



# THE ESO Newsletter

June 2009

Volume 14, Issue 1

## ESO President's Message:

I have been reminded by our wonderful ESO Newsletter Editor – Jen Allen – that the President's Message is due on her desk today. SO – time to get my fingers moving on the keyboard and bring you up to date on the activities of the ESO Executive, Board and Committee Chairs.

As all of you know the 2008 Joint Annual Meeting with the Entomological Society of Canada (ESC) in Ottawa – October 19-22 – was a great success scientifically and financially. Once all expenses were dealt with we realized a profit of \$12,744.49. At the Interim ESO Board Meeting – held April 20, 2009 at the University of Guelph – it was decided to disperse \$6,400.00 (50.2%) of this profit to ESC, specifically requesting that the contribution be placed in their scholarship fund. We felt that this would be a wonderful way to ensure future students of entomology access to financial support for their graduate studies.

We had a very full agenda at the Interim Board Meeting and were able to make progress in a lot of critical areas. One of the items we dealt with was the ESO website. As I indicated in my Presidential Message in the December, 2008 ESO Newsletter, one of goals during my term was to initiate the revitalization of our website to improve our capability of communicating valuable and current information to our membership and others simply interested in entomology. We now have a Website Committee, led by our Webmaster – Barry Lyons, and assisted by Ziggy Kullik and Joel Gibson. It is our hope that we will have an innovative new website to reveal to all of you in Fall 2009. If you have any suggestions about what you think needs to stay the same on the website, improve or be

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added, please contact one of the Website Committee members – better sooner than later.

There also was considerable discussion about the Journal of the Entomological Society of Ontario (JESO) and the direction we should take to continue to improve its visibility and status as a credible entomology journal. We are in good financial shape with JESO but manuscript submissions continue to decrease. So in an effort to change this downturn in JESO submissions, the ESO Board has decided to provide immediate access of papers published in JESO online at our website (PDF format) rather than waiting for one year from printing of the JESO volume the paper appears in. In addition, abstracts of papers accepted for publication in a JESO volume will appear online prior to actual printing of the volume. For authors this will speed up accessibility to their publication by many months – hopefully this will be an attractive incentive when deciding where to publish research results. And to all of you – may I suggest that you consider supporting JESO and perhaps consider submitting a manuscript to our Editor – Miriam Richards - in 2009.

I suppose one of the sadder moments for me at the Interim Board Meeting was saying goodbye to Dave Hunt. After serving the ESO from 2000-2009 as Secretary, Dave decided to step down. We thank him for his service and commitment to ESO, and wish him all the best. I think he will have a bit more time to fit in a few more triathlons now. We presented Dave with a beautiful framed coloured photograph of Costa Rican butterflies by Dave Cheung. Thankfully – Dave has agreed to provide some mentorship to our new Secretary – Nicole McKenzie. She is doing an excellent job and I look forward to working with her for the rest of my term.

Finally, I would just like to remind all of you of the 2009 Annual General Meeting. It will be held at the Frost Centre Institute in Dorset, Ontario – October 2 to 4. The theme of the meeting is “Earth, Wind and Water: Insects in Ecosystems. Rebecca Hallett (Chair of the AGM Organizing Committee) and the dedicated members of the organizing committee have an excellent slate of plenary speakers and scientific program lined up, and social activities extraordinaire; all presented with a backdrop of beautiful fall Muskoka colours. Information on the AGM will be shared with you as soon as all the details are finalized. Mark the dates on your calendar now so you don't miss what I expect to be the best “laid-back scientific meeting” you will attend in 2009.

Yours in entomology,

Cynthia

## ESO Board Member Change

Please note that there has been a change in ESO board members; as of this year's Interim Board Meeting, Nicole McKenzie is the new ESO secretary. We would like to take this opportunity to thank Dave Hunt for the 10 years he shared with ESO and to assure you that Nicole and Dave will be working closely together in order to facilitate a smooth transition.

Please send all future secretary and membership inquiries to:

Nicole McKenzie ([Nicole\\_mckenzie@hc-sc.gc.ca](mailto:Nicole_mckenzie@hc-sc.gc.ca))  
Vista Centre  
1830 Bank Street  
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Ottawa, ON  
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## Ontario-Tagged Monarch Recoveries in Mexico

Don Davis of Toronto reports the following after looking at the preliminary list of monarch tags purchased in Mexico (February and March 2009) by Dr. Orley "Chip" Taylor of Monarch Watch:



HAC175 – Acquired on Feb. 28/09 at Cerro Pelon from Leonel Moreno – This male monarch was originally tagged on Sept. 1/07 at Presqu'île Provincial Park near Brighton, Ontario.

LBC159 – Acquired on March 2, 2009 at El Rosario from Hilario Miranda Maya – This female was originally tagged on September 2, 2008 in the residential section of Presqu'île Provincial Park near Brighton, Ontario.

LBC706 – Acquired on Feb. 28/09 at Cerro Pelon, from Elidio Moreno (a female monarch) and also LBC773 – Acquired on March 2, 2009 at El Rosario from Jose Manuel Garcia Cruz (a male monarch) – Both were tagged on September 23, 2008, and represent the latest date on which Don Davis had one of his Ontario-tagged monarchs recovered in Mexico.

Also, Jim Ellis of Oshawa reports that from the Monarch Watch tag list, 5 of his tagged monarchs were recovered in Mexico - 3 released in September in Oshawa and 2 in Scarborough.



# 2009 ELECTORAL CANDIDATES



All fellows, regular and student members of the ESO who have renewed their membership in 2008 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 and three candidates for two director positions.

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

## *President-Elect Candidates*

### **Hannah Fraser**

My interest in entomology began at an early age when, to the dismay of my mother, I began setting up terrariums featuring insect diversity (typically battle-zones) at various inconvenient locations around the home. I became hooked on entomology and began to consider related career opportunities after taking an introductory course at the University of Guelph (U of G), where I completed my BSc. (Agriculture) in Environmental Biology in 1992. After working for some time in the agricultural industry, I returned to the U of G to complete a Master of Science in 1997, focusing on the sex pheromone of the greater wax moth male. Having been well-prepared for practical applications of economic entomology by my thesis supervisor, Dr. Cynthia Scott-Dupree, I entered the fascinating world of insect mating disruption at the Vineland Research Station, Agriculture and Agri-Food Canada. I moved on to the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) in 2000, where I have been working as the Entomology Program Lead for horticulture ever since.

My focus at OMAFRA includes sustainable IPM of agricultural pests in Ontario. Much of my time is spent working with affected industries and the research community to develop applied solutions for invasive insect pests, including the swede midge, emerald ash borer, plum pox virus, and most recently, the apple clearwing moth. I have specific interests in chemical ecology and mating disruption as a management option for tree fruit insects. One of the most rewarding features of my present position is the many opportunities to collaborate / network with colleagues within OMAFRA and researchers across Ontario / Canada.

I co-edit OMAFRA's key newsletter for horticulture, "Hort Matters", help plan large conferences, write factsheets, give guest lectures for students and de-

velop resources for use by industry. I take great joy in convincing growers that "not all bugs are bad", and had the opportunity to do so recently by coordinating demonstrations on enhancing pollinators and natural enemies in agricultural systems at the Ontario Fruit and Vegetable Convention in 2008 and 2009 (special thanks to folks from MSU and the U of G).

I have been a member of the ESO since 1995, acting as a Director and a member of the Public Educational Committee from 2005-2007. If elected as President, my plan is to work with other elected ESO officers and the general membership to promote the importance of entomology in Ontario. I would be honoured to represent the efforts of the society in continuing to produce a high quality, readily accessible publication (JESO) and to foster entomological education within the province.

### **Jeffrey Skevington**

Jeff received his Honours B.Sc. and his M.Sc. from the University of Guelph (the latter with Steve Marshall). He obtained a B.Ed. from Lakehead and his Ph.D. from the University of Queensland (under the supervision of David Yeates). His graduate work on the systematics of big-headed flies (Pipunculidae) has diversified to include research on several families of flies, including flower flies (Syrphidae) and thick-headed flies (Conopidae). After a post doc at the Canadian National Collection of Insects, Arachnids and Nematodes (CNC) with Jeff Cumming, Jeff took a position at the California Department of Food and Agriculture in Sacramento, CA. He then jumped at the opportunity to return home where he has worked as a research scientist with Agriculture and Agri-Food Canada since 2003 –as a Diptera Systematist in the CNC (<http://www.canacoll.org/Diptera/Staff/Skevington/Skevington.htm>).

## **President-Elect Candidates con't**

Jeff has always been enthusiastic about educating other potential systematists and naturalists, so soon after starting work at CNC he worked to become an Adjunct Professor at Carleton University and a member of the Associated Graduate Faculty at the University of Guelph. He now co-supervises four graduate students and has taught graduate level courses on molecular systematics and phylogenetic theory.

He is a strong proponent of local naturalist and entomological societies and has been heavily involved in these groups wherever he has lived. For example, Jeff has been a member of the ESO since 1990 and a member of the Toronto Entomologists' Association (TEA) since the early 1980's. Most recently, Jeff has served as a Director for the ESO from 2007 to 2009. He feels strongly that it is the local societies like these that are best connected to both the local entomological community and to the general public as a whole. Students obtain a personal connection with their colleagues and mentors through societies such as the ESO.

As President of ESO, Jeff would like to see deeper connections between the ESO and TEA and a stronger involvement in ESO from the amateur community. Amateur entomologists are playing a growing role in entomological research, due in a large part to the growing accessibility of scientific literature on the web. As the ESO is now heading for online publication in tandem with paper publication, we are poised to take full advantage of the growing interest in our science. It will be an exciting time to be involved with the ESO and to help shape the future directions of our successful society.

## **Director Candidates**

### **Adrienne Brewster**

I obtained my Master of Science degree from the Department of Environmental Biology at the University of Guelph. Under the supervision of Dr. Gard Otis, I developed a protocol to estimate cost effectiveness of tropical butterflies in live exhibits and explored novel methods of increasing butterfly longevity.

In December 2002, I was contracted by Wings of Paradise Butterfly Conservatory in Cambridge to develop their insect gallery exhibits. In 2005, I became their Curator and Entomologist and in 2009, I was promoted to Executive Director. The Butterfly Conser-

vatory is a year-round attraction that houses 2000-3000 free flying butterflies in a 950 m<sup>2</sup> tropical greenhouse. Our mandate is to promote a greater appreciation for the role insects play in nature. We strive to promote public education in entomology through exhibits, special events, and curriculum-based education programs.

My particular interests include promoting Monarch butterfly habitat conservation and increasing public awareness about native pollinator declines. I have led tours into Monarch overwintering sanctuaries in Mexico and I am active in Monarch migration tagging initiatives. I am one of 25 international recipients of the Imperiled Butterfly Conservation and Management Scholarship allowing me to travel abroad to train and collaborate with recipients from other institutions currently implementing butterfly conservation programs.

I first became a member of ESO in 2001 and have attended, presented at, and volunteered at many meetings. I have strong leadership and administrative skills and a passion for promoting entomological education and would be very pleased to become more involved with ESO as a director and appreciate your consideration.

### **Simon Lachance**

I obtained my Ph.D. in the field of biological control of pests at the University of Guelph in 2000, following a M.Sc. in Biology and a B.Sc. in Agronomy at Laval University in Québec City. During my Ph.D. I worked with native and exotic parasitoids of the tarnished plant bug. I started working as a College Professor at the University of Guelph – Campus d'Alfred in the fall of 2000, teaching pest management, applied plant science and food microbiology courses. This is quite an array of diverse topics for an entomologist, but it has been enlightening to be involved in areas of teaching other than entomology. From April 2006 to October 2008, I was the Research Coordinator (interim) for the Alfred and Kemptville Campuses of the University of Guelph.

My areas of expertise relate to practical issues in the management of insect pests, mostly in animal production and organic agriculture. In recent years, I have been involved with research projects dealing with the management of pest flies in dairy farming using bio-control agents and natural products (essential oils). I have also been actively involved with the maple syrup industry, dealing with the control of microorganisms in

## Director Candidates con't

maple syrup production, through sanitation of maple tubing and filtration of maple sap. I am now on the Board of Directors for the Ontario Maple Syrup Producers Association (OMSPA), the Association des producteurs francophones de Prescott-Russell and I am also the Chair of the Local Animal Care Committee for Campus d'Alfred. I would like to be further involved with Entomological Societies and as such, I would be interested in putting forth my name to serve as Director of ESO.

## Ian Scott

I completed my BSc. Honours Biology and MSc. Environmental Biology at the University of Guelph. I then spent 6 ½ years working for Environment Canada as a laboratory and field technician at the National Water Research Institute, Burlington Ontario. I went on to complete my PhD. in the Biology Department, University of Ottawa, where my research focused on the phytochemistry, efficacy and mode of action of plant extracts formulated for insect control.

Following graduation, I completed post doctoral research funded by Health Canada at the University of Ottawa to characterize the phytochemistry of extracts prepared from selected North American medicinal plants and their effects on selected metabolic enzymes. During a second post doc in the Entomology Department at Cornell University in Ithaca, NY, I studied plant-insect interactions. My project focused on the adaptive responses of the cabbage looper, *Trichoplusia ni*, to jasmonic acid induced defences in tomato. Selected metabolic and detoxification enzymes in *T. ni* as well as nutritive indices were measured after the larvae had fed on JA deficient or JA over-expressing tomato plants.

I am currently a Research Scientist (since March 2007) with Agriculture and Agri-Food Canada in London ON at the Southern Crop Protection and Food Research Centre. My research direction with AAFC is the further investigation of insect response to plant defences at the enzyme and molecular levels. The importance of this work will be to identify specific genes and to understand their role in the response of a generalist herbivore to different host plant defences or insecticides. I am involved with collaborative projects to: (1) monitor neonicotinoid insecticide-resistance in Colorado potato beetle *Leptinotarsa decemlineata* and organophosphorus insecticide-resistance in codling moth *Cydia pomonella*; (2) investigate the molecular level changes in the insecticide tolerant/resistant populations of Colorado potato beetle and (3) investigate the potential of selected plant-derived biopesticides and synergists for use in alternative insect control strategies.

## Backyard Monsters Exhibit — Royal Botanical Gardens

This excellent exhibit was recently put on display in the new Camilla and Peter Dalglish Atrium of the Royal Botanical Gardens. TEA member Don Davis was invited to attend the grand opening by the Dalglish family, who sponsored the exhibit. The exhibit was composed of huge animatronic insects, insect displays, live insects and activities for children.



## Obituary— Mrs. Norah Urquhart CM



On March 31, 2009, Norah Urquhart CM, wife of the late Dr. Fred Urquhart, and with her husband, jointly appointed to the Order of Canada for what has been described as "the greatest entomological discovery of the 20th century", died at a Pickering nursing home after a brief illness. She was in her 91st year. The Toronto Star published an excellent editorialized obituary: <http://www.thestar.com/article/620588>. Norah is survived by her son, Doug, who lives in Whitehorse, Yukon.

*Special thanks to Don Davis for submitting these pieces.*



# **EARTH, WIND, & WATER INSECTS IN ECOSYSTEMS**

October 2nd to 4th  
Frost Centre Institute, Dorset

## Invited Speakers:

Earth – Soil insects - Jonathan Schmidt, UofG  
Water – Aquatic invertebrates - Paul Sibley, UofG  
Wind – Insect migration - Jeremy McNeil, UWO

Highlights this year: Dedicated poster session, camp fire  
and nature hike

Call for Abstracts and Registration information to be circulated by early July  
Conference Fees will consist of Registration, plus Accommodation & Meals  
(all-inclusive). Double accommodation only.

Please direct enquiries to:  
Rebecca Hallett, Conference Chair  
519-824-4120 ext. 54488  
eso2009agm@gmail.com



## *Treasurer's Report – Fiscal 2008*

### *Submitted by Kevin Barber*

The following is the annual financial report for the period 01 January to 31 December 2008. Carl Nystrom and George Kyei-Poku (Great Lakes Forestry Centre, Sault Ste. Marie) audited the report on 05 February 2009 and the results were forwarded to the Secretary.

**Publication:** Transactions for JESO 137 are now complete (1 CDN subscriber in arrears for 2 volumes, terminated) after receipts of \$717. For JESO 138, transactions are also complete with receipts totalling \$9,893.09 and expenses totalling \$8,877.61 leaving an estimated overall surplus of \$1,732.47. Included in the receipts for JESO 138 is the Page Charge Grant from the Publication Fund while a debit for a contribution of \$500 was made to the Publication Fund (both are internal memos).

**General:** Membership dues (\$2,849.18), Bank Interest (\$447.02), Bond Interest (\$1,068), an ESC Public Encouragement Grant (\$200) and sales of ESO Lapel Pins (\$65) totalling \$4,629.20 were received. Expenses include Secretary/Newsletter Editor (\$268.58), Treasurer (\$1,095.07), Website (\$117.70), Prizes and Awards (\$1,250), Bank Charges (\$64.50), Public Education (\$172.33) and Board Travel (\$250) totalling \$3,218.18. This leaves a surplus of \$1,411.02.

**Meeting:** From the JAM2008 Committee we received a sponsor cheque (\$50) made out to the ESO which was reimbursed to the JAM2008 Committee. The JAM2008 Committee also reimbursed us for the \$1,500 loan as reflected in our fiscal activity and our summary of assets. An additional Travel Award (\$250) is reported here in order that it can be accounted against the residual from the ESO2006 surplus that now sits at \$77.81.

The current net Fiscal Balance of activity is estimated at \$4,393.49 and distributed across the 3 bank accounts.

Our Savings Account reflects a transfer to the Chequing Account (\$4,000), and companion transactions for the conversion of 2007-Series Ontario Savings Bonds to 2008-Series (\$6,000).

The Publication Fund saw several transactions (all are internal memos within our Savings Account). Setup for the rollover of \$630 from 2007 required an initial debit of that amount balanced by a credit of \$630 within the Fund. An additional credit of \$500 balances the fiscal allocation from Publication to the Fund (totalling

\$1,130 credits). This was followed by a "payment" of \$630 to Publication for the Page Charge Grant in JESO 138.

Aside from the transfer of \$6,000 from the Chequing to the Savings Account, the Chequing and US Accounts reflect only their portions of fiscal activity.

The three accounts total to an estimated balance of \$28,671.40. The total Investment principal in Ontario Savings Bonds remains at \$27,000 distributed over 3 series (2006 – \$6,000, 2007 – \$15,000, 2008 – \$6,000) providing a current estimate of \$55,671.40 Total Assets (currency exchange rate of 1.1825). The ESO is in sound financial shape.

## **Wanted: Monarch Samples**

Nathan Miller (seen below) from the University of Guelph is conducting research on the first monarch



butterflies to arrive in Ontario. Very little is known about these monarchs. Are they a first or second generation removed from those that left Mexico, or did some arrive here directly from the overwintering grounds? Nathan plans to conduct stable isotope studies to answer this question, and will require samples of newly arrived monarchs to June 30, 2009. This research is supported by Dr. Chip Taylor of Monarch Watch, and both Lincoln Brower and Karen Oberhauser have offered suggestions. This research will minimally impact the monarch population given the size of the province of Ontario. Please contact Nathan Miller at [nmiller@uoguelph.ca](mailto:nmiller@uoguelph.ca) for further information.



# Entomological Society of Ontario

## Treasurer's Report -- Fiscal 2008

### 01 January to 31 December 2008

FISCAL BALANCE	2008
<b>1. Publication (JESO Volume/Printer)</b>	<b>(138/TPL)</b>
<b>Credits - Previous Volumes 137</b>	
1 Page Charges (US\$ to C\$ equiv.)	C\$ \$ 439.87
1 Reprints (US\$ to C\$ equiv.)	C\$ \$ 34.28
Subscriptions (svgs)	\$ 30.00
1 Subscriptions (US\$ to C\$ equiv.)	C\$ \$ 212.85
	<b>\$ 717.00 A</b>
<b>Credits - Current Volumes 138</b>	
Page Charges (svgs - cheq)	\$ 4,025.00
1 Page Charges (US\$ to C\$ equiv.)	C\$ \$ 620.81
Reprints (svgs - cheq)	\$ 620.00
1 Reprints (US\$ to C\$ equiv.)	C\$ \$ 212.85
Subscriptions (svgs)	\$ 840.00
1 Subscriptions (US\$ to C\$ equiv.)	C\$ \$ 2,944.43
2 Page Charge Grants (Memo from Fund - svgs)	\$ 630.00
	<b>\$ 9,893.09 B</b>
<b>Debits - Volumes 138</b>	
3 Printing	\$ 4,987.49
3 Reprints	\$ 440.70
4 Layout / Technical Editing	\$ 2,949.42
Editor	\$ -
2 Allocation to Publication Fund (Memo - svgs)	\$ 500.00
	<b>\$ 8,877.61 C</b>
<b>Publication (Subtotal 1 = A+B-C)</b>	<b>\$ 1,732.47</b>
<b>2. General</b>	
<b>Credits</b>	
Membership Dues (svgs)	\$ 2,849.18
Bank Interest (svgs)	\$ 442.55
Bank Interest (cheq)	\$ 4.47
Bond Interest (svgs - cheq)	\$ 1,068.00
ESC Grant - Pub.Encour. (svgs)	\$ 200.00
ESO Lapel Pins (svgs)	\$ 65.00
	<b>\$ 4,629.20</b>
<b>Debits</b>	
5 Secretary / Newsletter Editor	\$ 268.58
6 Treasurer	\$ 1,095.07
7 Website	\$ 117.70
8 Prizes, Awards	\$ 1,250.00
9 Bank Charges	\$ 64.50
Equipment Grant	\$ -
10 Public Education	\$ 172.33
11 Travel	\$ 250.00
Other	\$ -
	<b>\$ 3,218.18</b>
<b>General (Subtotal 2)</b>	<b>\$ 1,411.02</b>
<b>3. Meeting</b>	
<b>Credits</b>	
12 AGM Loan Return (svgs - cheq)	\$ 1,500.00
13 Sponsor from JAM2008 (svgs)	\$ 50.00
	<b>\$ 1,550.00</b>
<b>Debits</b>	
14 Extra Travel Award (Student)	\$ 250.00
13 Sponsor/Refund JAM2008	\$ 50.00
	<b>\$ 300.00</b>
<b>Meeting (Subtotal 3)</b>	<b>\$ 1,250.00</b>
<b>FISCAL BALANCE (Subtotals 1-3)</b>	<b>\$ 4,393.49</b>

Kevin Barber – Treasurer

Carl Nystrom – Auditor

George Kyei-Poku – Auditor

TOTAL ASSETS	2008
<b>FISCAL BALANCE (Subtotals 1-3)</b>	<b>\$ 4,393.49</b>
Fiscal Activity - CDN Svgs Account	\$ 11,819.73
Fiscal Activity - CDN Cheq Account	\$ (11,891.32)
1 Fiscal Activity - US Account	C\$ \$ 4,465.08
<b>TOTAL ASSETS</b>	
<b>CDN Savings Account</b>	
<b>Opening Balance</b>	<b>\$ 10,261.02</b>
Fiscal Activity	\$ 11,819.73
Transfer to CDN Cheq. Acc't	\$ (4,000.00)
17 Bonds Mature / Cashed (2007 series)	\$ 6,000.00
17 Bond Purchase (2008 Series)	\$ (6,000.00)
2 Publications Fund - 2007 Rollover	\$ (630.00)
2 Credits from Rollover and "Publication"	\$ 1,130.00
2 Debits as Waivers/Grants	\$ (630.00)
<b>Closing Balance</b>	<b>\$ 17,950.75 D</b>
Publications Fund - Subject to Rollover	\$ 500.00
<b>CDN Chequing Account</b>	
<b>Opening Balance</b>	<b>\$ 10,083.19</b>
Fiscal Activity	\$ (11,891.32)
Transfer from CDN Svgs. Acc't	\$ 4,000.00
<b>Closing Balance</b>	<b>\$ 2,191.87 E</b>
<b>US Account</b>	
<b>Opening Balance</b>	US\$ \$ 3,436.53
1 Fiscal Activity	US\$ \$ 3,775.97
<b>Closing Balance</b>	US\$ \$ 7,212.50
<b>CDN equivalent</b>	C\$ \$ 8,528.78 F
<b>Outstanding Loans</b>	
ESC/ESO2008	\$ 1,500.00
12 Repayment (7-Oct-08)	\$ (1,500.00)
<b>ESC/ESO2008</b>	<b>\$ - G</b>
<b>Investments - Ontario Savings Bonds *</b>	
2006 - Principal (Ann. Int. to Account)	\$ 6,000.00
2007 - Principal (Ann. Int. to Account)	\$ 21,000.00
15 2007 - Principal redeemed	\$ (6,000.00)
15 2008 - Principal (Ann. Int. to Account)	\$ 6,000.00
<b>Total Investments - OSB</b>	<b>\$ 27,000.00 H</b>
<b>TOTAL ASSETS (D+E+F+G+H)</b>	<b>\$ 55,671.40</b>
<b>Increase (Decrease)</b>	<b>\$ 3,536.37</b>
- Attributable to fiscal transactions, Pub.Fund, less loan	\$ 1,914.28
- Attributable to change in exchange rate	\$ 1,622.09

16 US account transfer exchange rate		
17 Reporting exchange rate (interim/year-end)	1.1825	31-Dec rate
18 Previous year-end exchange rate	0.9576	
19 Member dues rates	\$30/\$0/\$10	

\* 5-year step-up, annual interest to Svgs Acct, series interest rates:

2006 - 3.70, 3.80, 3.90, 4.00, 4.25%; 2007 - 4.00, 4.20, 4.40, 4.60, 4.95%;  
2008 - 2.60, 2.80, 3.00, 3.20, 4.00%

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 US

2 - Publication Fund - \$630 rollover, \$500 credit, \$630 waiver debit

3 - JESO138 - Thistle Printing Ltd.

4 - JESO138 - A.Rutgers-Kelly - layout \$2056, tech-edit \$869.54, mailing \$23.88

5 - mailing of Newsletter, Invoices, Ballots by Secretary

6 - mailing of JESO 138

7 - B.Lyons - \$99US

8 - Travel Awards 2@\$250; Pres Prizes 5@\$150 (+\$100 each from ESC)

9 - includes \$42 for Safety Deposit Box rental

10 - insect drawers, unit trays

11 - Student Representative travel to JAM2008

12 - loan repaid and asset converted to cash

13 - JAM2008 - sponsorship written to ESO, cheques exchanged

14 - ESO Travel Award - a third award paid from ESO2006 surplus

15 - 2007 series bonds converted to 2008 series

16 - actual US-C\$ exchange rate achieved during account transfer

17 - exchange rate used at end of reporting period (31-Dec-2008)

18 - used to calculate value of US in C\$ if there had been no change in rates

19 - Regular/Domestic Student, Amateur, Retired/International Student, Amateur

## Seen any Lep's?

Again this year, a number of organizations and individuals are interested in your butterfly sightings. Journey North ([www.learner.org/jnorth](http://www.learner.org/jnorth)) and Don Davis of Toronto ([donald\\_davis@yahoo.com](mailto:donald_davis@yahoo.com)) would be interested in your first sighting of migrating monarch butterflies, eggs, larva and emergence of milkweed.

Toronto Entomologists' Association (TEA) members Colin Jones and Ross Layberry are interested in receiving current and past lepidoptera sightings for the TEA annual summary compiled and published each year. Colin has created an Excel worksheet specifically for recording lep sightings, but hard copy records are also accepted. Please contact Colin at [colin.jones@ontario.ca](mailto:colin.jones@ontario.ca). Unusual butterfly and moth sightings can be reported immediately to the Google group called "ONTARIO BUTTERFLIES".



## ESO Committees

**Awards:** Chair Jennifer Allen – 519-826-4963 - [jennifer.allen@ontario.ca](mailto:jennifer.allen@ontario.ca); Krista Ryall – 705-541-5549 – [kryall@nrcan.gc.ca](mailto:kryall@nrcan.gc.ca)

**ESO Regional Rep to ESC:** Hume Douglas – 613-759-7128 – [douglash@inspection.gc.ca](mailto:douglash@inspection.gc.ca)

**JESO Editor:** Miriam Richards – 905-688-5550 x4406 - [miriam.richards@brocku.ca](mailto:miriam.richards@brocku.ca); **Technical Editor** – Sandra Rehan – 905-934-3656 - [sandra.rehan@brocku.ca](mailto:sandra.rehan@brocku.ca)

**Librarian:** Jim Brett - 519-824-4120 x54214 - [jimbrett@uoguelph.ca](mailto:jimbrett@uoguelph.ca)

**Outreach:** Chair Kathleen Ryan – 647-207-9440 – [kathleen.ryan@utoronto.ca](mailto:kathleen.ryan@utoronto.ca); Joel Gibson - 613-520-2600 x1244 - [jgibson5@connect.carleton.ca](mailto:jgibson5@connect.carleton.ca)

**Nominations:** Rebecca Hallett – 519-824-4120 x54488 – [rhallett@uoguelph.ca](mailto:rhallett@uoguelph.ca)

**Website:** Webmaster Barry Lyons - 705-541-5617 - [blyons@nrcan.gc.ca](mailto:blyons@nrcan.gc.ca); Sigrun Kullik – 519-824-4120 x54847 - [sigrun.kullik@sympatico.ca](mailto:sigrun.kullik@sympatico.ca); Hume Douglas – 613-759-7128 – [douglash@inspection.gc.ca](mailto:douglash@inspection.gc.ca)

## The Incredible World of Bugs Exhibit

In partnership with Orkin Canada, noted Cambridge entomologist John G. Powers will be travelling across Ontario with his "INCREDIBLE WORLD OF BUGS EXHIBIT" and visiting shows, malls and other venues across Ontario. Some dates are posted below:

*Toronto Eglinton Square  
May 28, 29, 30  
Sudbury Shopping Centre  
June 4,5,6  
Belleville Quinte Mall  
June 8,9,10  
Sarnia Lampton Mall  
June 18, 19, 20  
Peterborough Square  
July 2,3,4  
Toronto Dufferin Mall  
Oct. 9, 10, 11*

Among the insects John will be showing in the exhibit will be a moth, captured in South America in the 1930's and recognized as the World's Largest Moth by the Guinness Book of Records. John has been studying insects for 50 years, and will be recognized this year for his contributions to the City of Cambridge.

Information for this piece provided by Don Davis.

Source: [www.caneastshows.com/pdfOrkin2009ExhibitBookmark.pdf](http://www.caneastshows.com/pdfOrkin2009ExhibitBookmark.pdf)





**The Friends of Mac Johnson  
Wildlife Area**  
Invite you to be part of the CRCA  
**Brockville Bioblitz**  
June 5<sup>th</sup> and 6<sup>th</sup>, 2009

**Mark Your Calendar!**  
**Come for the experience!**

The Friends of Mac Johnson Wildlife Area and the Cataraqui Region Conservation Authority (CRCA) invite entomologists to a 24-hour science festival full of species identification, community interaction, contests, food and fun.



Mac Johnson Wildlife Area (MJWA) is 532 hectares consisting of Provincially Significant wetland, meadow, shrub, open fields, sand dunes, limestone bedrock, deciduous, evergreen and sugar maple forest. It provides flood control for Brockville, opportunities for outdoor recreation and education, and a nature refuge for a wide diversity of plant and animal species.

MJWA lies along the north eastern side of the Frontenac Arch Biosphere Reserve. This UNESCO designated area, which stretches along the St. Lawrence River between Brockville in the east and Gananoque in the west and extends north to Westport, is part of the most biologically diverse area of Canada.

The Brockville Bioblitz is an opportunity for the Friends of MJWA and the CRCA to involve the community in updating a 27 year old inventory of plants and animals. Identifying the species diversity at MJWA is needed to safely improve trails, facilities, and environmental education opportunities on-site. The information may support other projects within the Frontenac Arch Biosphere Reserve and provides an unprecedented opportunity for specialists, enthusiasts, community organizations, and the general public to work together and raise awareness of the importance of developing sustainable communities.

For more information contact [bioblitz@b2b2c.ca](mailto:bioblitz@b2b2c.ca).  
Visit us at [perso.b2b2c.ca/brockvillebioblitz/default.html](http://perso.b2b2c.ca/brockvillebioblitz/default.html)



## Butterfly Whisperer

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Ben Kulon

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Methods



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Box 681 Sarnia ON N7T 7J7

Project Coordinator:

Gord Catterson 519-337-1246

Fax: 519-913-2449

[info@lambtonwildlife.com](mailto:info@lambtonwildlife.com)

Charitable # 119004620RR0001

## Student Travel Awards for the Annual Meeting

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 [www.entsocont.com/member.htm](http://www.entsocont.com/member.htm)) who are presenting a poster or a paper at the Annual Meeting of the Entomological Society of Ontario being held on the 2-4 October 2009, at the Frost Centre Institute in Dorset, 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 1st, 2009.** Recipients will be notified at least two weeks before the annual meeting. Please send applications electronically to:

Jennifer Allen  
Awards Committee Chair  
[jennifer.allen@ontario.ca](mailto:jennifer.allen@ontario.ca)

In addition to travel awards there will also be President's Prizes awarded at the meeting for exceptional paper and poster presentations. Please refer to meeting registration forms for more information on eligibility.

## Student Group Travel Subsidies for the Annual Meeting



In addition to the traditional Student Travel Awards, the ESO is delighted to offer four \$150 travel subsidies for students travelling in groups to the annual meeting. The subsidies will be distributed on a first come/first serve basis. To qualify for a subsidy one member of the group must submit an email listing group members. Following the conference, a short report (1 paragraph) listing expenses incurred along with all receipts must be forwarded to the awards committee chair.

**Remember—first come, first serve!**

If interested, please send an email to:

Jennifer Allen  
Awards Committee Chair  
[jennifer.allen@ontario.ca](mailto:jennifer.allen@ontario.ca)

## JESO

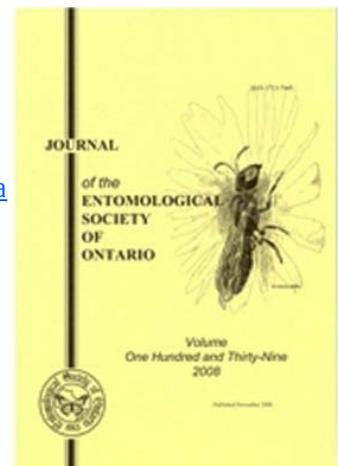
Working on a manuscript? Submit it to JESO.

Instructions to authors are available on-line at [www.entsocont.com/instructions\\_2008.pdf](http://www.entsocont.com/instructions_2008.pdf)

Electronic submissions should be directed to:

Miriam Richards,  
JESO editor,

[Miriam.Richards@brocku.ca](mailto:Miriam.Richards@brocku.ca)



## Please Renew Your 2009 ESO Membership

Please 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 ESO Secretary, Nicole McKenzie at: [nicole\\_mckenzie@hc-sc.gc.ca](mailto:nicole_mckenzie@hc-sc.gc.ca)

## Missing Members:

If you know any of these members, please ask them to send their contact information to ESO Secretary, Nicole McKenzie.

- ◆ Chris Cutler
- ◆ Crystal Ernst
- ◆ J. Frank Hogan
- ◆ Timothy G. Myles
- ◆ Paul Abram
- ◆ Elisabeth Reicher
- ◆ Lauren Pinault
- ◆ Kelly O'Keefe
- ◆ Lisa Conroy
- ◆ Mona Moineddin

## Grad Students: We Want to Hear From You

The ESO newsletter is a great place to showcase your research. If you're interested in sharing your findings, why not submit an article to the ESO newsletter? You can see your research featured in the Research News section.

## Meetings: Ontario and Beyond

### 2009 Insect Festival

4 July, 2009  
York Museum Gardens, York, UK

A festival celebrating the insect world, open to the general public.

[www.royensoc.co.uk/events\\_ifest\\_body.php](http://www.royensoc.co.uk/events_ifest_body.php)

### 2009 Entomological Society of Ontario Annual Meeting

2—4 October, 2009  
Frost Centre Institute, Dorset, Ontario

Meeting Theme: *Earth, Wind & Water: Insects in Ecosystems*

### ESA Annual Meeting

13-16 December, 2009  
Indianapolis, Indiana, US

Meeting Theme: *Celebrating Entomology!  
Colleagues, Science, Ideas*

[www.entsoc.org/am/cm/index.htm](http://www.entsoc.org/am/cm/index.htm)



## Always Wanted: Entomology News

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

Jennifer Allen — ESO Newsletter Editor  
[jennifer.allen@ontario.ca](mailto:jennifer.allen@ontario.ca)