

Bulletin

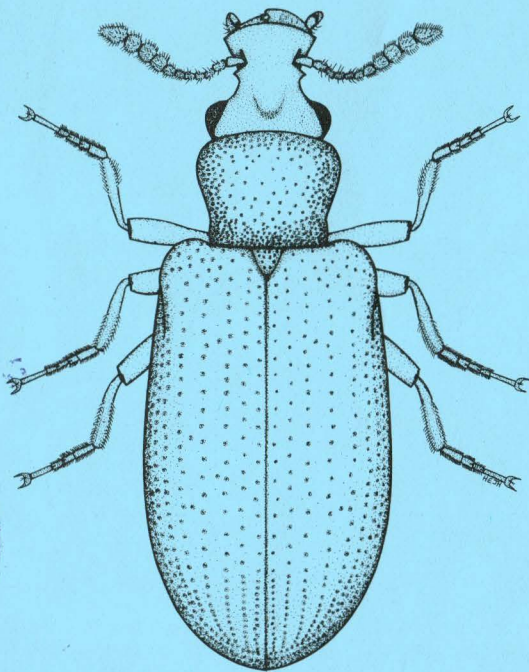
Entomological Society
of Canada

Société d'Entomologie
du Canada

Volume 30

No. 3

Sept/sept 1998



Entomological Society of Canada
Société d'Entomologie du Canada

393 Winston Avenue, Ottawa,
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Table of contents on back cover / Table
des matières sur la couverture-arrière

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

E-mail: entsoc.can@sympatico.ca

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

Le **Bulletin de la Société d'Entomologie du 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 *Rhinosinus viridiaeneus* Randall. *R. viridiaeneus* belongs to a group of beetles known as narrow-waisted bark beetles, which are transcontinental in distribution. The adults and larvae are predaceous, feeding on wood-boring beetle larvae within their galleries. [Habitat illustration courtesy of J. Hammond, University of Alberta.]

La page couverture illustre la adulte de *Rhinosinus viridiaeneus* Randall. *R. viridiaeneus* fait parti d'un groupe de coléoptères connu sous le nom de scolyte de l'écorce à taille étroite, qui ont une distribution transcontinentale. Les adultes et les larves sont des prédateurs qui se nourrissent de larves de coléoptères perce-bois à même leurs galeries. [L'illustration est une courtoisie de J. Hammond, Université d'Alberta.]

List of contents/Table des matières

Volume 30, no. 3, Sept/sept 1998

Society Business / Affaires de la Société	69
Meeting Announcements.....	69
Call for Nominations - Achievement Awards.....	70
President's Report	72
Committees and Representatives - Update.....	73
Student Affairs Committee Update.....	74
News of Organizations	74
Biological Survey of Canada.....	74
ICZN.....	77
Young Entomologist's Society Websites.....	78
ESQ News.....	79
Personalia	80
ESC Fellowship to Guy Boivin.....	80
Insect Expert Honoured	81
Position Available	81
Meeting	81
Publications	82
Scholarships and Grants	83
Miscellaneous	85
Net, Shovel and Axe	86
Membership form (new members only)	88



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

48th Annual General Meeting

The Annual General Meeting of the Entomological Society of Canada will be held at the *Chateau Frontenac* in Quebec City on November 3, 1998.

La réunion annuelle générale de la Société d'entomologie du Canada aura lieu au *Chateau Frontenac* à Québec, P.Q., le 3 novembre 1998.

Governing Board Meeting

The Annual Meeting of the Governing Board will be held at the *Chateau Frontenac* in Quebec City on October 31, 1998.

La réunion annuelle du conseil d'administration se tiendra au *Chateau Frontenac* à Québec, P.Q., le 31 octobre 1998.

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

Veillez 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 back orders 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.

The web address for the Linnaean Games is www.biology.ualberta.ca/esc.hp/frenlin.htm

Please send all correspondence concerning the Bulletin to:

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The deadline for submissions to be included in the next issue (Vol. 30(4)) is **November 1, 1998**
La date limite pour recevoir vos contributions pour le prochain numéro (Vol. 30(4)) est le **1 novembre 1998**

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 1999). 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 1998**.

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 1999) 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 1998**.

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.

President's Report

During the summer, a period of vacations and fieldwork, some matters have been pursued less actively, but significant progress has been made on a number of key issues in addition to routine business. For example, a review of the position of ESC Office Manager was completed by a committee established for the purpose, comprising the Executive and the Treasurer, leading to an updated job description and to consideration of future job conditions and salary. The development of a detailed contract for continuing the positive arrangements with the National Research Council for production of *The Canadian Entomologist* is well advanced. And final corrections and amendments to the Standing Rules and Committee Guidelines (stemming chiefly from the results of the Strategic Review) are being evaluated for presentation at the 1998 meeting of the Governing Board. In this context, consultations are underway on some specific subjects, for example between the Finance Committee and Affiliated Societies. Several other Society committees have been active too, notably the Student Affairs Committee, which organized the Linnaean Games for the forthcoming annual meeting (see, for example, the web site at the address: www.biology.ualberta.ca/esc.hp/frenlin.htm). The ESC has contributed one-year student memberships as the prize for the winning Linnaean Games team.

Updated information about the membership of some ESC committees (which was omitted from the last Bulletin) is given below. The composition of other committees remains unchanged from the listing in the *Bulletin* 30 (1): 12-13.

The forthcoming joint annual meeting in Quebec City includes a very interesting scientific programme (October 31-November 4), and social activities as well as essential Society business such as the deliberations of the Governing Board and the Annual General Meeting for all ESC members. I await the annual meeting with great anticipation, and I look forward to seeing many of you there.

Rapport du président

Au cours de l'été, période de l'année normalement consacrée aux vacances ou aux travaux sur le terrain, certaines questions sont demeurées en suspens. D'importants progrès ont toutefois été réalisés dans l'examen d'un certain nombre de questions prioritaires. Par exemple, un comité formé du conseil exécutif et du trésorier a réévalué le poste de gestionnaire de bureau de la SEC. Cette démarche a conduit à la mise à jour de la description du poste et à la révision des éventuelles conditions de travail et du salaire. Les travaux d'élaboration d'un contrat détaillé permettant la poursuite de l'entente conclue avec le Conseil national de recherches en vue de la publication du *Canadian Entomologist* progressent selon l'échéancier prévu. Les dernières corrections et modifications aux Règles permanentes et Lignes directrices des Comités (découlant dans une large mesure des résultats de l'examen stratégique) ont été soumises pour évaluation en vue de leur présentation lors de l'assemblée de 1998 du Conseil d'administration. Dans ce contexte, des consultations portant sur divers sujets ont été entreprises, notamment entre le comité des finances et les sociétés affiliées. Plusieurs autres comités de la Société ont mené à bien diverses activités. Ainsi, le Comité pour les affaires étudiantes a organisé les Jeux linnéens en prévision de la prochaine assemblée annuelle (voir, par exemple, www.biology.ualberta.ca/esc.hp/frenlin.htm). La SEC offre comme prix à l'équipe qui remportera les Jeux linnéens de défrayer les frais d'adhésion à la Société pour une période d'un an (catégorie étudiante).

Des informations à jour sur la composition de certains comités de la SEC (non précisée dans le dernier bulletin) sont fournies ci-dessous. La composition des autres comités demeure inchangée par rapport aux informations communiquées dans le *Bulletin* 30 (1): 12-13.

La prochaine assemblée conjointe annuelle qui se tiendra à Québec (31 octobre au 4 novembre) comporte un programme scientifique fort intéressant et prévoit toute une gamme d'activités sociales, ainsi que l'examen des affaires de la Société telles que les délibérations du Conseil d'administration et l'assemblée générale annuelle ouverte à tous les membres de la SEC. J'attends l'assemblée annuelle avec impatience et j'espère que vous serez nombreux à y participer.

H.V. Danks
Ottawa, Ontario

Entomological Society of Canada / Société d'entomologie du Canada
Committees and Representatives for 1997-1998 / Comités et représentants 1997-1998
Updates / Mises à jour

Standing or Continuing Committees
Comités permanents ou en cours

Elections/Élections

J.E. Corrigan, Chair, Guelph
J.E. Corrigan, Président, Guelph
D. Stanley-Horn, Guelph
S. Butler, Guelph
H.V. Danks, ex officio, Ottawa

Insect Common Names
Noms communs d'insectes

E. Belton, Chair, Burnaby
E. Belton, Président, Burnaby
H. Chiasson, Montréal
One member to be appointed
Un membre à nommer
H.V. Danks, ex officio, Ottawa

Membership/Adhésion

D.W. Langor, Chair, ESA, Edmonton
D.W. Langor, Président, ESA, Edmonton
T. Danyk, Lethbridge
R.F. Smith, AES, Kentville
T.L. Shore, ESBC, Victoria
R.J. Lamb, ESM, Winnipeg
D.B. Lyons, ESO, Sault-Ste-Marie
O. Olfert, ESS, Saskatoon
J. Brodeur, SEQ, Québec
H.V. Danks, ex officio, Ottawa

Science Policy and Education
Politique scientifique et Éducation

J.R. Spence, Chair, Edmonton
J.R. Spence, Président, Edmonton
K.G. Davey, Downsview
P.G. Kevan, Guelph
R.F. Smith, AES, Kentville
D.W. Langor, ESA, Edmonton
T.L. Shore, ESBC, Victoria
R.J. Lamb, ESM, Winnipeg
D.B. Lyons, ESO, Sault-Ste-Marie
O. Olfert, ESS, Saskatoon
C. Cloutier, SEQ, Québec
H.V. Danks, ex officio, Ottawa
L.A. Gilkeson, ex officio, Brentwood Bay
D.L. Johnson, ex officio, Lethbridge

Student Affairs/Affaires Étudiantes

T.P. Danyk, Chair, Lethbridge/ T.P. Danyk,
Président, Lethbridge
D. Barrett, Fredericton
D. Gingras, Montréal
P. Lomic, Toronto
H.V. Danks, ex officio, Ottawa
S. Lindgren, ex officio, Prince George

Ad Hoc Committee/ Comité ad hoc

Annual Meeting Guidelines

Lignes directrices pour les réunions conjointes
T. Shore, Chair, Victoria
T. Shore, Président, Victoria
L. Gilkeson, Victoria
J. Sweeney, Fredericton
H.V. Danks, ex officio, Ottawa

Student Affairs Committee Update

We have been busy organizing a bilingual version of the Linnaean Games for the upcoming meeting in Quebec. There have never been bilingual Games in Canada and as far as I know, not in the United States either-- these Games will be an interesting experiment! As in the past, the SAC is planning "user-friendly" Games that will be enjoyable and educational to the participants and audience. Details about the Games, and approximately how they will operate, are posted on the ESC home page under the Student Affairs link (www.biology.ualberta.ca/esc.hp/homepage.htm). Briefly, the Games involve teams of students that compete by answering questions on various aspects of entomology. In contrast to previous Games, teams will be constructed by the SAC and consist of Francophone and Anglophone students. We have found that students tend to be unwilling to compete in the Games, but once they participate they do not regret playing. As a result, we plan to actively solicit participation from students for the Games by registering all students to play the Games. If students do not want to participate (or will not be at the meeting), then we will remove their names from the list of participants. I plan to send an e-mail message to student members as soon as possible encouraging them to participate in the meeting and Games. Prizes for the Games include ESC memberships and ESC/SEQ t-shirts!

If you have an issue that may be of interest to the SAC, contact me at: Agriculture and Agri-Food Canada, Lethbridge Research Centre, PO Box 3000, Lethbridge, AB, T1J 4B1, Canada; e-mail danyk@em.agr.ca; fax 403-382-3156; phone 403-327-4591, extension 462. The e-mail address of the SAC is esc-student@sfu.ca.

Troy Danyk
Chair, Student Affairs Committee
Lethbridge, Alberta

NEWS OF ORGANIZATIONS

Biological Survey of Canada (Terrestrial Arthropods) Survey Report

The Scientific Committee met in Ottawa 16-17 April 1998. A more detailed account of the meeting is available in the Newsletter of the Biological Survey of Canada (Terrestrial Arthropods) 17(2), 1998.

Scientific projects

The various scientific projects of the Survey were discussed, including future possibilities to be considered in more detail at the next meeting.

1. Yukon project

Sales of the book *Insects of the Yukon* are modest but steady. The book has been widely publicized through various means, and the Committee discussed other possible publicity avenues.

2. Grasslands

Some initial results for the grasslands project were reviewed. The Survey plans to incorporate ecological data into this undertaking, leading to a specific scientific project rather than a general investigation. The organization of a future publication on grasslands was discussed.

3. Arctic invertebrate biology

Various collaborations on arctic work continue. In the year 2000 the triennial symposium on insect and plant cold hardiness will be held at the University of Victoria. The newsletter Arctic Insect News continues to attract international attention. There is a possibility that the research station facilities at Schefferville (subarctic) and Axel Heiberg Island (high arctic) will be upgraded in the next few years.

Other scientific priorities

1. Arthropod fauna of soils

The database of ecology research projects (DERP) (see Newsletter of the Biological Survey of Canada (Terrestrial Arthropods) 17(1): 14-15), a valuable way to pool data on various soil projects, is now available for data input. A report is in preparation on the status of biodiversity in Canadian agricultural soils, to be presented at the Subsidiary Body on Scientific, Technical and Technological Advice (SBST-TA). The 10th International Acarological Congress will be held in summer 1998 in Canberra, Australia.

2. Old-growth forests

The Committee recognized that the considerable activity and good work in old-growth forests might profitably be capitalized on by producing a synthesis, for which some sort of specific focus is required. A subcommittee was charged with developing this idea further, for a possible future workshop or a symposium and a publication.

3. Invasions and reductions

A workshop or symposium on invasions and reductions in the Canadian arthropod fauna is being planned by a subcommittee for the year 2000.

4. Survey project on faunal analysis and gaps in expertise

A number of people willing to assemble data for this project for their taxa of expertise have been contacted. A final protocol will be distributed, and data received, over the next six months. The project is intended to lead to verified information about the numbers of species and taxonomic expertise; and to Survey documents developed from that information to help lobby for more taxonomic resources.

5. Survey publicity

A poster about the Survey had been prepared for the Ecological Monitoring and Assessment Network national meeting at Charlevoix in January 1998, accompanied by publicity materials on the Survey and its publications. The possibility of producing additional posters for wider use will be considered. A file of transparencies that illustrate the work of the members of the Biological Survey is being developed.

6. Other priorities

Information relevant to existing, but no longer fully active, Survey projects was reviewed, and the Committee considered information about other matters of concern, including endangered species, funding for biodiversity projects and error rates in identifications.

Liaison and exchange of information

1. Canadian Museum of Nature

Dr. Mark Graham, Director of Research, reported that the Museum undertook a corporate strategy that involved consultations with many groups across the country. A final report containing the Museum's objectives and the framework for work planning and budgeting over the next several years is being prepared, with four main themes: 1) to increase national service and impact; 2) to make the work of the Museum more visible and available; 3) to implement some basic operating systems; and 4) to increase self-generated revenues. The Federal Biosystematics Partnership is updating its memorandum of understanding which serves as the group's operating procedures. The Museum is a partner in initiatives such as the

Canadian Biodiversity Infrastructure Initiative. The Museum is implementing its collections management information system. Long-range planning is underway for the Museum's main display building, including updates to the current arctic exhibit.

2. Biological Resources Program, ECORC

Dr. Valerie Behan-Pelletier, BRP, on behalf of Dr. Jim McKenzie, confirmed that Agriculture will soon endorse its participation in the Federal Biosystematics Partnership with the primary objectives of undertaking collaborative endeavours, including but not limited to taxonomic research, and ensuring that the importance of biosystematics is recognized, emphasized and supported in Canada. Participation is also developing with the U.S. National Biological Service for development and maintenance of the North American Integrated Taxonomic Information System (ITIS). The ECORC web site [<http://res.agr.ca/ecorc/crop2.htm>] has a series of web pages on many of BRP's systematic studies. The entomologist Dr. Peter Mason has recently been hired at ECORC.

3. Entomological Society of Canada

Dr. Hugh Danks, President, ESC, outlined some of the major changes to the Society in the past year as a result of decisions made following the Strategic Review, as well as the recent changes of Scientific Editor and Secretary.

4. Ecological Monitoring and Assessment Network

Dr. Patricia Roberts-Pichette reported that the EMAN national meeting was held in Charlevoix, Quebec in January, and was successful especially in improving people's knowledge about the direction EMAN is taking. The next EMAN national meeting will be held in Victoria during January 1999. The arthropod working group has completed its report outlining the minimum needs for monitoring protocols.

5. Canada/MAB

Dr. Roberts-Pichette, Executive Secretary Canada/MAB, reported that the MAB committee met for the first time in five years last January. Among other issues, there is active consideration of biosphere reserves.

6. Canadian Forest Service

Dr. John Huber, on behalf of Dr. Ben Moody, reported that the Canadian Forest Service has set up a Biosystematics Working Group to look at the needs in forestry for systematics. An assessment of taxonomic needs in forestry for the next 2-5 years will be made, including evaluation of the existing systematic collections and resources and the directions of work. A number of relevant people have retired or will soon be retiring. The Canadian Forest Service intends to support the Federal Biosystematics Partnership.

7. Parasitology module, Canadian Society of Zoologists

Dr. David Marcogliese reported on ongoing projects. The parasitology module is developing the EMAN protocols for inventorying parasites. The Directory of Parasitologists is now on the web and [<http://www.biology.ualberta.ca/parasites/module.htm>]. Dr. Marcogliese reported on some other publications, funding and initiatives of interest to the Committee.

Secretariat activities

Ongoing operations of the Biological Survey Secretariat were reviewed, including coordination, research and other roles, and travels to entomological centres on behalf of the Survey to exchange information about relevant work and to present seminars and lectures.

Other items

1. Reports on regional developments of potential interest

Relevant information from different regions of the country was summarized. In British Columbia several important workshops or symposia have been held on forest themes. The University of British Columbia has announced that there will be no new or replacement positions until 2000; many retirements are forecast over the next few years, apparently without replacements. On the prairies, there are plans for a Prairie Ecozone assessment. The Provincial Museum of Alberta has plans for a very large expansion. Biodiversity monitoring in forestry has become a high profile issue. A rangeland ecology group with federal and provincial agriculture departments and other partners has been established. Dr. Felix Sperling has accepted a position in the Department of Biological Sciences at the University of Alberta. In Ontario, several current projects in biodiversity at various places in the province, including graduate students and others, were reviewed. A new biodiversity discovery gallery at the Royal Ontario Museum will incorporate elements from four different forest systems in Ontario. In Quebec, an entomological study of the Mont St Hilaire biosphere reserve will be started this summer with several cooperators. The Redpath Museum has received a grant from the Quebec government to set up an internet database on Quebec biodiversity. In Newfoundland, construction of the long-awaited Newfoundland insectarium has started at Deer Lake.

2. Other matters

We also considered the Biological Survey Foundation, the annual report to the Canadian Museum of Nature, the Biological Survey web site (<http://www.biology.ualberta.ca/esc.hp/bschome.htm>), and liaisons with other organizations and agencies.

International Commission on Zoological Nomenclature

Applications published in the *Bulletin of Zoological Nomenclature*

The following Applications were published on 30 June 1998 in Vol. 55, Part 2 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 3039 *Thamnotettix nigropictus* Stal, 1870 (currently *Nephotettix nigropictus*; Insecta, Homoptera): proposed conservation of the specific name

M.R. Wilson

Department of Biodiversity and Systematic Biology, National Museums and Galleries of Wales, Cardiff CF1 3NP, U.K. (e-mail: Mike.Wilson@nmgw.ac.uk)

Abstract. The purpose of this application is to conserve the specific name of *Nephotettix nigropictus* (Stal, 1870), an Asian cicadellid leafhopper which is a vector of virus diseases of rice. *Pediopsis nigromaculatus* Motschulsky, 1859 has been identified as a senior synonym of *N. nigropictus*, but its introduction would cause confusion in the extensive economic literature and its suppression is proposed.

Keywords. Nomenclature; taxonomy; Homoptera; CICADELLOIDEA; *Nephotettix nigropictus*; *Pediopsis nigromaculatus*; leafhoppers; rice pests.

Case 3040 *Cicada clavicornis* Fabricius, 1794 (currently *Asiraca clavicornis*; Insecta, Homoptera): proposed conservation of the specific name

M.R. Wilson

Department of Biodiversity and Systematic Biology, National Museums and Galleries of Wales, Cardiff CF1 3NP, U.K. (e-mail: Mike.Wilson@nmgw.ac.uk)

M. Asche.

Museum für Naturkunde, Zentralinstitut der Humboldt Universität zu Berlin, Invalidenstrasse 43, D-10115 Berlin, Germany. (e-mail: Manfred=Asche@museum.hu-berlin.de)

Abstract: The purpose of this application is the conservation of the specific name of the widely distributed delphacid planthopper *Asiraca clavicornis* (Fabricius, 1794), the type species of *Asiraca* Latreille, [1796]. It has recently been suggested that *Cimex aequinoctialis* Scopoli, 1763 and *Cicada quadristriata* Gmelin, 1790 are senior synonyms of *A. clavicornis*, and that the former should be adopted; however, the introduction of either of these unused names would disturb the settled nomenclature of more than 200 years and their suppression is proposed.

Keywords. Nomenclature; taxonomy; Homoptera: DELPHACIDAE; *Asiraca clavicornis*; *Cimex aequinoctialis*; planthoppers.

Case 3068 *Musca rosae* Fabricius, 1794 (currently *Psila* or *Chamaepsila rosae*; Insecta, Diptera): proposed conservation of the specific name

Peter Chandler

43 Eastfield Road, Burnham, Slough, Berkshire SL1 7EL, U.K.

Abstract. The purpose of this application is the conservation of the specific name of *Psila* (or *Chamaepsila*) *rosae* (Fabricius, 1794). This name has been in universal use for more than 200 years for the carrot fly (family PSILIDAE), which is an economically serious pest of carrots and other crops. It has no synonyms, but is a junior primary homonym of *Musca rosae* De Geer, 1776, which is an invalid junior synonym of *Scaeva pyrastris* (Linnaeus, 1758) in the SYRPHIDAE and has always been treated as such. The new name *Chamaepsila hennigi* Thompson & Pont, 1994 was put forward to replace *rosae* Fabricius because of the homonymy, but this name has not been used and its introduction would cause confusion in the economic and taxonomic literature.

Keywords. Nomenclature; taxonomy; Diptera; PSILIDAE; *Psila*; *Chamaepsila*; *Psila rosae*; *Chamaepsila rosae*; *Chamaepsila hennigi*; carrot fly.

Opinions published in the *Bulletin of Zoological Nomenclature*

The following Opinions were published on 30 June 1998 in Vol. 55, Part 2 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: iczn@nhm.ac.uk).

OPINION 1898. *Metaphycus* Mercet, 1917 (Insecta, Hymenoptera): given precedence over *Aenasioidea* Girault, 1911

Young Entomologists' Society Websites

Come Visit Us on the Internet! The Young Entomologists' Society now has a total of six websites online. Each site features a wealth of resource information (text, images and links), and all but one are available as free resources to interested minibeast enthusiasts. Please feel free to stop by and check them out yourself! We welcome linkages with other similar sites. Also, we would be most grateful if you could help spread the word about these valuable educational websites. Thank you.

IMPORTANT NOTICE: This message may be sent from a variety of e-mail accounts, but only **YESbugs@aol.com** is monitored for incoming e-mail. Please use **THAT ADDRESS ONLY** when writing to us (don't use auto-response).

Y.E.S. Homepage (<http://insects.ummz.lsa.umich.edu/yes/yes.html>) - information on membership, publications and services.

Minibeast World of Insects and Spiders (<http://members.aol.com/YESedu/welcome.html>) - information on insects and spiders for kids and educators (minibeast virtual museum, teacher's tower, research library, butterfly gardening, youth center, and links).

Minibeast Merchandise Mall (<http://members.aol.com/YESSales/minimall.html>) - an online catalog of educational materials and gifts relating to minibeasts; listing of outreach services; special science olympiad section; and resource center.

Tiger Beetle World (<http://members.aol.com/YESedu/tigerbtl.html>) - information on tiger beetles of North America (biology, ecology, identification, techniques for study, research library, resources, cicinophile directory, and links).

Dragonfly for Michigan State Insect Website (<http://members.aol.com/YESnetwk/index.html>) - find information on the green darner dragonfly and the status of the campaign to make it Michigan's state insect.

Member's Clubhouse and Resource Center (by password only) see preview at any of the above sites.

Good news for the ESQ

The last meeting of Entomological Society of Quebec held at Saint-Jean-sur-Richelieu, Qc, 6-7 November 1997 smashed several records. The organization team was led by nematologist Guy Bélair and the Symposium has been organized by entomologist Charles Vincent, both scientists at AAAC/Saint-Jean-sur-Richelieu, Qc. A total of 180 participants attended the meeting, i.e. 80% of the active membership (the ESQ have ca. 225 members). The event generated several thousand dollars in profits, the highest profit in ESQ history.

The Symposium entitled "*Les biopesticides*" featured the following program.

Introduction: Pourquoi les Biopesticides ?

(Charles Vincent, AAAC, Saint-Jean-sur-Richelieu)

Développement de bioinsecticides à partir de plantes indigènes à l'Amérique du Nord

Hélène Chiasson (Groupe HC/ McGill University)

Développement de bioinsecticides à partir de plantes indigènes à l'Afrique

John Arnason et Bernard Philogène (University of Ottawa)

Le *Bacillus thuringiensis*

Jean-Charles Côté (AAAC, Saint-Jean-sur-Richelieu)

Développement de biopesticides en foresterie au Canada

José Valéro (CFL, Ste Foy)

Développement d'insecticides viraux en Afrique

Jacques Drolet et Imme Gerke (BioTEPP)

Développement d'insecticides viraux en agriculture au Canada

S. Belloncik (Institut Armand Frappier)

Bioinsecticides à base de champignons entomopathogènes

S. Todorova (UQAM)

Développement d'insecticides viraux en agriculture en Suisse

Martin Andermatt (Andermatt Laboratories, Suisse)

Biopesticides ayant des effets insecticides et fongicides

Jacques Brodeur (Université Laval)

Biopesticides: point de vue d'un producteur biologique

Alain Désilets (Ferme 4 vents)

L'homologation de biopesticides au Canada

Wendy Sexsmith (Pest Management Regulatory Agency, Ottawa)

The proceedings will be published in 1998 as a special issue of "*Antennae*", under the editorship of Charles Vincent.

To be announced: Colloque intitulé "*La multidisciplinarité en recherches biologiques*", dans le cadre du Congrès de l'ACFAS, Université Laval, Qc 12 mai 1998. Co-organisateurs Charles Vincent (AAAC/Saint-Jean-sur-Richelieu), Bernard Philogène (Université d'Ottawa) et Josiane Paré (Université Picardie Jules Verne)

PERSONALIA

ESC Fellowship Awarded to Dr. Guy Boivin

The Governing Board of the ESC has approved the nomination of Dr. Guy Boivin as a Fellow of the *Entomological Society of Canada*. This award recognizes both his notable service to the Society as well as his contributions in applied entomological research in Canada.

Guy Boivin a gradué du Collège Macdonald de l'Université McGill en 1981 et fut engagé la même année comme chercheur à la Station de Recherche (maintenant le Centre de Recherche et de Développement en Horticulture) d'Agriculture et Agroalimentaire Canada à Saint-Jean-sur-Richelieu. Il est également professeur associé à l'Université McGill et à l'Université de Montréal. Le Dr. Boivin a également été professeur invité à l'Université de Rennes, France, et à l'Université Catholique de Louvain, Belgique, pour y enseigner.

Les recherches du Dr. Boivin portent sur l'écologie comportementale des parasitoïdes, la génétique des populations et sur l'utilisation des parasitoïdes en lutte biologique. Son laboratoire compte une douzaine d'assistants de recherche, de techniciens et d'étudiants gradués. Le Dr. Boivin a publié jusqu'ici une centaine d'articles scientifiques et une dizaine de livres ou de chapitres de livres. Il a été Président de la *Société d'Entomologie du Québec* (1992-93), de la *Société d'Entomologie du Canada* (1995-96) et rédacteur-en-chef de la revue *Phytoprotection* (1985-90). Il a également servi sur plusieurs comités du FCAR, CORPAQ et CRSNG. Il a reçu le Prix Léon Provencher (1985) de la SEQ, le Prix C. Gordon Hewitt (1988) de la SEC et le Prix Agcellence (1995) d'Agriculture et Agroalimentaire Canada.

Guy Boivin graduated from Macdonald College of McGill University in 1981 and was hired that year as a research scientist at the Research Station (now the Horticultural Research and Development Center) of Agriculture and Agri-Food Canada at Saint-Jean-sur-Richelieu. He is also an adjunct professor at McGill University and the Université de Montréal. Dr. Boivin has also been an invited professor at the Université de Rennes, France, and the Université Catholique de Louvain, Belgium.

Dr. Boivin's research interests deal with the behavioral ecology of insect parasitoids, population genetics and the use of parasitoids in biological control programs. A dozen research assistants, technicians and graduate students work in his laboratory. Dr. Boivin has published over a hundred scientific papers and about ten books or book chapters. He has been President of the *Entomological Society of Quebec* (1992-93), of the *Entomological Society of Canada* (1995-96) and Editor of the scientific journal *Phytoprotection*

(1985-90). He has also served on several committees of the FCAR, CORPAQ and NSERC. He received the Prix Léon Provencher (1985) of the ESQ, the C. Gordon Hewitt Award (1988) of the ESC and the Agcellence Award (1995) of Agriculture and Agri-Food Canada.

INSECT EXPERT HONORED AS ONE OF USDA'S BEST SCIENTISTS OF '97

WAPATO, Wash., Dec. 3 - David R. Horton, a U.S. Department of Agriculture entomologist at the Yakima Agricultural Research Laboratory here, will be one of 16 top scientists honored Dec. 10 in a ceremony in Beltsville, Md.

"Dr. Horton has done pioneering work on the behavior and ecology of the pear psylla and the Colorado potato beetle," said Floyd P. Horn, administrator for USDA's Agricultural Research Service. Psylla is the major insect pest of pears in this country. The Colorado potato beetle can be a serious problem in both U.S. and European potato fields.

Horton is Early Career Scientist of the Year for ARS' Pacific West Area. The area includes agency laboratories in Arizona, California, Hawaii, Idaho, Nevada, Oregon, Utah and Washington. As one of eight "early career" scientists of the year, Horton receives a plaque, cash award and additional research funding. "Early career" awardees have done research of potentially major impact while being with ARS less than 7 years and having received their highest academic degrees in the last 10 years. Horton became a research scientist with ARS in 1995.

Horn said Horton's research with insect growth regulators had led to increased understanding of their effects against pear psylla and to improved strategies for their use. Horton works closely with local grower groups to transfer the lab's newest research findings. Horton also developed a laboratory test to quickly screen potato varieties for resistance to the Colorado potato beetle. The test is simple and can replace tedious, labor-intensive in-field trials.

Horton is recognized as a leader in insect ecology and control. He has authored or coauthored 37 scientific publications. He is a member of the Entomological Society of America, Ecological Society of America, Society for the Study of Evolution, American Society of Naturalists, Entomological Society of Canada and Pacific Coast Entomological Society. He received his B.S. and M.S. degrees in entomology in 1978 and 1984 from Humboldt State University, Arcata, Calif. He received his Ph.D. in 1987 from Colorado State University, Fort Collins.

Horton resides in Yakima, Wash., and is a native of West Covina, California

POSITION AVAILABLE

Post-Doctoral Position: Insect reproductive physiology. Two-year post-doctoral position immediately available to study physiology of reproduction in male insects. Stipend will be based on NSERC Canada rate (currently CAN\$22,900-29,000). For more information, contact Dr. Cedric Gillott, Department of Biology, University of Saskatchewan, 112 Science Place, Saskatoon, SK S7N 5E2; PHONE (306) 966-4401, FAX (306) 966-4461, e-mail gillott@duke.usask.ca.

MEETING

The *Canadian Forum for Biological Control* will be holding a workshop and its AGM in concert with ESC's meeting in Quebec City. For information, please contact: Dr. Kenna MacKenzie, Berry Crop Entomology, Atlantic Food & Horticulture Research Centre, Agriculture & Agri-Food Canada, 32 Main Street, Kentville, Nova Scotia, B4N 1J5 Canada. Tel: (902) 679-5731 Fax: (902) 679-2311 e-mail: mackenziek@em.agr.ca

PUBLICATIONS

Diagnostic System

This note announces the public release of "*Douglas-fir Cone and Seed Insect Diagnostic System*" -- an electronic, interactive, knowledge base system accessible through the World Wide Web". This system was developed by Acquired Intelligence Inc. of Victoria, British Columbia with input from the BC Forest Service, Canadian Forest Service and Agriculture and Agri-Food Canada and the financial assistance of Forest Renewal BC. Please visit this site at: <http://www.vvv.com/ai/pests/pests.htm>

"*Douglas-fir Cone and Seed Insect Diagnostic System*" was designed to enable researchers, orchard managers and technicians, seed dealers, and other field workers to accurately identify damaging insects associated with Douglas-fir cones and seeds. The system assumes the user has a basic understanding of Internet usage, conifer cones and seeds, and is in the process of evaluating a developing or matured cone crop. It works by prompting the user to choose answers to a series of questions starting from general (What stage is the crop at?) to increasingly specific (reasonably easy to observe characteristics of damage and/or insects in/on the cones). After the final question is answered a conclusion screen is reached which supplies an identification of the insect(s) you may be dealing with and more detail to help confirm the identification. Double clicking on photos in conclusion screens will enlarge them to full screen size. Conclusion screens are linked to a general BC Ministry of Forests cone and seed insect web site, still under development by Seed Pest Management, which will (when completed) provide up-to-date details on biology, current research, and management of the identified insects.

PLEASE NOTE: The "*Douglas-fir Cone and Seed Insects*" knowledge base web site is complete. However the BC Ministry of Forests cone and seed insect web site to which a conclusion maybe linked is still being developed. The information included in the Ministry web site has not been edited or reviewed. With this in mind, please remember that there are two systems here and two web sites -- the Douglas-fir Cone and Seed Insects knowledge base web site and the BC Ministry of Forests cone and seed web site.

We welcome your comments on the "*Douglas-fir Cone and Seed Insect Diagnostic System*" knowledge base web site. If your comments relate to specific conclusions please include the alphanumeric identifier for the conclusion screen (e.g., F3, MS11, MH64) or the "Summary Session" information from the bottom of the conclusion screen so that we can replicate the path that you have taken. All comments should be forwarded to Dr. Robb Bennett at Robb.Bennet@gems6.gov.bc.ca with copies to Dr. Leland Humble at lhumble@pfc.forestry.ca and Dr. Beverly Smith at bev@aiinc.bc.ca.

THE ODONATA OF CANADA & ALASKA

by Walker & Corbet

The Toronto Entomologists' Association (T.E.A.) announces that it is now taking prepaid orders for a one-time reprinting of these volumes (3-volume set). These are not photocopies but a true reprinting - the interior pages are the same quality as the original book, on acid-free paper; the cover is a deluxe-quality hardcover. The cost for all 3 volumes is: In Canada \$196 Can. (includes gst and shipping via surface post); In USA \$145 US (includes shipping via surface post). Please inquire for international or airmail rates. Orders must be PREPAID (personal cheques are accepted for US or Canadian orders; money or postal orders only for others) and received by June 10, 1998. Unfortunately, single volumes are not available. Please send your order to T.E.A. c/o Alan Hanks, 34 Seaton Drive, Aurora, Ontario Canada L4G 2K1, Tel: (905) 727-6993; or e-mail inquiries to: nmg.vanderpoorten@sympatico.ca.

Nancy and Michael van der Poorten
164 Morse St., Toronto, Ontario, Canada M4M 2P8

New Publication: *The Biology of Camel-Spiders (Arachnida, Solifugae)* by Fred Punzo. For more information contact: cschmieg@wkap.com

SCHOLARSHIPS AND GRANTS

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

Preamble

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

Eligibility

To be eligible, a student must:

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

Format of the Application Form

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

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

Evaluation Procedure

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

Timetable and Application Procedure

Application forms, which may be obtained from the Secretary of the Society, must be completed and returned to the Secretary of the Society by **15 January 1999**. The committee will evaluate all applications by 30 April 1999 and determine if, and to whom, grants will be awarded. The successful applicants will be informed immediately, thereby providing sufficient time for students wishing to start in the fall to make necessary arrangements. Grants must be used in the 12 months following the award.

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

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

Préambule

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

Éligibilité

Afin d'être éligible, l'étudiant doit:

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

Format du Formulaire de Demande

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

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

Évaluation

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

Échéances et Procédures

Les formulaires de demande, qui peuvent être obtenus du Secrétaire de la Société, doivent être remplis et retournés pour le **15 janvier 1999** au Secrétaire de la Société. Le comité évaluera toutes les demandes pour le 30 avril 1999 et déterminera si, et à qui, les bourses seront décernées. Les candidats choisis seront contactés immédiatement, cela afin d'allouer suffisamment de temps pour les préparatifs nécessaires à un départ possible à l'automne. La bourse doit être utilisée dans les 12 mois suivant l'octroi.

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

MISCELLANEOUS



NORTH AMERICAN BUTTERFLY ASSOCIATION

4 Delaware Road, Morristown, NJ 07960 tel. 201-285-0907 fax 201-285-0936

THE NABA-XERCES FOURTH OF JULY BUTTERFLY COUNT, 1998

The 24th annual NABA-Xerces 4th of July Butterfly Count will be held this summer. These counts are fun-filled but also track the butterfly populations of North America. Volunteers select a count area with a 15-mile diameter and conduct a one-day census of all butterflies sighted within that circle. These counts are usually held in the few weeks before or after the 4th of July.

The North American Butterfly Association (NABA) organizes the counts and publishes their annual reports. These reports provide important information about the geographical distributions and population sizes of the species counted. Comparisons of the results over the years monitor changes in butterfly populations and reveal effects of weather and habitat change on the different species. In some years the butterfly count shows dramatic changes in butterfly populations, while other years indicate little fluctuation in butterfly numbers. Either way, the butterfly counters are always curious about what next year's results will be!

No matter how much or how little butterfly watching you've done, the results of butterfly counting can be surprising and interesting. If a count already exists in your area, please join them for a day of fascinating butterfly counting. If there is no count in your area, you may start your own if you know how to identify the butterflies. Otherwise, inspire a nature center or butterfly club to start one for you!

For more information on the count program, counts in your area, how to conduct a count, and NABA, please consult NABA's webset at www.naba.org, or send a self-addressed, stamped business envelope to:

NABA
4 Delaware Road
Morristown, NJ 07960
U S A

Insect Pins for Sale

Black Enameled, sizes 000 - 7Can \$ 27.00 per 1000

Stainless Steel, sizes 000 - 7\$ 40.00 per 1000

Contact: Petr Hrabovsky, Entomoravia, Slovanska 1074, 684 01 Slavkov u Brna, Czech Republic
Tel: 420 544 221 159 ; Fax: 420 544 220 873

NET SHOVEL AND AXE

THE SUNDAY REVIVAL MEETING

"We have to check our plots, even though it's Sunday," said Jason to John. "Let's go right after dinner and we can take our wives with us. They haven't seen the country and a bit of a trip may be just what they need on this nice day."

The two entomologists had set out their experimental plots in some isolated alfalfa fields north of Nipawin, Saskatchewan. Here they were testing various chemicals to determine the best insecticide to use for the control of noxious alfalfa insects. Because they had applied the spray on a Thursday, and they had examined the plots on Friday to assess the one-day effect, the three-day assessment had to be made on a Sunday.

The entomologists had been away from their home base of the Dominion Entomological Laboratory, Saskatoon, Saskatchewan for most of the summer so their wives had taken the bus to Nipawin to be with their husbands for at least one week-end before summer passed them by. And if "the boys" had some work to do on a Sunday, so be it. They would be glad to join them on their safari to the plots; at least they could enjoy the ride in the country.

They left right after lunch and had completed their assessment of chemical effectiveness on the plots by early afternoon. "Let's take a short-cut back to Nipawin," proposed John. "We must show the girls some of the boondock country that we have to work in. I'm not sure of the exact route but we can't get lost if we keep on heading south." So off they went. The road soon dwindled down to a trail that led around bluffs of trees and through some small stands of spruce and poplar.

The trail entered a dense forest and after winding hither and yon and between large spruce trees, they suddenly emerged into a large clearing. They didn't know what to expect but here was something entirely different. The entire clearing was occupied by chanting, singing people, some standing, others sitting, but all involved in a mass religious revival festival. When John stopped the car they were immediately surrounded by a boisterous, smiling and chanting crowd. The car doors were opened and the occupants were literally dragged from within and invited to join in the celebration.

There was nothing the four "strangers" could do but acquiesce to the crowd's demands. For the next two hours they joined in the singing of hymns, wild chanting, and fervent prayers, as well as listening to a hell-and-brimstone sermon delivered by a wild-eyed, gaunt, cadaverous-looking evangelist. By dint of sheer brassiness the four intruders finally forced their way to the outer perimeter of the crowd. This was followed by a quick dash for the car and a hasty retreat from the frenetic antics of the assembled throng.

When they finally got to Nipawin, Jason ventured the comment: "You girls will have to come and visit us more often. We haven't had such fine entertainment, nor such exciting experiences since we came here in early May. It's good for your soul!" A swinging handbag aimed at one's head by an irate wife can almost be classified as a dangerous weapon!

Contributed by Paul Rieght

THE WALDORF FLEABAG

A soft crackling sound filtered through to his drowsy mind; a sound very much like seeds or beads being dropped onto paper. Jason lay still in his bed, listening intently now that he had come fully awake. What was the noise? Fire?

He had checked into the local hotel in Meadow Lake, Saskatchewan, after a day's work checking the fields for insect damage in this north-western area of the province. The room he had been given appeared to be clean and habitable although the hotel was old and shabby and had valiantly withstood the travails of time, use and weather. He had not noticed anything unnatural or out of place when he checked in and had gone to bed weary of body and hoping for a good night's sleep.

As soon as he had turned out the light and had snuggled comfortably under the covers, he became aware of a faint rustling sound. At first, he had not paid any attention to it for he was tired and sleep was uppermost in his mind. However, when a crackling sound was added to the rustling, his senses alerted him to full wakefulness. Was this the beginning of a fire in the hotel? No smell of smoke was evident but the soft crackling continued.

Jason tossed back the covers, jumped out of bed and turned on the light. He opened the door, peered out into the corridor but saw and smelled nothing. "Must be my imagination," thought the entomologist. "I must be tired enough to be hearing things. Better get back to bed."

As he approached the bed he saw a few black "things" on the sheets where these had been exposed as he threw back the covers. Then he noticed that the black spots were moving; they were alive! "Jumpin' Jehosephat," exclaimed the man as he examined them more closely. "They're bedbugs.!"

Glancing around him he thought he saw more of the creatures on the walls; even on the floor. He examined the walls and found that where the wallpaper had come unglued, the small insects were huddled in packed numbers beneath the paper. Those that had appeared on his bed had fallen from the ceiling where they had been hiding in the dark cracks of the plaster. More loose wallpaper and many more bedbugs were present on the wall at the head of his bed. He was surrounded by the insects and he was sure they would "get" him as soon as the lights were out.

Jason pulled the bed away from the wall and into the centre of the room. Then he carefully examined the bed-clothes to remove any and all (he hoped) bugs that he found there. He got back into bed and pulled the covers up over his head. How else was he to get some sleep except in a brightly lit room? He was not about to turn off the lights and be fed upon by bedbugs under cover of darkness. He slept well and moved out early the next morning.

Contributed by Paul Riegert

THE LEADER RATTLESNAKES

"Better keep my eyes and ears open for rattlesnakes. It's a bit early for the snakes to migrate back to their dens near the banks of the South Saskatchewan River, but a bit of caution is always in order here." So thought Jason as he trudged through the tall wheat in a field near Leader, Saskatchewan. His inspection of the crop was part of the annual grass-hopper abundance survey in the southwestern part of the province.

As he walked slowly through the crop, about a hundred feet from the edge of the field, something suddenly wrapped itself around his left foot and lower leg. The thought of snakes galvanized him into instant action. The next thing he recalled was his standing on the road behind the car. How he got there he could not tell, but it happened in a twinkling. His return to the road would have put an Olympic sprinter to shame!

His heart still pounded wildly and his lungs laboured intensely as he sucked in great, convulsive breaths of air. He looked down to where the unknown object was still wrapped around his leg. When he lifted his foot a coiled length of barbed wire dropped onto the roadbed.

Contributed by Paul Riegert

**ENTOMOLOGICAL SOCIETY OF CANADA
LA SOCIÉTÉ D'ENTOMOLOGIE DU CANADA**

393 Winston Ave., Ottawa, Ontario K2A 1Y8

**Application for membership - (new members only)
Demande d'adhésion (nouveaux membres seulement)**

Name and Address (please print):

Nom et Adresse (lettres moulées):

telephone (bus.) / téléphone (au travail):

Fax:

Electronic mail address / Adresse électronique:

Keywords describing interest (up to six):
Décrivez vos intérêts en utilisant jusqu'à
six mots clés.

Membership is a personal affiliation; publications are the personal property of the individual member. Membership is on a calendar year basis.

Cotisation est une affiliation personnelle; publications payées ici appartiennent à l'individu. La cotisation des membres s'applique à l'année civile.

MEMBERSHIP DUES / COTISATION

Regular member / Cotisation régulier with/avec...Cdn \$80.00 + \$5.60 GST (Can)\$.....

The Canadian Entomologist & Bulletin US\$74 (\$100 Cdn) (U.S.A. & Int'l)

or/ou with Memoirs/avec Mémoires, The CanadianCdn 100.00 + \$7.00 GST (Can)\$.....

Entomologist & Bulletin US\$90 (\$120 Cdn) (U.S.A. & Int'l)

Student member / Cotisation étudiant with/avec...Cdn \$20.00 + \$1.40 GST (Can)\$.....

The Bulletin US\$18 (\$25 Cdn) (U.S.A. & Int'l)

or with/ou avec The Canadian Entomologist & Bulletin...Cdn \$40.00 + \$2.80 GST (Can)\$.....

US\$36 (\$45 Cdn) (U.S.A. & Int'l)

(ask your professor to endorse this form/demande l'appui de votre professeur)

Endorsement/Signature du professeur

Enclose cheque or money order (or use Mastercard or VISA) payable to : Entomological Society of Canada

Inclure un chèque ou mandat (ou utilisez Mastercard ou VISA) payable à : Société d'Entomologie du Canada

If you need an official receipt, please check:

Please copy and distribute to interested non-members. Thankyou.

**ENTOMOLOGICAL SOCIETY OF CANADA - 1998
LA SOCIÉTÉ D'ENTOMOLOGIE DU CANADA - 1998**

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