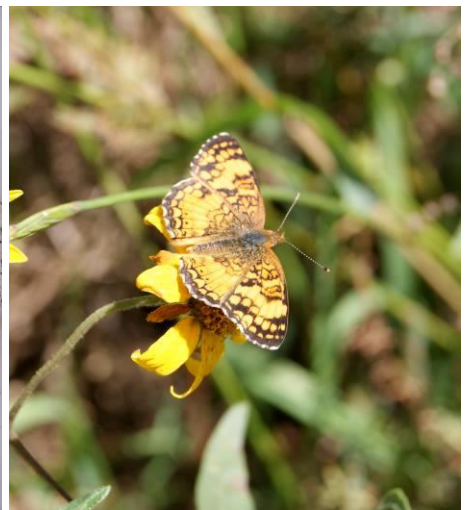


# Boreus



Newsletter of the Entomological Society of British Columbia





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**Say's Phoebe eating an acridid. Photo: Bob Lalonde, UBCO campus.**



## The Executive



The Entomological Society of British Columbia is a scientific Society founded in 1902 for the advancement of entomological knowledge in the province.

<b>President</b>	Ward Strong B.C. Ministry of Forests, Lands and Resource Operations, Vernon
<b>President-Elect</b>	Mike Smirle Agriculture and Agri-Food Canada, Summerland
<b>Past-President</b>	Rob McGregor Douglas College, New Westminster
<b>Secretary</b>	Tracy Hueppelsheuser BCMAL, Abbotsford, BC
<b>Treasurer</b>	Maxence Salomon Douglas College, New Westminster
<b>Editorial Committee (Journal)</b>	Dezene Huber (Editor) University of Northern B.C., Prince George Robert Cannings, Royal B.C. Museum, Victoria Lorraine Maclauchlan B.C. Ministry Forests & Range, Kamloops Bob Lalonde University of British Columbia – Okanagan, Kelowna Steve Perlman University of Victoria, Victoria Leland Humble Canadian Forest Service, Victoria Rob McGregor Douglas College, New Westminster
<b>Editors (Boreus)</b>	Gabriella Zilahi-Balogh Canadian Food Inspection Agency, Kelowna Jennifer Heron (co-editor until June 2013) B.C. Ministry of Environment, Vancouver
<b>Directors</b>	Susanna Acheampong (2 <sup>nd</sup> ) B.C. Ministry of Agriculture, Kelowna Jenny Cory (1 <sup>st</sup> ) Simon Fraser University, Burnaby Tracy Hueppelsheuser (2 <sup>nd</sup> ) B.C. Ministry of Agriculture and Lands, Abbotsford Bob Lalonde (1 <sup>st</sup> ) University of British Columbia, Okanagan Campus, Kelowna Karen Needham (1 <sup>st</sup> ) University of British Columbia, Vancouver Campus
<b>Graduate Student Representative</b>	Ikkei Shikano Simon Fraser University, Burnaby
<b>Honorary Auditor</b>	Rob McGregor Douglas College, New Westminster
<b>Regional Director of National Society</b>	Bill Riel Canadian Forest Service, Victoria
<b>Web Editor</b>	Alex Chubaty Simon Fraser University, Burnaby



## Publications of ESBC

### Journal of the Entomological Society of British Columbia

#### Journal of the Entomological Society of British Columbia



ESBC  
© 2007 Entomological  
Society of British  
Columbia

The Journal of the Entomological Society of BC is a peer reviewed, open-access journal. Manuscripts dealing with all facets of the study of arthropods will be considered for publication. Submissions may be from regions beyond British Columbia and the surrounding jurisdictions provided that content is applicable or of interest to a regional audience. Authors are invited to submit ideas for review and forum articles as well. Line drawings or photographs as candidates for the cover are also accepted.

For more information please contact Dr. Dezene Huber, Editor-in-Chief at [journal@entsocbc.ca](mailto:journal@entsocbc.ca).

The deadline for submissions to be included in the 2013 issue is 01 September, 2013. Please submit articles at the JESBC website: <http://journal.entsocbc.ca/>.

## Boreus

#### Boreus

Newsletter of the Entomological Society of British Columbia



June 2008  
Volume 23 (1)

*Boreus*, the Newsletter of the Society is published in June and December. It contains entomological news, comments, reports, reviews and notices of meetings and other events. While emphasizing the Society's affairs, *Boreus* provides members with a forum for their views and news of British Columbia entomology, as well as informal articles, notes regarding research projects, and anything else that may be of interest to entomologists.

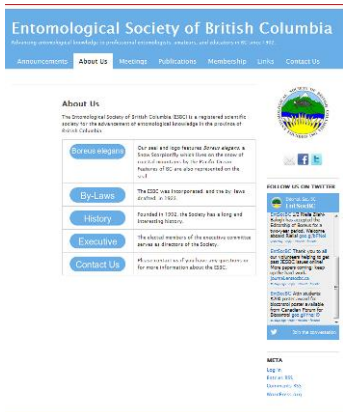
Please submit any entomological photograph, article, event or informational tidbit to the Editor!

*Boreus* has a new editor starting January 2013, please send correspondence concerning *Boreus* to Gabriella (Riella) Zilahi-Balogh at [boreus@entsocbc.ca](mailto:boreus@entsocbc.ca).

The deadline for submissions to be included in the June issue is May 15, 2013.



## ESBC Website



**Entomological Society of British Columbia**  
 Making entomological knowledge accessible to all  
 Home | About Us | Meetings | Publications | Membership | Links | Contact Us

**About Us**  
 The Entomological Society of British Columbia (ESBC) is a registered scientific society for the advancement of entomological knowledge in the province of British Columbia.

**Our Site**  
 Our site and sign features direct inquiries & links for scientific and general information of interest to members. For more information, please contact us at [info@entsocbc.ca](mailto:info@entsocbc.ca).

**By-Laws**  
 The ESBC was first formed in 1952 and has since then been a registered society in British Columbia.

**History**  
 Founded in 1952, the Society has a long and interesting history.

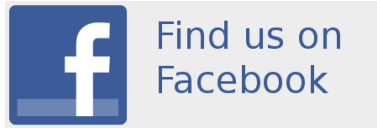
**Executive**  
 The elected members of the executive committee serve as directors of the Society.

**Contact Us**  
 If you are not a member, please contact us for more information about the ESBC.

**Main Webpage:** <http://entsocbc.ca>

Update your bookmarks, and save our new URL to your browser favourites. Our website provides all the information you need, in one place: ESBC announcements, meeting info, publications, contact information, and other useful links.


## Facebook



**Join us on Facebook:**  
<https://www.facebook.com/groups/13552445022/>

Keep in touch with students, colleagues, and friends! Stay up to date with the latest entomological happenings in BC, upcoming conferences, education and employment opportunities.

## Twitter



**Follow us on Twitter:** <https://twitter.com/EntSocBC>

Join the conversation and connect with thousands of other entomologists and insect enthusiasts from all over the world. Stay up to date with insect news, announcements, conferences and job opportunities.



## Membership

**Membership** of the Entomological Society of B.C. is available to anyone interested in entomology. Annual dues are: Canadian resident \$20.00, International member \$25 or Student member \$10. There is an additional \$10.00 (Domestic) or \$15.00 (International) charge to receive hardcopies of the Journal. Join or renew your membership online via the Society's website <http://entsocbc.ca/membership/>.

**Inquiries** concerning membership and back issues should be sent to the Treasurer, Maxence Solomon, E-mail: [membership@entsocbc.ca](mailto:membership@entsocbc.ca)

**Cover Sketch:** *Boreus elegans* (Mecoptera: Boreidae), one of the more conspicuous snow scorpionflies in B.C. Larvae and flightless adults live in, and feed on, moss and clubmoss. Adults appear in the fall and are active on snow on warm winter days. Cover sketch credit Ward Strong and Robert A. Cannings.

### Cover Photographs:

<p>Yellow Sand-verbena (<i>Abronia latifolia</i>), host plant to the endangered Sand-verbena Moth (<i>Copablepharon fuscum</i>); photograph Sandy Island Provincial Park, B.C. Photograph by Jenny Heron.</p>	<p>Bombyliid observed flying in early October on the North Kelowna UBC campus. There was one solitary rabbitbrush plant that was attracting an unusual number of pollinators. Photograph by Bob Lalonde.</p>	
<p>Caterpillars munching on a plant at Anabis area, New Mexico, USA, August 2012. Photograph by Jenny Heron.</p>	<p>Contents of a moth trap set at Cowichan Garry Oak Preserve, Vancouver Island, July 2011. Photograph by Jenny Heron.</p>	<p>Butterfly photo taken at Mount Douglas area, New Mexico, USA, August 2012. Photograph by Jenny Heron.</p>



## ESBC Annual General Meeting and Symposium 2013

This year's AGM and symposium will be held November 1 - 2 and at the Pacific Forestry Centre in Victoria. Mark it on your calendars. The symposium theme has not been decided on. Check out our website for details. <http://blogs.sfu.ca/groups/esbc/announcements/>

### Boreus Editor's Note

This is my first issue as editor for Boreus. I hope that I can full fill duties as faithfully as Jenny Heron who was in the position for 8 years. I am always looking for material to put in the newsletter so your contributions are welcome.

I look forward to this rewarding position. Gabriella



### Positions with ESBC Executive that are up for Election at the AGM in November 2013

Up for re-election this year are 1 director, President-Elect, and Secretary. Please send nominations to [info@entsocbc.ca](mailto:info@entsocbc.ca).





## President's Corner

Prepared by Ward Strong, ESBC President

The ESBC has been thriving in 2013, due to an active membership and hard-working executive. Below is a quick update on what's happening:

- **The Journal of the ESBC has gone open-access.** This year is the first year that the JESBC will be completely digital, with papers published electronically as soon as they are ready. At year-end, whatever has been published will be bound into the 2013 volume. Dezene Huber has led this innovative effort with help from Alex Chubaty, ensuring that the JESBC remains a viable and relevant Journal. Dezene's crack Editorial team have helped ensure the quality and timeliness of publication.
- **The JESBC Digitization project** is moving along nicely under the direction of Alex Chubaty. All digitization has been completed, but we have found error checking and metadata entry to be a stumbling block. Alex has, as usual, taken the bull by the horns and rustled up some summer student assistance for error checking and metadata entry. The ESBC has agreed to fund up to \$4000 this summer to help complete the digitization project. These archives are a valuable entomological record which will be far more accessible in the new digital, open-access format than they ever were in their original paper format.
- **Defense of Open Access.** In our bid to remain open-access and free to all, we have declined invitations by EBSCO to list the JESBC with them. They are a for-profit scientific paper repository that would charge clients a fee to find our papers. We have tested other means of finding our papers, including Google Scholar and search engines at various university libraries, and all had no trouble finding any of our publications. Therefore we declined EBSCO's invitation to list with them.
- **Checklist of BC Lepidoptera.** We have just agreed to publish a Checklist of BC Lepidoptera as an Occasional Paper. Authored by several of Canada's premier taxonomists, this is a real landmark with relevance to BC, Canada and the world. It's also appropriate, since the first Occasional Paper was published in 1951: "An annotated check list of the Macrolepidoptera of British Columbia" by J.R.J. Llewellyn Jones. We're delighted to be able to offer financial and editorial assistance (with the JESBC team) to get this out the door.
- **ESBC Social Media keeps us in touch.** Alex Chubaty has spearheaded the effort to establish our social media sites. Communication among ESBC members has been dramatically enhanced with these methods, as well as exposure to the general public.
- **Grade School Entomology Project Grants.** Every few years we run this program to offer small grants to classes (K - 12) for entomological projects. The Entomological Society of Canada provides up to \$200 annually, cumulative up to 3 years, for educational grants. The ESBC matches this, so we have \$1200 in the grant fund. This year the program will be headed up by Tracy Hueppelsheuser and Susanna Acheampong, with help from Karen Needham who ran the last program.



- **Online Paypal payment of fees.** Payment of fees, JESBC charges, and registration for the Joint Annual Meeting can now be done online. Please be sure to keep your membership up to date with a simple, quick Paypal payment. Our membership and conference fees are still among the cheapest in the scientific world, so please help support your society.
- **The 2013 JAM and Symposium** will be held at the Pacific Forestry Centre in Victoria. This will be a well-attended meeting, so register soon. The topic for the Symposium has yet to be decided: if you have any ideas, please contact me at [info@entsocbc.ca](mailto:info@entsocbc.ca)
- There are other minor issues that have been debated and resolved over the last few months. I'm pleased to say that the ESBC is alive and well. Part of the reason for our ongoing success is our continued innovation and adoption of new technologies. This is particularly important in attracting new and upcoming entomologists as time goes on. I have seen too many societies wither and die because of an inability to attract the next generation. I believe the best way to maintain a viable presence is to adapt to the times, and even push the envelope in technological advancement. As well, our Student Representative Ikkei Shikano has a strong role in keeping students and prospective members in touch. There are many exciting ways to grow, providing opportunities for the involvement of upcoming entomologists.



Ant mound, Myra Belleview Provincial Park, Kelowna, BC. Photo by Gail Swintak



Dolichopodid is probably *Condylostylus* sp. Photo by Bob Lalonde UBCO Campus



Spider surveys at Fairy Lake northeast of Port Renfrew, Vancouver Island, recorded *Pimoa altiocularata*. The name *Pimoa* comes from the language of the Goshute people in Utah, and means “big legs”. Photo taken June 2013 by Kristiina Ovaska.



Spider surveys at Fairy Lake northeast of Port Renfrew, Vancouver Island, recorded *Pityohyphantes* spp. This genus is referred to as Hammock Spiders or Sheetweb Spiders. Photo taken June 2013 by Kristiina Ovaska.



Spider surveys at Fairy Lake northeast of Port Renfrew, Vancouver Island, recorded *Pimoa altiocularata*. Photo taken June 2013 by Kristiina Ovaska.



## Graduate Student Representative Note

Prepared by Ikkei Shikano, Graduate Student Representative

Happy summer everyone! I hope you are enjoying the warm sunny weather and the long days.

Whether you're busy collecting data in the field or in the lab, don't forget to submit an abstract to present your work at the **Annual General Meeting of the ESBC this fall!** Location is Pacific Forestry Centre in Victoria, November 1 and 2, so check our website for upcoming details, <http://blogs.sfu.ca/groups/esbc/announcements/>.

### Joint Annual Meeting of the Entomological Society of Canada and the Entomological Society of Ontario (ESC-ESO JAM 2013)

The national meeting this year will be held in Guelph from 20 to 23 October 2013. The deadline to apply for the ESC Ed Becker Conference Travel Award, the abstract submission deadline for the President's Prize Competitions, and the application/abstract submission deadline for the Graduate Student Symposium are all TBA at the moment. All of the information about the meeting can be found at:

<http://www.uoguelph.ca/debu/esc-eso2013/esc-eso.html>

More information on awards offered by the ESC can be found at:

<http://www.esc-sec.ca/studentawards.php>.

Have a great summer!

Ikkei

[ishikano@sfu.ca](mailto:ishikano@sfu.ca)

## Entomology Educational Opportunities in Canada

The Entomological Society of Canada published a Directory of **Entomological Education in Canada**. Available at: [http://www.esc-sec.ca/students/Directory\\_of\\_Entomology.pdf](http://www.esc-sec.ca/students/Directory_of_Entomology.pdf)



## Research Opportunities

**M.Sc.: The landscape ecology of the spread of the apple maggot, *Rhagoletis pomonella*, an invasive insect in the Pacific Northwest**

Department of Biology, University of British Columbia, Okanagan Campus, Kelowna

Starting date: January 2014

Contact: [jason.pither@ubc.ca](mailto:jason.pither@ubc.ca)

**M.Sc.: Aspects of *Drosophila suzukii* population dynamics.**

Department of Biology, University of British Columbia, Okanagan Campus, Kelowna

Starting date: January 2014

Contact: [robert.lalonde@ubc.ca](mailto:robert.lalonde@ubc.ca)



Halictid gathering pollen in a bull thistle head.  
Photo by Bob Lalonde UBCO Campus

## DNA Barcoding Website:

There is a new blog exclusively on the topic of DNA barcoding with the aim to have newsworthy information posted a few times per week. The blog is lead by Dirk Steinke, Lead Scientist Barcoding of Marine Life Biodiversity Institute of Ontario University of Guelph, Ontario.

Email: [dsteinke@uoguelph.ca](mailto:dsteinke@uoguelph.ca) and blog website <http://dna-barcoding.blogspot.ca/>



## Entomological Society of Canada

Blog available at:

<http://escsecblog.com/>

December 2012 Bulletin available online:

[http://www.esc-sec.ca/bulletin/bulletin\\_dec\\_2012.pdf](http://www.esc-sec.ca/bulletin/bulletin_dec_2012.pdf)

Eight Annual Photo Contest Winning Photos:

<http://www.esc-sec.ca/photocontest12.php>

**Joint Annual Meeting of the Entomological Societies of Ontario and Canada** (Predating the Nation - A Sesquicentennial Celebration of Entomology in Canada) Guelph, Ontario, 20-23 October 2013.



**Blacklighting in Osoyoos, BC. Photo by Dave Holden.**



July 18, 2013

**Announcing the Entomological Society of Canada-Entomological Society of Ontario Joint Annual Meeting and 150<sup>th</sup> celebration, Guelph, Ontario, 20-23 October, 2013**

Dear **Members of the Entomological Society of British Columbia,**

On behalf of the Entomological Society of Canada (ESC) and the Entomological Society of Ontario (ESO), we are pleased to announce our 150<sup>th</sup> Anniversary this year, and welcome you and interested members of the Entomological Society of British Columbia to join us in celebration at our upcoming Joint Annual Meeting (JAM), 20-23 October, 2013 in Guelph Ontario.

As you know, the ESC and ESO have shared a rich, intertwined history pre-dating Canada when a group of dedicated “students and lovers of entomology” met in Toronto, Ontario on April 16, 1863. Initially drawing a membership of insect collectors and natural historians, today our scientific societies are made up of university, government and industry professionals and students, yet still with an amateur presence and overall flavour. Our respective societies continue to be vibrant promoters and advocates of entomological research, cross-border collaboration, and the widespread sharing and dissemination of entomological knowledge through our annual meetings and scientific publications.

Please see our meeting website, for the full slate of activities, including scientific symposia and workshops, being planned for the upcoming JAM (<http://www.uoguelph.ca/debu/esc-eso2013/esc-eso.html>), and if interested in attending, visit our meeting registration site at <http://www.uoguelph.ca/debu/esc-eso2013/registration.html> (early registration deadline, 15 August, 2013).

Hope to see you at our sesquicentennial.

Best regards,

Rose De Clerck-Floate  
President, Entomological Society of Canada  
([Rosemarie.DeClerck-Floate@agr.gc.ca](mailto:Rosemarie.DeClerck-Floate@agr.gc.ca))

Jeff Skevington  
President, Entomological Society of Ontario  
([Jeffrey.Skevington@agr.gc.ca](mailto:Jeffrey.Skevington@agr.gc.ca))





## Books

Field Guide to the Jewel Beetles (Coleoptera: Buprestidae) of Northeastern North America. 2012. Steven M. Paiero, Morgan D. Jackson, Adam Jewiss-Gaines, Troy Kimoto, Bruce Gill, Stephen A Marshall.

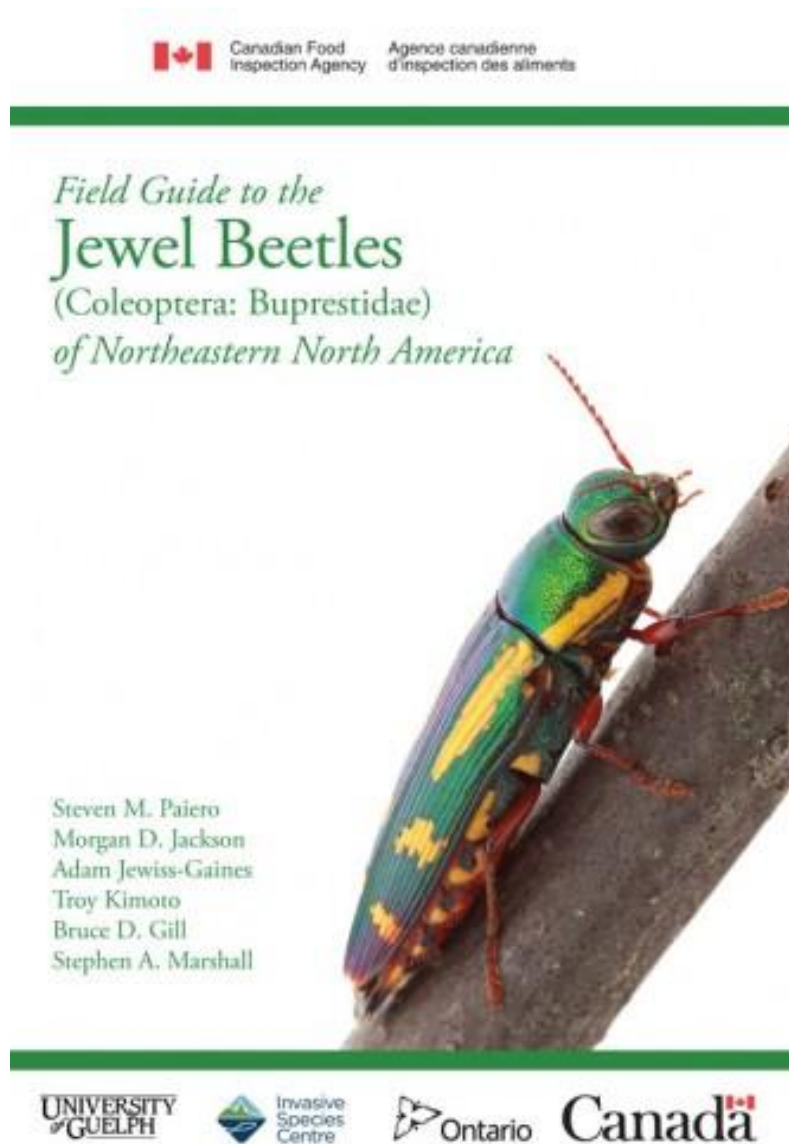
Following the accidental introduction of Emerald Ash Borer (*Agrilus planipennis*) in the mid 1990's, and its subsequent detection in the Detroit, MI/Windsor, ON area in 2002, jewel beetles (Buprestidae) have become front page news in many communities in eastern North America. As federal, provincial, state and municipal governments initiate jewel beetle monitoring projects to track the expanding range of Emerald Ash Borer, many other species are captured as by-catch, which has subsequently lead to an increased interest in these bold and beautiful beetles.

Luckily, North American buprestid taxonomists have been working diligently with these charismatic & economically important beetles for decades, and have described and classified nearly all the eastern North American fauna. With a solid taxonomic base to build upon and an increasing demand for accessible identification resources, a partnership was formed between the [Canadian Food Inspection Agency](#), the [University of Guelph Insect Collection](#) and the [Invasive Species Centre](#) to create a user-friendly resource for jewel beetle identification. Today, I'm happy to announce the imminent publication of a Field Guide to the Jewel Beetles of Northeastern North America!

This 411 page field guide (6×9") covers the 164 jewel beetle species known from northeastern North America, and also includes 2 identification keys to the 23 genera in the region: one a technical key adapted from previously published works, and the other a "field key", designed for use with a hand lens or digital camera and which uses characters that are more easily observed. In addition, we've included a short section on collecting, preparing and storing jewel beetles, as well as an illustrated tutorial on how to dissect male genitalia. Fully labelled morphological maps and a glossary of terms that may be found in the primary literature are provided to help non-specialists use both this field guide, and also any other buprestid literature they may need to consult.



Each species in the guide is fully illustrated with high magnification colour photos of the dorsal & ventral habitus, head and male genitalia (plus additional colour morphs or variations where possible), and a review of taxonomic synonyms, ESC & ESA approved common names, and all known larval host plants is provided in addition to thorough morphological diagnoses, characters useful for differentiating similar species, and notes on species abundance, habitat preference and economic importance. On top of all this, we've also included a number of other tools and resources to help with species-level identification in the absence of keys. Take a look at the Emerald Ash Borer page to see what to expect throughout:





## Professional Development Opportunities

**Neotropical Lepidoptera Field Course** August 7 – 16, 2013 “Jenaro Herrera” Research Centre, Loreto, Peru. Application deadline April 1, 2013. For more information see <http://www.cebioperu.org/courses/lepidoptera-2013.php>

**The Ant Course** August 4 – 15, 2013, Manu Biosphere Reserve, Peru. See course website <http://research.calacademy.org/ent/courses/ant>

**The Bee Course** August 25 – September 4, 2013 at the Southwestern Research Station, Portal, Arizona. See course website <http://research.amnh.org/iz/beecourse/>

**Lepidoptera Course** August 8 – 17, 2013 at the Southwestern Research Station, Portal, Arizona. See course website <http://research.amnh.org/swrs/education/lepidoptera-course>

**Weevil Course** offered in August 2014. Check back at <http://research.amnh.org/swrs/weevil-course> for future information.

## Some International Entomological Societies

Royal Entomological Society [www.royensoc.co.uk/](http://www.royensoc.co.uk/)

Entomological Society of Southern Africa [www.entsocsa.co.za/](http://www.entsocsa.co.za/)

Egyptian Entomological Society [www.ees.eg.net/](http://www.ees.eg.net/)

Australian Entomological Society <http://www.austentsoc.org.au/>

Xerces Society for Invertebrate Conservation [www.xerces.org](http://www.xerces.org)

Japan Coleopterists Society <http://www.mus-nh.city.osaka.jp/shiyake/j-coleopt-soc.html>

Chilean Society of Entomology <http://www2.udec.cl/~insectos/>

Butterfly Conservation <http://butterfly-conservation.org/>

Croatian Entomological Society <http://www.agr.unizg.hr/hed/index.htm>

European Association of Coleopterology <http://www.ub.edu/aec/>

Dutch Butterfly Conservation <http://www.vlinderstichting.nl/>



Butterfly Conservation of the Republic of China <http://butterfly.kingnet.com.tw/>

## Entomological Meetings and Conferences

The Entomological Society of America compiles and maintains a list of entomology meetings and references. Below are some of these meetings, a full list is available at <http://www.entsoc.org/Periodicals/News/datebook>. To submit an entomology-related meeting or event for advertisement on the Entomological Society of America webpage visit [http://www.entsoc.org/Pubs/Periodicals/News/submit\\_datebook](http://www.entsoc.org/Pubs/Periodicals/News/submit_datebook) for details.

### 2013

**[Biodiversity and Integrated Pest Management: Working Together for a Sustainable Future](#)** will be held July 4–5, 2013 in Manado, North Sulawesi, Indonesia. Contact: [biodivipm2013@gmail.com](mailto:biodivipm2013@gmail.com).

**[The 11th North American Forensic Entomology Association Annual Meeting](#)** will be held July 14-17, 2013 at the University of Dayton in Dayton, Ohio.

**[The 2013 Insect Hormones \(19th Ecdysone\) International Workshop](#)** will be held July 21-26, 2013 in Minneapolis, Minnesota. Contact Michael B. O'Connor at [moconnor@umn.edu](mailto:moconnor@umn.edu).

**[The 2013 International Workshop on Electrical Penetration Graph](#)** will be held July 21–27, 2013 at California State University, Fresno. Contact Cynthia Trent at [cgeinfo@csufresno.edu](mailto:cgeinfo@csufresno.edu).

**[The 6th International Symposium on the Ecology and Biology of Gallling Arthropods and Associated Endophytes](#)** will be held August 4-8, 2013 in Queensland, Australia. Contact Robin Adair at [robin.adair@australisbiological.com.au](mailto:robin.adair@australisbiological.com.au).

**[The Rocky Mountain Conference of Entomologists](#)** will be held August 4-8, 2013 at Cathedral Ridge in Woodland Park, Colorado. Contact Ken Cradock at [Kenwyn.Cradock@enmu.edu](mailto:Kenwyn.Cradock@enmu.edu).

**[The Second International Conference on Pollinator Biology, Health and Policy](#)** will be held August 14-17, 2013 at the Nittany Lion Inn in State College, Pennsylvania. Contacts: Christina Grozinger ([cmg25@psu.edu](mailto:cmg25@psu.edu)), Chris Mullin ([camullin@psu.edu](mailto:camullin@psu.edu)), and Neal Williams ([nmwilliams@ucdavis.edu](mailto:nmwilliams@ucdavis.edu)).

**[The International Chemical Ecology Conference](#)** will be held August 19-23, 2013 in the Melbourne Convention and Exhibition Centre in Victoria, Australia. This is a joint meeting of the Asia-Pacific Association of Chemical Ecologists (APACE) and the International Society of Chemical Ecology (ISCE).

**[The Ento '13 International Symposium and Annual National Science Meeting](#)** will be held September 4-6, 2013 at the University of St. Andrews in Scotland. Contact Archie K. Murchie at [archie.murchie@afbini.gov.uk](mailto:archie.murchie@afbini.gov.uk).



**The 12th International Symposium “Ecology of Aphidophaga”** will be held September 9-13, 2013 in Belgrade, Serbia. Contact [aphidophaga12@gmail.com](mailto:aphidophaga12@gmail.com).

**IUFRO Conference “Forest Insect Disturbance in a Warming Environment”** will be held September 15-19, 2013 in Banff, Alberta. [IUFROBanff2013@outlook.com](mailto:IUFROBanff2013@outlook.com)

**The Society for Vector Ecology's 6th International Congress** will be held September 22-27, 2013 at the La Quinta Resort and Club in Palm Springs, California.

**The XXXIII International Apimondia Congress** will be held in Kyiv, Ukraine from September 29 till October 4, 2013. Contact: [info@apimondia2013.org.ua](mailto:info@apimondia2013.org.ua).

**A Joint Annual Meeting of the Entomological Society of Ontario and the Entomological Society of Canada** will be held October 20-23, 2013 in Guelph, Ontario. Contact Joel Gibson at [jfgibson@uoguelph.ca](mailto:jfgibson@uoguelph.ca).

**IUFRO Conference “ Alien Invasive Species and International Trade”** will be held October 23 November 1, 2013 in Qingdao, China. [kbritton01@fs.fed.us](mailto:kbritton01@fs.fed.us)

**The 5th Symposium on Date Palm** will be held November 3-5, 2013 at King Faisal University in Saudi Arabia. Contact: [5thpalm@kfu.edu.sa](mailto:5thpalm@kfu.edu.sa).

**The International Butterfly Breeders Association's Conference** will be held November 7-10, 2013 in San Antonio, Texas.

**The Second Global Conference on Entomology** will be held November 8-12, 2013 in Kuching, Sarawak, Malaysia. Contact Dr V. Sivaram at [info@gce2013.com](mailto:info@gce2013.com).

**Entomology 2013, the 61st Annual Meeting of the Entomological Society of America, will be held November 10-13, 2013 in Austin, Texas.**

**The Fourth Biopesticide International Conference (BIOCICON2013)** will be held November 28-30, 2013 in Tamil Nadu, India. Contact [biocicon2013@gmail.com](mailto:biocicon2013@gmail.com).

## 2014

**The International Conference on Biopesticides: Current Status and Future Prospects** will be held April 1-3, 2014 in Alexandria, Egypt. Contact [icb@alexu.edu.eg](mailto:icb@alexu.edu.eg) or [Samir1969us@yahoo.com](mailto:Samir1969us@yahoo.com).

**The XVII Congress for the International Union for the Study of Social Insects** will be held July 13-18, 2014 in Cairns, Australia. Contact [info@iussi2014.com](mailto:info@iussi2014.com).

**The 2014 ESA International Branch Meeting** will be held in conjunction with the 10th European Congress of Entomology (ECE 2014) August 3-8, 2014 in York, UK.



**The 10th European Congress of Entomology (ECE 2014)** will be held August 3-8, 2014 in York, UK. Contact: [ece2014@royensoc.co.uk](mailto:ece2014@royensoc.co.uk).

**The 8th International Congress of Dipterology** will be held August 10-15, 2014 in Potsdam, Germany. Contact Sara Werner at [sara.werner@pcma.de](mailto:sara.werner@pcma.de).

**The 11th Arab Congress of Plant Protection** will be held November 9-13, 2014 in Amman, Jordan. Contact: [acpp@bau.edu.jo](mailto:acpp@bau.edu.jo).

## 2015

**The 8th International Integrated Pest Management Symposium** will be held in Salt Lake City, Utah from March 23-26, 2015 at the Salt Palace Convention Center. Contact Elaine Wolff at 217-333-2880 or [ipmsymposium@ad.uiuc.edu](mailto:ipmsymposium@ad.uiuc.edu).

**The 4th International Forum for Surveillance and Control of Mosquitoes and Mosquito-borne Diseases** will be held May 25-29, 2015 Place in Guangzhou, Guangdong, China. Contact Dr. Rudy Xuev at [xueamcd@gmail.com](mailto:xueamcd@gmail.com) or Dr. Tongyan Zhao at [tongyanzhao@126.com](mailto:tongyanzhao@126.com).

## 2016

### **2016 ESC Annual Meeting and International Congress of Entomology**

ESC is pleased to announce that we will be co-locating our 2016 annual meeting with the **International Congress of Entomology (ICE)** hosted by the Entomological Society of America (ESA) in Orlando, Florida (see <http://ice2016orlando.org/>)! The ESC Governing Board has voted to accept the ESA's invitation to join them and other national entomological societies at the ICE 2016 venue.

ESC is pleased to introduce **Murray Isman** (UBC) as our appointed representative to the ICE Organizing Committee. Murray is already poised to collaborate with the ESA in ensuring a smooth merger of meetings. We have opted for a separate, pre-ICE conduct of our Society's business, and then full access to what will be a diverse and rich ICE scientific program under the theme of *Entomology without Borders*. Mark your calendars for September 23- 30, 2016.



## Photo Contest

The Ninth Annual Photo Contest to select images for the 2014 covers of *The Canadian Entomologist* and the *Bulletin of the Entomological Society of Canada* is underway. The cover images are intended to represent the breadth of entomology covered by the Society's publications. Insects and non-insects in forestry, urban or agriculture; landscapes, field, laboratory or close-ups; or activities associated with physiology, behaviour, taxonomy or IPM are all desirable. A couple of 'Featured Insects' (for the spine and under the title) are also needed. If selected, your photo will grace the cover of both publications for the entire year. In addition, winning photos and a selection of all submitted photos will be shown on the ESC website.

The Photo Contest winners will be announced on the ESC website, and may be announced at the Annual Meeting of the ESC or in the Bulletin. There is no cash award for the winners, but photographers will be acknowledged in each issue the photos are printed. The July 31 deadline for the 9th Annual ESC Photo Contest (<http://esc-sec.ca/photocontest.php>) has been extended to August 15, 2013. Polish up your macro lenses and put on your flash diffusers, or dig through your recent photo files, and make a submission! Submission rules are on the website.

Submissions will be posted to the website, and winning entries will grace the covers of *The Canadian Entomologist* and the ESC Bulletin for all of 2014. Entries should be submitted as an attachment to an email message; the subject line should start with "ESC Photo Contest Submission". Send the email message to: [photocontest@esc-sec.ca](mailto:photocontest@esc-sec.ca).



The Rocky Mountain Wood Tick (*Dermacentor andersoni*). Photo by Dave Holden, Osoyoos, BC



## Supporting Butterfly Conservation through Collaboration: The BC Butterfly Atlas

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The BC Butterfly Atlas is a community-based citizen science project aimed at increasing our knowledge of the status and distribution of butterflies in British Columbia.

### Project Description

Beginning in 2012, the BC Butterfly Atlas will harness the efforts of both professional biologists and citizen naturalists to document the distribution and abundance of butterflies in British Columbia. Gathering butterfly records from across BC will help identify which species are truly rare and which are more common, provide a snapshot of butterfly populations to which past and future surveys can be compared, and inform efforts to conserve butterflies and their habitats. Results will be collated into a single database and be made available on maps on the project website. The project also aims to educate and engage the public about the importance of biodiversity and increase involvement in butterfly conservation in BC.

### Project Objectives

The BC Butterfly Atlas has the following objectives:

- Increase public interest in butterflies and involvement in butterfly watching;
- Share information on the distribution, abundance, and habitat relationships of butterflies in British Columbia;
- Educate British Columbians on the importance of conservation of butterflies and their habitat; and
- Develop resources and partnerships to improve conservation of butterflies and their habitats.

### Background

Mapping biodiversity is a growing stewardship activity around the world, and the information collected is invaluable for the conservation of species and their habitat. Following on the recent success of the BC Breeding Bird Atlas<sup>1</sup> and butterfly atlassing projects in other jurisdictions (e.g., Butterflies of the New Millennium (UK)<sup>2</sup>, Maritimes Butterfly Atlas<sup>3</sup>, and atlases in several US states), we are initiating a citizen-based survey and atlassing program for butterflies in British Columbia. Despite their important ecological role and value as habitat indicators, butterflies in BC lack adequate information on their distribution, abundance, and habitat relationships needed for effective conservation. An atlassing project would seek to fill this information gap while increasing public awareness and support for butterfly conservation.

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<sup>1</sup> <http://www.birdatlas.bc.ca>

<sup>2</sup> <http://www.butterfly-conservation.org>

<sup>3</sup> <http://www.accdc.com/butterflyatlas.html>





## Nomination for Honorary Membership to the ESBC

Rob Cannings was recently nominated for Honorary Membership to the ESBC. His nomination was put forth by Staffan Lindgren, Bernie Roitberg, Richard Ring, Karen Needham, Lee Humble, Steve Perlman, Dezene Huber, Claudia Copley and Robb Bennett.

The nomination has been accepted unanimously by the executive and there will be a vote at the AGM, and if passed by a simple majority of the membership, he's in. Robb Cannings retired in 2013 as Curator of Entomology at the Royal British Columbia Museum (RBCM). He has been a major contributor to both ESBC and entomology in BC for most of his professional life.

## Executive Contact Information

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