

Entomological Society of Ontario Newsletter



July, 2003

Volume 8, Issue 2

140th ESO Annual Meeting to be Held in Guelph in November

The One Hundred and Fortieth Annual Meeting of the Entomological Society of Ontario will be held at the Conference Centre, OMAF Building, Guelph, Ontario, from Friday, November 28 to Sunday, November 30, 2003. Our Steering Committee is in place.

The theme of this year's meeting will be **"The Plant Link – Insect-Plant Interactions"**.

Although details are still to be finalized, we are hoping to include a "Job Fair/Careers in Entomology" Open House for Undergraduate and Graduate students on Friday afternoon. Rumours have it that ESO members will be "joining the trophic web" with their insect friends at Friday night's reception! On the Fiscal side, we are hoping to "hold the line" on Registration fees in 2003.

Stay tuned for more Registration Information – coming soon. We look forward to welcoming you to Guelph this fall!

Jim Corrigan



2003 Elections

Included with this newsletter for regular members who have paid their dues in 2002 or 2003 are two ballots and an envelope for returning these ballots to the Secretary of the ESO.

The annual elections ballot lists candidates for positions on the ESO Board.

The other ballot contains two nominees for Fellow of the ESO: Dr. Edward C. Becker and Dr. C.R. Harris. Fellows of the ESO are members or former members who have made outstanding contributions to the advancement of entomology. Each of the nominees for Fellow shall be elected if at least two-thirds of the votes cast are in the affirmative. Unlike the regular ballot for president, directors and student representative, voters may cast affirmative votes for both Fellow of the ESO nominees. Biographies of the Fellow nominees are on pages 8 and 9 of this newsletter.

Ballots will be tallied on September 1, 2003.

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ELECTION OF ESO OFFICERS, 2003

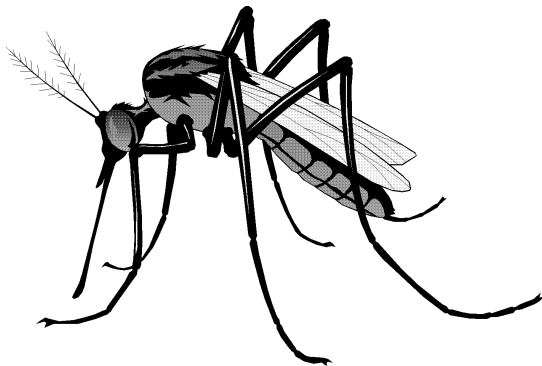
President-Elect (select one)

Fiona F. Hunter

Fiona Hunter received her M.Sc. from the University of Toronto and her Ph.D. from Queen's University at Kingston. Throughout her academic career she has focused on the behaviour, ecology and systematics of biting flies (i.e., black flies, stable flies, mosquitoes, deer flies, horse flies, snipe flies and no-see-ums).

Following a two year appointment at Brandon University in Manitoba, she returned to Ontario in 1992 to take up a position at Brock University in St. Catharines, where she has been ever since. There she is a Professor in the Biological Sciences Department and over the years has had many fourth year Honour's thesis students and graduate students present papers and posters at ESO Meetings. She hosted an ESO Annual Meeting at Brock University in 1994.

She is currently a member of the Federal Steering Committee for West Nile virus and since 2001 has headed the Ontario Ministry of Health and Long Term Care's adult mosquito surveillance program for West Nile virus.



Peter Kevan

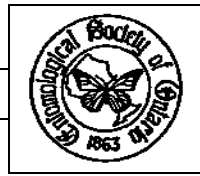
Peter Kevan (Ph. D. in Entomology from The University of Alberta, 1970) is a Professor in the Department of Environmental Biology at the University of Guelph. He is a well known figure in Entomology and Botany in Canada and around the world. His primary interests are in pollination ecology and community ecology, with relevance to conservation issues, ecosystem function and diversity. His interests also include Apiculture, and especially applied pollination as it relates to crops. He teaches courses in insect ecology, applied ecology, pollination ecology (usually as a 2-week field course in Latin America), arctic ecology (a 2-week intensive field course presented from Resolute to Churchill over the past decade).

Most recently, with Professor Rob Roughley (University of Manitoba), he has co-developed the Arctic & Boreal Entomology course to be presented in Churchill this summer. Peter's graduate students are frequent participants at the ESO meetings.

He served on the Board for the Entomological Society of Ontario in the past, and assumed the editorship of our Proceedings over a 9 year period. He stepped down from those positions when he took on the task of Editing the Canadian Entomologist. He served on the Board of the Entomological Society of Canada for about a decade. He is on the editorial board of various entomological, botanical and ecological journals.

Peter is a Fellow of the Royal Entomological Society. He was the recipient of the NSERC/Conference Board of Canada "Synergy Award" (a prize of \$25,000) in 2001 for collaboration between University and Private research (in this case spear headed by the Ontario Beekeepers' Association). He is to be honoured with an Alumnus Pride award from the University of Alberta this Fall.

More details may be found on Peter's web page www.uoguelph.ca/~pkevanard



Directors (select two)

Andrew M.R. Bennett

Andy moved to British Columbia from his native England at age seven and recalls thinking that there would be many more insects to collect in Canada compared to England. This has turned out to be true and to satisfy his curiosity about insects he earned his B.Sc Hons. (1988) and M.Sc (1993) from the University of British Columbia studying water mite parasitism of water boatmen in the inland saline lakes of BC with Dr. G. G.E. Scudder. He earned his Ph.D (2002) from the University of Toronto studying the cladistics of the Tryphoninae (Hymenoptera: Ichneumonidae) with Dr. D.C. Darling. Along the way, he won the Keith Kevan Scholarship for graduate studies in systematic entomology from the Entomological Society of Canada (1997) and the President's Prize for student seminars (systematics section) at the joint meetings of the Entomological Society of America and Canada (2000).

He is currently employed at AAFC in Ottawa as the ichneumonid taxonomist. His interests are ichneumonid systematics especially the subfamily Tryphoninae, higher level ichneumonid relationships, use of cladistics to understand character evolution and the evolution of polydnaviruses within the Ichneumonidae.

Patrice Bouchard

Pat received his B.Sc. (1995) and M.Sc. (1997) from McGill University, and Ph.D. from the University of Queensland in Australia in 2002. His Masters project involved assessing the insect diversity in alvar habitats in Ontario as part of a project led by the Nature Conservancy. His results, when combined with data from other groups of organisms, led to the conservation of several threatened sites in that province. For his Ph.D., Pat decided to explore systematic entomology by conducting a study of the relationships and biogeography of rainforest arthropods in northeastern Australia.

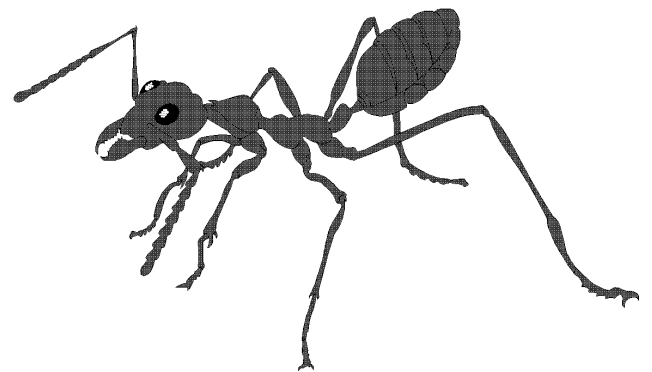
After spending a few months as an NSERC postdoc at the Canadian Museum of Nature, Pat became one of

three new scientists employed at Agriculture and Agri-Food Canada (Canadian National Collection of Insects, Arachnids and Nematodes) in early 2003. His research will focus on the systematics and evolution of weevils with an emphasis on groups of significance to Canadian agriculture and biodiversity. Pat was the business manager for the journal *The Australian Entomologist* and involved with the Entomological Society of Queensland while in Australia. He is now chair of the Finance committee of the Ent. Soc of Canada and is "in training" to become the new Treasurer of the Ent. Soc. of Canada.

Gary J. Umphrey

Gary received his B.Sc. (1976) and M.Sc. (1982) from the University of Guelph and Ph.D. (1992) from Carleton University. His Ph.D. research focused on resolving taxonomic difficulties in a sibling species complex of the ant genus *Aphaenogaster*.

His current research interests are in myrmecology (the study of ants), biodiversity conservation and biostatistics. Gary is currently employed as Canada's only myrmecostatistician by the Department of Mathematics and Statistics at the University of Guelph. He is fascinated by insect sex, considers insect fiction (at least some of it) to be great literature, and thinks entomologists should be paid higher salaries.





Student Representative (select one)

Sheila Goodfellow

I am a graduate student in the middle of my first year of an MSc program in the Department of Environmental Biology at the University of Guelph. I was first exposed to insects three years ago in an introductory entomology course and was instantly hooked. Since that time, I have taken most of the entomology courses offered by the university and as a graduate student have become a teaching assistant for an insect behaviour course. I began my research experience with a field season and lab bioassay examining the non-target effects of Bt corn pollen on monarch butterflies (*Danaus plexipus*). The following summer I initiated an independent research project that investigated the larval/pupal parasitoids of the pea leafminer (*Liriomyza huidobrensis*); this research is now entering a second field season. Since January, my graduate research has emphasized the validation of a degree-day model for the swede midge (*Contarinia nasturtii*), a new insect pest of crucifer crops in Ontario.

The ESO has always encouraged the involvement of students within the organization and during conferences. I hope to continue to promote a more active involvement of both undergraduate and graduate students within the society. As Student Representative, I would also like to

gain more knowledge relating the governing of an organization such as the ESO through my interactions with other Board members and the rest of the Society.

Laura Timms

I graduated from the University of Guelph in the spring of 2001 with a BSc. in Zoology. While at Guelph, I worked for two years as an entomology research assistant, took several entomology courses and carried out an honours undergraduate thesis on the monarch butterfly. Since Guelph, I've worked as a summer student at CABI Bioscience in Switzerland and as a research technician in the biocontrol lab at Agriculture and Agri-Food Canada in Ottawa. I'm now starting a Masters degree in Forest Entomology at the University of Toronto.

I think that I would bring enthusiasm, experience and diversity to the board of the ESO as the student representative. I enjoy working in leadership positions; I was on the student council throughout high school, and held the position of Co-President in my graduating year. I worked as a peer helper in University, and also volunteered as a teaching assistant for two years. Last fall I acted as the Secretary and Registrar for the ESO Annual Meeting held in Ottawa. I feel that because of my background and connections in both agricultural and forest entomology, that I would be in a good position to reach Ontario entomology students in all areas of study.

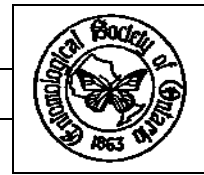
Ontario Pest Management Conference (formerly known as the Ontario Crop Protection Conference) Student Paper and Poster Competition

In the past, the annual Ontario Crop Protection Conference provided a forum for research presentations related to managing pests attacking agricultural crops. Recently, however, other serious pest management issues (e.g. West Nile Virus, the cosmetic use of pesticides, Emerald Ash Borer) have also become priorities. For this reason, the Ontario Crop Protection Committee decided to expand the scope of the annual meeting and change its name to the "Ontario Pest Management Conference" (OPMC).

Along with the change of name for the conference, a Student Paper and Poster Competition has been added to the conference agenda. Crop Life Canada has graciously offered to sponsor 2 awards of \$200 for the best student paper and poster submitted for presentation at the 2003 OPMC (November 6 – Victoria Park East Golf Course, Guelph, Ontario). Research presented at the OPMC should focus on any aspects of pest management as they relate to food and fibre production and impact on animal and human health.

We have a limited number of openings on the 2003 agenda for student papers and posters. Your abstract for the 2003 OPMC should be sent to Dr. Cynthia Scott-Dupree by September 5, 2003.

Complete information is available from Neil Carter (neil.carter@omaf.gov.on.ca)



I am pleased to present the contents of volume 133 of the Journal of the Entomological Society of Ontario (JESO). The volume has been a pleasure to assemble because of the collaboration of many professionals from all parts of North America. Thanks to the Internet, working together over large distances is possible because we can easily transfer files and have discussions in a matter of minutes. Special thanks are due to our cover artist, Martin Damus who did a great job again this year (look for his work on volume 133), and to Karen Jamieson and Jane Scott Barsanti, technical editor and layout artist, respectively. Both had a large learning curve to get the issue out by the end of June.

Some other good news is that volume 134 is well under way as four manuscripts are under currently review. Note though, there is still a lot of room for other manuscripts. For those new to reading this, JESO is a fully refereed journal by the same scientists who review publications for the Entomological Societies of Canada and America. I am also proud to say that once your manuscript is accepted it is published within the year, a great advantage when one wants to publish important results quickly.

One more point, some of you may have heard that I have resigned my position at Lakehead University. That is true! (I believe I convinced the university administration to keep the position of entomologist and not convert it into another position; so look for the advertisement in "University Affaires" in the near future). My wife and I have decided to move to Ottawa to continue our careers. I have decided to study law "en français" with a focus on environmental policy at the University of Ottawa starting this fall. However, during the Board meeting on May 2, I agreed to continue serving as scientific editor of JESO. So, please send me your manuscripts, but care of: Dr. Dave Hunt, our secretary, at Agriculture and Agri-Food Canada, Greenhouse and Procession Crops Research Centre, Harrow ON N0R 1G0. I am looking forward to reading about your work.

Yves Prévost, JESO Editor

Volume 133 Journal of the Entomological Society of Ontario, June 2003

Submitted Papers

LeSage, L. Flea beetles of the genus *Altica* found on grape in northeastern North America (Coleoptera: Chrysomelidae). (Received 18 November 2002; accepted 22 February 2003).

Gill, B.D. and F.Z.Vaz-de-Mello. An unusual new species of *Pedaridium* Harold (Coleoptera: Scarabaeidae: Ateuchini) from Colombia. (Received 7 January 2003; accepted 4 April 2003).

McDonald, M.R., K. Vander Kooi, B. Kornatowska and S. Janse. Screening onion breeding lines for resistance to onion maggot (*Delia antiqua* Meigen) damage. (Received 5 June 2001; accepted 5 September 2002).

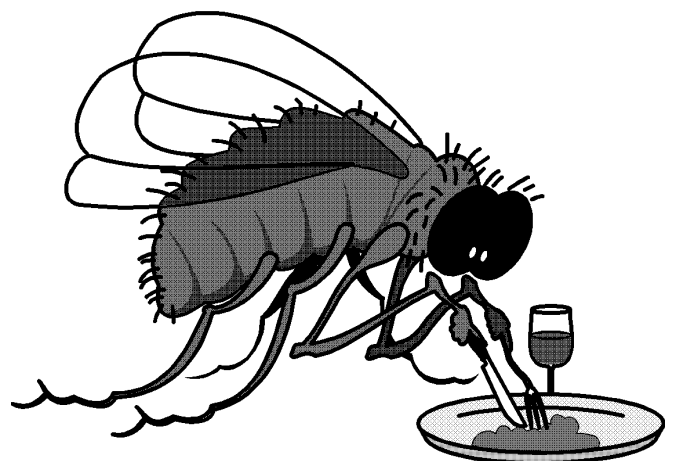
Submitted Note

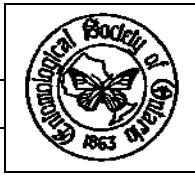
MacIntyre-Allen, J.K., J.H. Tolman, C.D. Scott-Dupree, S. A. Hilton and C.R. Harris. Contact toxicity of azinphosmethyl and endosulfan to field-collected striped cucumber beetle, *Acalymma vittatum* (F.). (Received 30 August 2002; accepted 30 January 2003).

Book Reviews

Holliday, N.J. The Agroecology of Carabid Beetles. 2002 by J. M. Holland

Duckett, K. Biology of Leaf Beetles. 2002. by P. Jolivet and K. K. Verma.





Missive from the President (May we live in interesting times)

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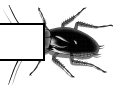
This issue of the Entomological Society of Ontario Newsletter marks Neil Carter's last copy as editor, having decided to take a break from the rigours of editorship. On behalf of the Society, I thank him for a job well done over these past 4 years. I am equally pleased to welcome Dana Gagnier, an entomology technician at the AAFC Research Station in Harrow, as the new editor of the Newsletter. I hope she will maintain Neil's fine tradition of hexapod clipart to punctuate future issues as I'd hate to see *Blattus graphicus* Carter disappear overnight. I'm sure that Dana will welcome occasional contributions from regular members (not just the executive) that are of general interest to the ESO membership, that could be included in upcoming newsletters.

As Yves Prévost announced in the February Newsletter, the Proceedings of the E.S.O. will be officially renamed the Journal of the E.S.O. beginning with Volume 133. Astute members will recall discussion in the Newsletter ten years ago regarding a possible name change. It's nice to see this task completed. Now is the time to get your manuscripts submitted to Yves for inclusion in Volume 134 of the Journal.

In other news, insects and entomologists are likely to have a higher than normal profile in the Ontario media this season. In eastern Ontario it is looking like a good year for adult emergence of our native June beetles (19 species of *Phyllophaga* recorded for the province) and for the perennial favourite, the introduced European chafer (*Rhizotrogus majalis*). Both of these turf pests should keep the sod farms busy and lawn managers frustrated. In central and southern Ontario, the recently introduced soybean aphid (*Aphis glycines*), swede midge (*Contarinia nasturtii*), and emerald ash borer (*Agilus planipennis*) have the potential for major economic impact on crops and forests. The media focus on these exotic pests however will quickly shift to mosquitoes if West Nile Virus (WNV) starts to claim human casualties. While the death of even a single individual is lamentable, the risk from WNV needs to be kept in perspective. In 2001, there were 845 road fatalities on Ontario highways compared with 10 deaths from WNV. As of early June this year, 30 SARS-related deaths have been recorded in Toronto. Mounting numbers of dead crows will hopefully not trigger massive mosquito control programs that could cause untold ecological damage on wetlands and other valuable habitats. In addition to being a good sentinel species for West Nile, crows are

excellent for digging white grubs out of your lawn free-of-charge. Being smart birds, perhaps some resourceful ornithologist can train them to replace their divots. Sadly, the local residents in some jurisdictions are threatening to shoot all crows on sight as potential carriers of the West Nile. Up at Possum Lodge, this would be viewed as getting the coal mine canary stuffed for fear that it might die unexpectedly on the job. Not a wise idea.

The concepts of risk evaluation and risk management are sometimes difficult to grasp and reconcile with common sense, in today's world of instantaneous global communications. In Ontario, the risk of injury or death from driving is still far greater than WNV and SARS combined. This is especially true for our native insect fauna. Cars, trucks, and to a lesser extent motorcycles, kill and maim tens to hundreds of millions of insects every year on Ontario highways. For certain Ontario insects however, there might be hope. Under Chapter 41 of the Statutes of Ontario 1997, namely the "Fish and Wildlife Conservation Act, 1997", 13 species of butterflies are now listed in Schedule 11 as Specially Protected Invertebrates. This list includes all 7 species of swallowtails recorded for Ontario, plus the frosted elfin, bog elfin, mottled dusky wing, West Virginia white, monarch, and the karnar blue. The Act specifies that these species can not be hunted nor trapped. Under the Act, "Hunting" also includes "searching for", "chasing", "capturing", and "harassing". Running down any of these species with your vehicle is illegal. So when driving on Ontario highways, make sure you take the necessary actions to avoid hitting any of these specially protected invertebrates. Section 55, Part 1 of the Act also states that it is an offence to transport any of these butterflies (or parts thereof), out of the province without a permit. Next time you get to the Manitoba, Quebec or U.S. border, it might be wise to stop and clear all frosted elfin debris (and other listed species) from your radiator, grill, or windshield to save yourself the embarrassment and expense of having your vehicle seized by a game warden for poaching wildlife without a permit. Want a permit? Write to the Ontario Ministry of Natural Resources in Peterborough. They're the folks you'll also need to contact if you want to put some monarch caterpillars in a jar to show school kids the miracle of metamorphosis. Just remember though, the host plants of monarchs (milkweeds of the genus *Asclepias*) are listed under the Ontario Weeds Act. You might not want to tell the Ontario Min-





istry of Agriculture and Food in Guelph where the milkweed came from, or you could be facing even more problems.

Moving to the federal scene, the CITES (Convention on International Trade in Endangered Species of Wild Fauna and Flora) website of Environment Canada states that “The Wild Animal and Plant Protection and Regulation of International and Interprovincial Trade Act (WAPPRIITA), is the legislative vehicle by which Canada meets its obligations under CITES”. And what a vehicle it is! More like a monster truck in my lexicon (pumped-up and ridiculous?). Entrenching CITES into Canadian law might be good but Section 6 (1) of this Act states that “No person shall import into Canada any animal or plant that was taken, or any animal or plant, or any part or derivative of an animal or plant, that was possessed, distributed or transported in contravention of any law of any foreign state”. It’s a Canadian equivalent of the Lacey Act in the U.S., and legitimizes all foreign laws related to wildlife. A number of countries have passed omnibus legislation declaring that all species of their flora and fauna are protected and require permits for export. Soybean aphid, emerald ash borer, and SARS are all thought to have originated in China, a country that officially protects all of its flora and fauna, and requires export permits. WAPPRIITA and its Environment Canada inspectors did nothing to stop these forms of wildlife from entering Canada, but should Canadian scientists want to visit China to study these organisms or their bio-control agents, the bureaucracy in China and WAPPRIITA will make it next to impossible for research material to enter Canada.

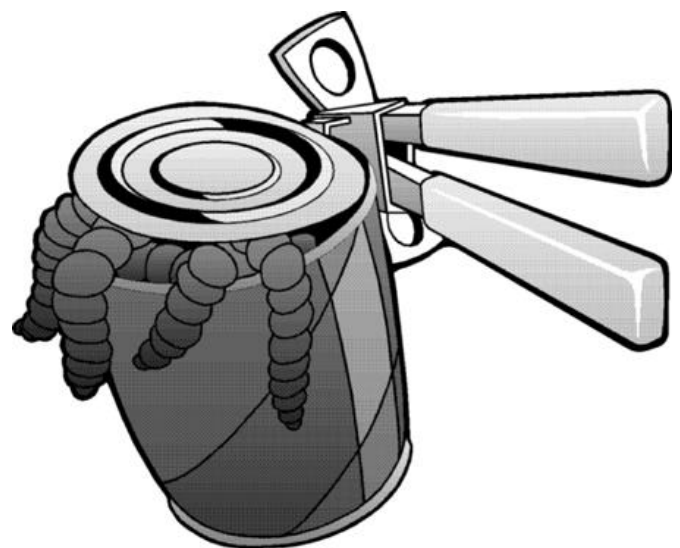
Closer to home it’s good to see that Mexico and Panama are now protecting all wildlife including mosquitoes and cockroaches. For the average tourist returning from a vacation in these countries, it will be important to remove all cockroach fragments, moth wings and watermelon seeds from your luggage before entering Canada, lest you stand accused of smuggling protected wildlife into the country. Mexican jumping beans and the “gusano” in the Mezcal bottle will likewise need valid export permits from Mexico. Good luck getting them.

It’s clear that most if not all endangered species regulations and permitting systems are based upon vertebrate models, and that they don’t reflect the biological realities of invertebrates such as insects. It’s sad that learned societies such as the ESC and ESO are not called upon to provide their expertise when these laws are being drafted

in our own country. In light of the fact that thousands (if not millions) of undescribed species of invertebrates are going extinct through habitat loss in many of the countries that have officially declared all their flora and fauna protected, it is indeed a pity that Environment Canada has given itself a legal club to prevent the entry of scientific material that is desperately needed to document the biological diversity of the planet. Are crazy wildlife laws restricted to Canada? No way. Colleagues in Brazil have pointed out that legislation passed in that country to prevent the movement of genetic material, was written so broadly, that a Brazilian taking their dog out for a walk was breaking the law. It will be interesting to see how Environment Canada tries to enforce that particular foreign law.

But enough of this rant for common sense and conservation. I’d like to wrap up by thanking all of the volunteers, registrants and invited speakers for helping to make the last annual meeting in Ottawa a success. Jim Corrigan and team are putting together an excellent program for the next annual meeting in Guelph in late November, and I look forward to seeing you all there. Until then, safe driving (riding) and collecting.

Bruce D. Gill
ESO President





2003 Nominees for Fellow of the Entomological Society of Ontario

Please read the box on page one: "2003 Elections" regarding the Nominees for Fellow of the ESO.

Dr. Edward C. Becker

Edward Coulton Becker has had a long and distinguished career in entomology in Ontario. Born in St. Louis, Missouri in 1923, Ed received his B.Sc. from the University of Missouri in 1944, and M.Sc. (1950) and Ph.D. (1952) degrees from the University of Illinois. Following a brief appointment as an entomologist with the Standard Fruit & Steamship Company in La Ceiba, Honduras (1948-49), Ed accepted a position as Research Scientist with Agriculture Canada in Ottawa in 1952, where he worked on the systematics of beetles (mainly Elateridae) until his retirement in 1980.

Since his "retirement", Ed has continued his service to entomology on a daily basis, as an Honorary Research Associate with Agriculture & Agri-Food Canada in Ottawa. Ed has been a long-time supporter of several societies including the Entomological Society of America since 1948 (serving on Common Names, Finance, Governing Board, and Heritage committees plus running for the Presidency in 1988); the Entomological Society of Canada since 1953 (serving on Fellowship and Finance committees, plus serving as Treasurer for 25 years (1960-1985), and as President (1988)); the Coleopterists Society since 1953 (President in 1971-72 and Editor of the Coleopterists Bulletin from 1983-90); and the Entomological Society of Ontario since 1953 (Director 1960-62). He has also served in an official capacity on three International Congresses of Entomology (Montreal 1956, Washington 1976, and Vancouver 1988).

In 1972, Ed established the CanaColl Foundation, an independent, non-profit organization with the sole purpose of promoting research on the Canadian National

Collection of Insects and related arthropods. Ed has served as President of CanaColl since its inception, and has seen the assets grow to over \$390,000. In its 30 year history, CanaColl has paid out over \$237,000 to 306 grant recipients to cover out-of-pocket expenses. This has resulted in 620 person/weeks of curation, making the CNCI one of the best curated collections in North America. Not one to rest, in 1990 Ed started a Newsletter for Senior Entomologists and Associates which he continues to produce and distribute quarterly.

Over the years Ed has received numerous awards for his volunteer work, and is currently a Fellow of the ESC and an Honorary Member of both the ESA and the ESC. As 2003 marks the 50th year that Ed has been a member of the ESO, it seems an appropriate time to recognize his continuing support of entomology in Ontario.

Dr. C. R. Harris

Ron Harris obtained his B.A. and M.A. from the University of British Columbia and Ph.D. from the University of Wisconsin. Employed by the Canada Department of Agriculture, he first worked at the Entomology Laboratory in Chatham, Ontario and from 1968-90 at the Agriculture and Agri-Food Canada - London Research Centre where he was Principal Research Scientist and Head of the Soil Pesticide Section. In 1990, he was appointed Professor and Chairperson of the Department of Environmental Biology, University of Guelph. Ron retired in December, 1997.

Throughout his career, Ron has maintained a strong research effort centered around insecticide behaviour in soil, soil insect control and insect resistance to insecticides. He has published more than 160 peer reviewed research papers, 13 book chapters, and more than 100 technical reports and popular articles dealing with pest and pesticide management and has been invited to present more than 170 lectures at meetings of scientific societies, at universities and at government and industrial laboratories in Canada, the United States, Great Britain, Australia and China. He has been actively involved in international research efforts completing several assignments with the



US/Canada International Joint Commission, in China and Australia.

Ron has served on numerous provincial, national and international advisory and grant committees and as an external appointee on program or tenure review committees for entomology departments throughout Canada and the United States. He is a member of the Entomological Societies of Ontario, Canada and America, Past President of the ESC and Past Director of the Entomological Society of Ontario. He also served a term as Associate Editor of the Canadian Entomologist and is a member of the Editorial Board of the Journal of Environmental Science and Health.

Since his retirement in 1997, Ron has remained active in the Department of Environmental Biology in both academic and research oriented ventures. He continues to contribute through participation in departmental committees, lecturing and advising graduate students

Ron is a Fellow of the Entomological Society of Canada and a recipient of the Citation of Merit from the Government of Ontario and the Bussart Memorial Award from the Entomological Society of America.

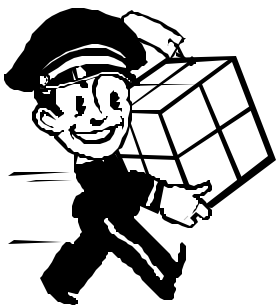
International Members of the ESO

The Entomological Society of Ontario is not limited to residents of Ontario by any means. We have members across Canada and currently have about a dozen US members and half a dozen from other countries. International members were recently queried about their entomological activities abroad. Their replies will appear in the ESO newsletter as space permits. Philip Corbet's reply is further proof that entomologists never *really* retire:

Philip S. Corbet, Crean Mill, St Buryan, Cornwall, UK
I left Canada, for a position in New Zealand, in 1974 and moved to UK in 1980.

I retired from my position as Professor of Zoology and Head of the Department of Biological Sciences, University of Dundee in 1986. From then until 1996 I was given an Honorary Faculty position at the University of Edinburgh where I wrote a book *Dragonflies. Behaviour and Ecology of Odonata*, published by Cornell University Press and Harley Books (UK) in 1999. Since 1996 I have been living in an 18th Century converted mill house, the grounds of which I share with 15 species of butterfly and 11 species of dragonfly, the latter being encouraged to breed there by the presence of a pond and stream. My house is in West Cornwall, not far from Land's End where the climate is markedly milder than most of the British Isles. I devote my spare time to work for the Worldwide Dragonfly Association, travelling, and writing up (unpublished) work on mosquitoes, caddisflies and dragonflies. I also collaborate on joint research projects on dragonflies and mosquitoes. I work in a voluntary capacity for the Cornwall Wildlife Trust, serving on Council and the Executive, and chairing the Conservation Strategy Committee.

Returned Newsletters



In each summer issue of the ESO newsletter, we list the returned spring newsletters in the hope that we can track down the 'missing members'. Believe it or not, we do find out where some of our members have gone. From there, it's a simple matter of past due notices, harassing phone calls,

and basic peer pressure to return them to the ESO fold. Do your part and let us know where your fellow members have drifted.

Spring ESO Newsletter returns:

C.W. Aitchison, Kamloops, B.C.
Heather Middleton, U of T

Terri Jones, U of G
Tim Boudreau, U of G
Mark Hanson, U of G
Krista Ryall, U of T
Sonia Murray, U of T
Sarah McCann, Guelph, On
Christy Kirk, Vanier, On
Dael Morris, Toronto
Fatema Begum, Toronto
Mohammad Afzal Qamar, Scarborough





Entomology Events

ESC & ESBC JAM 2003

The 2003 Joint Annual Meeting of the Entomological Societies of Canada and British Columbia will be held in Kelowna, BC, November 2 - 5, 2003 at the Grand Okanagan Lakefront Resort. The theme of this year's meeting is *Insects in Shifting Environments*.

<http://esbc.harbour.com/jam.html>

ESA Annual Meeting

The Cincinnati Convention Center in Cincinnati, Ohio will be the site of this year's ESA Annual meeting. The meeting will be held from Oct 26—29, 2003. Full details are available at: http://www.entsoc.org/annual_meeting/2003/index.html

XXII International Congress of Entomology, Brisbane, Australia "Strength in Diversity"

August 15 -21, 2004

<http://www.ccm.com.au/icoe/index.html>

By the time you receive this newsletter, it will already be posted on the ESO website. View this issue and previous issues at:

www.entsocont.com

The ESO website also has general information about the Society, membership applications, details and pictures from past annual meetings, a huge list of entomology links, and lots more! Share our site with your colleagues, friends, family, pets, or anyone remotely interested in entomology!

Student Travel Awards: Apply Now!

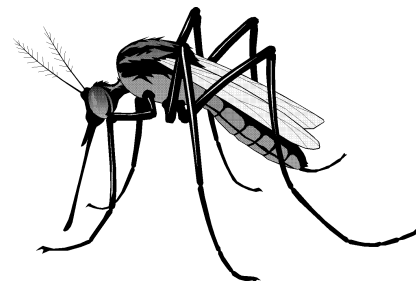
University, college professors and all teachers of entomology: Please inform your students of this incentive to become involved in this year's annual meeting!

Each year the Entomological Society of Ontario provides travel grants to assist students with their travel expenses. This year the ESO will award two grants of \$350.00 each based on the criteria outlined below. Student members of ESO who are presenting a poster or paper at the Annual Meeting of the Entomological Society of Ontario in Guelph, 28-30 November, 2003 are eligible to apply. Student memberships for ESO are free but must be renewed each year.

Any interested students must apply in writing stating their financial needs for attending the conference, and why they should be chosen to receive a grant. Please indicate contact information including an email address.

Deadline for application is October 17th, 2003. Grant recipients will be notified by October 31, 2003.

Please send application to:
Tracey Baute, ESO Director,
OMAF, P.O. Box 400, Main Street East
Agronomy Building, Ridgetown College
Ridgetown, Ontario N0P 2C0



Insects In the News

Emerald Ash Borer:

www.inspection.gc.ca/english/corpaffr/newcom/2002/20020822e.shtml
www.inspection.gc.ca/english/plaveg/for/pestrava/agrplae.shtml

Swede Midge:

www.gov.on.ca/omafra/english/crops/facts/swedemidge.html
www.inspection.gc.ca/english/plaveg/hort/swede.shtml

North American Plant Protection Organization:

updates on new pests: www.pestalert.org/

West Nile Virus:

Health Canada site at:
<http://www.hc-sc.gc.ca/pphb-dgspsp/wnv-vwn/index.html#wnvgen>

For information on collecting and submitting dead birds for analysis:
<http://wildlife.usask.ca/WestNileAlertHTML/WestNileAlertEng5.htm>

