril, des représentants de l'exécutif de la Société d'entomologie du Canada ont rencontré les organisateurs du Congrès de la ESA et le comité local chargé de l'organisation de l'événement (un groupe de volontaires enthousiastes, présidé d'une main de maître par Charles Vincent), afin de discuter des arrangements financiers et de la programmation. Un programme séduisant et les événements associés, quelques-uns en collaboration avec l'Insectarium de Montréal, feront de ce congrès un événement majeur en entomologie, qu'il ne faudra pas manquer. Si vous êtes intéressé à organiser un symposium pour ce congrès, consulter

l'avis à ce sujet dans le présent Bulletin.

Abordons maintenant un sujet plus terre-à-terre. Je suis heureuse de vous annoncer que les finances de la Société se portent bien. Pour la première fois depuis des années, notre budget montre un confortable solde positif. Le bureau directeur mène rondement les affaires de la Société et fait en sorte que le CNR publie le "Canadian Entomologist" en respectant l'objectif fixé d'en réduire les coûts.

Notre éditeur du Bulletin, Hugh Barclay, a exprimé son intention de se retirer à la fin de la prochaine année. Il y a aussi plusieurs postes vacants au sein de plusieurs comités de la Société. Par conséquent, je profite de l'occasion pour inviter tous les membres intéressés à s'impliquer au sein d'un de ces comités à me contacter.

Mes meilleurs vœux pour l'été qui vient et j'espère bien tous vous rencontrer à Saskatoon en Septembre!

Linda A. Gilkeson
Victoria

PERSONALIA

Heritage Article

Who Was J.D. Tothill?

This article was prepared for Out on a Limb, the in-house newsletter of the Atlantic Forestry Centre which, along with other CFS establishments, is celebrating 100th Anniversary of the Canadian Forestry Service in 1999. It has been changed slightly for the Bulletin ESC.

The pioneer among pioneers in federal forestry in the Atlantic region. That's who. John Douglas Tothill was born in England in 1888 and came to Canada to study at the Ontario Agricultural College. He specialized in entomology and botany. After graduation in 1910 he was employed in the US Bureau of Entomology Gypsy Moth Parasite Laboratory. In 1911 he was selected by C. Gordon Hewitt, the Dominion Entomologist, to direct the introduction of parasites against the brown-tail and Gypsy moths (invaders from Europe in Nova Scotia and New Brunswick), with headquarters in Fredericton.

In the spring of 1912, he set up the first entomological lab in NB, on the UNB campus; a two-room, 6X10 ft structure. This served as the centre for Natural Control Investigations, of which he was Head. (A small building at Bridgetown, NS, erected in 1911, with George E. Sanders in charge, was the only earlier federal entomology laboratory in Atlantic Canada.) A larger, permanent brick laboratory was constructed under Tothill's direction in 1915-16. The specifications and some costs of this building are preserved.

During 1913-15 he took graduate work at Cornell where he studied under the great entomologists, JH Comstock and JG Needham. He transferred to Harvard to study under WM Wheeler, the world authority on ants, where he received the DSc degree. During 1912 to 1922 he organized and directed intensive research on the fall webworm, tent caterpillars, spruce budworm, and several other insect pests. His work on the spruce budworm, of which only reviews were published, and knowledge gained from extensive surveys of damage led to both official and public interest in planned management of the forests, with biological control of insect pests as an integral part.

He transferred to the Forest Insect Division in Ottawa in 1923. In 1924 he was loaned to Fiji to direct a successful campaign against the Levuana moth, which threatened the copra industry. He didn't come back. His book *The Cocoa-nut Moth in Fiji* is a classic of biological control. He became the

"Honorable" Director of Agriculture until 1929, after which he held similar posts in Uganda from 1929 to 1938 and the Sudan from 1939 to 1944. In 1951, after retirement, he spent two years with FAO organizing agricultural development in Saudi Arabia. It seems he was last heard from when he wrote in 1966 from retirement in Scotland to Austin Squires, Science Curator at the New Brunswick Museum. He wrote "Those N.B. days were such happy ones. The Ent. lab. started as a wee wooden hut under the trees close to the old [UNB] Science bldg. It then became a brick affair sited above the old Science Bldg.; and to make way for another UNB expansion was put on rollers & moved higher up the hill. When I was suddenly called away to Fiji it had become a forest insect lab." The letter was passed to Dr. R.E. Balch for reply.

Tothill was the founder of biological control of insect pests in Canada, a field in which Canada was to become a world leader. Tothill was on the King's Honours List of 1938. Due credit is owed to this man for his role in initiating our science-based approach to forestry, which is often taken for granted.

References: Baird, AB. Entomology Division Newsletter 33(9):2, 1955
Lord, FT. Proc. NS Inst. Science 33:19-46

Doug Eidt
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Who was A.B. Baird?

The following article was written for the Atlantic Forestry Centre in-house newsletter Out on a Limb in celebration of the Canadian Forestry Service centennial, "A century if innovative solutions".

Alfred Briggs Baird was one of the first employees under John Tothill at Fredericton, and one who was to make a significant mark on entomology (and forestry) in Canada. He was born in 1891 in Lake Stream, NB. He graduated from Nova Scotia Agricultural College in 1910 and the Ontario Agricultural College in 1916 where he majored in entomology. He went to Cornell University on a Carnegie scholarship and received his MS in 1921.

In 1911 Baird worked as a seasonal assistant to George Sanders, head of the Dominion Entomology Lab. at Bridgetown, NS, on the brown-tail moth survey and eradication program in the Maritimes. Summers of 1912 to 1915 he worked under John Tothill at the Fredericton laboratory. After graduation with his BSA he was appointed a field officer working with Tothill on parasite introductions and natural control of native insects. He was sent by Tothill to Agassiz BC in 1918 where he conducted similar work, then back to Fredericton in 1921 to study the parasites of the larch sawfly and the larch casebearer, preparatory to the introduction of parasites to the Maritimes from England. In 1923 he was transferred to Ottawa, then St. Thomas, Ont., then to Belleville Ont.

AB, as he was sometimes known, built a laboratory and headquarters at Belleville for biological control that was a good as any in the world for its facilities and accomplishments. The Dominion Parasite Laboratory no longer exists, the work is dispersed, but more than 100 million parasites had been propagated there for release in biological control programs. In addition, basic research was conducted in the use of bacteria, viruses, and nematodes as well as parasites and predators for biological control.

One apocryphal (perhaps not officially recorded) story has it that Baird and associates, after receiving yet another shipment of parasitized European sawflies from Europe, found the larvae diseased and threw the package in the furnace to destroy the causal agent so it wouldn't ruin their rearings. In spite of this precaution, it was the introduction of a virus, some would say accidentally, that ended the

threat of the sawfly, a much greater threat to northeastern conifer forests than the spruce budworm ever was.

AB Baird retired in 1956, having never lost sight of the applied interests of his profession, and in that respect, greatly extended the work of John Tothill. He is gone now, but I will not forget that quiet, dignified, somewhat portly gentleman in those smoke-filled entomological society meeting rooms. He was even then one of the most hard-working and respected men of his profession. A man from Lake Stream, NB, where it seems they could not decide whether the water was still or flowing.

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High profile Research and Travel grant winner

Cameron Currie, who was one of the winners of the Research & Travel grant 1998, has been profiled extensively in the media recently. I saw an interview with him on @discovery.ca last night, one of my students had heard an interview on CBC, and there is an article in the newspaper: "Ants may help researchers understand antibiotics".

B. Staffan Lindgren,
Associate Professor, UNBC

PUBLICATIONS

Book Reviews

Lafontaine, J. D. 1998. Noctuoidea, Noctuidae (part) in Dominick, R.B., et al. *The Moths of America North of Mexico*, fasc. 27.3, 36+8 pl., 348 pp. ISBN 0-933003-09-9 (soft cover). Available from The Wedge Entomological Research Foundation, 85253 Ridgetop Drive, Eugene, Oregon, USA 97405 (\$115.00 U.S.).

This is the second of three projected fascicles dealing with the large and difficult subfamily Noctuidae. The North American species of the tribe Noctuini are revised to include 169 species in 31 genera. Four new genera are proposed and 21 new species are described. Photographs of male and female genitalia are illustrated in 36 monochrome plates, and life-sized photographs of adults are given in seven coloured plates. One additional coloured plate illustrates representative larvae. Keys to larvae, genera, and species, as well as distribution maps are provided.

The text is easy to read and informative. Typically, characters are given to diagnose and separate each of the species from similar species, range and habitat information is provided, and a description of the larva and foodplant information is given where known. The keys in combination with the diagnoses and illustrations will provide for easy species identification by amateur or professional alike.

My first impression of the colour plates was that they are too dark; however, by comparing the specimens with their photographs in the plates, I found that the colour almost exactly matches the actual specimens figured. It is the darker-than-usual background colour that gives the eye the false impression that the plates are too dark.

Throughout the book, Dr. Lafontaine justifies all nomenclature adjustments with sound evidence. There have been too many books published on North American Lepidoptera that make unjustified changes to the taxonomy. Other authors would do well to follow Dr. Lafontaine's example.

My only real complaint with the book is that the dots on the distribution maps came out too small when the maps were reduced for printing and my feeble eyes have to strain to see the difference between circles and triangles. However, overall I found the book to be of excellent quality. It is the definitive work on the North American Noctuidi, and as such will be a welcome and essential addition to the libraries of both amateur moth enthusiasts and professional Lepidopterists.

Jim Troubridge,
Agassiz, BC

Hansen, M. 1997. *Phylogeny and classification of the staphyliniform beetle families (Coleoptera)*. Biologiske Skrifter 48: 1-339, 68 pls. (492 figs).

The large series of Staphyliniformia or staphyliniform beetles includes some 60,000 described species in several families and subfamilies. The relationships of many higher taxa (family/subfamily) in this large lineage are still not well understood. Lawrence and Newton (1995) proposed a higher classification for the group and recently Hansen (1997) analyzed cladistically the relationships of the families/subfamilies in order to reveal their phylogeny and evolution, and to justify the basis for their classification.

The book consists of several chapters: introduction, material and methods, phylogenetic analysis, conclusions, systematic part, literature, illustrations, and appendix, which includes lists of apomorphies, node changes, and statistics of characters in the preferred cladogram. In the introduction, the author discusses basal phylogeny and the systematics of Staphyliniformia. The material and methods chapter includes definitions and selection of taxa (37 terminal taxa), definition and selection of characters (119 characters), data matrix of character states and analytical procedure. The chapter on phylogenetic analysis treats results and evaluation of the preferred cladogram. The conclusions reinforce results from the previous chapters and constitute a summary of this work. The systematic part includes keys and diagnoses of the families and subfamilies of Staphyliniformia (Hydrophiloidea, Histeroidea, Staphylinoidea), with the Scarabaeoidea not being treated in detail but included in the keys to superfamilies, and keys to subfamilies are provided for selected families.

The literature part is not extensive but provides the most important citations. Illustrations are either original or reproduced and are presented in a balanced form. This is a very useful part of the document, which shows major morphological features and selected habitus drawings that represent good species diversity. The major points of Hansen's phylogenetic analysis and their implications for higher classification of taxa of the Hydrophiloid lineage are briefly summarized below. The monophyly of Staphyliniformia should be considered with inclusion of Scarabaeoidea, Hydrophiloidea, Histeroidea, and Staphylinoidea lineages. Scarabaeoidea is treated as the sister group of Hydrophiloidea and Histeroidea, and the three groups combined form the sister group of the Staphylinoidea. Within the Staphylinoidea, the Ptiliidae are confirmed to be a sister group of Hydraenidae. The Staphylinoidea embraces two, most likely monophyletic groups: the leioidid group (Agyrtidae, Leiodidae, Hydraenidae, and Ptiliidae), and the staphylinid group (Scydmaenidae, Scaphidiidae, Empelidae, Apateticidae, Silphidae, and Staphylinidae). Within the staphylinid group, the first (basal) offshoots of the phylogenetic tree are Scydmaenidae, Scaphidiidae, Empelidae, and then Staphylinidae, Apateticidae, and Silphidae. The phylogeny within Staphylinidae still remains not fully explained but Hansen was able to reach the following conclusions: the Omaliinae group, which is believed to include the most primitive staphylinids, was not confirmed as such, and he suggests that it consist of three not closely related lineages: 1. Empelidae, 2. Micropeplinae, Dasycerinae, Protopselaphinae, Pselaphinae, and 3. Omaliinae, Glypholomatinae, Microsilphinae, Proteininae, and Neophoninae. In contrast to Lawrence and Newton's (1995) classification, the Empelinae

and Scaphidiinae are treated as distinct families basal to Staphylinidae. The Pselaphinae are confirmed as a subordinate group of Staphylinidae.

Hansen's contribution, although not resolving all the existing doubts on the higher classification of Staphyliniformia, represents a major step forward in understanding the relationships within this large and diverse group of beetles. It also provides us with another point of view and is complementary to the classification promoted by Lawrence and Newton (1995). I recommend this important contribution as a major reference work for all researchers and students interested in the phylogeny and classification of Staphyliniformia. I could not verify the consistency of all the character states within the taxa considered in the cladistic analysis and leave readers to make their own judgments. The addition of a taxonomic index would clearly be a major improvement to help readers find desired taxa more quickly but this certainly does not affect the scientific value of this contribution. The price of the publication is rather high but still affordable.

Jan Klimaszewski
Laurentian Forestry Centre

Gilbert Waldbauer. 1998. *The Birder's Bug Book*. Harvard University Press, Cambridge, Massachusetts: 290 pp. \$27.95 US

Concentrated ecstasy is the only term to describe the dustjacket picture of an owlet, eyes closed, devouring a cecropia moth. It's an apt start to a book combining detailed, fascinating information and entertainment in about equal parts.

Waldbauer's credentials are impeccable: a professional entomologist (Professor Emeritus of Entomology, University of Illinois at Urbana-Champaign) and an avid birder since high school. Pulled between ornithology and entomology, he chose the latter because of greater job opportunities. His aim though was "to try to become a liaison between professional biologists and birders, other amateur naturalists and anyone else interested in the interactions of animals." In *The Birder's Bug Book*, he fulfills this aim admirably.

Chapter headings are highly descriptive: "Bugs and Birds Through the Ages", "The Only Flying Invertebrates", "Bugs That Birds Eat", "The Bugs Fight Back", "Bugs That Eat Birds", "The Birds Fight Back", "Bugs That Eat People", "People Fight Back", "A Brief Guide to the Insects", and "Disappearing Diversity". The thirteen pages of "Selected Readings" that follow the text are enough to keep any naturalist busy for the rest of her days.

Waldbauer writes with grace and humour. Complex animal behaviours and biological principles are explained clearly with the many examples presented as anecdotes anchored firmly in time and space. Even though taken from many places around the world, they never seem disconnected or merely exemplary. Many are from the author's or friends' and colleagues' experiences and research.

"The tap-tap-tap of a downy woodpecker sounds crisply through the clear cold air of a snowy woodland in New Hampshire. ...On a prairie pond in Saskatchewan, a Wilson's phalarope spins around in tight circles as it swims in shallow water. In Africa, a small sparrowlike bird approaches a honeybadger and entices it to follow,... . These seemingly unrelated activities have something in common; all stem from an association between birds and insects." These opening lines catch our attention instantly as we are taken on a swift journey through geological time tracing the probable rise of insects, birds, and humans and of their present symbiotic relationship.

Chapter two is primarily a very clear description of insect physiology compared to vertebrate. Waldbauer's ability with apt analogies emerges in his description of butterfly larvae as "essentially a digestive system on a caterpillar tread."

The chapters on 'fighting back' contain wonderful examples of nature's inventiveness: insects mimicking bird droppings to avoid being eaten, planthoppers mimicking flower spikes so precisely that other insects attempt to feed from them, birds nesting near stinging wasps for 'protection' from predators the wasps drive off, or the famous 'anting' of birds to repel body parasites.

The colour pictures of bird and insect behaviour are superb. My only quibble is with the overuse of "this ..." to open captions; a small fault offset by the humour of some such as "Mr. Personality..." for the spicebush swallowtail caterpillar.

The chapter on insects and people and our attempts at controls, often with disastrous ecological results, introduces the topic of biodiversity. Waldbauer discusses eight types of arthropods of most interest to outdoors people: mosquitoes, blackflies, horseflies, chiggers, ticks, scorpions, spiders, and wasps and hornets. Page 175 has an exquisite description of how mosquitoes bite painlessly followed by an equally graphic account of black fly feeding.

In "A Brief Guide to the Insects", Waldbauer describes the nineteen orders of insects most associated with birds or birders. He also notes naturalists' increasing interest in insects with butterflies and dragonflies sometimes afforded "honorary bird" status!

The final chapter speaks forcefully to the interconnectedness of all life forms and the cascading ecological effect of declining biodiversity for which humans, past and present, are largely responsible. Like others, he pleads for habitat preservation the loss of which is the single factor most destructive of biological diversity.

Ironically, while he decries the recent enormous growth in human population, one of his arguments for protecting biodiversity is the possible discovery of new medicines. The contradiction is a common dilemma.

Waldbauer ends on a sombre note: "The loss of a species or the destruction of a habitat narrows our view of ourselves, thus diminishing us and impoverishing our spirit."

The Birder's Bug Book is an authoritative and compelling read full of carefully assimilated information. I will return to it often.

Eva Durance
Penticton, B.C.

Sbordoni, V. and S. Forestiero. 1985 (1998 edition). *Butterflies of the World*. Firefly Books Ltd., Willowdale, Ontario, 312 pp. (\$45.00 hardcover).

Butterflies of the World is an excellent, although misnamed, book. It covers both butterflies and moths with equal emphasis, and microLepidoptera are treated equally with the "macros". It is not a taxonomic work, but provides an excellent overview of a wide range of biological topics, using butterflies and moths as examples. Even working biologists are likely to learn something new outside their area of specialization. The serious naturalist will find the book highly informative, but it may be heavy reading for those without a strong grounding in biology.

The book starts with a summary of the evolutionary origin of butterflies and moths, and a cladogram showing modern concepts (somewhat dated) of relationships between the superfamilies. Structural details of immature and mature Lepidoptera are discussed, along with the life cycle. Diversity and its creation through evolution, and mechanisms of speciation are thoroughly addressed. Concepts of systematics,

and the types of evidence used to determine relationships are covered with numerous examples. There is a brief, but useful, illustrated summary of each superfamily of Lepidoptera, with microLepidoptera treated with the same level of detail as the most spectacular of butterflies. There are chapters on behaviour, population biology, ecological relationships, predation, and mimicry. There are summaries of the faunal characteristics of the major vegetation types (biotopes) of the world, and a discussion of concepts of zoogeography and the fauna of the zoogeographic regions of the world. The last four chapters are very short treatments of the interactions of butterflies and moths with humans, and classification, collection, and conservation of Lepidoptera. There are only 26 general references in the bibliography, which is disappointing.

Butterflies of the World was originally written in Italian and then translated to English, and incomplete editing has resulted in occasional awkwardly phrased sentences and spelling errors. The text is somewhat dated, as a result of this being a reprint of a 1985 book, but most is factual information that remains sound. Some factual errors have apparently resulted from the translation, for example the use of "prolegs" for the forelegs of adult butterflies rather than as a larval structure.

The outstanding feature of the book is that every second page is a complex color painting illustrating each topic that is covered, with a detailed caption. The illustrations and their captions provide specific examples to accompany the more general topic treatments. The illustrations were done by eight different artists, who have different levels of skill, but are of overall high quality and represent an incredible effort. I can recommend this book to the serious naturalist, or the scientist who wants a broad summary of topics outside his/her normal area of specialization.

Cris Guppy
Quesnel, B.C.

Marshall, Steve. 1997. *Insects of Algonquin Provincial Park*. Friends of Algonquin Park, Whitney, Ontario. 48 pages. \$2.95, softcover. Available by mail order for \$5.00, postpaid from: Friends of Algonquin Park, P.O. Box 248, Whitney, Ont. K0J 2M0

The pages of this slim, large format guide are packed with colour plates and densely written text. It is clearly a labour of love as well as scholarship by someone who not only knows whereof he speaks, but who seems to have had a heck of a lot of fun writing about it. The writing is engaging, vivid and at times hilarious. It is accessible to the general reader and will appeal to anyone with an interest in natural history. While expressly written to describe the species found in Algonquin Park, the insect groups as well as many of the species described are found across the country. This is not a guide to economic and crop pest species—rather, it is a fascinating tour of insects that inhabit lakes, bogs and natural areas.

The guide begins with basic information on entomology accompanied by a key to the winged insects of the park illustrated by Ian Smith. An overview of the insect orders follows, packed with original and lively descriptions (re Odonata: "think of them as flying baskets continually filling up with mosquitoes and black flies"). The rest of the text is divided into sections describing groups of insects according to habitat or life style. These include the insects of roadsides, lakes, running water, water surfaces, flowers, trees, shorelines, bogs, and "the dead zone"(insects of dung and carrion). Sections also cover insects that are active at night, that bite, sting or that are parasitic. Each section is accompanied by a full facing page of 10-12 excellent close-up photographs taken by the author.

My only complaint is the lack of a table of contents or an index, either of which would have been useful to help the reader navigate. I have had to resort to adorning my copy with sticky notes to mark favorite passages and only hope that this oversight will be remedied in future editions.

Linda Gilkeson
Victoria, B.C.

Offer of Donation

Notice to all Entomological Society of Canada Affiliated Societies: Offer of donation of Entomological Society of British Columbia surplus library holdings.

In an effort to ensure its permanent and professional curation, the extensive and growing library of the Entomological Society of British Columbia was recently incorporated into the library of the Pacific Forestry Centre in Victoria, BC. During this process ESBC titles duplicated by PFC holdings were identified and removed for storage (see list below). Before exercising other options for permanent disposal of these duplicates, the Entomological Society of British Columbia wishes to make them available to the libraries of the other Canadian Regional Entomological Societies.

Titles are offered free of charge except that receiving Societies will be expected to cover shipping charges. If any of the titles are of interest, please contact the ESBC Secretary/Treasurer at the following address: Robb Bennett, BC Ministry of Forests, 7380 Puckle Road, Saanichton BC V8M 1W4
Tel: 250 652-6593; Fax: 250 652-4204; e-mail: Robb.Bennett@gems6.gov.bc.ca

List of Entomological Society of British Columbia library holdings offered for donation

- The Canadian Entomologist: Vols. 1-102 (1869-1970). Complete. Bound 1-34, 57-60. Two copies of Vols. 42-56.
- Can. Ent. Supplement: Vols. 1-30 (1955-1963). Complete.
- Memoirs of the Can. Entomol. Sock.: Vols. 31-130 (1963-1985). Missing 50, 54, 57, 58, 70, 71, 75, 77, 78, 86-93, 95, 96, 98-103, 105, 107-127, 129.
- Rev. of Applied Entomology, Series A (Agric.): Vols. 1-76 (1913-1988). Complete.
- J. of Econ. Entomology: Vols. 1-57, 59-63 (1908-1970, except 1965). Complete except as noted. Bound 1-14, 61-63.
- Ecology: Vols. 2-33 (1921-1953), 40-44 (1959-1963). Nearly complete.
- Australian J. of Zoology: Vols. 1-33 (1953-1985). Complete.
- Aust. J. of Zool. Suppl. Series: Vols. 3-74. About _ complete.
- Ann. Entomol. Sock. of America: Vols. 53-58, 61-63 (+ single # from each of Vols. 66, 69). Mostly bound.
- Bulletin Entomol. Sock. of America: 1955-iii/1973.
- Forest Insect and Disease Survey (Canadian Forest Service): 1940-1977. Mostly complete.
- 10th Int. Congress of Entomol.: Vols 1-4 (1956). Complete.
- Ann. Soc. Entomol. du Quebec: Vols 1-28 (1956-1983). Complete.
- Memoires Ann. Soc. Entomol. du Quebec: Vols. 1-6 except 5 (1968-1980).
- Entomol. Sock. Ontario Annual Report: 1870-1958 (except 1918, 1930-33, 1940). Complete except as noted. 1870-1902 bound.
- Proceedings Entomol. Sock. Ont.: 1959, 1963.
- Ecological Monographs: Vols. 25-28, 35, and assorted bits of other volumes.
- Beitrage zur Entomologie: Vols. 18-22.
- Annales des Epiphyties: Vol 19 (1968)
- Acta Ent. Sinica: Vols. 23-26, part of 27.
- Acta Ent. Fennica: Vols. 7, 8, 17, 22, 24, 31, 32, 39, 42, 44, 45, 47.
- Lloydia: 1947-1962.
- Manitoba Ent.: 1967-1979, except 1976.
- Melandria: Vols. 1(1969)-43(1985)
- Entomol. Review (English translation from Russian): Vols. 40-43 (1961-64).
- Proc. Entomol. Sock. Alberta: 1, 5, 6, 8-10, 13.-
- Deutsche Ent. Zeitschrift: Vols. 16-34 (1967-87). Complete.

Entomological Society of Saskatchewan Web Page

The Entomological Society of Saskatchewan has just recently created a web page. Its URL address is www.usask.ca/biology/ess/. It is particularly useful because it has information and forms for the ESC/ESS 1999 Joint Annual Meeting.

Larry Grenkow
Saskatoon

NEWS OF OGRANIZATIONS

International Commission on Zoological Nomenclature

Applications published in the Bulletin of Zoological Nomenclature

The following Applications were published on 31 March 1999 in Vol. 56, Part 1 of the *Bulletin of Zoological Nomenclature*. Comment or advice on any of these applications is invited for publication in the *Bulletin* and should be sent to the Executive Secretary (I.C.Z.N.), c/o The Natural History Museum, Cromwell Road, London SW7 5BD, U.K. (e-mail: iczn@nhm.ac.uk).

Case 3048 NYMPHULINAE Duponchel, [1845] (Insecta, Lepidoptera): proposed precedence over ACENTROPINAE Stephens, 1835

M. Alma Solis, Systematic Entomology Laboratory, Agriculture Research Service, USDA, National Museum of Natural History, MRC 168, Washington, D.C. 20560, U.S.A. (e-mail: asolis@sel.barc.usda.gov)

Abstract. The purpose of this application is to conserve usage of the name NYMPHULINAE Duponchel, [1845] for a widely distributed subfamily of crambid moths; it is the only taxon in the Lepidoptera with true aquatic caterpillars. The name NYMPHULINAE is accepted by most workers as a subjective synonym of ACENTROPINAE Stephens, 1835. The senior name has been used as a valid name only a small number of times in recent years; it is proposed that NYMPHULINAE should be given precedence when the two names are regarded as synonyms.

Keywords. Nomenclature; taxonomy; Lepidoptera; CRAMBIDAE; ACENTROPINAE; NYMPHULINAE; *Acentropus*; *Nymphula*.

Case 3054 AUGOCHLORINI Moure, 1943 (Insecta, Hymenoptera): proposed precedence over OXYSTOGLOSSINI Schrottky, 1909

Michael S. Engel, Department of Entomology, American Museum of Natural History, Central Park West at 79th Street, New York, N.Y. 10024-5192, U.S.A.

Abstract. The purpose of this application is to conserve the usage of the family-group name AUGOCHLORINI Moure, 1943 for a well known group of neotropical halictine bees. The senior tribal name OXYSTOGLOSSINI Schrottky, 1909 (type genus *Oxystoglossa* Smith, 1853) has not been used for the last 50 years, and before that only rarely; the junior name AUGOCHLORINI (type genus *Augochlora* Smith, 1853, a senior subjective synonym of *Oxystoglossa*) has become widely known and universally accepted. It is proposed that the family-group name AUGOCHLORINI be given precedence over OXYSTOGLOSSINI.

Keywords. Nomenclature; taxonomy; Hymenoptera; HALICTIDAE; AUGOCHLORINI; OXYSTOGLOSSINI; bees; neotropics; *Augochlora*; *Oxystoglossa*.

Case 3069 *Solenopsis invicta* Buren, 1972 (Insecta, Hymenoptera): proposed conservation of the specific name

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Abstract. The purpose of this application is to conserve the specific name of the fire ant *Solenopsis invicta* Buren, 1972 (FORMICIDAE). This ant is a well-known pest in the southeastern United States and Puerto Rico. The name is threatened by the poorly understood and little used senior subjective synonym *S. wagneri* Santschi, 1916.

Keywords: Nomenclature; taxonomy; Hymenoptera; FORMICIDAE; fire ants; North and South America; *Solenopsis invicta*; *Solenopsis wagneri*.

Case 3064 *Strongylogaster* Dahlbom, 1835 (Insecta, Hymenoptera): proposed conservation by the designation of *Tenthredo multifasciata* Geoffroy in Fourcroy, 1785 as the type species

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Abstract. The purpose of this application is to conserve the name *Strongylogaster* Dahlbom, 1835 for a Holarctic genus of sawflies (family TENTHREDINIDAE, subfamily SELANDRIINAE), the use of which has been stable and unambiguous for 140 years, by the designation of *Tenthredo multifasciata* Geoffroy in Fourcroy, 1785 as the type species. At present *T. cingulata* Fabricius, 1793 (a junior primary homonym of *T. cingulata* Scopoli, 1763) is the type species by recognition of the synonymy of this with *T. brevicornis* Konow, 1886 renders *Strongylogaster* a junior subjective synonym of *Tenthredo* Linnaeus, 1758 (subfamily TENTHREDININAE). A lectotype is designed for *T. cingulata* Fabricius, which had previously been considered a junior synonym of *T. lineata* Christ, 1791, itself a junior synonym of *T. multifasciata*.

Keywords: Nomenclature; taxonomy; Hymenoptera; TENTHREDINIDAE; sawflies; *Tenthredo*; *Strongylogaster*; *Tenthredo lineata*; *Tenthredo multifasciata*.

Opinions published in the Bulletin of Zoological Nomenclature

The following Opinions were published on 31 March 1999 in Vol. 56, Part 1 of the Bulletin of Zoological Nomenclature. Copies of these Opinions can be obtained free of charge from the Executive Secretary, I.C.Z.N., c/o The Natural History Museum, Cromwell Road, London SW7 5BD, U.K. (e-mail: ican@nhm.ac.u.)

OPINION 1916. BRACHYPTERINAE Zwick, 1973 (Insecta, Plecoptera): spelling emended to BRACHYPTERAINAE, so removing the homonymy with BRACHYPTERINAE Erichson, [1845] (Insecta, Coleoptera); KATERETIDAE Erichson in Agassiz, [1846]: given precedence over

BRACHYPTERINAE Erichson

OPINION 1917. *Papilio camillus* Fabricius, 1781 (currently *Cyrestis camillus*) and *Limenitis reducta* Staudinger, 1901 (Insecta, Lepidoptera): specific names conserved.

OPINION 1918. MELOIDAE Gyllenhal, 1810 and NEMOGNATHINAE Castelnau, 1840 (Insecta, Coleoptera): given precedence over HORIIDAE Latreille, 1802

OPINION 1919. *Polyrhachis* Smith, 1857 (Insecta, Hymenoptera): given precedence over *Myrma* Billberg, 1820

MEETINGS

Montreal 2000 Meeting

The wheels for organizing the ESA, ESC and SEQ joint meetings in 2000 were set in motion last November at the Las Vegas ESA meetings. The joint meetings will be held in Montreal at the Congress Center, Dec. 2-6 2000.

We, the undersigned as members of the Joint Program Committee, wish to generate interest and participation of Canadian entomologists in submitting proposals for symposia and for the formal and informal conferences in order to increase visibility of entomological research in Canada and to treat themes that are more of interest to Canadians such as forestry or canola entomology. However, proposals will be evaluated above all for scientific quality, hence competition for any activity will be high.

The Joint Organizing Committee has agreed to adopt program procedures used by ESA for the joint meetings in Montreal. Each year the February issue of the ESA newsletter contains a call for papers which gives detailed instructions for active participation in the annual meeting to be held the following December. The procedures for the joint meetings in Montreal will differ from the one scheduled for December 1999 in Atlanta only in the deadlines for certain activities. The following highlights the instructions published last February with changes in deadlines as they apply for the 2000 meetings.

There will be a total of 26 symposia. This will include five program symposia, and 21 Section symposia. The Section symposia are set as follows: Three each for Sections A,B,D, and F; four for Section C and five for Section E. The title of each Section as well as the name and address of the chairman for each Section Committee follow in this letter. Please note that the length of a symposium cannot exceed four hours.

Program Symposia: Topics for the five program symposia may be submitted and will be selected by the Presidents of the three societies for the year 2000. The presidents will be François Lorenzetti for the Société d'entomologie du Québec, Dan Johnson for the Entomological Society of Canada and Sharon Quisenberry for the Entomological Society of America.

Section Symposia: Symposia are selected by Section Program Committees, in consultation with the Section chairs in office in the year 2000. Each Section Program Committee determines the submission deadline for proposals which is usually around December 1 of the previous year of the conference.. All symposia have designated organizers that are responsible for lining up speakers, moderators, and projectionists. They also provide an organized list of talks to the Chair of the Joint Program Committee. March 1, 2000, is the deadline for Section chairs to submit preliminary material to Dr. Marlin Rice, Chair of the Joint Program Committee for the Montreal meetings. Preliminary material should be complete by this time requiring only minimum modifications.

The final drafts prepared by Section chairs and Program symposia organizers for the different symposia should be ready by or before April 19, 2000. The drafts should be complete because they are used to program the electronic submission system, which will become available to symposium organizers around May 1.

Formal Conferences: These usually consist of invited papers, but may include regular 10 min. submitted papers if specified and prearranged by the organizer of the Formal Conference. Speakers, names and presentation titles for both invited and submitted papers will be listed in the printed program. Formal conferences cannot exceed four hours. These conferences are arranged in consultation with the Chair of the Joint Program Committee. The ESA Governing Board has approved the following formal conferences: Acarology, Aquatic insects, Arthropod Resistance, Arthropod Pests of Ornamentals, Genetics and Molecular Biology, Insect Rearing, International Affairs, Student Affairs, Teaching, Urban Entomology, and Vegetable Entomology. Organizers should provide a basic outline of their conference (consult checklist in Feb. issue of ESA Newsletter available at <http://www.entsoc.org>) to the Chair of the Joint Program Committee by March 1, 2000. The organizers must also indicate at this time if their conference will allow submitted papers. If not identified at this time, the electronic submission system will not be programmed to accept submitted papers for Formal Conferences. Organizers are responsible for entering ALL information on their conference onto the electronic submission site, with the presentation abstracts. Organizers are also responsible to provide moderators and projectionists. Additional information on Formal Conferences can be found in the February issue of the ESA Newsletter.

Informal Conferences: These include papers, posters and workshops. They are arranged in consultation with the Chair of the Joint Program Committee. All informal conferences must have an organizer(s). If available the conference title, name(s) and address(es) of the conference organizer(s), and the names of speakers and their respective presentation titles will be printed in the program unless the organizer(s) request otherwise. March 1, 2000 is the deadline for submitting the first draft of informal conferences proposals. By then a basic outline that contains most of the information identified in the checklist (Feb. issue of ESA Newsletter) should be submitted to the Chair of the Joint Program Committee. April 19 2000, is the deadline for the final drafts. Again organizers are responsible for entering ALL information on their conference onto the electronic submission site, including the abstracts. And organizers are responsible to provide moderators and projectionists for their sessions.

Submitted 10-Minute Papers and Poster Display Presentations: The deadline for submission of ten-minute papers is June 26 and for posters July 25, 2000. Presentation requests should be submitted via the general electronic submission system, which will be available around May 25, 2000. Do not confuse this with the symposium, formal conference, and informal conference electronic submission site that will be available to organizers around May 1, 2000.

Awards: Student competitions, as well as, professional awards are currently being discussed by the Presidents of the three societies.

Finally, please do not procrastinate to the last minute. We have been informed that there are already several proposals in the hands of the Section chairs for consideration. In order to keep track of proposals made by ESC members, please send us a copy of your proposal. Finally, feel free to get in touch with us if you need more information.

Sincerely yours,
Noubar J. Bostanian
Hélène Chiasson

L'organisation de la réunion conjointe de la Société d'entomologie du Québec (SEQ), de la Société d'entomologie du Canada (SEC) et de la 'Entomological Society of America' (ESA) fut mise en branle en

novembre dernier lors de la réunion de la ESA à Las Vegas. Cette réunion conjointe aura lieu du 2 au 6 décembre, 2000, au Palais des Congrès à Montréal.

Nous, les sous-signés en tant que membres du Comité conjoint du Programme (Joint Program Committee), voulons susciter l'intérêt et la participation des entomologistes canadien(ne)s dans la préparation de soumissions pour les divers symposiums et conférences. La présentation de thèmes par les entomologistes canadien(ne)s aura pour but d'augmenter la visibilité de la recherche entomologique au Canada et de traiter des sujets à fort intérêt canadien e.g. l'entomologie forestière et du canola. Toutefois, il faut se souvenir que les propositions seront évaluées avant tout sur leur qualité scientifique et que la compétition pour toute activité est très forte.

Le comité organisateur a décidé d'adopter la procédure de la ESA pour développer un programme pour la réunion de Montréal. Chaque année, le numéro de février du bulletin de la ESA contient un appel de soumissions donnant des directives détaillées pour participer aux symposiums et conférences à la réunion annuelle qui a lieu au mois de décembre suivant. La démarche à suivre pour la réunion conjointe de Montréal sera la même que décrite dans le bulletin de février 1999 pour la réunion d'Atlanta en décembre prochain sauf que les dates limites sont devancées dans le cas de Montréal.

Il y aura un total de 26 symposiums, incluant 5 symposiums de programme (Program Symposia) et 21 symposiums de section (Section Symposia). Les symposiums de section sont distribués de la façon suivante : les sections A, B, D et F ont chacun trois symposiums, la section C quatre et la section E cinq. Le titre de chaque section ainsi que le nom du président de chaque Comité de section pour l'an 2000 à qui les propositions doivent être envoyées figurent à la fin de cette lettre. Notez que la durée d'un symposium ne doit pas dépasser 4 heures.

Symposiums de programme (Program Symposia). Les sujets des 5 symposiums de programme seront soumis et choisis par les présidents des trois sociétés en poste en l'an 2000, soit François Lorenzetti pour la SEQ, Dan Johnson pour la SEC et Sharron Quisenberry pour la ESA.

Symposiums de section (Section Symposia). Les symposiums de section sont choisis par un comité de programme pour la section en consultation avec celui ou celle qui sera président de section en l'an 2000. Chaque Comité de programme de chaque section détermine la date limite pour la soumission des propositions laquelle se situe normalement autour du 1^{er} décembre de l'année précédant la réunion. Tous les symposiums sont dirigés par un ou plusieurs organisateurs s'occupant de la recherche de conférenciers, de modérateurs et de projectionnistes. Les organisateurs fournissent aussi une liste détaillée des présentations au président du Comité conjoint du Programme (Joint Program Committee). La date limite pour une soumission préliminaire des propositions par les présidents de section au président du Comité conjoint du Programme (Dr. Marlin Rice pour la réunion de Montréal), est le 1 mars 2000. Une proposition préliminaire doit être presque complète et ne nécessite que des modifications mineures. La proposition finale est préparée conjointement par le président de section et par les organisateurs du symposium et doit être complétée le 19 avril 2000 pour être acheminée dans le système de soumissions électroniques mis à la disposition des organisateurs le 1^{er} mai.

Conférences permanentes (Formal Conferences). Elles consistent habituellement de présentations sur invitation, mais peuvent également inclure des présentations proposées de 10 minutes si indiquées et préautorisées par l'organisateur des conférences permanentes. Les présentateurs, les noms et les titres des présentations, sur invitation et proposées, seront inscrites dans le programme. Le temps alloué pour les conférences permanentes ne doit pas dépasser quatre heures. Ces conférences sont organisées en consultation avec le président du Comité conjoint du Programme. Le conseil d'administration de la ESA a approuvé les conférences permanentes suivantes: acarologie, insectes aquatiques, résistance chez les arthropodes, arthropodes nuisibles des plantes ornementales, génétique et biologie moléculaire, élevage des insectes, événements internationaux, événements étudiants, enseignement, entomologie urbaine et entomologie maraîchère. Les organisateurs doivent fournir un bref résumé de leur conférence (voir la liste

de contrôle ou 'checklist' dans le numéro de février du bulletin de la ESA disponible sur <http://www.entsoc.org>) au président du Comité conjoint du Programme au plus tard le 1er mars 2000. Les organisateurs doivent également indiquer si leur section autorisera les présentations proposées. Si aucune indication n'apparaît à cette date, le système électronique de soumission ne sera pas programmé pour accepter les présentations proposées dans la section des conférences permanentes. Les organisateurs sont responsables de l'entrée de toutes les informations de leur conférence, incluant les résumés de présentations, sur le site électronique. Les organisateurs sont également responsables de nommer des modérateurs et des projectionnistes. Des informations supplémentaires sur les conférences permanentes peuvent être trouvées dans le numéro de février du bulletin de la ESA.

Conférences informelles: Elles incluent les présentations orales, les affiches et les ateliers. Elles sont organisées en consultation avec le président du Comité conjoint du Programme. Toutes les conférences informelles doivent avoir un organisateur responsable. Si disponibles, les noms et adresses des organisateurs responsables, les noms des conférenciers ainsi que les titres de leurs présentations respectives seront inscrits dans le programme à moins que les organisateurs en décident autrement. La date limite pour soumettre la première ébauche des propositions de conférences informelles est le 1er mars 2000. Cette ébauche doit inclure la plupart des informations énumérées dans la liste de contrôle du numéro de février du bulletin de la ESA. Le 19 avril 2000 sera la date limite pour les propositions finales. Ici encore, les organisateurs ont la responsabilité d'entrer toutes les informations de leur conférence, incluant les résumés de présentations, sur le site électronique de soumission. Les organisateurs sont également responsables de nommer des modérateurs et des projectionnistes.

Présentations brèves (10 minutes) et affiches scientifiques. La date limite pour soumettre des présentations brèves de 10 minutes est le 26 juin 2000 et pour soumettre des affiches scientifiques, le 25 juillet 2000. Les demandes de présentation devraient être soumises par le système électronique général de soumission, lequel sera disponible aux environs du 25 mai 2000. À noter qu'il ne faut pas confondre ce site avec celui des soumissions pour le symposium, les conférences permanentes et informelles qui sera disponible aux environs du 1er mai 2000.

Prix et décorations: Les compétitions étudiantes ainsi que les décorations remises aux professionnels sont actuellement examinées par les présidents des trois sociétés.

Finalement, n'attendez pas à la dernière minute. Il y a déjà plusieurs propositions entre les mains des présidents des différentes sections. Afin de suivre l'évolution des propositions faites par les membres de la SEC, nous apprécierions recevoir une copie de votre proposition. N'hésitez pas à nous contacter si vous désirez plus d'information.

Sincèrement,
Noubar J. Bostanian
Helene Chiasson

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