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## Message from the President

We held the Interim Board Meeting in St. Catharines in April of 2005. I am pleased to report that the Finances of the Society are in good order and I extend my thanks to Kevin Barber (Treasurer) for his tireless efforts. Not only has he managed to present the financial status of the Society in a format that entomologists can comprehend, but he has also prepared a 5 year plan to ensure that our savings are working for us effectively into the future.

Yves Prevost has indicated that the upcoming volume of our Society's journal, JESO, will be his last as Editor. The search is on for a new Editor! If you know of someone who might be willing to take on this task, please let me know. We thank Yves for his terrific job as Editor!

I would like to stress that we are trying to move into the 21<sup>st</sup> century ... and this means using the ESO website for the dissemination of Society business. Please make sure when you renew your membership that you include a current email address. This way, we can email you when there are updates on the website!

The brevity of the present update should not be interpreted as a lack of activity within the Society. On the contrary, the ESO Committees have been pursuing their objectives actively and we will soon have information to share with you on electronic publishing for JESO and a number of public education initiatives. Laura Timms (Student Representative) is coordinating the next ESO meeting in Toronto (Fall, 2005) and John Huber (President-Elect) is already working on the Joint Annual Meeting of the ESO and ESC, to be held in Ottawa in 2008!

If you have any comments, suggestions or concerns about the way the Society is functioning on your behalf, please do not hesitate to contact me at [hunterf@brocku.ca](mailto:hunterf@brocku.ca).

Yours respectfully,  
Fiona F. Hunter



**INTRODUCING ... the ESO Curling Team.** Our "embryonic" team currently consists of Jim Corrigan, Jeff Cummings, Dave Hunt, Blair Helson, & Dave Hunt (retired ESO Librarian). They are planning to take on the world in a curling bonspiel before the ESO fall Meeting in Toronto.

## 142<sup>nd</sup> Annual Meeting of the Entomological Society of Ontario



October 21-23, 2005

Bahen Centre, University of Toronto

- plenary session on insects in urban environments
- awards for student papers and posters
- banquet and reception at the Faculty Club
- cockroach races
- student travel awards
- and MORE!

mark your calendars now, and check out  
[www.entsocont.com](http://www.entsocont.com) for more information

For more information on our 142<sup>nd</sup> Annual Meeting, please visit the ESO Website later this summer at

**[www.entsocont.com](http://www.entsocont.com)**

or

contact **Laura Timms**

[laura.timms@utoronto.ca](mailto:laura.timms@utoronto.ca)

## Obituary

### Ian Carmichael

Ian Carmichael of Fingal, age 68, died on Tuesday, April 19, 2005. Ian was married to his best friend Neva, for 45 years. He was the loved father of two children (Ron and Linda) and a cherished grandfather to 3 grandchildren.

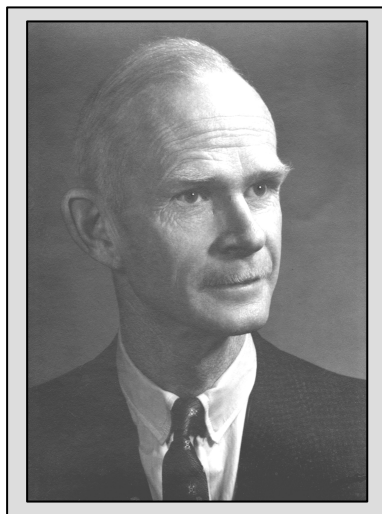
Ian was an engineering technologist (electronics) and retired from Emerson (Marconi) after 34 years. He was an avid nature photographer and loved nature. Ian was a member of the St. Thomas Field Naturalist Club, the McIlwraith Field Naturalists and the Elgin County Stewardship Council. He spent many happy hours helping to lay out and maintain trails at the Fingal Wildlife Management Area (his second home!). Ian and Neva did volunteer work for Pinery Provincial Park for the last 10 years, adding to the Park's nature slide and insect collections.

Perhaps Ian will be best remembered by our ESO members for his series of Southern Ontario Photo Field Guides of Dragonflies and Damselflies; Butterflies; Caterpillars. These guides contain photographs taken by Ian and his sister Ann Vance. At the time of his death, Ian was working on a Wildflower Guide. These guides are a wonderful legacy that he has left for future generations of insect and nature lovers here in Ontario.

At Ian and his family's request, in place of a memorial service they asked that you take a walk on a sunny afternoon, through the woods, down a trail, or in your own backyard and think of Ian. That is how he would like to be remembered.

## Obituary

### Anthony William Aldridge Brown 1911-2005



*Tony W.A. Brown, MBE, BSc, MA, PhD, FRSC*

Professor A. W. A. Brown, known to friends and colleagues as "Tony", died at Morges, Switzerland on the 17th of February, 2005 in his 94th year. He enjoyed a distinguished career as an entomologist, researcher, teacher, administrator, and as a consultant at home and abroad on the control of mosquitoes and insect vectors of diseases.

He was born in England at Horley in Surrey 18 November 1911. After a classical education at Winchester College (1925-1929) Tony immigrated to Canada and entered Trinity College at the University of Toronto. With limited financial resources he supported himself during the Depression with farmwork on the Prairies. The hard work he endured at this time established a pattern that subsequently paid off in accomplishment doing the science he enjoyed.

His group was the first to identify the altered carboxylesterase responsible for malathion resistance in several species of mosquitoes.

He gained his Ph.D. in 1936 in the Department of Biochemistry, University of Toronto, for an investigation of nitrogen metabolism in flesh-flies. He continued this work in the UK in 1936-37 at the London School of Hygiene and Tropical Medicine where he worked in the laboratory of Sir Vincent B. Wigglesworth and was supported by a Research Fellowship from the Royal Society of Canada. On returning to Canada he took a position as Sessional Lecturer in entomology at Macdonald College, McGill University. In 1938 he joined the Canada Department of Agriculture where he was appointed Assistant Entomologist and served as the Director of the Forest Insect Survey in the Gatineau River region of Quebec from 1938-1942. Throughout this period he maintained a broad interest in nature through his service as Editor of the Canadian Field-Naturalist. At this time he joined the Canadian Army as Lieutenant and was assigned to the Department of National Defence where he subsequently rose to the rank of Major in the Directorate of Chemical Warfare (Defence Research Board). He was appointed Head of the Entomological Section of the National Defence Experimental Station in Suffield, Alberta in 1945 where he remained until 1947. It is hardly surprising that the knowledge and experience gained in that work would find application in far off places where he acted on behalf of the World Health Organisation.

In 1947 Prof. Detwiler at the University of Western Ontario persuaded him to join the Department of Zoology as Associate Professor. He was appointed Head and Professor of Zoology in 1949 on the retirement of Professor Detwiler, a position he would hold

until 1968. The people he worked with at the time remember him as a patient and helpful senior colleague with a strong sense of what the Department was about and what was needed for success. He strongly believed in the principle that individual faculty members should have complete freedom in determining the content of their courses and how they were taught. His work with insects attracted much attention and served to put the Department of Zoology 'on the map', the result being that the Department was one of the first in the University to welcome a large and diverse group of international students.

While at UWO his research shifted from insect biochemistry and physiology, to problems involving the attraction of biting insects to human subjects, mechanisms of pesticide action, the ever increasing problem of pesticide resistance, and the use of pesticides in forestry, agriculture, and the control of insect vectors of human diseases. A significant scientific contribution by the Brown lab was the clear demonstration of the genetic basis of insect resistance to insecticides. Brown's research team was the first to identify the chromosomal loci responsible for DDT- and cyclodiene-resistance. Another significant contribution was the use of biochemical studies to determine the mechanism of insecticide resistance. He was an authority and sought as such by the World Health Organisation who accorded him the position of Biologist while he was on leave from the University during 1956-1958. He returned to the University from Geneva to continue his research on the toxicity and repellancy of various organic compounds and the resistance of many insects to insecticides then in use. This was the beginning of wider associations and other consultancies were the result, including the US Public Health Service.

After leaving UWO in 1968 he joined the World Health Organisation where he became Head of the Vector Ecology Section in Geneva, Switzerland. He served in that position from 1969 to 1973 when he was appointed Director of the Pesticide Research Center at Michigan State University and John A. Hannah Distinguished Professor. This enabled him to expand his interests in the ecology of pesticides and to take advantage of his experience in field problems of choice, distribution, and tactics relevant to large-scale insect control. He retired from Michigan State University in 1976 as the John A. Hannah Distinguished Professor Emeritus.

Tony Brown served Canada and his discipline with distinction. For this he was awarded an M.B.E. in 1946 for his wartime service in defence research, was elected a Fellow of the Royal Society of Canada in 1961 and awarded the Entomological Society of Canada Gold Medal for Achievement in 1963. Tony was elected President of the Entomological Society of Canada (1962), the American Mosquito Control Association (1965), the Entomological Society of America (1967), and the Canadian Society of Zoologists (1968). He was made a Fellow of the Entomological Society of Ontario (1969) and held honorary membership in the Entomological Society of America.

Tony married Jocelyn Evill in London, England in June 1938, following his year at MacDonald College. They returned to Canada and made their home in Ottawa during his early years with Canada Agriculture. Many happy summer vacations were spent at their cottage on Dwight Bay in Lake of Bays with their three daughters (Hilary, Virginia and Kathryn) and where they entertained friends and visiting colleagues. On retirement they moved to Switzerland, where he continued his association with the World Health Organisation. There they enjoyed the countryside and the mountains, including skiing in their younger years, and the relative proximity to colleagues and friends in the nearby countries of western Europe. They settled down in the village of Genolier in the Canton of Vaud, about half way between Geneva and Lausanne, in a house with an elegant prospect and in a countryside full of vineyards.

It was a fulfilling, varied and interesting life from beginning to end; a good friend and colleague at every stage of it.

John Steele

*Special thanks to ESO member John Steele for writing this memorial article for our members.*



## 2005 ELECTION OF ESO OFFICERS



The following are the biographies supplied by the candidates for the positions of President-Elect, Director, and Student Representative.

### **President-Elect (select one)**

#### **Gary Gibson**

Gary Gibson, a native Albertan, received his BSc from Simon Fraser University in 1971. After graduation he obtained a position in Agriculture and Agri-Food Canada as a technician in the Hymenoptera Unit at the Canadian National Collection of Insects in Ottawa. This stimulated an interest in Hymenoptera, which inexorably led him to where he is today. While working at the CNC he pursued a MSc on a part time basis at Carleton University, studying sawfly taxonomy. In 1979 he left Ottawa and switched to parasitic Hymenoptera for his PhD at the University of Alberta, Edmonton. Apparently having not burned his bridges, he was rehired at the CNC in 1985 and since then has studied the systematics of Chalcidoidea, which are widely acknowledged to be the most beautiful of all insects. He co-edited *Annotated keys to the Genera of Nearctic Chalcidoidea*, maintains an Internet site on `chalcid wasps` (<http://canacoll.org/Hym/Staff/Gibson/chalcid.htm>) and has about 45 publications, including 4 Memoirs.

Gary was treasurer of the International Society of Hymenopterists, 1990-1995, and has been advising editor for Hymenoptera for *Insect Systematics and Evolution* since 1990. He has also taken an active role in the national Society, being an Associate Editor for *The Canadian Entomologist*, 1990-1995, Chair of the ESC Finance Committee, 1992-1995, and Treasurer, 1996-2004, except during one year of work transfer in Australia in 1999. His experience as ESC Treasurer convinced him that professional societies must demonstrate a value to members if they are to retain and enhance membership, which is necessary for a dynamic Society, and during his tenure worked to increase funding for student scholarships as well as ensuring a profitable Society.

#### **Blair Helson**

Blair Helson obtained an Honours BSc, Biology in 1970 and an MSc, Biology in 1972 at Queen's University in Kingston Ontario. He then attended the University of Waterloo where he received his PhD in Biology in 1975. After spending one year at the University of Manitoba as an NRC Postdoctoral Fellow, he returned

to Ontario where he joined the Department of Environmental Biology at the University of Guelph as a Research Associate. For six years he carried out studies on the biology and management of mosquitoes in Ontario as related to the Saint Louis Encephalitis outbreak in Windsor in 1975. He then was hired by the Canadian Forest Service in 1982 as a Research Scientist at the Forest Pest Management Institute in Sault Ste Marie to lead the Project on Insecticide Toxicology. In this capacity he has been identifying and developing promising new insecticides for the management of forest insect pests. Since 1992 he has been focusing on the development of effective and safe natural products, particularly azadirachtin from the seeds of the neem tree. He recently developed an efficient device for injecting neem formulations and other systemic insecticides into trees which has provided the opportunity to assess this very promising approach for managing important new invasive species in Canada including the Brown Spruce Longhorn Beetle, Emerald Ash Borer and Asian Long-horned Beetle. Most of his 30+-year career has been devoted to the management of insect pests in Ontario.

Blair has been a member of several professional societies including the Entomological Society of Ontario, Canada and America, the American Mosquito Control Association (Regional Director for Canada 1979-83) and was a founding member of the Ontario Mosquito Control Association. He served as Vice President, President and Past President of the OMCA from 1977-1980.

Blair has been a longtime and devoted member of the Entomological Society of Ontario. One of the first meetings he attended was in 1972 at Chalk River, Ontario when he was a PhD student. He is second from the left, first row in the photo in Entostalgia. Clearly, he hasn't changed at all. Ironically, next to him is Chandra Nigam, who Blair replaced at the Forest Pest Management Institute in 1982. In 1973, he entered the President's Prize competition at the meeting in Kingston and had the honour of winning it. He served as Director from 1989-1991 and as Treasurer from 1996-2003. During his tenure as Treasurer, the Society had the good fortune of remaining sound financially.

If elected as President-Elect, Blair Helson would be greatly honoured to serve the Entomological Society

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of Ontario once again in this new capacity. He would actively promote two crucial roles of the Society:

1. the dissemination of entomological knowledge through the continued publication of a high quality JESO and implementation of mechanisms to enhance its reputation, and 2. foster entomological education in Ontario through travel grants, scholarships and other incentives for students.

### **Directors (select two)**

#### **Art Schaafsma**

Arthur (Art) W. Schaafsma  
Associate Professor  
Department of Plant Agriculture  
University of Guelph at Ridgetown College  
Ridgetown, ON N0P 2C0  
voicemail: 519 674 1624  
fax: 519 674 1555  
email: [aschaafs@ridgetownc.uoguelph.ca](mailto:aschaafs@ridgetownc.uoguelph.ca)

BSc (Agr), MSc and PhD (Plant Protection) University of Guelph

**1983-1985** Field development with ELANCO in Manitoba

**1985-1987** National Regulatory and Product development management with Union Carbide

**1987-2005** Field Crop Protection research, teaching and extension Ridgetown College, University of Guelph

#### **Laura Timms**

Laura's interest in entomology originated while completing a BSc (1997) in Zoology at the University of Guelph. At Guelph she had the opportunity to learn a great deal and have a great deal of fun while working on the monarch butterfly-*Bt* corn project. She continued to develop her entomophilia while working as a summer student at the CABI Bioscience research station in Switzerland, and as a research technician in the biocontrol lab of Agriculture and Agri-Food Canada in Ottawa. Laura has been a student at the University of Toronto since 2003, and she recently defended her MSc thesis on the within-tree distribution of the Emerald Ash Borer. She plans to continue her studies at U of T in the fall, with a PhD on the impacts of gypsy moth introduction on native parasitoids.

You may be familiar with Laura's name from your email inbox. She has held the position of Student Representative on the ESO Board for the past two years; during this time she created and maintained a student email list for posting job ads and messages of entomological interest. She has also taken on the task of organizing the 142<sup>nd</sup> Annual Meeting of the

ESO, being held in Toronto this coming October. Laura has enjoyed being a member of the Board for the past two years and would like the opportunity to continue to work with the ESO to encourage and promote entomology in Ontario.

#### **Sherah VanLaerhoven**

Dr. Sherah VanLaerhoven received her BSc at Simon Fraser University in Biological Sciences. During her BSc, she worked for Agriculture and Agri-Food Canada in the areas of greenhouse biological control under Dr. David Gillespie and physical controls of insect pests in field crops under Dr. Bob Vernon. She worked in forest entomology and pheromone control of bark beetles under Dr. John Borden. It was also during her BSc that she was introduced to forensic entomology and Dr. Gail Anderson, who had just completed her PhD at SFU. Drs. Anderson and VanLaerhoven conducted the first experimental research in the area of forensic entomology in Canada. This led to a Master of Pest Management degree from Simon Fraser University, with a thesis examining insect succession on buried carrion under Dr. Anderson. Finally, Dr. VanLaerhoven completed her education with a PhD in Entomology at University of Arkansas, with a dissertation in ecology of southern pine beetle parasitoids under Dr. Fred Stephen. Dr. VanLaerhoven returned to British Columbia to a postdoctoral position with Dr. David Gillespie (Agriculture & Agri-Food Canada) and Dr. Bernie Roitberg (Simon Fraser University). During her postdoctoral position, Dr. VanLaerhoven examined ecological and behavioural aspects of *Dicyphus hesperus* Knight (Heteroptera: Miridae), an omnivore used in greenhouse tomato biological control.

Dr. VanLaerhoven accepted a position at the University of Windsor in July 2003 as the Director of the Forensic Science and Forensics & Criminology Programs. She is the forensic entomologist for the province of Ontario, as appointed by the Office of the Chief Coroner, and accepts insect evidence from central and eastern Canada for forensic analysis. Dr. VanLaerhoven's research laboratory conducts research testing hypotheses of community assembly, such as trophic interactions and intraguild predation that are critical to both forensic entomology and biological control applications.

### **Student Representative (select one)**

#### **Christine Bahlai**

I first discovered the world of entomology as an undergrad while studying physics and chemistry at the University of Guelph. Working as a lab assistant for Rebecca Hallett with the pea leafminer and swede midge, I found a satisfaction working with insects that titrations and pages of algebra had never given me.

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## Student Representative continued (select one)

### Christine Bahlai

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Soon, I was obsessed. I began avidly collecting insects and eagerly working on as many research projects as I could. Upon completion of my bachelor's degree in January 2005, I began my MSc at the U of G under the supervision of Mark Sears. My current research focuses on the ecology of the multi-coloured Asian lady beetle in Ontario with an emphasis on integrated pest management and trophic interactions in agroecosystems.

I have been an active member of the ESO since joining in April 2004. I participated as a volunteer staffing the ESO table at the 2004 Ontario Insect Fair and have made newsletter contributions. I was awarded the President's Prize in the ESO 2004 poster competition for a poster based on my undergraduate thesis work on parasitoids of the pea leafminer.

I recently gave a talk to the Toronto Entomological Association on my quest to find Brood X cicadas. I believe that encouraging an appreciation for insects through education of children and adults is extremely important and helps foster a respect for nature and science. If elected, I hope to encourage student and youth participation in the Society, and organize outreach activities amongst my peers. Specifically, I would like to see active promotion of Society activities to undergraduates in either the classroom or via the organization of on-campus student chapters.

### Aynsley Thielman

I graduated from the University of Guelph in 2000 with a BSc degree in Molecular Biology and Genetics. During my years at Guelph, I first volunteered, and then worked, in a Human Genetics laboratory, focusing mainly on animal protein and antibody isolations. I held various positions in student organizations including Public Relations Executive and Vice President of the College of Biological Sciences Student Council (CBSSC), as well as Student Representative for the CBBSC to the Central Student Association (CSA). However, it wasn't until I started working with Dr. Fiona Hunter at Brock University on the West Nile Virus Mosquito Surveillance Program at Brock University in St. Catharines that I developed an interest in entomology. From 2001 until 2004, I was the Senior Laboratory Manager, concentrating mostly on mosquito identification. In January 2005, I began an MSc degree at Brock University involving the morphological, cytogenetic, and molecular analysis of the genus *Anopheles* (Diptera, Culicidae).

In addition to my positions on the CBBSC, I was also

on the Board of Directors for the CSA, as well as for the Agnus Macphail Women's Co-operative (a housing co-op I lived in) for four years, two of which I served as the Vice President. With so much experience, I believe I would be an asset to the student members of the ESO as their representative. I have also helped develop and organize a variety of workshops and conferences. If elected, I plan to continue the mailing lists initiated by our current ESO Student Rep, Laura Timms, to help students and faculty connect regarding job postings, scholarship and award information, etc. Although I have chosen to continue to study mosquitoes, participation in numerous entomological conferences has instilled in me a passion for all insects. I welcome the opportunity to become more involved in the entomological community and to learn more about the business of a scientific society.



## Student Awards For ESO's Annual Meeting!

**U**niversity, college professors, and all teachers of entomology: Please inform your students of the ESO student awards for undergraduates and graduate students!

This is a great year for students to join the Entomological Society of Ontario. Each year the Entomological Society of Ontario provides travel grants to assist students with their travel expenses to the annual meeting. The ESO awards both a **graduate and undergraduate** travel grant worth \$250 each!

Student members of the ESO who are presenting a poster or paper at the Annual Meeting of the Entomological Society of Ontario being held 21-23 October 2005 at Brock University in St. Catharines are eligible to apply. In addition to travel awards, there will also be **President's Prizes** awarded at the meeting for exceptional paper and poster presentations. Student memberships in the ESO are free but must be renewed each year.

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

### Deadline for application is September 30, 2005.

Grant recipients will be notified before the October 2005 meeting.

Please send application to:  
Tracey Baute, ESO Director,  
OMAF, P.O. Box 400, Main Street East  
Agronomy Building, Ridgetown College  
Ridgetown, Ontario N0P 2C0  
[tracey.baute@omaf.gov.on.ca](mailto:tracey.baute@omaf.gov.on.ca)



## ESO COLLECTOR'S CORNER:

### Help locate nesting sites for beetle-hunting wasps

Our group at University of Guelph is studying nesting aggregations of *Cerceris fumipennis*, a buprestid-hunting wasp first recorded from Ontario in 2004 (Buck, 2004). We need your help in locating further nesting aggregations!

Aggregations are easy to recognize since *C. fumipennis* is the only large (? : 10-12 mm, ? : 12-15 mm) wasp in our area that you will see flying to ground nests with buprestid beetles slung under their bodies. Nesting aggregations should occur from late June until mid September on patches of hard-packed, open soil in wooded areas such as the edges of sport fields or little-used parking spots on dirt roads (our main study site at the moment is perennial nesting site on the bare ground near an infrequently used campfire site).

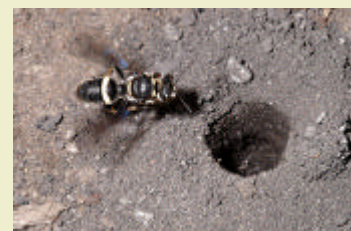
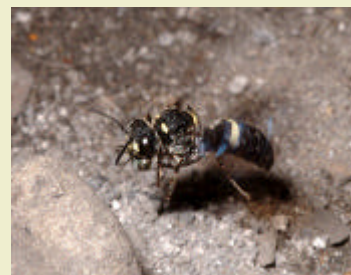
The wasps are also distinctive for their dark wings, and a single, broad, pale yellow, abdominal band on tergite 2 (see adjacent photographs). This wasp occurs in southern (Carolinian) Ontario, with most current records near the lakeshore.

If you spot prey-carrying wasps that fit this description please call or email Steve Marshall.



Steve Marshall  
[samarsha@uoguelph.ca](mailto:samarsha@uoguelph.ca)  
519-824-4120 X52720

Thanks for your help!



## Insects In the News

### NEW: Safety Tips on Black Widow Spiders in Grapes

The main page on the CFIA website:

<http://www.inspection.gc.ca/english/corpaffr/foodfacts/grapraise.shtml>

### Asian Longhorned Beetle (*Anoplophora glabripennis*):

The main page for this pest on the CFIA website:

<http://www.inspection.gc.ca/english/plaveg/protect/pestrava/asialong/asialonge.shtml>

### North American Plant Protection Organization:

Updates on new pests: <http://www.pestalert.org/main.cfm>

### THE USUAL SUSPECTS:

#### Emerald Ash Borer (*Agrilus planipennis*):

The main page for this pest on the CFIA website:

<http://www.inspection.gc.ca/english/plaveg/protect/pestrava/ashfre/agrplae.shtml>

#### West Nile Virus:

Health Canada website (check out the new 2004 data):

<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>

## PLEASE RENEW

## YOUR 2005 MEMBERSHIP

ESO membership dues are so reasonable they can easily be forgotten. However, your Society depends on these revenues and appreciates prompt remittance.

Members who have not renewed will find an invoice included with this newsletter - please mail it with your payment today.

### Send your invoice and payment to:

Dave Hunt, ESO Secretary  
Agriculture and Agri-Food Canada  
Greenhouse and Processing Crops Research Centre  
2585 County Road 20  
Harrow ON N0R 1G0

Student, amateur and emeritus memberships are free but must be renewed each year! Free memberships may be renewed electronically by sending an email to our secretary at:

[hunt@agr.gc.ca](mailto:hunt@agr.gc.ca)



# THE BUZZ

*Fads and trends from our six legged friends*



It's time again for the fashion conscious entomologist to break winter diapause and emerge into the sunshine!

Last year was the year of the periodical cicada. Those big ugly brown bugs with their beady orange eyes were popping up on t-shirts, as cicadas, and even on pizzas in some places. But the cicada was a passing fad and has gone the way of the Macarena. Cicada inspired garb is so 2004 (or 1987, depending on how you look at it- but let's hope this doesn't mean there will be a Macarena resurgence in 2013!). So toss out those 17-year locust socks and step into 2005!

For spring and summer 2005, every chic bug geek will be pleased to know insect inspired utilitarianism is the look of the season. The must-have looks of the season:

**The Buzz:** Hip waders- they aren't just for fishermen anymore! Chasing aquatic insects used to be a soggy task, but you'll be as comfortable and protected as a caddisfly larvae while wearing these babies. Don your adaptability with pride! Look for hip waders next winter as well- they're a great snow pants substitute that keeps your ankles dry and warm!



*Caddisfly case, available in most rivers. Photo from [www.parish-wildlife.org.uk](http://www.parish-wildlife.org.uk).*

*Hip waders, available at most Canadian Tire stores, about \$50. Creepy headless man sold separately.*

**The Buzz:** Hooded sweatshirts. Make like the clever cockroach and protect your neck while keeping your bug-searching eyes on the ground. For those cooler nights, hoodies keep the mosquitoes off your neck, and the zippered variety are ideal for thermoregulation (think in layers!)



*Hissing (not hooded) cockroach. Photo from [www.explorelifeneearth.org](http://www.explorelifeneearth.org).*

*Hooded sweatshirts by Denver Hayes. Available at Mark's Work Wearhouse, \$34.99*

**The Buzz:** Pockets galore- a look straight off the apiculturist's runways in clover-filled valleys all over the world. Tons of pockets, inspired by bees' pollen baskets, are great for stuffing full of vials, aspirators, and field guides. For hikes and walks in the wilderness, this look is simply the bee's knees!



*Bee with full pollen baskets. Photo from [www.wikipedia.com](http://www.wikipedia.com).*

*Deluxe vest by Crystal River, available at Canadian Tire, \$69.99.*

*Cargo pants by WindRiver, available at Mark's Work Wearhouse, \$49.99*

Christine Bahlai

## Treasurer's Report

### FISCAL 2004

The following is the annual financial report for the period 01 January to 31 December 2004. Carl Nystrom and Leo Cadogan (Great Lakes Forestry Centre, Sault Ste. Marie) audited the report on 23 February 2005 and the results were favourable and forwarded to the Secretary.

This report is the first fiscal report based on a calendar year in the past several years (previously AGM to AGM). This opportune change necessitated a transitional report in the past year that covered only the last 5 weeks of 2003.

A new format for reporting emphasizes the business activities of the ESO while still reporting bank balances. We now have a Savings Account (CDN\$) that will be used to hold the majority of our cash while earning a higher rate of interest. The Chequing Account will now be used primarily to pay bills and, as before, the US Account will receive international payments for subscriptions, page charges, and dues.

The left side of this financial report gathers all fiscal transactions (except inter-account transfers and accruing bond interest) in all three accounts and assigns them in CDN\$ to three main activity areas. This will assist in matching income source with particular expenditures and new initiatives. The last line of the left side provides an estimate of the Fiscal Balance of these transactions (incl. US\$ transactions in CDN\$).

Carrying the Fiscal Balance forward to the right side begins the calculation of Total Assets by breaking down the Fiscal Balance into its three component parts (accounts). From here, inter-account transfers and the respective portions of the Fiscal Balance are attributed to each account leading to determinations of closing balances in each (the detail of these transactions was previously captured in the left side of the page). Subsequently, the US Account closing balance in CDN\$ and the Principal and Interest for our Ontario Savings Bonds are reported, and a final estimate of Total Assets provided.

Under **Publication**, payment for page charges (incl. reprints) was received from authors contributing to Vols. #132 & #133 (\$3,120) and no further outstanding page charges remain for previous volumes (Vol. #131 - \$315 written-off). Page charges for Vol. #134 have been invoiced (\$1,205) and subscription payments of \$7,519.11 have been received. Balancing "journal voucher" (JV) lines have been incorporated here and in the General area to reflect decisions to waive page charges (\$3,220) (to record otherwise invisible transactions that might reflect poorly on the financial health of JESO). The Preparation (Layout) for Vol. #134 is considerably higher this year (\$6,612.50) while the printing cost of \$5,427.38 is in line with previous years and size of volume. It should be noted that the balance of \$3,132.56 is partially offset by the \$3,120 in page-charge income from previous volumes while the outstanding page charges (\$740) and subscriptions (\$180 CDN plus \$540 US) only partly make up this difference.

Under **General**, membership dues of \$2,580.79 have been received and most of the bank interest arises from the new Savings account. We also received a Public Encouragement Grant from the Entomological Society of Canada (\$600) to be balanced against last year's donation to E.O.B.M. (\$200) and the Job Fair at AGM2003 (\$400). Expenditures included postage, stationery, and printing supplies assigned to source (Newsletter Editor, Secretary, Treasurer - the first two are currently functionally combined). Mailing charges for JESO 134 have climbed but better reflect the real costs at \$784.72 (included under "Treasurer").

Under **Meeting**, the loan (\$500 repaid) provided to the AGM2004 organizing committee is identified along with assignment of \$400 of the ESC grant against the previously mentioned Job Fair expenses. The cash surplus from AGM2003 has been received (\$1,421.43) but the actual operating surplus, after adjusting for ESO business (\$174.80 - \$115 = \$59.80) conducted at AGM2003 and the ESC grant income, is \$1,881.23.

The Society is in sound financial shape and presently has a reserve of about \$22,000 in the three bank accounts. In addition, the principal amount of the Ontario Savings Bonds (\$20,000) has accrued an estimated \$2,883.80 in interest. Total Assets are currently estimated at \$44,902.06.

Kevin Barber



# Entomological Society of Ontario -- Treasurer's Report

01 January to 31 December 2004

Fiscal 2004

<b>FISCAL BALANCE</b>	<b>Fiscal 2004</b>
<b>1. Publication (JESO Volume/Printer)</b>	<b>(134/UTP)</b>
<b>Credits</b>	
Page Charges - Previous Vol(s). (cheq)	\$ 3,120.00
Page Charges - Current Vol. (svgs)	\$ 1,365.00
1 Page Charges - Current Vol. (U\$ to C\$)	C\$ \$ -
Subscriptions (svgs)	\$ 660.00
Subscriptions (cheq)	\$ 300.00
1 Subscriptions (U\$ to C\$ equiv.)	C\$ \$ 6,559.11
1 Returned Cheque (U\$ to C\$ equiv.)	C\$ \$ -
2 Page Charge Waivers/Grants (JV)	\$ 3,220.00
	<b>\$ 15,224.11</b>
<b>Debits</b>	
JESO Volume Production	\$ 5,427.78
JESO Volume Preparation	\$ 6,612.50
JESO Editor	\$ 51.27
	<b>\$ 12,091.55</b>
<b>Publication (Subtotal 1)</b>	<b>\$ 3,132.56</b>
<b>2. General</b>	
<b>Credits</b>	
3 Dues (svgs)	\$ 1,093.47
Dues (cheq)	\$ 1,440.00
1 Dues (U\$ to C\$ equiv.)	C\$ \$ 47.32
Interest/Credits (svgs)	\$ 246.14
Interest/Credits (cheq)	\$ 33.19
Bond Interest (svgs)	\$ -
ESC Grant - Pub.Encour. (EOBM) (svgs)	\$ 200.00
3 Miscellaneous (svgs)	\$ 55.00
Advances (Newsletter, President) (cheq)	\$ -
	<b>\$ 3,115.12</b>
<b>Debits</b>	
Newsletter Editor	\$ 1,288.80
Secretary	\$ -
4 Treasurer	\$ 903.00
Website	\$ 63.65
5 Prizes, Awards	\$ 2,276.78
Bank Charges	\$ 82.53
Returned Cheque (Award)	\$ -
Equipment Grant (EOBM)	\$ -
6 Public Education (OIF; posters)	\$ 88.83
2 Page Charge Waivers/Grants (JV)	\$ 3,220.00
	<b>\$ 7,923.59</b>
<b>General (Subtotal 2)</b>	<b>\$ (4,808.47)</b>
<b>3. Meeting</b>	
<b>Credits</b>	
AGM Surplus (svgs)	\$ 1,421.43
3 ESO income balanced (svgs)	\$ (115.00)
ESC Grant - Pub.Encour. (JobFair) (svgs)	\$ 400.00
AGM Loan Return (svgs)	\$ 500.00
	<b>\$ 2,206.43</b>
<b>Debits</b>	
AGM Loss	\$ -
AGM Loan	\$ 500.00
5 ESO expenses balanced	\$ (174.80)
	<b>\$ 325.20</b>
<b>Meeting (Subtotal 3)</b>	<b>\$ 1,881.23</b>
<b>FISCAL BALANCE (Subtotals 1-3)</b>	<b>\$ 205.32</b>

<b>TOTAL ASSETS</b>	<b>Fiscal 2004</b>
<b>FISCAL BALANCE (Subtotals 1-3)</b>	<b>\$ 205.32</b>
Fiscal Activity - CDN Svgs Account	\$ 5,826.04
Fiscal Activity - CDN Cheq Account	\$ (12,227.15)
1 Fiscal Activity - US Account	C\$ \$ 6,606.43
<b>TOTAL ASSETS</b>	
<b>CDN Savings Account</b>	
<b>Opening Balance</b>	<b>\$ -</b>
Transfer from CDN Cheq. Acc't	\$ 16,000.00
Transfer from US Acc't	\$ 9,481.50
Transfer to CDN Cheq. Acc't	\$ (16,000.00)
Fiscal Activity	\$ 5,826.04
<b>Closing Balance</b>	<b>\$ 15,307.54</b> A
<b>CDN Chequing Account</b>	
<b>Opening Balance</b>	<b>\$ 15,152.91</b>
Transfer from US Acc't	\$ -
Transfer from CDN Svgs. Acc't	\$ 16,000.00
Transfer to CDN Svgs. Acc't	\$ (16,000.00)
Fiscal Activity	\$ (12,227.15)
Bonds Mature	\$ -
Bond Purchase	\$ -
<b>Closing Balance</b>	<b>\$ 2,925.76</b> B
<b>US Account</b>	
<b>Opening Balance</b>	<b>US \$ 4,615.19</b>
Transfer to CDN Svgs. Acc't	US \$ (7,000.00)
Transfer to CDN Cheq. Acc't	US \$ -
1 Fiscal Activity	US \$ 5,584.00
<b>Closing Balance</b>	<b>US \$ 3,199.19</b>
<b>CDN equivalent</b>	<b>C\$ \$ 3,784.96</b> C
<b>Investments - Ontario Savings Bonds</b>	
2001 - Principal	\$ 10,000.00
* 2001 - Previous Accumulated Interest	\$ 1,261.00
* 2001 - Current Interest	\$ 676.40
2002 - Principal	\$ 10,000.00
** 2002 - Previous Accumulated Interest	\$ 462.50
** 2002 - Current Interest	\$ 483.90
<b>Total Investments - OSB</b>	<b>\$ 22,883.80</b> D
<b>TOTAL ASSETS (A+B+C+D)</b>	<b>\$ 44,902.06</b>
<b>Increase (Decrease)</b>	<b>\$ 1,994.98</b>
- Attributable to fiscal transactions / OSB int.	\$ 2,055.80
- Attributable to change in exchange rate	\$ (60.82)
7 US account transfer exchange rate	1.3545
8 Reporting exchange rate (interim/year-end)	1.1831
9 Previous year-end exchange rate	1.3067
10 Member dues rates	\$30/\$0/\$10
* 5-year step-up (4.25, 5.00, 5.75, 6.25, 6.75%) mature 20 June 2006	
** 3-year fixed rate (4.625%) - mature 20 June 2005	
* ** as of 20 December 2004 - Bond Calculator -	
http://www.ontariosavingsbonds.com/calculator.asp	
1 - US account transactions converted to C\$ to calculate "Fiscal Balance" then reported in US Account in U\$	
2 - page charge waivers accounted for with Journal Voucher	
3 - credit of registration to dues \$60; sale of ESO pins \$55	
4 - Vol.134 mailing \$784.72; printer cartridges \$102.23; envelopes \$16.05	
5 - plaques for Fellows \$174.80, for retiring Officers \$101.98; Student Travel Awards \$1250; President's Prizes \$750	
6 - Ontario Insect Fair \$70.13; UofG Insect Collection posters to school \$18.70	

## Notice the changes to the reporting of ESO Finances in 2005

In 2004, we switched the fiscal year back to a calendar year, added a yearly estimate of our accruing Bond interest in our Financial Summary and opened a new Savings Account to add to our Canadian and US Chequing Accounts.

We have restructured our current Financial Report to emphasize the business activities of the ESO. Transactions are clustered around our 3 main areas of Society business (Publication (JESO), General and Meeting). We report 3 bank account balances, bond interest and an estimate of our Total Assets. This document is intended to provide a transparent report of the ESO business affairs to our Auditors, ESO Board and Members. The reporting format is a work-in-progress and **feedback is requested** ([kbarber@nrcan.gc](mailto:kbarber@nrcan.gc)). **Bring your opinion to our open discussion at the fall AGM.**

# Entomological Society of Ontario Collections at the University of Guelph Library

## – Part one, The E.S.O. Library

*The Entomological Society of Ontario has had a long association with the University of Guelph. Twice in its history the Society has donated significant collections to the University's Library. This article considers the Library collection of the Society. A subsequent article will consider the Society's Archives.*

### The E.S.O. Library

Prior to 1969 the E.S.O. Library was housed in a basement room of the University's Zoology building. According to correspondence available in the University of Guelph archives the space was "unsuitable to the storage of books and periodicals because of high temperatures and generally low humidity" and because of the dangers of water leaks from overhead piping.<sup>1</sup> The same document also indicates that the increasing space demands of the expanding Zoology department was placing pressure on the Society's Library, and that the E.S.O. Librarian (W.C. Allen) expected to receive a "please vacate" notice at any time. Fortunately the constitution of the Society and the Letters of Agreement with the University guaranteed a permanent home for the E.S.O. Library at the University.

In 1969 the E.S.O. donated its book and periodical collection to the University and the material was transferred to the newly opened McLaughlin Library. There was some controversy leading up to the donation that centred on how the Society wished the University Library to house and maintain their collection. The President of the Society, J. MacBain Cameron, and other Directors felt very strongly that the E.S.O. Library collection should be maintained as a separate collection within McLaughlin Library with its own card catalogue.<sup>2</sup> What was finally negotiated, however, was not what the Society desired. The E.S.O. Library's collection was fully integrated into the University Library's collection. I am still going through the E.S.O. archival material trying to find more detail about the negotiations between the Society and the University Library. Undoubtedly there will be other records that will shed more light on the negotiations and transfer.

When the Society's collection was added to that of the University Library the material was tagged in such a way that its origin was readily identifiable. Today if one searches the University of Guelph Library catalogue using the phrase "Entomological Society of Ontario", over 1,100 records are found. Browsing the E.S.O. collection in this way leads to many wonderful discoveries. There are a few very

early items dated from the eighteenth century like a 1756 edition of Carl Linnaeus' Systema Naturae: Sistens Regna Tria Naturae in Classes Et Ordines, Genera Et Species Redacta, Tabulisque Aeneis Illustrata. Accedunt Vocabula Gallica. There are many more items from the nineteenth century such as the Introduction to the Modern Classification of Insects: Founded on the Natural Habits and Corresponding Organisation of the Different Families by J.O. Westwood published in 1833, and an 1859 edition of Thomas Say's Complete Writings on the Entomology of North America. Edited by John L. Le Conte. With a Memoir of the Author, by George Ord.

The Society's collection within the University Library collection is continuing to grow. The Society maintains exchange partnerships with 32 Canadian and international organizations with interests in entomology that brings in 40 titles, mostly journals, to the collection.

Society members wishing to browse the E.S.O. collection at the University of Guelph can do this online by going to the University Library's web page ([www.lib.uoguelph.ca](http://www.lib.uoguelph.ca)); clicking on the TRELIS Catalogue link; selecting the Combining Keywords (Menu) tab; and entering "Entomological Society of Ontario" as the search phrase. The results page features an option to sort the search results in a variety of ways.

### References:

1. Correspondence from D.H. Pengelly, Secretary-Treasurer, ESO to the Directors of the Society, dated May 1, 1967.
2. Correspondence from J. MacBain Cameron to W.C. Allen, dated March 10, 1969.

Jim Brett



Another shot of our mean looking **ESO Curling Team**.

Spread the word about this feature in the ESO Newsletter. . . .

Graduate Position Announcements

# GRAD ADS



## M.Sc. PROJECT in FOREST ENTOMOLOGY



Funds are available for an M. Sc. project studying the ecology of parasites associated with populations of the Bronze Birch Borer (*Agrilus anxius*) in Sudbury, Ontario and their possible use against the introduced Emerald Ash Borer (*Agrilus planipennis*) in Southwestern Ontario.

This project, funded by the Ontario Ministry of Natural Resources,  
will be supervised by:

**Dr. J. D. Shorthouse**  
Department of Biology  
Laurentian University  
Sudbury ON P3E 2C6

and

**Dr. B. Lyons**  
Canadian Forest Service  
Great Lakes Forestry Centre  
1219 Queen Street East  
Sault Ste. Marie ON P6A 2E5

Email: [jshorthouse@laurentian.ca](mailto:jshorthouse@laurentian.ca)

Email: [blyons@nrcan.gc.ca](mailto:blyons@nrcan.gc.ca)

For further information, contact one of the above.

For information on Laurentian University, see:

<http://www.laurentian.ca>



### ESO CREATIVE WORKS:

#### Where ESO members can show their creative side

##### Breakfast for one

Masticating the  
chewy, gooey aphid parts  
ladybug finds peace.

##### Empty calories

For an aphid, life  
is swift and cruel like the  
cold November rain.

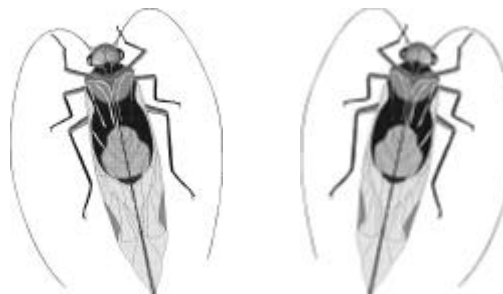
##### Mr. Praying Mantis

Rapture, delight, the  
vision of a future "ouch!"  
darkness closes in.

Zachary Peters

**Zachary Peters** works as a technician with MSc candidate, Christine Bahlai in the Department of Environmental Biology at the University of Guelph. We thank Zachary for giving us permission to publish three of his poems.

Why not consider submitting your creative work for the next newsletter? We'd like to showcase your talents. Cartoons, artwork or any kind of creative work is welcome here.







## Upcoming Events: EVENTS & MEETINGS IN ONTARIO

### TORONTO ENTOMOLOGIST'S ASSOCIATION

The TEA meets at 1 Pm on the 4th Saturday of the month from September to April, usually in Room 113 of Northrop Frye Hall at Victoria College. Meetings for the 2005/6 season are: Sept 24, Oct 22, Nov 26, Jan 28, Feb 25, Mar 25, and April 22. Details of the meetings will be available on the TEA website - [www.ontarioinsects.org](http://www.ontarioinsects.org) - in early September

The TEA conducts a number of summer field trips and around 30 insect counts throughout Ontario. Everyone is welcome on the counts, whatever your skill level. There is no fee. Please join us!

### SUMMER FIELD TRIPS

#### June 18, 11 am\* Butterfly Rearing

We will be visiting Rod Parrott's butterfly-rearing facilities near Port Hope, where he raises butterflies and moths for conservatories and butterfly houses. In the afternoon we will go to several local butterfly and odonate habitats. Bring lunch, water, nets and guides.

#### July 1, 9 am TEA East Toronto Butterfly Count

##### Co-ordinator: Tom Mason

Bone up on your ID skills and help count butterflies in the Rouge or Don Valley. This is an official NABA count and the TEA will pay your participation fee. For those counting in the Rouge, meet at the Pearse House. From Sheppard Ave go north on Meadowvale

Rd; take the exit to the Toronto Zoo but turn RIGHT at the first turn and park along the side of the road.

Call Tom Mason (905-839-6764) if you plan to participate. Bring nets, containers, lunch and water. No collecting in the Rouge.

#### July 12, 8 pm High Park Moth Night

##### Leaders: Dave Beadle, Tom Mason

This is a joint outing with the High Park Community Advisory Council. Members of the public are invited to join TEA members Dave Beadle, Carolyn King, Tom Mason and Karen Yukich for an evening of moth-catching and identification. A \$2 donation is requested. Meet at the benches across from the Grenadier restaurant at 8:15 pm. This outing is especially good for children – bring the whole family!

For more information contact Carolyn King at 416-222-5736 or [cking@yorku.ca](mailto:cking@yorku.ca).

No collecting. Bring insect containers, a flashlight, moth guides if you have them.

#### August 13, 10 am\* Spiders Of Blackwater/Beaver Creek

##### Leader: Tom Mason

We've had such a good time here looking at spiders and everything else, we're going back again. Streams, ponds, bridges, weedy vegetation: all the places spiders like to be. Meet on the road shoulder where Beaver Creek flows under Hwy 12 just south of Blackwater. Bring insect containers, nets, hand lens, water and lunch. (Note: Easy walking)

\*NOTE: Occasionally we have to change the date or start time of an outing, so it's important that we know whether you plan to attend. Please contact the organizers: Carolyn King (416)222-5736 [cking@yorku.ca](mailto:cking@yorku.ca) or Steve LaForest (905)720-2784

For more details and for updates, visit [www.ontarioinsects.org](http://www.ontarioinsects.org)

### 142nd Annual Meeting of the ESO - Bahen Centre, University of Toronto, Toronto, ON - October 21-23, 2005

Meeting Theme: Insects in Urban Environments (see page 2 of this newsletter)

For information, contact Laura Timms ([laura.timms@utoronto.ca](mailto:laura.timms@utoronto.ca))

## MEETINGS: OUTSIDE ONTARIO

### 55th ESC Annual Meeting

Joint Meeting of the Entomological Society of Canada and the Entomological Society of Alberta, November 2-5, 2005, Radisson Hotel & Conference Centre, Canmore, Alberta  
Meeting Theme: A Celebration of Life's Little Wonders

<http://people.uleth.ca/~dan.johnson/lac2005/esc-canmore.htm>

**ESA Annual Meeting**, November 6-9, 2005, Greater Fort Lauderdale/Broward County Convention Center, Fort Lauderdale, Florida

Website: [http://www.entsoc.org/annual\\_meeting/current\\_meeting/index.htm](http://www.entsoc.org/annual_meeting/current_meeting/index.htm)

### Eastern Branch ESA Annual Meeting

March 12-14, 2006, Charlottesville, VA; Omni Hotel

Website: <http://www.ento.vt.edu/EBESA/mtnginfo.html>

### 54th North Central Forest Pest Workshop

September 19-22, 2005, Radisson Hotel in downtown LaCrosse, Wisconsin

Website:

<http://www.na.fs.fed.us/spfo/ncfpw/ncfpw05/ncfpw05.htm>

**97<sup>e</sup> réunion annuelle Congrès 2005**-Société de protection des plantes du Québec

Juin 9-10, 2005, Hôtel Best Western Cartier, Hull/Gatineau, Québec

Website: <http://www.sppq.qc.ca/congres.htm>

## JESO

### Why not submit YOUR next manuscript to JESO?

While Volume 135 of JESO is well on its way, we are looking for more submissions and especially 1000-word book reviews of works 2004 or later. Please follow the format for book reviews in volumes 132-133. If you are considering writing a book review, please contact our JESO Editor, Yves Prévost to ensure that someone else is not reviewing the same book.

Send submissions and inquiries to:  
Yves Prévost, JESO Editor at  
[yves.prevost@lakeheadu.ca](mailto:yves.prevost@lakeheadu.ca)

## NEW Entomology Text

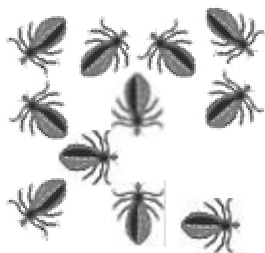
Title: Entomology

Author: S.K. (Stan) Gangwere, Ann Arbor, MI  
Professor Emeritus,  
Wayne State University, Detroit, MI

Pages: 353, soft cover

Available from: Ingram, Partners, Baker & Taylor  
or

First Page Publications at 1-800-343-3034 or  
[www.firstpagepublications.com](http://www.firstpagepublications.com)



## Missing Members



If you know the whereabouts of these members, please ask them to contact our Secretary David Hunt to update their address.

Nancy van der Poorten, Tara Stephens, Lisa Ciolfi

## Tell Us About Entomology in Ontario

Notices of upcoming entomological events, ideas for columns, and articles of interest to ESO members are always welcome. Send submissions to:

**Dana Gagnier**  
ESO Newsletter Editor