



THE ESO Newsletter

May 2011

Volume 16, Issue 1

2011-2012 OFFICERS OF THE ENTOMOLOGICAL SOCIETY OF ONTARIO

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ESO President's Message:

For me, one of the first signs that warm weather is on the way is the appearance of black flies at our family retreat near Algonquin Park. In early May, my spouse and I enjoyed our first sunny and warm weekend, and noted that while our bloodthirsty friends were not yet abundant or terribly interested in us, they were definitely massing the troops. It's hard for me to believe that seven months have passed since the ESO AGM in Grand Bend, when I was entrusted with the care of the Presidential cockroach and gavel. During that time, the ESO Board has been very busy, and I am pleased to report has made some progress - or transitions - in a number of key areas.

Enhancing the electronic search profile of the Journal of the Entomological Society of Ontario (JESO) and the impact of a JESO author's paper has been a point of discussion at ESO Board meetings for several years. To be blunt, institutional subscriptions have been dwindling at a steady rate, reducing the visibility of our journal and perhaps the desire of some authors to make JESO their first choice for publication. Changes are required to reverse this trend. Many of you will have noticed copies of individual papers published in Volume 133 and later are available on the ESO website. In the last ESO Newsletter, our Past President mentioned that all of the back issues of the Proceedings of the Entomological Society of Ontario (PESO) and JESO will be scanned and made available through the Internet Archives. A decision was made at the fall AGM to enter into an agreement with EBSCO Publishing to provide a searchable research database service. For the ESO, these are big initiatives in a short time period, but the reality is we've been discussing the virtues of having an electronic option for over a decade.

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I would like to take this opportunity to thank individuals for their contributions to the ESO. Miriam Richards is passing the torch to John Huber as Editor for JESO. When Miriam enthusiastically took over as Editor (2005), she not only committed to a regular publication schedule, but also spoke of transitions and the importance of electronic publishing as critical to the success of the Journal. John has agreed to serve as Editor of JESO on an interim basis, through the 150th anniversary of ESO (2013). I sincerely hope the experience of publishing your excellent manuscripts will leave John wanting to stay on. Please take the time to read through the biographies of all members who have agreed to stand for election to the ESO Board, and don't forget to vote.

The ESO functions because of the commitment of volunteers. We have been very fortunate to have some new faces step forward and take on key non-elected positions which require considerable amounts of personal time and a great deal of dedication. As a society, we are in sound shape financially. However, we must work to recruit new talent with fresh perspectives in order to remain relevant. Don't wait for the call to participate – volunteer today!

I paid my 2011 ESO dues on time for once, taking advantage of the new PAYPAL option implemented in January. No more excuses about letters gone missing and patient reminders from the Secretary overlooked because of the delays associated with finding a stamp and an envelope in an era when our bills can be withdrawn automatically! Thanks to our Webmaster Morgan Jackson, this process appears to be working smoothly. Speaking of membership, why not encourage a friend or co-worker to join the ESO? There are many benefits to membership beyond the professional level; attend ESO AGM and you'll find a group of people from varied backgrounds brought together by a common interest and enjoying each other's company.

The ESO Fall meeting will be held in St. Catharines, ON, October 21st-23rd, 2011, at Brock University. While the location of the 2011 AGM is decidedly more urban than the previous two, fall is a great time to visit Niagara to take in the beauty of the Escarpment and surrounding agricultural areas. The theme this year is "Insects in Society", and the local organizing committee have already put together an excellent slate of plenary and banquet speakers. There will be a few changes to the layout of the scientific program this year. One of these includes a dedicated poster event at the Friday Evening Mixer, which we hope will help raise the profile of student and regular member presentations. The Bug Eye Photo Contest entries for 2011 will also be display. Please make sure to book your hotel early, as the suites are limited and can only be held until September 16th, 2011.

If you are interested in volunteering with the ESO AGM, the local organizing committee could use your support.

See you in October.
Hannah Fraser

University of Toronto Koffler Scientific Reserve at Jokers Hill Nature Walks 2011

All Nature Walks are free, but require pre-registration online, with a maximum of 30 attendants. Walks occur on single track paths in rolling terrain and last ~1.5 hours. Children are welcome, but dogs are prohibited. For registration and more information, visit <http://ksr.utoronto.ca> or email ksr.info@utoronto.ca

Spring Wildflower Waltz Nature Walk

Peter Kotanen: May 28, walks at 11 am and 1:30 pm.



Objects of beauty, flowers are in fact the plant's way to carry out its evolutionary imperative — reproduce! Join UTM professor and noted botanist Dr. Peter Kotanen for an engaging look at the sex lives of plants. *Free. Registration opens May 1, 2011.*

Bugs, Bees, and Butterflies

Maydianne Andrade and Andrew Mason: July 9, walks at 11 am and 1:30 pm.

With 10 million species, insects are the most diverse of all organisms. Get the scoop on their secret lives and cunning ways with Dr. Maydianne Andrade and Dr. Andrew Mason, spider specialists and professors of biology at UTSC. Children can engage in a special bug-catching competition between walks! *Free. Registration opens June 15, 2011.*



Autumnal Birds Nature Walk

Jason Weir: Sept. 17, walks at 11 am and 1:30 pm.



Fall is an important season for birds as they ready for winter's long journeys or harsh weather. Find out how different species spend the final days of summer with Dr. Jason Weir, bird expert and evolutionary biologist from UTSC. *Free. Registration opens August 15, 2011.*



2011 ELECTORAL CANDIDATES



All fellows, regular, and student members of the ESO who have renewed their membership in 2010 will receive an ESO election ballot and return envelope addressed to the ESO Secretary. The annual ESO election ballot lists all candidates running for an elected position on the ESO Board. This year's election ballot includes two candidates for President-Elect, three candidates for two director positions, and three candidates for one student representative position. The following are biographies supplied by the candidates:

President-Elect Candidates

Bruce Broadbent

Bruce Broadbent currently is a Research Scientist with Agriculture and Agri-Food Canada, Southern Crop Protection and Food Research Centre in London, Ontario. Bruce received his B.Sc. from Victoria University of Wellington in New Zealand; his M.Sc. from McGill University, which involved research in biological control; and his Ph.D. (1980) from the University of Guelph, which involved a non-target soil microfauna study.

Bruce's first job as an entomologist was at AAFC, Vineland where his expertise was in developing biological control practices for IPM programs of greenhouse floriculture crops. Since moving to London in 1996, Bruce has been investigating the biological control (parasitoids, predators, and pathogens) of insect pests of vegetables, field, and greenhouse crops. He has helped supervise several grad students as an adjunct professor at the University of Guelph. Many of these students have presented papers and posters at ESO Annual Meetings, featuring research on insects such as Tarnished plant bug, soybean aphid, rove beetle, and thrips.

Bruce has been a member of the ESO for over 25 years. He is also a member of the ESC, ESA, IOBC (International Organization of Biological Control), and the SIP (Society of Invertebrate Pathology). He currently is Past-President of the Canadian Forum for Biological Control and has served on committees for the Entomological Society of Canada. Bruce served as the chair of the Organizing Committee for the ESO Annual Meeting in London in 1997. He was a Director of the ESO from 2001-2003.

If elected, Bruce would take this opportunity to work to keep the ESO, and its proud 146 year heritage, a strong and positive place for professionals, students, and amateurs to interact and promote entomology.

Jeff Skevington

You are likely asking yourself what kind of a person would ever want to run for president of the society in the 150th anniversary year. Particularly if that person was heavily involved in the last Joint Annual Meeting (JAM) in Ottawa and complained about how much work it was. A masochist perhaps? There may be some of that in it, but the primary reason I would like to take on this honour and responsibility is that I have a deep respect for what the members of our local society have accomplished over the last 150 years. I have been a member since my grad student days in Guelph in the early 1990's and served as a Director of the ESO recently. The latter was a great experience as I got to see the inner workings of the ESO and became involved with many important decisions as our society grapples with changes in the way that we interact on both personal and professional levels. We need to continue to expand the way we communicate as a group. Of course, Facebook is a given in this day and age, but there are some great internet discussion group possibilities (Yahoo or Google groups for example) that would enable more of our membership to be engaged. We still need to develop considerably on this front. I have never understood why membership in the Toronto Entomological Association and ESO are not almost entirely overlapping, and I would like to work to recruit more cross-pollination between our groups. Engaging more amateur involvement in the ESO would be a very positive thing as many so-called 'amateur' entomologists have incredible knowledge and tremendous energy. Not only is this group of Ontario entomologists not well involved with our provincial society, there are clusters of professionals that also do not belong and perhaps feel ostracized or otherwise have not felt the compulsion to join. If elected, I intend to do my best to pull these factions together and increase the size and impact of the society as a result. I think that the 150th anniversary and JAM provide the perfect context to make such an effort. I would like to see us make an effort to significantly involve the media in preparations for the JAM and to sell our science as we come together for this historic

President-Elect Candidates cont.

meeting. Our student members will certainly play a big role in this as they are very dynamic and have better media faces and often more interesting projects than those of us who have been around for a while. I think that we have a very strong student membership, and I intend to encourage and support this as much as possible. A lot of work has already gone into planning the JAM and I am keen to throw my experience with helping to run the Ottawa JAM into the mix. I think we will easily be able to outstrip the 360 attendees at the Ottawa meeting, particularly if we engage some of these other groups.

Another issue that is still in dire need of attention is our journal. It continues to struggle along, and I have a few ideas that may help to rekindle it. I recently lead a steering committee to revitalize The Canadian Field-Naturalist (CFN), and some of the ideas there might work to help us with our journal. A new journal management system, rapid review and online publication seem to have already turned around the woes of that venerable Canadian journal. JESO has many of the same problems that CFN was facing (low impact, slow turnaround of papers, small issues, etc.) and re-focusing on what we do best along with new journal management ideas should keep our journal around for another 150 years.

For those of you who do not know my background, I am a Diptera systematist (that's two strikes against me) at Agriculture and Agri-Food Canada (three strikes?). My mentors were Steve Marshall at U of Guelph (for my MSc, 1991-1993), David Yeates at University of Queensland (for my PhD, 1997-2000) and Jeff Cumming for my post doc in Ottawa (2000-2001). I also attended Lakehead University for a BEd in 1990-1991. My research focus is mostly on Pipunculidae and Syrphidae systematics as well as phylogenetics or Diptera. I am adjunct at Carleton University and a Special Graduate Faculty member at Guelph. As a result, I have had the opportunity to work with several graduate students on many disparate systematic and ecological projects. I am also a keen naturalist (not to be confused with naturist, although that may be fun too) and have an interest and connections with folks in the bird, plant, mammal, herp and fungal communities. If you are suffering from insomnia, you can read more about my research at <http://www.canacoll.org/Diptera/Staff/Skevington/Skevington.htm>.

Director Candidates

Christie Bahlai

Hi all. I'm Christie Bahlai and I'm a Ph.D. candidate with the School of Environmental Sciences (SES) at Guelph. My work focuses on population modeling and risk assessment of agricultural pests and their natural enemies using large datasets compiled from multiple sources. I'm currently on hiatus from research: I just gave birth to my first child, Penny (short for Penelope, not Pentatomidae), in December 2010, but I will be back at it full time in the fall, with plans to defend by April 2012. I've been involved in entomological research since 2002, when, as a confused, directionless undergraduate physics student, I wandered into Rebecca Hallett's lab in response to a job posting for a summer research assistant- and I haven't looked back. To date, I've completed a BSc (Physical Sciences, in 2005) and an MSc (Entomology, in 2007), published nine peer reviewed papers, won scholarships and awards from government and professional societies for teaching and research, and had the opportunity to teach as both a teaching assistant and a sessional instructor of environmental science and entomology. Aspects of my PhD work have been featured in the Globe and Mail, on CBC news, and various local, national, and international media. I maintain a strong interest in communication of my work (and science, in general!) to other scientists, government, and the public, and have had the opportunity to speak to all levels of stakeholders. I'm also involved in graduate curriculum development in SES as the student representative on the Graduate Curriculum Committee, and sit on the Graduate Student Council in SES. Since being on maternity leave, I've worked with collaborators from the Nature Conservancy of Canada to develop recovery strategies for several arthropod species at risk for the Ontario Ministry of Natural Resources. I maintain affiliations with the Entomological Society of America, the Ecological Society of America, and the ESO (of course) among others.

I've been attending ESO meetings since 2004, and have been involved in ESO activities since 2005, when I served as the student representative for 2005-2006. I was proud to be able to represent such a close-knit, friendly society of professionals and enthusiasts from across the province, and I would be honoured to do so once again in the position of Director.



Joel Gibson

Although still at an early phase of my academic career, I have been working in the science of entomology for more than a dozen years. My elementary and secondary school years were spent mostly outdoors in and around St. Thomas, Ontario. I completed my B.Sc. in Wildlife Biology at the University of Guelph in 1999. While in Guelph, I was employed at the Insect Collection as a student curator. Following an internship with the US Geological Survey in Hawai'i Volcanoes National Park, I enrolled at Iowa State University. I completed a M.Sc. with a thesis examining the systematics of Southeast Asian aquatic flies. Upon returning to Canada in 2002, I completed a B.Ed. at the Ontario Institute for Studies in Education at the University of Toronto. I then embarked on a career as a high school Science and Biology teacher. After four years of hard work in the classroom, I decided to refocus on my own education. I began a Ph.D. programme in 2007 working at Carleton University and the Canadian National Collection of Insects. I am now on the cusp of completing my doctoral thesis and beginning a post-doctoral fellowship.

My research has been chiefly on insect systematics. I have investigated the evolutionary biology of three different families of beetles and flies. My most recent emphasis has been on revising the thick-headed flies (Conopidae). I use morphological and DNA sequence data to investigate the phylogenetic relationships within this fascinating group of parasitoid flies. I have also researched the life history of conopids including investigations of hilltop mating behaviour and host specificity.

Outside of the lab, I have sought to contribute as much as possible to the entomological community. I served as Student Representative to the ESO board from 2008 to 2010. I have been involved as a presenter or organizer at over fifteen regional, national, and international scientific meetings. I have also been invited as a guest lecturer for elementary and secondary school classes, undergraduate courses, and amateur entomological and naturalist groups.

As a member of the ESO board of directors, I look forward to filling my term with valuable contributions to the state of entomology in Ontario. I would like to help increase the ESO's presence in both the online world and the real-world communities of which we are a part. Both students and amateur insect enthusiasts need to be invited to participate more fully in the ESO. I also anticipate being a part of the planning and execution of our society's 150th anniversary celebration, just two short years from now.

Alex Smith

I grew up in the Ottawa Valley, Ontario and it was in the forests, rivers, and fields of Renfrew County that I first knew that I wanted to be a biologist. It took me several more years to determine that what I wanted to be was an entomologist. I first went to Trent University in Peterborough Ontario where I obtained a B.Sc. (Hons) and a M.Sc. (1998) working with Michael Berrill on bacteria and amphibians. I then moved on to Montreal, Quebec for my Ph.D. (2004) at McGill University working with David Green on the spatial and molecular ecology of the Fowler's toad. Teaching field courses at the Oliver Ecological Property with a focus on biodiversity made me question whether amphibians and reptiles of Canada were the correct taxa to study 'diversity' – and so I began to consider insects. While preparing to leave McGill, I received an FQR Postdoctoral Research Fellowship that I took to the University of Guelph to work on the nascent DNA barcoding project. Here, I had the opportunity to work with Dan Janzen, Winnie Hallwachs and many others (Monty Wood, Jim Whitfield, Ian Gauld, Norm Woodley) on the diversity and ecology of many types of parasitoid insects (primarily Ichneumonidae, Braconidae, and Tachinidae) in the ACG and with many myrmecologists (Gary Umphrey, Brian Fisher Phil Ward, Jack Longino, and others) on species diversity, conservation, and ecology of ants. Seven years later – my work is now predominantly entomological! I was hired as an assistant professor in Molecular Ecology at the University of Guelph in 2008, where my students and I work on problems of phylogeography, biogeography, food web dynamics, and the identification of morphologically-cryptic species. The most active projects involve an NSERC-funded project on the community dynamics of ants along several elevational transects in north western Costa Rica and molecular ecology and species biology of parasitoids using molecular tools to elucidate both host and endosymbiotic relationships. I am also part of an NSF collaboration that looks at the biogeography of ants in the Southwest Indian Ocean. As a biologist, it is important to me to work in both the field and laboratory to integrate field and molecular biology into questions of ecological and evolutionary importance to conservation. I am currently working on multiple projects that include molecular estimates of biodiversity and the distribution of phylogenetic diversity, the co-evolutionary ecology of host/parasitoid/symbiont relationships and the phylogeography of ants in Central America and Africa.

These projects all fall within a research program that I describe as, "species and spaces", where the aim is to test the spatial population ecology and long term ecological monitoring of threatened and understudied species and areas from a biogeographic and

Director Candidates cont.

phylogeographic perspective using both molecular and traditional ecological tools. My research is hypothesis-based but many of these hypotheses are directed by prior discovery based experiments using a preliminary single gene survey of a taxon or an area. I see the complementary and iterative interactions of discovery-based and hypothesis-based science as one of the most rewarding features of ecological research with a molecular component. I would very much like to contribute to the ESO as a Board member and help to further Ontario's rich entomological heritage.
<http://www.uoguelph.ca/~salex/>

Student Representative Candidates

Andrew Frewin

I have always had an interest in science and nature, spending many hours as a child in the Royal Tyrell Museum memorizing the names of all the dinosaurs for my future career as a paleontologist. While completing my BSc at the University of Guelph years later, my interests shifted from the big and extinct to the tiny and abundant when I was introduced to the world of insects. I went on to complete my MSc at Guelph with Drs. Rebecca Hallett and Art Schaafsma on a project involving incorporating natural enemies into soybean aphid management. Now I am a first year PhD student at Guelph in the College of Biological Sciences, advised by Drs. Robert Hanner and Cynthia Scott-Dupree. My research focuses on incorporating DNA bar-coding into greenhouse integrative pest management. While my academic interests focus chiefly on agricultural facets of entomology, specifically integrative pest management and biological control, I'd characterize myself more generally as a 'bug nut', having an interest in all aspects of entomology and arthropod taxa. However, I do have a special place in my heart for parasitic Hymenoptera. Personally I find the diversity and intricacy of insect's shapes, forms, life-histories, and behaviours fascinating. I am truly fortunate to be able to study and work with insects in a professional capacity the way I have for the last 5 years, and I hope to continue that into the future. Outside of my professional life, I am active in promoting entomology through outreach activities for children.

I have been a member of the ESO for 5 years, and I have found the Society to be a great resource for students for everything from meeting other students and professionals to providing a valuable venue for presenting one's research. As student representative I would strive to continue the great work done by past student representatives. I hope to maintain student

interest in ESO meetings by increasing student involvement in meeting planning and designing student-centred meeting events. Overall, I would like to continue to foster the relationship between students and the entomological community as a whole, while promoting the role of students within the ESO.

Katie Marshall

I grew up in rural Southern Ontario, in Mennonite country north of Waterloo where I gained a deep appreciation for the outdoors in general and biodiversity specifically. From there I went to Acadia University in Wolfville, Nova Scotia where I spent two summers tromping through bogs in search of tabanid flies (deerflies and horseflies) for my Honours project on forestry effects on biodiversity with Dr. Phil Taylor. My ecological work there led me to questions of mechanism, so I am now a PhD candidate in the Department of Biology at the University of Western Ontario. In Dr. Brent Sinclair's lab I study the effects of repeated low temperature stress using model species including Lepidoptera (spruce budworm and woolly bear caterpillars) and Diptera (goldenrod gall fly and *D. melanogaster*).

I bring to ESO a broad background in ecology and physiology, familiarity with the landscapes and fauna of Southern Ontario, and a passion for sharing really cool insects with the public. I've helped organize outreach events for schoolchildren, presented local insects at the Pinery Provincial Park, and helped members of the public identify insects brought to our lab. I also have had the opportunity to practice my scientific communication skills by sharing my research with scientists at both local and international conferences, which resulted in winning the ESO President's Prize at last year's annual meeting. If elected, I will work towards promoting student publication in JESO, developing and promoting student membership, and finding outreach opportunities for students across the province.

Jess Vickruck

I am currently a first year PhD student at Brock University under the supervision of Dr. Miriam Richards. My research focuses on how nest availability shapes the social interactions and population structure of the Eastern carpenter bee (*Xylocopa virginica*). This will involve biogeographic studies as well as using observation nests to deduce the costs and benefits of alternate reproductive strategies assumed by females. I completed my undergraduate degree at the University of Guelph, where I was first introduced to entomology. My Master's research focused on niche and nest

Student Rep. Candidates cont.

resource partitioning of two closely related species of small carpenter bees (genus *Ceratina*). I am broadly interested in the behavioural ecology of native bees and have also worked on the genera *Halictus* (Halictidae) and *Hylaeus* (Colletidae).

The ESO annual meeting in 2007 was the first conference I had ever attended, and I have been back every year since! It is a fantastic place to present new research, meet other entomologists, catch up with old friends and make some new ones. I have also been involved with JESO as the 2010 technical and layout editor. Students comprise a large portion of the ESO membership, and as the student representative it would be my job to present any of your concerns or suggestions to the board. I plan to keep everyone up to date with new job postings, post docs, and graduate positions that come available. I am also interested in working with the outreach committee to encourage the next generation of budding entomologists.



Upcoming Entomological Events

Kingston Field Naturalists' BioBlitz - June 10 - 11, 2011, Lost Bay, Gananoque Lake

Ontario Nature 80th Anniversary and Annual Meeting - June 10 - 12, 2011, Ganaraska Forest Centre, ON, www.ontarionature.org

Identification and Biology of Butterflies Workshop - July 6, 2011, The Arboretum, University of Guelph, <http://www.uoguelph.ca/arboretum/ProgsWrkshps/PrWrkshpWildlife.htm>

2011 Entomological Society of Ontario Annual Meeting - Oct. 21 - 23, Brock University, St. Catharines, ON

2011 Entomological Society of Canada/Acadian Entomological Society JAM - Nov. 6 - 9, Westin Nova Scotian Hotel, Halifax, NS

2011 Entomological Society of America Annual Meeting - Nov. 13 - 16, Reno-Sparks Convention Centre, Reno, NV

A Message from the New JESO Editor John Huber

Consider submitting your next manuscript to Journal of the Entomological Society of Ontario (JESO), a peer reviewed journal with good quality reproduction of images and open access pdf's freely available if you are publishing as a member. Guidelines may be found on the ESO website.

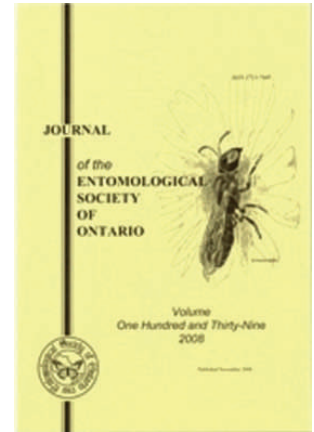
As your new JESO editor it is an honor to serve you for the next two years. I would like to thank Miriam Richards and technical editors A. Rutgers-Kelly (2005–2007), S. Rehan (2008, 2009), and J. Vickruck (2010) for their efficient and timely production of JESO since Miriam took on editorship in 2005. Now that JESO is both an electronic as well as a hard copy publication I hope more people will consider publishing in JESO.

Issues back to 1999 are scanned and available on the ESO website. In time, all back issues will be available electronically.

My goal is to ensure that good quality articles are published in JESO in any field of entomology and occasionally some outside of entomology. Obviously, the emphasis is on Ontario insects but articles covering a wider area, such as eastern Canada, northeastern North America, or the entire Nearctic region have been published and are welcome.

Miriam already mentioned (vol. 140, 2009) that we should begin thinking about what to publish in JESO for the 150th anniversary of ESO in 2013. In the same volume, Laura Timms wrote an essay on the shared history of the Entomological Society of Ontario (ESO) and Entomological Society of Canada (ESC). Various possibilities for a special 2013 issue could be considered. Ideas are welcome.

For the present, however, I encourage you to submit manuscripts for the 2011 issue of JESO, preferably well before 1 September so I have time to get everything ready for this year's issue. The past few years have seen a reduction in pages from 154 in vol. 138 to as few as 55 in vol. 140. I would like to see JESO back to between 150-200 pages per issue. Surely, there is no finer outlet for publications relating to entomology in Ontario! **Submissions should be directed to John Huber, JESO Editor at john.huber@agr.gc.ac**



BUG EYE 2011

A photo contest presented by

THE ENTOMOLOGICAL SOCIETY OF ONTARIO



Prizes for:

Best photo open category (\$50)

Best photo by an Ontario resident (\$50)

Best photo of an Ontario insect (\$50)

Images must be of insects or closely related arthropod species (eg. mites, spiders). All submissions must be digital files. The judging criteria will be based on the following parameters: image composition, visual impact of image, subject interest, sharpness of subject, difficulty of image acquisition, and depth of field within image. Photographic enhancement is allowed as long as it is something that could also be achieved in a real darkroom with a color or black & white negative (e.g., adjustment of contrast, color enhancement, cropping etc.). However, very obvious enhancements will be negatively scored.

You may submit up to three unique images per person, per category. Submit the image file by creating a digital file that is the equivalent of 7.5 inches by 10 inches, at 300 dpi, formatted as a jpg. Create a filename using an appropriate title, underscore, your last name, underscore, first initial (e.g. dragonfly_smith_j). Images may be either landscape or portrait in orientation. Images recorded on film must be digitally scanned and then edited according to the prescribed resolution (i.e., 7.5 inches by 10 inches, at 300 dpi) for submission.

Please include a short description of your entries (where they were taken, why you like them etc.) and what category you are entering (Open, Ontario Resident, Ontario Insect). Do not forget to include your complete address.

Please submit photos to esophotos@gmail.com

Deadline for submissions is Sept. 16, 2011

Winners will be announced on Oct. 22, 2011



Treasurer's Report – Fiscal 2010

Submitted by Shiyou Li

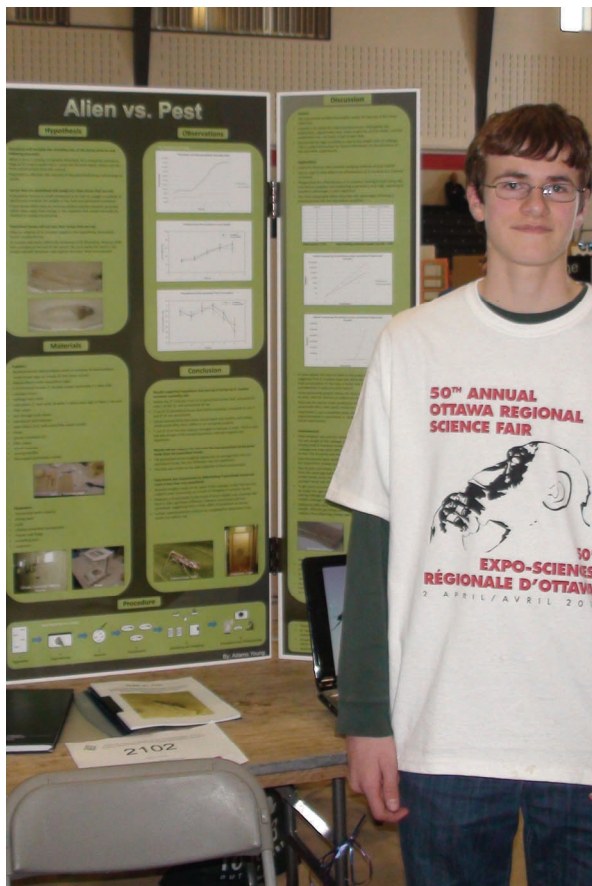


| Items | Description | Amount | | |
|---|--|-----------------|----------|--|
| Forwarded by Kevin Barber | Bank draft in US dollars | 2796.00 | | |
| | Bank draft in Canadian dollars | 22833.64 | | |
| | Ontario Savings Bonds | 30000.00 | | |
| Revenue | Total in Canadian dollars | 5455.42 | | |
| | Membership dues | | 2490.17 | |
| | JESO subscriptions | | 691.75 | |
| | Page charges | | 1225.00 | |
| | Bank interests | | 1048.39 | |
| | Donation | | 0.11 | |
| | Total in US dollars | 2528.20 | | |
| | JESO subscriptions | | 2250.00 | |
| | Page charges | | 268.80 | |
| | Bank interests | | 9.40 | |
| Total Assets | In Canadian dollars | 58289.06 | | |
| | In US dollars | 5324.20 | | |
| Expenditure | Total in Canadian dollars | 2079.61 | | |
| | Treasurer expenses claimed | | 310.46 | |
| | Secretary expenses claimed | | 361.27 | |
| | General | | 207.44 | |
| | Bank service fees | | 16.86 | |
| | Student awards & travel | | 1183.58 | |
| | Total in US dollars | 54.62 | | |
| Bank service fees | | 54.62 | | |
| Balance | In Canadian dollars | 56209.45 | | |
| | In US dollars | 5269.58 | | |
| Where is the money? | In Canadian dollars | 56209.45 | | |
| | Checking account balance on Dec 31, 2010 | | 17709.45 | |
| | Ontario Saving Bonds | | 30000.00 | |
| | BMO 5-yr rate riser GIC | | 6000.00 | |
| | 2010 AGM loan | | 2500.00 | |
| | In US dollars | 5269.58 | | |
| US dollar account balance on Dec 31, 2010 | | 5269.58 | | |

A Young Entomologist's Award-Winning Project

ESO Connects Student with Mentor

Earlier this year, Adamo Young, a grade nine student in Ottawa, contacted the ESO looking for entomological help. He was interested in studying insects for his upcoming science project, and was looking for someone to work with. Dr. Peter Mason, from Agriculture and Agri-Food Canada, agreed to mentor Adamo. This is Adamo's account of his project:



Adamo and his project display at the science fair.

My name is Adamo Young. I go to Lisgar Collegiate Institute, and I am in grade nine, and I have participated in the Regional Science fair for the past two years. My projects dealt with earthworms, and their ability to detect soil toxins (2009) and how they navigate through their environment (2010). For this year, I knew I wanted to do something on invasive species, but wanted to have a mentor, who could guide me and provide me with lab access.

Luckily, I connected with Peter Mason at Agriculture Canada. When I met with him, he told me about the work he was doing on the biocontrol of the bertha armyworm, and also other experiments of his in the past. We decided that it would be useful if I could look at the diamondback moth and the effects of a parasitoid wasp. I did some background research and found that I should test the parasitoid's effect on the moth larvae's mortality rate, growth, and food consumption.

My experimental procedure consisted of three main steps. I first parasitized the diamondback larvae by exposing them to fertile female wasps and watching the wasps implant their eggs. I then monitored the larvae

for two-three weeks, measuring their development and growth. At the end of the experiment, the parasitoid wasp would emerge and consume the host. I also ran this experiment with some control non-parasitized larvae.

I used various kinds of lab equipment, such as a climate controlled diamondback rearing room, a drying oven, and a very precise scale.

The results of my experiment were that the parasitism by *D. insulare* increases the moth's mortality rate and does not seem to affect the moth larva's growth and food consumption. I did find that some of larvae that were lanced by the wasps died before pupation and thus would consume less due to their shortened life.

I took my findings to the Ottawa Regional Science Fair, where I won first place in my category and a special award.

ESO 2011 Annual General Meeting

"Insects in Society"

October 21 - 23
Brock University
St. Catharines, ON

Invited Speakers:

Miriam Richards "Insect Societies – Why It's Good to Bee Queen"
Department of Biological Sciences
Brock University

Michael Brownbridge "Biological Control of Insect Pests"
Research Director - Horticultural Production Systems
Vineland Research and Innovation Centre

Mystery speaker! Stay tuned ...

Banquet Speaker:

Derek Knight "Insects in Art"
Director, Marilyn I. Walker School of Fine and Performing Arts
Brock University

Friday Night Mixer and Poster Session:

Make sure to arrive in time for the Friday night ESO AGM mixer! Enjoy some social time and some light fare, view the entries from the 2nd Bug Eye Photo Contest, and take advantage of the special poster session that has been established to increase the visibility of student and regular member presentations. Note that posters will also be on display on Saturday October 22nd, 2011. Judging time slots will be established depending on the number of entries for the President's Prize (Poster). Stay tuned for more information.

Where to stay:

The Four Points by Sheraton St. Catharines Niagara Suites is a 10 minute walk from Brock University. A block of suites has been reserved at a rate of \$124 per night until September 16th, 2011. Suites are equipped with double beds (other options may be available) a galley kitchen, living/dining room areas, a small sink, refrigerator, microwave & coffee maker, and complimentary wireless internet. Make sure to mention the rooms are being booked as part of the ESO AGM 2011. See <http://www.fourpointsstcatharines.com/> for more information.

Any suggestions?

The ESO AGM is a great opportunity to share results from research, but the program can be much more than that! If you have ideas that you believe will enrich the lives of participants and perhaps foster some new professional and social partnerships, let us know! Contact: Rose Buitenhuis, Local Organizing Committee – Scientific Program Development, rose.buitenhuis@vinelandresearch.com, 905.562.0320 ext. 749.

Visit the ESO website over the next couple of months for more information: www.entsocont.ca

Make the Trip to the 2011 Annual Meeting: Student Travel Awards

Professors and teachers of entomology:

Do you know of a student whose research should be featured at the ESO Annual Meeting this fall? Please inform your students that the ESO has travel awards available to both undergraduate and graduate students.

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 an undergraduate travel grant worth \$250 each!**

Student members of the ESO (registration is free—visit <http://www.entsocont.ca/>) who are presenting a poster or a paper at the Annual Meeting of the Entomological Society of Ontario being held October 21-23 2011, at Brock University, St. Catharines, ON are eligible to apply.

Interested students should forward: (1) a title and short abstract for their project; (2) a statement outlining why/how the funds will be used to support their participation in the meeting; and, (3) a curriculum vitae.

Only active student members of the ESO who are enrolled in a graduate or undergraduate program will be considered for travel awards. Students may receive only one travel award per degree.

Please don't forget to include contact information (phone number, mailing and email address).

Deadline for application is September 16, 2011. Recipients will be notified at least two weeks before the annual meeting. Please send applications electronically to:

Hannah Fraser
Awards Committee Chair
hannah.fraser@ontario.ca

There will also be President's Prizes awarded at the meeting for exceptional paper and poster presentations. Please refer to meeting registration forms on the ESO website for information on applying.

ESO Committees

Awards: Hannah Fraser (chair) – 905-562-1674, hannah.fraser@ontario.ca; Ian Scott – 519-457-1470 x281, ian.scott@agr.gc.ca; Angela Gradish – 519-824-4120 x58810, agradish@uoguelph.ca

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umphrey@uoguelph.ca

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Renew Your ESO Membership!

Please visit www.entsocont.ca to pay via PayPal or mail your invoice and payment to:

Nicole McKenzie, ESO Secretary
Vista Centre
1830 Bank St.
P.O. Box 83025
Ottawa, ON
K1V 1A3

Student, amateur and retired memberships in Canada are free but **must be renewed each year!**

Free memberships may be renewed electronically by sending an email to Nicole at:
nicole.mckenzie@hc-sc.gc.ca