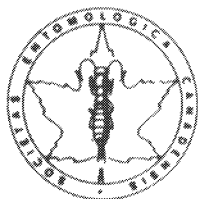

ENTOMOLOGICAL SOCIETY OF CANADA

Bulletin



SOCIÉTÉ ENTOMOLOGIQUE DU CANADA

Vol. 16

March - mars 1984

No. 1



Entomological Society of Canada Société Entomologique du Canada

Bulletin

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H. J. Liu: Bulletin Editor

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GUEST EDITORIAL

Why Publish Where?

by
D.C. Eldt**

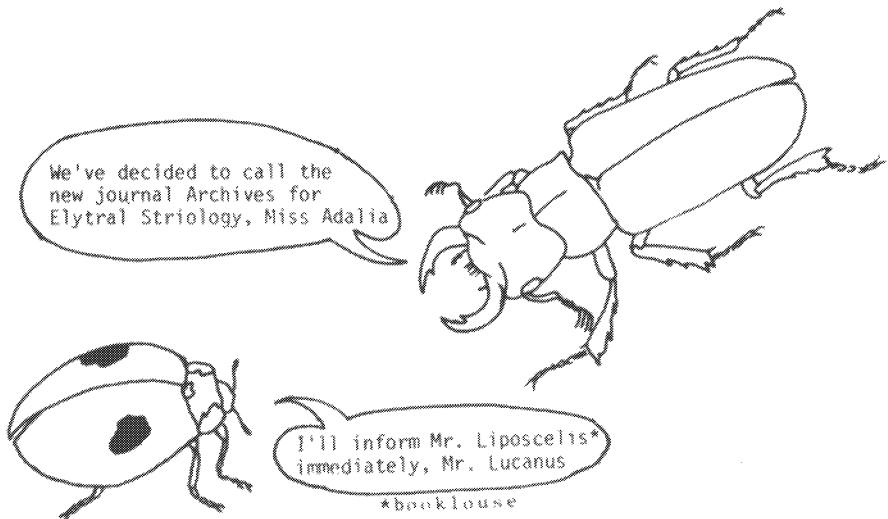
If the purpose of publication is, as I believe, to report research results and submit them to the scrutiny of one's peers, then where papers are published is extremely important. The choices are bewildering. I became acutely aware of this when I learned, as one of their members, that the North American Benthological Society is involved in a prolonged debate on whether or not it should launch a new journal.

What is benthology? The word hasn't even made it to authoritative dictionaries yet. Fisheries, entomological, botanical, genetic and umpteen other types of journals collectively include every conceivable subject that might go into the proposed NABS journal.

Similarly one might ask, what is entomology? When is it biometrics, genetics, chemistry, physiology, crop management, toxicology, ecology, limnology (even benthology) or something else? Is entomology an anachronism? Where should we draw the lines between disciplines?

The Entomological Society of America is considering six new journals under the umbrella title, *Journal of the Entomological Society of America*, to replace their existing three. A new journal, *Archives for Insect Biochemistry and Physiology*, was established by Alan R. Liss, Inc., in 1983, and new ones seem to appear every year. All these decisions are being made in the context of the publishers' interests with little, if any, consideration of the needs of entomology, or zoology, or biology as a whole. Journals have never originated by a systematic process and probably never will. Rather ironically, with modern efficient abstracting, it may not matter. Where one publishes may continue to depend on a combination of convenience, cost, coverage, circulation, or who is willing to accept the manuscript.

Perhaps it's time that entomologists, or preferably zoologists, or preferably biologists, or preferably scientists had a fresh look at worldwide science publishing and charted a few guidelines for the future.



**Scientific Editor 1978-1984, Maritimes Forest Research Centre, Fredericton, N.B.

GOVERNING BOARD MEETING

October 1-2, 1983
Sheraton Centre, Regina, Saskatchewan

Actions

The Governing Board approved the following Actions:

1. *Treasurer and Finance Committee*

- (1) Agreed to set up an Endowment Fund.
- (2) Approved purchase of a computer for the Society's business office.
- (3) Agreed to add a line to the list of expenditures in the Budget to show the transfer of funds to Investments.
- (4) Asked the Finance Committee to attempt to simplify the Society's financial reports.
- (5) Authorized the Treasurer to purchase the Annual Review of Entomology from Annual Reviews Incorporated and make it available at a discount to the Membership.

2. *Governing Board Expenses*

Agreed to retain the Board in its present form, and asked the Finance Committee to prepare guidelines for financial support of Board Members to attend Board Meetings.

3. *Publications*

- (1) Agreed to propose to the Membership a change in Standing Rule XII,2, that would provide for abstracts in French and English for all papers published in the Canadian Entomologist and Memoirs, and for abstracts in a third language if needed.
- (2) Agreed to inquire from NSERC whether ESC is on the list of organizations that NSERC contacts for nominations for positions on the NSERC Grant Review Committees.
- (3) Agreed to propose to the Membership a change in Standing Rule XII,6, that would increase the cost of reprints from the Canadian Entomologist and the Bulletin by 75%.
- (4) Reported that the search for a new Scientific Editor is continuing.
- (5) Agreed to recommend to the Membership a change in Standing Rule VIII,4(j) that would provide for 3-year appointment terms for Associate Editors, with the possibility of reappointment.
- (6) Approved measures to encourage sales of occasional publications of the Society.
- (7) Asked the Treasurer and Finance Committee to determine ways and means of expediting delivery of the Bulletin to members.
- (8) Agreed to ask the Membership, via the Bulletin, to respond to alternative editorial structures proposed by the Publications Committee.

4. *Papers from Banff Symposium*

Announced that arrangements are being made to publish papers from the Symposium "Economics of Entomological Effort" held at Banff in 1981.

5. *Regional Societies*

Increased annual grants to Regional Societies to \$200.00.

6. *Meetings*

- (1) Heard from R. H. Storch that plans for the 1984 Annual Meeting of ESC in St. Andrews, New Brunswick are well-developed.
- (2) Heard that Dr. D. Bright, Dr. A. Hudson and Dr. P. T. Dang are organizing the 1985 Annual Meeting to be held in Ottawa.
- (3) Heard from G. B. Wiggins that the BCC Congress will be held during June 23-29, 1985 in London, Ontario, with a symposium on the Biological Survey, other symposia, and submitted papers from ESC members.
- (4) Will arrange for a member of the Society, who is attending the 17th International Congress of Entomology in Hamburg, Germany in 1984, to act as a delegate for the Society; and arranged for an ad hoc Committee to investigate the possibility of organizing a charter air flight to the Congress.

- (5) Agreed to seek ratification from the Membership for approaching the Permanent Committee of the International Congresses, to extend an invitation to hold the 18th International Congress of Entomology in Canada.
7. *Science Policy*
 - (1) Approved the appointment by the Executive Council of a sub-Committee to study "Microbial Insecticides: their registration and use in agriculture, forestry and public and animal health."
 - (2) Agreed to maintain corporate membership in AASC (formerly SCITEC) in 1984.
 - (3) Asked G. G. Wiggins to publicize, via the Bulletin, the benefits of BCC to ESC.
 - (4) Adopted guidelines for nominations for BCC Gold Medals.
8. *Contract Research*
Approved guidelines for contract research.
9. *Membership*
 - (1) Asked the Finance Committee to evaluate the financial implications to the Society of separating membership from subscription to the Canadian Entomologist.
 - (2) Agreed to notify Active Members via the Bulletin that they should contact the Treasurer if they wish to become Emeritus Members.
10. *Scholarships*
Asked the Scholarships Committee to determine whether the size of ESC Scholarships could be increased in 1984.
11. *Insect Common Names*
Accepted the list of English Common Names of Insects prepared by the Insect Common Names and Cultures Committee, and asked the Committee to announce via the Bulletin that copies of the list are available to members for review.
12. *Entomological Stamps*
Decided to investigate the possibility of having entomological stamps produced.
13. *MacDonald Commission*
Agreed that the interests of the Society be represented to the Commission, either directly or via BCC.
14. *School Ties*
Agreed to make additional inquiries about purchasing ties with the ESC emblem.

GOVERNING BOARD MEETING

**October 5, 1983
Sheraton Centre, Regina, Saskatchewan**

Actions

1. *Executive Council*
Approved the Executive Council for 1983-84 as proposed: R. F. Morris, President; S. B. McIver, First Vice-President; H. F. Madsen, Second Vice-President; G. E. Ball, Past-President.
2. *Trustees*
Approved the Trustees for 1983-84 as proposed: E. C. Becker, Treasurer; D. C. Eidt, Scientific Editor; C. A. Miller, Assistant Scientific Editor; H. J. Liu, Bulletin Editor; B. K. Mitchell, Assistant Bulletin Editor; H. G. Wylie, Secretary.
3. *Committees and Representatives*
Approved Committees and Representatives for 1983-84 as proposed by the President; a list will be published in the Bulletin.

4. *Secretarial Assistance for First Vice-President*
Opposed providing financial support to the First Vice-President for secretarial assistance.
5. *Budget*
Approved a budget for 1984 as presented by the Treasurer.
6. *Scientific Committee of the Biological Survey*
Agreed to propose to the Members at the 1984 Annual General Meeting a Standing Rule Change which would make the Scientific Committee of the Biological Survey a Continuing Committee of the Society.
7. *Mid-Term Executive Council Meeting*
Agreed that the Meeting will be held in Ottawa in April 1984.
8. *Next Governing Board Meeting*
Announced that the next Governing Board Meeting will be held at the Algonquin Hotel, St. Andrews, New Brunswick on September 30 - October 1, 1984, during the joint ESC-AES Meeting.



Governing Board Meeting of October 5, 1983, Sheraton Centre, Regina, Saskatchewan. Seated, from left to right: E. C. Becker, J. M. Campbell, R. Harmsen, R. G. H. Downer, P.-P. Harper, J. A. McLean, R. F. Shepherd, R. H. Storch. Standing, from left to right: H. G. Wylie, H. F. Madsen, G. E. Ball, Ray F. Morris, S. B. McIver, D. C. Eidt, P. W. Riegert, H. J. Liu, J. A. Shemanchuk, A. D. Tomlin, T. D. Galloway, G. H. Gerber.

33rd ANNUAL GENERAL MEETING

October 4, 1983

Sheraton Centre, Regina, Saskatchewan

Minutes

President G. E. Ball called the meeting to order at 3:30 P.M. There were approximately 55 persons in attendance.

H. F. Madsen moved, R. H. Storch seconded that the Agenda be accepted as circulated. Carried.

1. *Notice of Meeting*
Notice of this Meeting was published in the Bulletin, volume 15, March 1983 and June 1983.
2. *Proxies*
None were received.

3. *Deceased Entomologists*

A minute of silence was observed in memory of R. H. Carcasson, G. S. Cooper, S. D. Hicks, J. B. Maltais, G. Stirrett, R. M. White and W. E. Whitehead.

4. *Minutes of the 32nd Annual General Meeting (1982)*

The Minutes were published in the Bulletin, volume 15, March 1983.

J. A. Shemanchuk moved, D. Craig seconded that the Minutes be accepted as published. Carried.

5. *Business arising from the Minutes.*

There was none.

6. *Report of the Governing Board*

President G. E. Ball presented a report, which will be published in the Bulletin.

J. A. McLean moved, A. D. Tomlin seconded that the President's report be accepted. Carried.

6.1 *Changes to Standing Rules*

H. G. Wylie read the proposed changes to Standing Rules.

Standing Rule VIII - Publications Committee - add to article 4(i)

The Committee shall appoint in consultation with the Scientific Editor, at least four Associate Editors from among the membership of the Society. *Associate Editors shall be appointed to three-year terms with the possibility of re-appointment.*

B. Philogène moved, R. H. Storch seconded that this change be accepted. Carried.

Standing Rule XII - Publications - add to article 2

The Society shall publish, and provide if necessary, abstracts in French and English for all papers published in the Canadian Entomologist and Memoirs as long as this does not substantially delay publication, and may publish abstracts in a third language if it be the language of a principal author or country in which the work was done.

H. Fredeen moved, J. A. McLean seconded that this change be accepted. Carried.

Standing Rule XII - Publications - change article 6

The cost of reprints from the Canadian Entomologist and the Bulletin, effective 1 January, 1984, shall be as follows:

Pages.....	1-4	5-8	9-12	13-16	17-20	21-24	25-28
First 100	\$60	\$86	\$115	\$149	\$193	\$238	\$292
Additional 100's ...	\$20	\$26	\$ 32	\$ 39	\$ 44	\$ 51	\$ 58

G. H. Gerber moved, D. C. Eidt seconded that this change be accepted. Carried.

Amendment: A. D. Tomlin moved, J. M. Campbell seconded that the change in article 6 be amended as follows:

The cost of reprints from the Canadian Entomologist and the Bulletin, effective for manuscripts received after 15 October 1983, shall be as follows:

(costs as shown in main motion)

The main motion as amended was carried.

6.2 *Report from BCC*

G. B. Wiggins presented a report from BCC.

7. *Auditor's Report*

E. C. Becker noted that the Auditor's Report was published in the June 1983 Bulletin, and that the Scholarship Fund Financial Statement was in the September 1983 Bulletin.

E. C. Becker moved, H. F. Madsen seconded that the Auditor's Report be accepted. Carried.

8. *Election Committee Report*

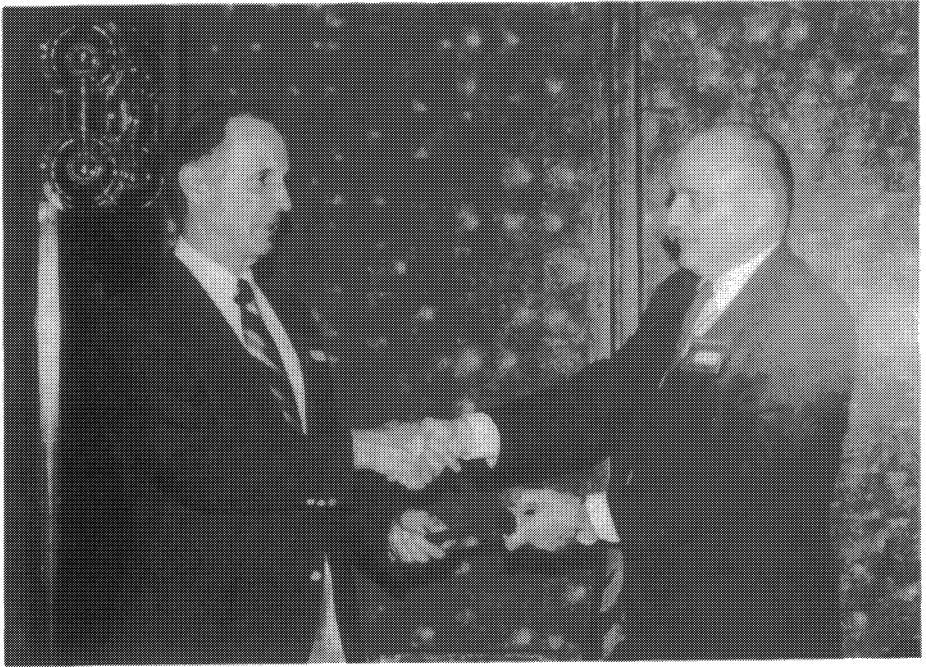
H. G. Wylie read the Election Committee Report. Those elected were:

For Second Vice-President	H. F. Madsen
For Directors-at-Large	R. G. H. Downer
	R. F. Shepherd
For Fellowship Selection Committee	J. H. Borden
	W. G. Friend

The proposed revision to the By-Laws was approved.

9. *Installation of New Officers*

President G.E. Ball turned the gavel and chair over to Ray F. Morris as incoming President of the Society. The new President thanked Dr. Ball for his service to the Society and asked him to escort the Second Vice-President, H.F. Madsen to the dais.



"Exchange of Power" . . . oops! . . . of the gavel, from G.E. Ball (right) to Ray F. Morris (left). Presidents of the Entomological Society of Canada. Regina, Saskatchewan, October 4, 1983.

10. *Service Awards*

R. F. Morris presented a Service Award to G. E. Ball, Past-President.

11. *Appointment of Auditors*

E. C. Becker moved, J. M. Campbell seconded that MacCay, Duff and Company be retained by the Society as auditors for 1983. Carried.

12. *Resolutions*

R. F. Morris asked A. D. Tomlin to present the following Resolutions on behalf of the Society.

1. Whereas the 33rd Annual Meeting of the Entomological Society of Canada, having met jointly with the Entomological Society of Saskatchewan at its 31st Annual Meeting, has enjoyed an outstanding program of information and stimulating scientific and social activities, and
whereas the success of this joint meeting has been due in a large part to the efforts and dedication of the Program Committee of the Entomological Society of Saskatchewan chaired by Dr. Paul Riegert and the Local Arrangements Committee chaired by Dr. F. W. Bellamy and Mr. J. L. Harris,
be it resolved, therefore, that the Entomological Society of Canada express its appreciation to the Entomological Society of Saskatchewan and commend its members who served on the Meeting Program and Local Arrangement Committees.
2. Whereas the opportunities offered by joint meetings of the Entomological Society of Canada and its affiliate societies promote better understanding of and solutions to problems of entomological nature common to all of Canada,
be it resolved, therefore, that the Entomological Society of Canada continue to participate in such meetings in the future.

3. Whereas the Sheraton Centre and its staff have provided excellent meeting rooms, organizational support, guest accommodation and courteous, efficient services for this meeting,
be it resolved, therefore, that the Entomological Society of Canada extend its appreciation to the Sheraton Centre and staff.
A. D. Tomlin moved, R. J. McClanahan seconded that the Resolutions be accepted. Carried.
13. *Other Business*
 - 13.1 *Nominations for Achievement Awards*
S. B. McIver urged Members to submit nominations for the Gold Medal and C. G. Hewitt Awards.
 - 13.2 *18th International Congress of Entomology*
H. G. Wylie read the following motion which was passed by the Governing Board on October 2 and for which the Board now seeks ratification from the Membership:
"that the President of the Entomological Society of Canada approach the Permanent Committee of the International Congresses of Entomology, to extend an invitation to hold the 18th International Congress of Entomology in Canada in 1988."
J. A. Shemanchuk moved, B. Philogène seconded that the motion be ratified. Carried.
 - 13.3 *Any other business*
In response to a question from D. C. Eidt, G. E. Ball reported that he is making additional inquiries about obtaining ties with the ESC emblem.
14. *Notice of 34th Annual General Meeting*
The meeting will be held at the Algonquin Hotel, St. Andrews, New Brunswick during September 30 - October 4, 1984.
15. *Adjournment*
A. D. Tomlin moved, E. C. Becker seconded that the Meeting be adjourned. The Meeting adjourned at 5:00 P.M.

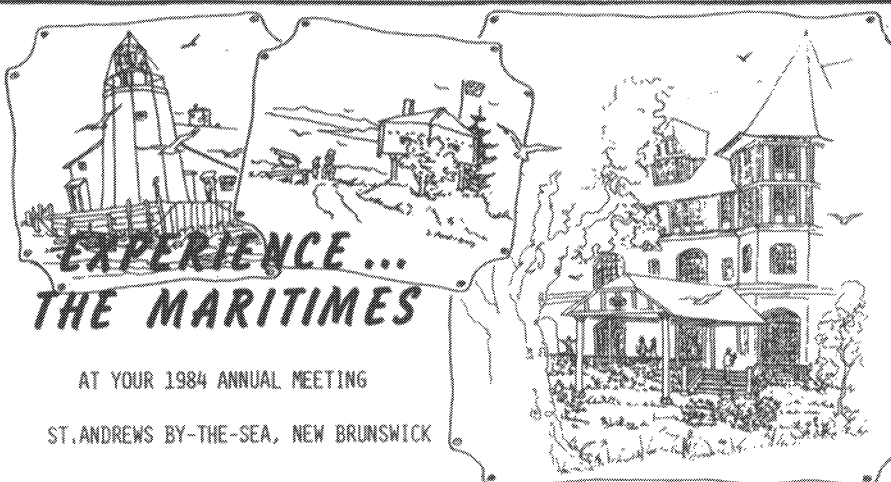
34th ANNUAL GENERAL MEETING

Notice

The Annual General Meeting of the Entomological Society of Canada will be held during the period October 2-4, 1984 at the Algonquin Hotel, St. Andrews, New Brunswick. The date and time will be announced in the June Bulletin.

Matters for the consideration of this meeting or of the Governing Board meeting, to be held on September 30 - October 1, 1984 at St. Andrews, should be sent to the Secretary, Dr. H. G. Wylie, Research Station, Agriculture Canada, 195 Daffoe Road, Winnipeg, Manitoba R3T 2M9.

La Réunion Annuelle d'Affaires de la Société Entomologique du Canada aura lieu durant la période du 2 au 4 d'Octobre 1984, dans l'Hôtel Algonquin, St. Andrews, New Brunswick. On annoncera le jour et l'heure dans le Bulletin de juin 1984. Ceux qui désirent soumettre des propositions pour cette Réunion ou au Conseil de Direction, voudront bien les envoyer à l'adresse donnée plus haut.



EXPERIENCE ... THE MARITIMES

AT YOUR 1984 ANNUAL MEETING

ST. ANDREWS BY-THE-SEA, NEW BRUNSWICK

OUR GET-TOGETHER AT THE ALGONQUIN
HOTEL IN ST. ANDREWS BY-THE-SEA
FROM 30 SEPTEMBER TO 4 OCTOBER
WILL BE AN EXPERIENCE IN ENTOMOLOGY
AND AN OPEN DOOR ADVENTURE TO
CANADA'S FUNDY COAST, EXPERIENCE
THE MARITIMES THIS FALL.

IT'S SOMETHING SPECIAL!

ESC

WE HAVE SOMETHING FOR YOU!

1984 ESC/AES ANNUAL MEETING PROGRAMME

SYMPOSIA

- * THE ENTOMOLOGICAL PERSPECTIVE
IN RESOURCE MANAGEMENT
- * RESOURCE MODELLING
- * ADVANCES IN BIOLOGICAL
CONTROL: A REVIEW
- * CHEMICAL CONTROL: STATE
OF THE ART
- * CURRENT ENDEAVOURS IN
POPULATION DYNAMICS
- * AQUATIC INSECTS OF
WETLANDS AND MARSHES

SHORT COURSES

- * MODELLING AND COMPUTERS
- * AERIAL SPRAY TECHNOLOGY

PAPERS & POSTERS

- * YOUR PERSONAL CONTRIBUTION;
CALL FOR PAPERS IN MAY

FIELD TRIPS & TOURS

- * BLUEBERRIES, FORESTS, WETLANDS
COASTAL ISLANDS

CONTACT: G. BOITEAU, AGRICULTURE CANADA, BOX 20280, FREDERICTON, N.B.
(506) 452-3260 E3B 4Z7

EXECUTIVE COUNCIL MEETING

Notice

The midterm meeting of the Executive Council will be held 24 and 25 April 1984 at the Embassy West Motor Hotel, 1400 Carling Avenue, Ottawa. Matters for consideration at the meeting should be sent to the Secretary, Dr. H.G. Wylie, Research Station, Agriculture Canada, 195 Dafoe Road, Winnipeg, Manitoba R3T 2M9.

NOMINATIONS

1984 Elections

Second Vice-President

B. J. R. Philogène
Department of Biology
University of Ottawa
Ottawa, Ontario
K1N 6N5

G. G. E. Scudder
Department of Zoology
The University of British Columbia
Vancouver, British Columbia
V6T 1W5

Directors-at-Large

C. Cloutier
Département de Biologie
Université Laval
Québec, Québec
G1K 7P4

G. Pritchard
Department of Biology
University of Calgary
Calgary, Alberta
T2N 1N4

D. M. Rosenberg
Freshwater Institute
Environment Canada
University Crescent
Winnipeg, Manitoba
R3T 2N6

Fellowship Selection Committee

S. R. Loschiavo
Agriculture Canada
Research Station
195 Dafoe Road
Winnipeg, Manitoba
R3T 2M9

J. E. McFarlane
Department of Entomology
Macdonald College
Ste. Anne de Bellevue, Québec
H9X 1C0

R. W. Stark
CANUSA-West
P.O. Box 3890
Portland, Oregon
U.S.A. 97208

Additional nominations from members must be submitted *not later than 30 April, 1984*, to the Secretary, Dr. H.G. Wylie, Agriculture Canada Research Station, 195 Dafoe Road, Winnipeg, Manitoba, R3T 2M9.

P. W. Riegert
J. A. Shemanchuk
G. E. Ball
(Chairperson, Nominating Committee)

POSTGRADUATE AWARDS 1984

Invitation for Applications

Entomological Society of Canada

The Entomological Society of Canada will offer two postgraduate awards of \$1,000.00 each to assist students beginning graduate study and research leading to an advanced degree in entomology. The awards will be made to men or women on equal terms on the basis of high scholastic achievement.

Eligibility. The successful applicants must be either Canadian citizens, or landed immigrants with Bachelor degrees from Canadian universities. Applicants must begin their first year of postgraduate studies in 1984. The studies and research must be carried out at a Canadian university. Each award is conditional upon certification by the Department Head that successful applicants have been accepted into the first year of a program of study and research for an advanced degree with full graduate status during 1984. A student who was unable to gain admission or enters a graduate school as a qualifying candidate is not eligible to receive an award.

Method of Application. Applicants should submit a properly completed form, with supporting documents, in accordance with the instructions printed on the application form. Applications must be received by the Secretary of the Society no later than *June 15, 1984*.

Process of Selection and Award Presentation. Applications are reviewed by a committee of the Society and announcement of the two winners will be made at the annual meeting of the Society and each winner will receive a certificate. Payment of the award will be made in January 1985.

Regulations

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

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

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

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

Dr. H. G. Wylie, ESC Secretary
Research Station, Agriculture Canada
195 Dafoe Road
Winnipeg, MB R3T 2M9

BOURSES POUR ÉTUDIANTS POST-GRADUÉS 1984

Avis

Société Entomologique du Canada

La société Entomologique du Canada offrira deux bourses d'un montant de 1000\$ chacune pour aider des étudiants(es) entreprenant des études universitaires post-graduées en entomologie. Les bourses seront accordées aux étudiants(es) en raison du seul critère de réussite académique.

Éligibilité. Les candidats choisis doivent être citoyens canadiens ou résidents reconnus du Canada avec un baccalauréat d'une université canadienne. Il est aussi obligatoire que les candidats commencent leur première année d'études post-graduées durant l'année 1984 et que les études et recherches soient faites dans une université canadienne. Chaque bourse ne sera accordée que lorsque le Directeur du Département aura certifié l'acceptation des candidats en première année d'un programme d'études et de recherches en vue de l'obtention d'un diplôme supérieur avec tous les privilèges rattachés au statut d'étudiants post-gradués. Un étudiant qui n'a pas pu obtenir son admission à une Ecole de Gradués ou qui s'inscrit en vue de compléter des études préalables à son admission à des études post-graduées n'est pas éligible pour recevoir une bourse.

Formalités de la demande. Les candidats devront soumettre leur candidature à l'aide du formulaire approprié et y ajouter tous les documents requis avec la formule de demande. Une telle demande devra être reçue par le Secrétaire de la Société au plus tard le 15 juin 1984.

Sélection et présentation des bourses. Le choix sera fait par un comité de la Société et l'annonce des deux candidats choisis se fera à la réunion annuelle de la Société où ils recevront une confirmation de leur choix comme boursier. L'envoi de la bourse se fera en janvier 1985.

Règlements

Autres sources de revenus. Un boursier pourra dans des circonstances normales donner des séances de cours ou de démonstrations jusqu'à un maximum de 200 heures par année pourvu que le Directeur de son département accepte ces tâches additionnelles et considère qu'elles n'iront pas à l'encontre du progrès de l'étudiant. Sauf pour des fins de démonstration et les jours de congé, un boursier devra consacrer, tout son temps à l'étude et à ses recherches et n'accepter aucune autre rémunération; il pourra cependant jouir d'une autre bourse ou d'un prix.

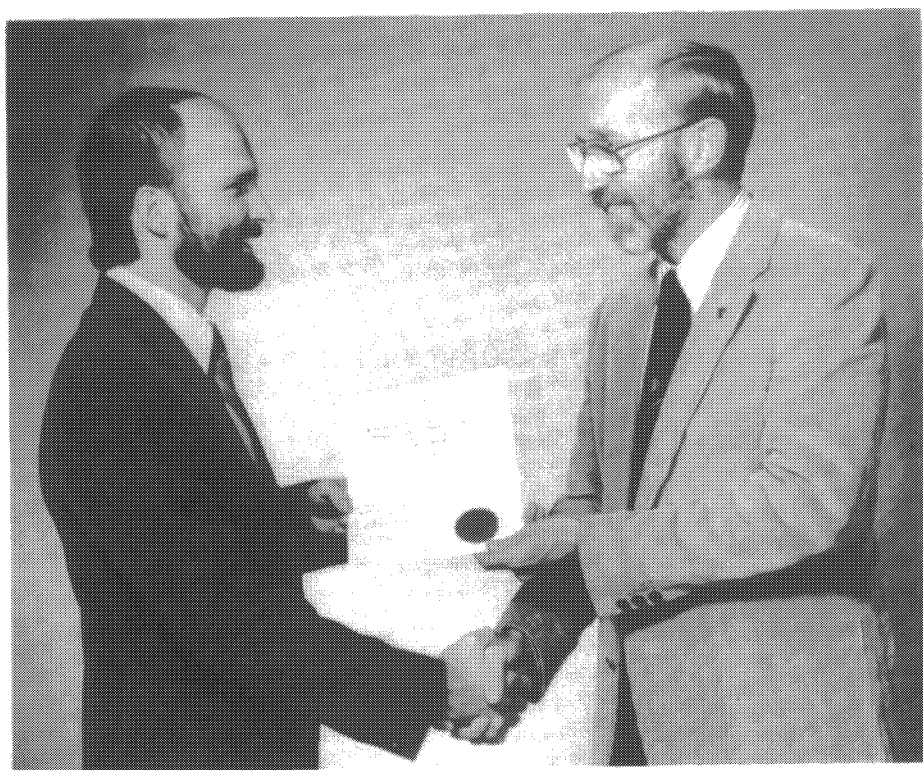
Transferts. Une bourse est accordée afin de poursuivre des études du 2e ou 3e cycle conduisant à l'obtention d'un diplôme universitaire supérieur en entomologie au Canada. Les boursiers qui décideront de changer d'orientation (autres disciplines que l'entomologie) ou de poursuivre les études à une université hors au Canada peuvent se voir retirer leur bourse. Après acceptation d'une bourse, tout changement dans le programme d'études ou transfert vers une autre université devra recevoir au préalable l'approbation du Comité de la Bourse de la SEC. Une telle demande, doit être accompagnée de documents provenant des directeurs des départements concernés.

Frais supplémentaires. Une bourse consiste en un montant total. Il n'y a pas d'autres formes de prix accordés par la Société. Des frais supplémentaires pour assister, par exemple, aux réunions scientifiques, ou pour frais de cours, publications, etc., ne sont acceptés pour aucune raison.

Toute correspondance relative à ces bourses et à l'obtention des formulaires de demande de bourse doit être adressée à:

Dr. H.G. Wylie, secrétaire SEC
Research Station, Agriculture Canada
195 Dafoe Road
Winnipeg, MB R3T 2M9

WINNERS OF 1983 POSTGRADUATE AWARDS



Richard J. Martin (left), Department of Biology, University of Waterloo, receiving the 1983 ESC Postgraduate Award from Roger G.H. Downer (right). Waterloo, Ontario.



Yves Bouchard (left), Département de biologie, Université Laval, receiving the 1983 ESC Postgraduate Award from G.E. Bail, Regina, Saskatchewan, October 4, 1983.

PERSONALIA

Ron Stark, program manager for the Canada/U.S. Spruce Budworms Program-West, received the Barrington Moore Memorial Award for 1983 in recognition of his biological research contributing to the advancement of forestry. The award was presented at a ceremony during the Annual Meeting of the Society of American Foresters in Portland.

Ronald J. Prokopy, professor of entomology at the University of Massachusetts at Amherst, is the 1983 recipient of the Entomological Society of America's J.E. Bussart Memorial Award. This award was established in 1965 and is sponsored annually by the Velsicol Chemical Corporation in Chicago. It is given to recognize and encourage outstanding economic entomological research in North America.

We congratulate these members of the Entomological Society of Canada.

BIOLOGICAL SURVEY OF CANADA (TERRESTRIAL ARTHROPODS)

Survey Report

The Scientific Committee met in Ottawa on October 13-14, 1983. Some highlights are summarized below; a fuller account of the meeting appears in the spring 1984 Newsletter of the Biological Survey of Canada (Terrestrial Arthropods).

Scientific projects

1. Illustrated keys to the families of arthropods in Canada. An introduction to the arthropods and keys to the myriapods is virtually complete. Publication avenues are being considered.
2. Arthropod fauna of the Yukon. The project is expanding as experts on additional taxa are able to contribute, and an eventual publication on the Yukon will be more broadly based than originally envisaged.
3. Arthropods of Canadian grasslands. A second grasslands newsletter is planned for spring 1984. A pilot site description is well advanced.
4. Aquatic insects of Newfoundland. Early survey stages of the project have been completed. The mayflies of Labrador are being assessed for comparison with the impoverished mayfly fauna of the island of Newfoundland.
5. Aquatic insects of freshwater wetlands. Arrangements for the 1984 conference on aquatic insects of Canadian peatlands and marshes (St. Andrews, New Brunswick) have been confirmed. The conference will be followed by a field trip to some local wetland habitats.
6. Arthropods of freshwater springs. Some samples from springs are being collected by various cooperators. Information on the whereabouts of springs is being assembled. A bibliography of relevant information is also being compiled.
7. Soil arthropods in Canada. The programme for the 1984 International Conference on faunal influences on soil structure (Edmonton, Alta.) has been completed. Both the formal programme and accompanying workshops will encourage exchange of ideas and co-operation between soil scientists and zoologists.

In addition, a two-week course on Collembola will be held at the Kananaskis Centre following the conference.

General developments

1. Expansion of the Biological Survey of Canada. A subcommittee of the Survey is developing ideas on the form that an expanded Biological Survey might take, following an invitation by the Director of the National Museum of Natural Sciences to address this question.
2. Related activities in other organizations. Representatives of organizations with interests similar to those of the Survey outlined recent developments. These organizations included the Entomological Society of Canada, the Biosystematics Research Institute, the Inland Waters Directorate of Environment Canada, the Biological Council of Canada, and the Committee on Systematics Resources of the Entomological Society of America.
3. Secretariat activities. Dr. H.V. Danks visited entomological centres across the country during 1983, and also attended the 1983 Annual Meeting of the ESC. Informal discussions during these visits yielded interesting ideas and information especially on changes in personnel. Dr. Danks also presented seminars and lectures on the Biological Survey and other subjects at many of the centres visited.

Other items

The Survey is preparing commentaries, or establishing contacts with relevant agencies, about a number of items of general concern, including field stations, NSERC operating grant policies with respect to specimens collected, and the validity of attempts to characterize the North American fauna in ways that cross national boundaries. Work continues on a brief on environmental impact assessment. The Committee also considered whether some standard mapping scheme could be applied nationwide, but decided not to recommend any particular procedures at present.

NEWS OF ORGANIZATIONS

Gold Medal Award of the Biological Council of Canada

The Gold Medal of the BCC is to be awarded annually to a member of a constituent society who has made outstanding contributions to the advancement of biology in Canada. Such contributions include not only scholarships and teaching, but also service in universities, societies, granting agencies, media, or in any other way that has advanced biology.

Nominating procedure: Members of the Entomological Society of Canada are invited to nominate other members whom they believe deserving of this award. Nominations should be sent in an envelope marked "Confidential" to the Secretary: Dr. H. G. Wylie, Research Station, Agriculture Canada, 195 Dafoe Road, Winnipeg, Manitoba R3T 2M9.

Nominations should comprise: (1) a formal citation outlining the significant contributions of the nominee, i.e., the reason for nomination; (2) a clear statement of involvement with the supervision of graduate students and post-doctoral fellows; (3) detailed accounts of awards, editorial responsibilities, professional society memberships and executive positions, institutional, national and international committees with roles played, and community involvement; (4) an indication of the more significant research contributions of the nominee, perhaps by starred and footnoted titles in the list of publications. The BCC recognizes that uniformity of applications is neither attainable nor particularly desirable, but comparison and evaluation will be made simpler and fairer if the nomination papers of all candidates carry the same sorts of information.

To be considered, the nominations must bear a postmark no later than July 31, of the current year. The Executive of the ESC will endorse, as required by the BCC, all properly documented nominations. Selection of the recipient is made by the Gold Medal Award Committee of the BCC. The award is to be announced by the President of the BCC at the spring meeting of Council and be presented to the recipient by the President or Vice President of the BCC at the next Annual Meeting of the recipient's scientific society.

S. B. McIver,
First Vice-President, ESC

International Commission on Zoological Nomenclature

Reference: ITZN 59

21 October, 1983

The following Opinions have been published by the International Commission on Zoological Nomenclature in the *Bulletin of Zoological Nomenclature*, vol. 40, part 3, on 21 October, 1983:

Opinion No.

1257 (p. 149) *Tipula ferruginea* Fabricius, 1805 (Insecta, Diptera): conserve

1258 (p. 151) *Ochthera exsculpta* Loew, 1862 (Insecta, Diptera): placed on the Official List.

1260 (p. 157) *Orthunga* Dohrn, 1859 (Insecta, Hemiptera): added to Official List.

The Commission regrets that it cannot supply separates of Opinions.

Reference: ITZN 11/4 (A.N.(S.) 128

5 January, 1984

The Commission hereby gives six months notice of the possible use of its plenary powers in the following cases, published in the *Bulletin of Zoological Nomenclature*, volume 40, part 4, on 30 December, 1983 and would welcome comments and advice on them from interested zoologists.

Correspondence should be addressed to the Secretary at the address below, if possible within six months of the date of publication of this notice.

Case No.

- 2284 *Caeparia* Stål, 1877 (Insecta, Dictyoptera): proposed designation of a type species under the plenary powers.
- 2401 Proposal to suppress the first designation of a type species for the generic name *Megil-la* Fabricius, 1805, and to place *Macropis* Klug, 1809, on the Official List of Generic Names (Hymenoptera, Apoidea).
- 2436 *Crinodes* Herrich-Schäffer, 1855 and *Pero* Herrich-Schäffer, 1855 (Insecta, Lepidoptera): proposed conservation.
- 1686 *Euphaedra* Hübner, [1819] (Insecta, Lepidoptera): proposed conservation under the plenary powers.
- 1687 *Ourocnemis* Baker, 1887 (Insecta, Lepidoptera): proposed conservation under the plenary powers.
- 2180 *Ceroplesis* Serville, 1835 (Insecta, Coleoptera): proposed designation of a type species under the plenary powers.
- 2405 *Zeugophora* Kunze, 1818 (Insecta, Coleoptera): proposed conservation under the plenary powers.

R. V. Melville (Secretary)
c/o British Museum (Natural History)
Cromwell Road
London SW7 5BD
England

MEETING ANNOUNCEMENTS

Joint Meeting *Entomological Society of Canada* and *Acadian Entomological Society*, at the Algonquin Hotel, St. Andrews, New Brunswick, on 30 September - 4 October 1984.
CONTACT: G. Boiteau, Agriculture Canada Research Station, P.O. Box 20280, Fredericton, New Brunswick E3B 4Z7. Telephone (506) 452-3260.

The 50th National Meeting of the AAAS will take place 24-29 May, 1984, in New York City.
CONTACT: AAAS Meetings Office, 1101 Vermont Ave., NW, Washington, D.C. 20005. Telephone (202) 842-9530.

Annual Meeting *Florida Entomological Society*, at the Sheraton Hotel, Ocho Rios, Jamaica, on 5-8 August, 1984.
CONTACT: Dr. Carl S. Barfield, Department of Entomology and Nematology, 3103 McCarty Hall, University of Florida, Gainesville, FL 32611, U.S.A. Telephone (904) 392-7089.

Symposium on Microbial Control for Spruce Budworms and Gypsy Moths, at the Howard Johnson's Conference Center, Center Street Exit at I-91, Windsor Locks, Connecticut, U.S.A., on 10-12 April, 1984.
CONTACT: CANUSA R&D Program, USDA Forest Service, 370 Reed Road, Broomall, PA 19008, U.S.A. Telephone (215) 461-3017.

XXXVI International Symposium on Crop Protection, at the Faculty of Agronomy, University of Gent, Belgium, on 8 May, 1984.
CONTACT: Dr. W. Welvaert, President of the Organizing Committee, International Symposium on Crop Protection, Faculté des Sciences Agrochimiques, Coupure Links 653, B - 9000 Gent, Belgium.

IX Beltsville Symposium in Agricultural Research, Frontiers of Membrane Research in Agriculture, at the Beltsville Agricultural Research Center, Beltsville, Maryland, U.S.A., on 20-24 May, 1984.
CONTACT: Meryl N. Christiansen, Symposium Chair, BARC-West, Beltsville, MD 20705, U.S.A. Telephone (301) 344-3036.

Symposium on Faunal Influences on Soil Structure, at the University of Alberta, Edmonton, Alberta, on 11-13 June, 1984.
CONTACT: C. V. Smyth, Faculty of Extension, 238 Corbett Hall, The University of Alberta, Edmonton, Alberta T6H 3E2.

Annual Meeting *Canadian Federation of Biological Societies*, at the University of Saskatchewan, on 13-17 June, 1984.

CONTACT: Carolyn Fife, Executive Secretary, CFBS, room 124, 118 Veterinary Road, Saskatoon, Saskatchewan S7N 2R4.

International Meeting on Cladistics in Systematics, organized by the Willi Hennig Society, Systematics Association and Linnean Society, in London, England, in July, 1984.

CONTACT: Dr. C.J. Humphries, Department of Botany, British Museum (Natural History), Cromwell Road, London SW7 5BD, England.

Annual *Livestock Insect Workshop*, at the Sheraton Inn, West Lafayette, Indiana, U.S.A., on 9-12 July, 1984.

CONTACT: Ralph Williams, Department of Entomology, Purdue University, West Lafayette, IN 47907, U.S.A. Telephone (317) 494-4560.

VI International Symposium on Biological Control of Weeds, at the University of British Columbia, Vancouver, on 19-25 August, 1984.

CONTACT: Dr. Judith Myers, Institute of Animal Resource Ecology, 2204 Main Mall, University of British Columbia, Vancouver, B.C., V6T 1W5.

Spruce Budworms Research Symposium, at Bangor, Maine, on 16-20 September, 1984.

CONTACT: Dr. F.B. Knight, University of Maine, School of Forest Resources, Orono, ME 04469, U.S.A.

International Union of Forest Research Organizations, working parties on *Population Dynamics and Scolytid Bark Beetles*, at Göttingen, West Germany, on 13-18 August, 1984.

CONTACT: Prof. S. Bombosh, Institut für Forstzoologie, Universität Göttingen, West Germany.

XVII International Congress of Entomology, in Hamburg, West Germany, on 20-26 August, 1984.

CONTACT: Dr. Thomas Tischler, Zoologisches Institut der Universität, Abt. Angewandte Ökologie Küstenforschung, Biologiezentrum, Olshausenstr. 40/60, D-2300 Kiel 1, West Germany.

(Information on reduced fares to the International Congress of Entomology is printed below.)

I International Congress of Comparative Physiology and Biochemistry, in Liège, Belgium, on 27-31 August, 1984.

CONTACT: Professor R. Gilles, CPB Congress of IUBS, ESCPB Executive Office, Laboratory of Animal Physiology, University of Liège, 22, quai Van Beneden, B-4020, Liège, Belgium.

XI International Congress for Tropical Medicine and Malaria, in Calgary, Alberta, on 16-22 September, 1984.

CONTACT: Secretariat XI ICTMM, University of Calgary, Calgary, Alberta T2N 1N4.

REDUCED FARE, TORONTO-HAMBURG

XVII International Congress of Entomology, 1984

I have arranged a special group fare for a flight from Toronto to Hamburg for the International Congress of Entomology (August 20-26). Any members of the ESC and dependents may use this opportunity. We will fly with KLM to Hamburg via Amsterdam on August 18 (arrive morning of August 19), and passengers can choose their own return flight on any date after August 25, so you can make it a family holiday if you wish.

The return fare will be \$708.00 (plus insurance and airport tax this comes to a total of \$730.50). This is less than half of the regular fare. You can use this ticket to purchase continuing flights within Europe on KLM routes at much reduced rates (30-40% off).

All you need to do is write me and provide me *before May 1* with the following:

- 1) Name, address and phone number(s).
- 2) Date you wish to depart on your homeward journey.

- 3) A \$60.00 deposit; personal or institutional cheque or money order made payable to *Dailey Travel* (\$50.00 of this is refundable before May 1st, the \$10.00 is insurance, non-refundable).

Important: If by May 1 we do not have 20 (or more) seats booked, the whole deal is off and your \$50.00 will be refunded.

If the deal is on, your balance will be due by July 13. If the balance is not paid by July 13 the seat will be cancelled without a refund.

The insurance covers your fare in case of illness only.

Reduced-rate hotel bookings, car rental and onward flights to other European destinations can all be arranged via Dailey Travel, 212 Princess Street, Kingston, Ontario K7L 1B2; contact person Betty de Vries.

I hope for a good response,

Dolf Harmsen
Biology Department
Queen's University
Kingston, Ontario K7L 3N6

MISCELLANEA

I have noticed that the Bulletin of the Entomological Society of Canada occasionally publishes 'light verse'. In this vein, I enclose a semi-humorous contribution:

A Scientist's Farewell
(To the well-known war-time tune 'A troopship was leaving Bombay')

A Scientist was leaving CDA,* bound for a wider shore,
Heavily laden with Projects and Goals, Aims and Objectives and more!
Bless 'em all, Bless 'em all!
The long and the short and the tall,
There'll be no promotion if you make a commotion,
So cheer up my lads, Bless 'em all!

Bless Annual Assessments and Annual Reports,
Bless Achievements, Deviations and 'Bull' of all sorts!
Bless 'em all, Bless 'em all!
The long and the short and the tall,
There'll be no promotion if you make a commotion,
So cheer up my lads, Bless 'em all!

Bless all Section Heads and bigger Big Guns,
Bless all Directors and their mini-ons
He's saying Good-bye to them all,
As back to their paper they crawl,
There'll be no promotion if you make a commotion,
So cheer up my lads, Bless 'em all!

P.S. The Universe and Science, and real problems, are still out there, so don't despair, Bless 'em all.

*Canada Department of Agriculture.

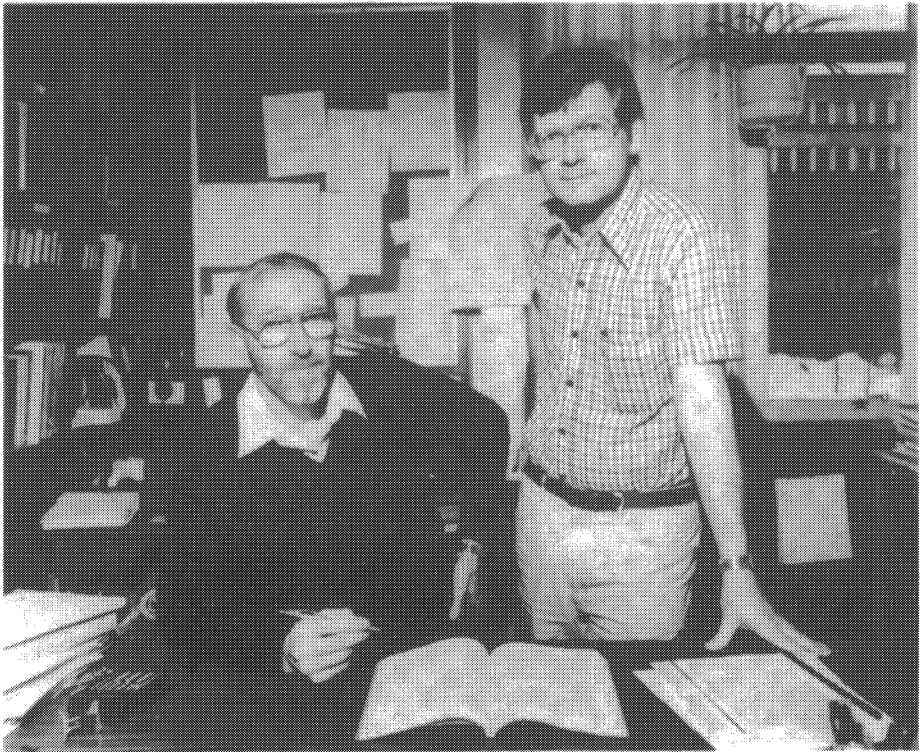
Sincerely,
P. R. Wilkinson,
Lethbridge, Alberta

If Noah had been truly wise, he would have swatted those two flies.

Helen Castle

PUBLICATIONS

Stephen M. Smith Appointed Scientific Editor



Roger G. H. Downer (left), Assistant Scientific Editor, and Stephen M. Smith (right), Scientific Editor, January 1984.

The membership are advised that I, on behalf of the Governing Board, and on the recommendation of the Search Committee, offered the position of Scientific Editor for the Society to Dr. Stephen M. Smith, Department of Biology, University of Waterloo, and he confirmed his acceptance of the position on 3 November 1983.

Dr. Smith's academic credentials are high. He is an ecologist with a strong physiological bent and is interested particularly in the Culicidae. He will succeed Dr. Doug C. Eidt, Forest Research Centre, Fredericton, N.B., who has very capably and faithfully served the Society as Scientific Editor for the past five years.

Doug and Steve are now arranging for the transfer of the office of Scientific Editor from Fredericton, N.B. to Waterloo, Ontario. They have agreed that all manuscripts received by the Managing Editor after 1 December 1983 will be sent to Dr. Stephen Smith at Waterloo, and Dr. Doug Eidt will continue to deal with all manuscripts submitted before that date. Dr. Smith will progressively undertake the full workload while Dr. Doug Eidt's work will be gradually eased out over a period of about six months. Dr. Roger Downer, also of the University of Waterloo, has been named Assistant Scientific Editor.



Doug C. Eidt, Scientific Editor from 1978 to 1984.

Ray F. Morris,
President

Book Reviews

Day, Robert A. 1983. *How to Write and Publish a Scientific Paper*. Second edition, ISI Press, Philadelphia. 181 pp. Soft cover \$U.S. 11.95 in U.S., Canada, Mexico; \$U.S. 14.95 in all other countries. Hard cover \$U.S. 17.95 in U.S., Canada, Mexico; \$U.S. 20.95 in all other countries.

This, the second, revised and expanded edition is the result of Dr. Day's more than 25 years of experience with the written word. It has something for everybody concerned with writing scientific papers. It is a good textbook, a writer's guide, and editor's guide, and a reference book for writers, reviewers, editors, and copy editors. It is all these and is very readable too—a remarkable achievement.

Dr. Day begins by defining a scientific paper and its purpose. He goes through all the how-tos from titles to tables and illustrations. He also discusses how to deal with editors and publishers. He devotes separate chapters to special scientific publications: review papers, conference reports, book reviews, theses and oral papers, but not to mass media articles, talks, or interviews. The rest of the book identifies writing faults and, in appendices, acceptable abbreviations and more writing faults.

The book is up-to-date in that it contains a chapter on the "electronic manuscript" in which the reality and utility of word processors and computers is acknowledged. It is visionary in recognizing the future for scientific communication by computer and that manuscripts may successfully be fed directly from the author's computer to the printer's photo-composer. The Entomological Society of Canada's printer is currently attempting a trial run of direct composition.

We enjoyed reading the book because it is well organized, informative, and contains a nice mix of humour. There are numerous humorous, even bizarre examples and Dr. Day has a deft ability to accentuate a bit of advice by immediately deliberately ignoring it.

There are a few things, not necessarily errors, that we find difficult to accept, such as "keyboard" and "key-board" as verbs (pp 54, 70, 99 and elsewhere) and those monstrous verbs "alphabetize" (p 99) and "input" (p 103). We don't think they were used in jest. "Data" and other Latin plurals as singular nouns are deplored on p 144 yet "data" as a singular noun crept into an earlier chapter. The ordinate of the graph on page 60 has 200% and 300%, which is a kind of popular nonsense we try to keep out of scientific manuscripts. In this book, Murphy or a gremlin was probably at fault.

The first and last chapters should be read first because they give the reasons for everything else in the book. These chapters and the one on "Ethics, rights and permissions" should be required reading for all who indulge in science, because these things are fundamental.

Margaret McBride, Managing Editor
Douglas Eidt, Scientific Editor
Canadian Entomologist and
Memoirs of the Entomological Society
of Canada

Futuyama, D. J. and M. Slatkin, Editors. 1983. *Coevolution*. Sinauer Associates Inc., Sunderland, Massachusetts. x + 555 pp. Soft cover \$U.S. 24.95, hard cover \$U.S. 46.50.

A major purpose of this book is to provide a focus for the very diverse fields of study on ecological interactions. This focus is coevolution, narrowly defined as occurring when "a trait of one species has evolved in response to a trait of another species, which trait has evolved in response to the trait of the first." The specificity of this definition can be relaxed either in that evolution of one trait need not be due to the other, or in that both traits need not evolve. The chapter authors show a diversity in their definition of coevolution but all of them attempt to evaluate the reality and usefulness of the concept in their own area of study. The areas of study include competition, predator-prey systems, parasite-host systems, mimicry and mutualisms, in such diverse groups as viruses, plasmids, bacteria, fungi, plants, insects, marine gastropods and their predators, and vertebrates. The approaches are similarly diverse, including studies of genetic evidence, the fossil record, taxonomy, functional morphology, ethology, geographical patterns and the construction of theoretical models.

Evidence of reciprocal adaptation of particular species, one to another, is sparse except in some mutualistic associations and a few host-parasite associations. The concepts of co-

evolution are regarded as at least plausible in chapters on other host-parasite associations, mimicry, intimate marine associations, competition, and phylogenetics. For herbivores, pollinators and seed-dispersers of plants, ungulates and their predators, and in the study of character displacement, coevolution does not appear to play a major role.

This is a rewarding, but difficult book. The very breadth of the subject matter will challenge most readers to understand the life systems of taxa well outside their usual field of reading. Nevertheless, the authors and editors have succeeded in presenting an excellent documentation of the current state of coevolutionary studies, revealing the need for focused efforts in developing theory and collecting data as well as a picture of a concept in the throes of its own evolutionary development.

W. J. Turnock
Agriculture Canada Research Station
Winnipeg, Manitoba

West, Allen and Bev Smallman, 1983. *Good-Bye Bugs! A Practical Guide to Coping with Insects in the Great Outdoors*. Grosvenor House, Inc., Toronto/Montreal. 144 pp. Soft cover \$8.95.

All entomologists should welcome this book, the perfect gift for those friends who persistently question us about the insects they encounter and who strain our memories of species with which we are barely familiar. The two respected authors have put together a technically correct guide to the insects that people most commonly meet: the biters, the invaders of our homes, and the crawlers around our campsites and cottages. There are a few minor errors, my favorite being that the high-frequency sound of female mosquito wing beats are used by males to "direct them to a willing wrench of their own kind". However, the following review by a non-entomologist should give a better appreciation of the usefulness of this book to a non-professional.

* * *

I am what would be called a "layman" when it comes to knowing anything about insects. Oh, I know some things from biology class or what my father taught me, but not much that I remember. But I found myself enjoying this book *Goodbye Bugs* by Dr. Allen West and Dr. Bev Smallman. I was gleaming small bits of information that I thought would be useful to me when I'm in the bush or just in conversation.

I liked the way it was written. Not heavy like a textbook, but light, easy reading. This easiness came from the humorous descriptions and many poetic quotations the authors made. It was not the monotonous reading that some outdoor help can be. In some places the book perked my interests enough to make me want to go outside to look for these insects.

I feel this would be a good book to have both at home and at a summer cottage, as a quick reference book. The diagrams are simple but effective. The chapters are set up well, with a logical progression. This makes it very easy for a reader like myself to find the information that I want quickly and easily. And the text on each insect is short and to the point.

All in all I found this a very enjoyable book to read.

W. J. Turnock
J. L. Turnock
Agriculture Canada Research Station
Winnipeg, Manitoba

Update on Publications

The following ESC Memoirs are now available:

No. 123: *Revision of the Macropsini and Neopsini of the New-World (Rhynchota: Homoptera: Cicadellidae), with notes on intersex morphology*. K. G. A. Hamilton. 1983. 223 pp. \$16.00 (ESC members \$11.50).

No. 124: *Classification of final-instar larvae of the Ichneumoninae (Hymenoptera: Ichneumonidae)*. David R. Gillespie and Thelma Finlayson. 1983. 81 pp. \$7.00 (ESC members \$5.00).

No. 125: *Revision des Trichoptères canadiens. III. Les Hyalopsychidae, Psychomyiidae, Goeridae, Brachycentridae, Sericostomatidae, Helicopsychidae, Beraeidae, Odontoceridae, Calamoceratidae et Molannidae*. F. Schmid. 1983. 109 pp. \$8.00 (ESC members \$6.00).

No. 126: *A catalogue of the eggs of some Canadian Geometridae (Lepidoptera), with comments*. E. H. Salkeld. 1983. 271 pp. \$18.50 (ESC members \$13.50).

Contact ESC, 1320 Carling Avenue, Ottawa, Ontario K1Z 7K9.

Archives of Insect Biochemistry and Physiology is a new journal which introduces all aspects of insect biochemistry and physiology. Specific topics include endocrinology, development, neurobiology, behavior, pharmacology, nutrition, carbohydrates, lipids, enzymes, proteins, peptides, nucleic acids, molecular biology, and toxicology.

Manuscripts for consideration should be submitted to: Richard T. Mayer, Executive Editor, Archives of Insect Biochemistry and Physiology, P.O. Drawer Q, College Station, Texas 77841, U.S.A.

Atlas of Electron Microscopical Anatomy of Ixodid Ticks, Y. S. Balashov, Ed., 289 pp., has been translated from the Russian by Dr. Alexander Raikhel, Department of Entomology, University of Georgia. Copies are available from the Entomological Society of America, Box 4104, Hyattsville, MD 20781, U.S.A. \$U.S. 18.00 (ESA members \$U.S. 10.80). Add \$U.S. 2.00 for shipping outside the U.S.

Copies of the *Directory of Canadian Field Research Stations*, prepared by the Science Council of Canada, may be obtained by writing to Dr. S. B. McIver, Department of Zoology, University of Toronto, Ramsey Wright Laboratories, 25 Harbord Street, Toronto, Ontario M5S 1A1.

The *International Cecidology Newsletter* is published three to four times a year, and circulates information about galls among interested anatomists, ecologists, horticulturalists, pathologists, and entomologists. Subscription is \$U.S. 7.00 a year or \$U.S. 15.00 for 3 years. Copies of the most recent issue are available as samples. Cheques for subscription or requests for a sample copy may be sent to Hiram Larew, Building 470, BARC-East, USDA, Beltsville, MD 20740, U.S.A.

Laboratory Cultures of Insects and Other Arthropods in Canada was revised in 1983 and is now available for distribution. Copies may be obtained by writing to J. S. Kelleher, Research Program Service, Agriculture Canada, Research Branch, Ottawa, Ontario K1A 0C6.

New Books and Publications

Agricultural Chemical New Product Development Review. Volume 1. W. L. Hopkins and W. T. Thomson, Eds. Thomson Publications, Fresno, California. 1983. 49 pp. \$U.S. 250.00.

Aphid Antagonists. Proceedings of a meeting of the EC experts' group, Protici, Nov. 23-24, 1982. R. Cavalloro, Ed. A. A. Balkema Publishers, Rotterdam, Netherlands. 1983. 152 pp. \$U.S. 20.00.

Biogeography and Ecology of the Island of Newfoundland. G. Robin South, Ed. Dr. W. Junk Publishers, The Hague, Netherlands, 1983 (U.S. Distributor, Kluwer Boston Inc., Hingham, Mass.). xi + 723 pp. Dfl. 300.00. Monographiae Biologicae, Volume 48.

A Biosystematic Study of the European Stratiomyidae (Diptera). Volume 2: Clitellariinae, Hermetiinae, Pachygasterinae, Bibliography. Rudolph Rozkosny. Dr. W. Junk Publishers, The Hague, Netherlands, 1983 (U.S. Distributor, Kluwer Boston Inc., Hingham, Mass.). viii + 431 pp. Dfl. 200.00 (approx. \$U.S. 87.00). Series Entomologica, Volume 25.

A Catalogue of Phytophagous Insects and Mites on Trees in Great Britain. T. G. Winter. Forestry Commission Booklet 53. Forestry Commission, Wrecclesham, Farnham, Surrey, England. 1983. 57 pp. £2.40 (includes postage).

Les Coleopteres Scarabaeides des Petites Antilles (Guadeloupe et Martinique). Taxonomie Ethologie Biogeographie. F. Chalumeau. Masson Editeur, Paris. 1983. 328 pp. 500 F.

Cutaneous Infestations of Man and Animal. Lawrence Charles Parish, William B. Nutting, and Robert M. Schwartzman. Praeger, New York. 1983. xv + 392 pp. \$U.S. 45.00.

Dear Lord Rothschild: Birds, Butterflies and History. Miriam Rothschild. ISI Press, Philadelphia, Pennsylvania. 1983. 400 pp. \$U.S. 29.95.

Did the Devil Make Darwin Do It? Modern Perspectives on the Creation-Evolution Controversy. D. B. Wilson, Ed. Iowa State University Press, Ames. 1983. xii + 242 pp. \$U.S. 25.00.

- Ecosystematics of Acanthoscelides (Coleoptera: Bruchidae) of Southern Mexico and Central America.* Clarence Dan Johnson. Entomological Society of America, College Park, Maryland. 1983. 376 pp. \$U.S. 9.80 (\$U.S. 7.00 for ESA members). Miscellaneous Publications of the E.S.A., number 56.
- A Field Guide to the Beetles of North America.* Richard E. White. Houghton Mifflin Company, Boston. 1983. xii + 368 pp. \$U.S. 15.95 cloth, \$10.95 paperback.
- Fruit Flies of Economic Importance.* Proceedings of the International Symposium organized jointly by the CEC and the IOBC, Athens, Greece, 16-19 November 1982. R. Cavalloro, Ed. A. A. Balkema Publishers, Rotterdam, Netherlands. 1983. 65 pp. \$U.S. 40.00.
- The Genetics and Biology of Drosophila.* Volume 3c. M. Ashburner, H. L. Carson, J. N. Thomson, Jr., Eds. Academic Press Inc., N.Y. 1983. 494 pp. \$U.S. 86.00.
- Genetics of Populations.* Philip W. Hedrick. Science Books International (Jones and Bartlett Publishers, Inc.) Boston. 1983. xvi + 629 pp. \$U.S. 33.50.
- Handbook for Spider Identification.* Vincent D. Roth. Published by the author, American Museum of Natural History Southwestern Research Station, Portal, Arizona. 1982. \$U.S. 5.00.
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OBITUARY

George S. Cooper 1914-1983

Dr. George S. Cooper passed away in Toronto, Ontario on June 9, 1983. George was born and grew up in Medicine Hat, Alberta. After attending the Calgary Normal School, he spent several years teaching and taking courses leading to a Master's degree in Psychology. From 1939-1945, George served in the Canadian Army. He then enrolled in the University of Alberta, where he obtained his BSc and MSc degrees in Agriculture. After completing his PhD at the University of Illinois, George joined Cyanamid Canada Inc., where he was Manager of Technical Services and Development, Agricultural Products Department for 27 years, retiring in 1979. In 1980, he was appointed Chairman of the Ontario Pesticides Advisory Committee, a position which he held at the time of his death.

With his enthusiasm, organizational ability, and tremendous capacity for work, George not only performed his regular duties ably, but also participated with gusto in the activities of numerous scientific organizations and committees. To name only a few of the latter, he was a member, at one time or another, of the Canada Committee on Pesticide Use in Agriculture, the Western Committee on Livestock Pesticides, the National Research Council Associate Committee on Agriculture and Forestry Aviation, and the National Research Council Environmental Secretariat Sub-Committee on Pesticides. As a member of the Ontario Pesticides Advisory Committee from its inception, Vice-Chairman from 1974-1980, and Chairman from 1980-1983, George probably contributed more than any other single individual to the development of effective legislation governing pesticide use in Ontario.

George was widely recognized as an international authority on pesticide development and use. During his distinguished career he made a remarkable contribution to development of crop protection programs across Canada. The high esteem in which he was held by colleagues in industry, government, and universities was reflected in the many honours and awards bestowed on him, as exemplified by his election as President of the Canadian Agricultural Chemicals Association, as President and a Fellow of the Entomological Society of Canada, and as a Fellow of the Canadian Pest Management Society. George Cooper was a colleague, advisor, and friend to many—his presence will be sorely missed.

C. R. Harris
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