

Vol 37 (1) June 2017

Boreus



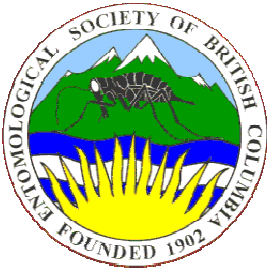
Newsletter of the Entomological Society of British Columbia





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

The Executive

President	Brian Van Hezewijk Canadian Forest Service, Victoria
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Regional Director of National Society	Bill Riel Canadian Forest Service, Victoria
Web Page Editor	Brian Muselle University of British Columbia – Okanagan, Kelowna



Publications of ESBC

Journal of the Entomological Society of British Columbia

Journal of the Entomological Society of British Columbia



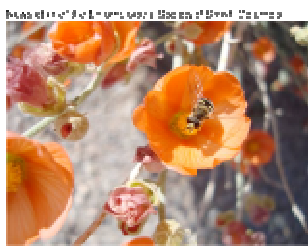
The Journal of the Entomological Society of BC is a peer reviewed, open-access journal. Manuscripts dealing with all facets of the study of arthropods will be considered for publication. Submissions may be from regions beyond British Columbia and the surrounding jurisdictions provided that content is 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. Kathy Bleiker, Editor-in-Chief at journal@entsocbc.ca.

The deadline for submissions to be included in the 2017 issue is 1 September, 2017. Please submit articles at the JESBC website: <http://journal.entsocbc.ca/>.

Boreus

Boreus



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!

Please send correspondence concerning *Boreus* to Dr. Gabriella (Riella) Zilahi-Balogh at boreus@entsocbc.ca.

The deadline for submissions to be included in the June issue is early June and the December issue is early December. If you have something to submit and missed the deadline email me I may be able to accommodate you.



ESBC Website

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

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

Facebook



Find us on
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. 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, Ward Strong, E-mail: 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:

Greater Night-stalking Tiger Beetle (<i>Omus dejeani</i>), taken on Denman Island, B.C. Photograph by Jennifer Heron.	Helliwell Provincial Park, May 2012. Photograph by Jennifer Heron
Photographs taken in the Peace Region, BC. Photographs by Jennifer Heron	



Crab spider. Photo Credits: Ward Strong



ESBC Annual General Meeting and Symposium October 13 and 14, 2017

Annual General Meeting of the Entomological Society of British Columbia will be held on **October 13, 2017** at University of the Fraser Valley. The ESBC Symposium: theme TBD will be held **October 14, 2017** at Kwantlen Polytechnic University. Mark the dates on your calendars. Check the www.esbc.ca website for details.

President's Corner

Submitted by: Brian Van Hezewijk

Hello fellow ESBC members!

After a rather dreary winter with scarcely an insect to be found, and a spring that was weeks behind schedule, it seems that summer has finally arrived in BC, and with it lots of interesting critters to find, observe, and study.

One of my roles as an entomologist with the Canadian Forest Service is to provide estimates of when gypsy moth egg masses will hatch in order to accurately plan eradication programs. We've use a reliable phenology model that incorporates daily winter and spring temperatures as the main inputs. So while some people look for swallows or robins as the harbingers of spring, I use the day when 50% of the gypsy moth eggs have hatched. This year the first day of "Spring" from an entomological point of view was May 18th. I'm sure this doesn't sound bad for most parts of Canada, but to put it in perspective, in 2015 Entomological Spring arrived on April 4th; a full 6 WEEKS EARLIER than this year. Now, before this gets quoted as proof that global warming is a hoax, it seems as though typical El Nino cycles are at work here. But what intrigues me is how insect populations respond to such dramatic year-to-year variations in the seasonal weather. For example, the Garry oaks here in Victoria, with their late-flushing strategy, have managed to escape most of the depredations of their perennial pest the winter moth. The early-flushing apple trees, on the other hand, have been absolutely devastated. These days I am particularly interested in the effect that generalist predators like yellow jackets have on caterpillar populations. It still might be a little too early to tell, but it looks as if our cold wet spring may have dramatically reduced the populations of species like the western yellow jacket, *Vespula pensylvanicus*, ending a series of years with very high densities. How will this affect populations of their prey? We'll have to keep watching and keep collecting data. What this has taught me though, is that insects, which are so intimately affected by weather, are a great tool for measuring how our climate is changing. With more than 100 years of observations made by members of the ESBC, a huge store of data has been collected that bears directly on the very important questions around our changing climate. This information will only increase in value as we are forced to tackle increasingly global problems, so keep up the good work, and keep sending your work to our society's journal.



In Society news, it has been an eventful six months since I took over from Bob Lalonde as president of the ESBC. Following our AGM in October last year there have been some changes among our executive and directors. Dr. Lisa Poirier of UNBC in Prince George agreed to stand for the position of 2nd vice president and was installed by acclamation in February; thank you Lisa for joining the executive. Other changes include Rylee Isitt stepping down as Web Editor to be replaced by Brian Muselle. Brian has been very busy learning the ins-and-outs of our web site and now seems to be handling this important position quite nicely. Last among the changes to the society is the departure of Dezene Huber as Editor of the JESBC. Dezene has been asked to be the Editor of the Canadian Entomologist and we wish him well as he takes over that position in the coming months. Dr. Kathy Bleiker has agreed to become the new editor of the JESBC and is currently learning how to manage the electronic submission system under Dezene's expert tutelage. This coming October there will be more positions that need to be filled. I urge you to consider taking an active role in the society and consider joining as an executive member or a director.

For the second year in a row The Society helped with the delivery of the Pollinator Symposium in Kelowna organized by Jennifer Heron and Cara Dawson. Ward Strong and Brian Muselle handled the online registration for this event on March 20th and Ward reported that the event was "very successful, with 45 registered participants, a bunch of excellent talks, great discussion, thought-provoking posters, and excellent food!" Thanks to Ward and Brian for their good work on that front.

As many of you may already know, in 2018 our society will be host a Joint Meeting of the ESBC/ESC/ESA in Vancouver. Planning for this large meeting is well under way and Jenny Cory, the incoming president in 2018, along with Ward Strong, and Bill Riel have been working hard on developing a program that I'm sure will prove to be very interesting. Both of these larger societies have been very supportive in tailoring the meeting to be inclusive of our local society and I am looking forward to seeing the results of all this hard work.

In closing I'd like to thank you all for your participation in the Entomological Society of British Columbia. Whether your contribution is large or small, we all benefit as the Society continues to add to our knowledge of those little animals that run our world.

Sincerely,

Brian Van Hezewijk, President



Lara van Akker (left), Brian Van Hezewijk, and Audrey McPherson, adding rusty tussock moth larvae (*Orgyia antiqua*) to a Douglas-fir branch to study the impacts of generalist predators on caterpillar populations (photo credit: Greg Howard).

Graduate Student Representative Report

Prepared by: Joyce Leung

Butterflies a flutterin', bees a buzzin'; summer has truly arrived!

Be sure to take a moment out of your busy summer schedule to submit an abstract to present your work at the Annual General Meeting of the ESBC which will be held this October in the Fraser Valley (details to come, visit entsocbc.ca/meetings for more details).

Changes to the Graduate Student Scholarship Competition

Since 1998, ESBC has offered annually up to two \$400 graduate student scholarship to offset costs associated with attending conferences. In recognition of student contributions to entomology, we are pleased to announce that the award will no longer



be restricted for travel use. With that comes a few changes to the scholarship application process, so be sure to check out entsocbc.ca/awards to familiarize yourself with the changes. Applications are to be submitted to the society secretary at secretary@entsocbc.ca by **September 1st**.

2017 ESC-ESM Joint Annual Meeting

This year's ESC JAM, which is being held 22-25 October in Winnipeg, Manitoba is sure to be a blast! Don't forget to sign up to present your work by **July 31st**. (See www.esc-sec.ca for more details)

Defended or planning to defend? Why not present your work at the Graduate Student Showcase? This is an excellent opportunity for graduate students to share the final synthesis of their work in a high profile setting. Submissions are due **July 31st**.

Have a great summer everyone and I look forward to catching up with everyone in the fall!

Joyce
Email: jpl15@sfu.ca



Choristoneura occidentalis, (Lepidoptera: Tortricidae) western spruce budworm, ovipositing. Photo credit: Ward Strong



Malaise trap. Photo Credit: Lars Crabo (submitted by Dave Holden)



Graduate Student Scholarship Competition

Award information:

The Entomological Society of British Columbia awards annually a scholarship of \$400 to up to two postgraduate students to encourage students engaged in entomological research in BC. Funds are to be used at the student's discretion.

Eligibility

- Applicant must be a full-time postgraduate student at a registered institution in British Columbia at the time of application.
- Applicant must be partaking in entomological research as part of their degree program.

How to apply:

For consideration, applicants must submit a single PDF file containing:

- An outline of current research (no more than 300 words). Applicants may also choose to include other contributions to the field of entomology outside of their research.
- A curriculum vitae
- A post-secondary transcript

In addition, applicant must arrange for **two letters of reference** to be submitted on behalf of the applicant.

Deadline:

Applications and letters of reference should be submitted to the ESBC Secretary at secretary@entsocbc.ca by **September 1st** of each year. Competition results will be announced at the annual general meeting which is typically held in October each year.

Judging Criteria:

Applications will be judged on the basis of contributions to the field of entomology, scientific importance of their research and the qualifications of the applicant.

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/direntomology.php>



Phidippus johnsoni (Red-backed jumping spider) female feeding on a *Halyomorpha halys* (Brown marmorated stink bug) Fraser Valley, B.C., August 2016. This spectacle was witnessed under a soup can, which was resting on the top of a pole, in a backyard garden. Photo credit: Tracy Hueppelsheuser

Grad Student, Post Doc and Employment Opportunities – Entomological Society of Canada

<https://www.esc-sec.ca/jobs.php>

Employment Opportunities

Collections Management Advisor (Natural Sciences)

University of Alberta Museums, University of Alberta

Application Deadline: 14 July 2017. For further information and to apply, please go to:

<http://www.careers.ualberta.ca/Competition/S106632956/>

Laboratory Technician - Research and Development

BioForest (Sault Ste. Marie, ON)

Application Deadline: 14 July 2017

Entomologist

Great Lakes Greenhouses - Leamington, Ontario

Application Deadline: Until suitable application found

If interested in this role please call 519-326-7589 ask for James or email resume to

james@greatlakesg.com

Entomologist I - III (Insectarium) (Full-time)

Audubon Nature Institute



Application deadline: None listed (Posted March 1 2017)

Grad Student and Post Doc Opportunities

MSc Student - Efficacy of controlled release fumigants in active food packaging to control insect pests

School of Environmental Science, University of Guelph

Application deadline: Until suitable applicant found; Start Date: September 2017 preferred. **Dr. Cynthia Scott-Dupree; cscottdu@uoguelph.ca**

MSc Student - Host-parasites Interactions: Identification and abundance of *Cuterebra* fly parasites found on Eastern chipmunks in Southern Quebec. Biology Department, Bishop University. Application deadline: Until suitable applicant found; Start Date: Fall 2017 preferred. Jade Savage (jade.savage@ubishops.ca). The call for applications will be open until the position has been filled.

PhD Student - Predicting the development and spread of emerald ash borer in Britain and western Canada

Faculty of Forestry, University of Toronto; Canadian Forest Service, Natural Resource Canada; Forest Research UK

Application deadline: December 2017; Start Date: 2018

Applications will be accepted up until December 2017, but interested students are strongly encouraged to contact project leaders as soon as possible to discuss an earlier start date. Contacts include: Prof. Sandy M Smith, Faculty of Forestry, University of Toronto (s.smith.a@utoronto.ca), Dr. Chris MacQuarrie, Canadian Forest Service, Sault Ste Marie (christian.macquarrie@canada.ca) or Dr. Daegan Inward, UK Forest Commission (Daegan.Inward@forestry.gsi.gov.uk).

PhD Student - Host-parasite interactions

Department of Biological Sciences, University of Cincinnati

Application deadline: 30 July 2017; Start Date: September 2017

This position will be available September 1, 2017, and will remain open until filled.

Students interested should send a one-page cover letter, CV, unofficial academic transcripts, and the contact information of 2 to 4 references to Dr. Benoit (joshua.benoit@uc.edu) and Dr. Polak (michal.polak@uc.edu).

For more information regarding the position, contact either Dr. Benoit (joshua.benoit@uc.edu) or Dr. Polak (michal.polak@uc.edu).

Once a candidate is selected, she/he will submit a formal graduate application to the University of Cincinnati.

Post-Doctoral Associate

Department of Biological Sciences, University of Cincinnati

Application deadline: 30 May 2017; Start Date: December 2017

Interested individuals should send, as a single PDF document, a cover letter, CV, a short statement of research interests, unofficial academic transcripts, and the contact



information of 3 to 4 references to Dr. Benoit (joshua.benoit@uc.edu) and Dr. Polak (michal.polak@uc.edu).

MSc Student - Animal and microbial system biology

Brandon University

Application deadline: Until suitable applicant found; Start Date: Summer 2017 preferred. Interested students should get acquainted with the respective research programs of Dr. Cassone and Dr. LeMoine, and are encouraged to contact Dr. Cassone directly for further information (cassoneb@brandonu.ca). Please include a brief description of your interest and a CV in your email. Funding options are available for both Canadian and international students.

PhD Student - Up-cycling potential of organic residual matter by the mass production of black soldier fly larvae

Department of Animal Sciences, Université Laval

Application deadline: Until suitable applicant found; Start Date: Summer 2017

Supervision:

- Grant W. Vandenberg et Marie-Hélène Deschamps, Dép. Sc. animales, U. Laval
- Charles Lavigne, Centre de développement bioalimentaire du Québec
- Cristina Ratti, Dép. sols et génie agroalimentaire, U. Laval
- Linda Saucier, Dép. Sc. animales, U. Laval
- Alain Doyen & Lucie Beaulieu, , Dép. sc. des aliments, U. Laval
- Marie-Pierre Létourneau-Montminy, Dép. Sc. animales, U. Laval

PhD Student - Insect mass-rearing, nutrition, bioconversion and food safety

Department of Animal Sciences, Université Laval

Application deadline: Until suitable applicant found; Start Sate: Summer 2017

Supervision :

- Grant W. Vandenberg et Marie-Hélène Deschamps, Dép. Sc. animales, U. Laval
- Charles Lavigne, Centre de développement bioalimentaire du Québec
- Cristina Ratti, Dép. sols et génie agroalimentaire, U. Laval
- Linda Saucier, Dép. Sc. animales, U. Laval
- Alain Doyen & Lucie Beaulieu, , Dép. sc. des aliments, U. Laval
- Marie-Pierre Létourneau-Montminy, Dép. Sc. animales, U. Laval

Graduate Student Positions - Geographical Physiological Ecology of Insects

Department of Biology, University of Oklahoma

Application deadline: Until suitable applicant found; Start Date: Fall, 2017

Funding for graduate students is currently available in the form of 10-month teaching assistantships with stipends, full tuition waivers and excellent health care coverage, and numerous scholarships are available to support graduate student research during the summer. Interested students should get in touch (kemmarshall@ou.edu) with a brief summary of your research interests and relevant experiences and attach a resume/CV.



I will also be at SICB and would love to chat (please email first). Candidates from groups underrepresented in STEM are encouraged to apply.
Find out more here: <http://www.ou.edu/content/cas/biology/graduate-studies.html>

Grad Student and Post Doc opportunities - Entomological Society of America
<http://www.entsoc.org/listjobs>

Postdoctoral Research Associate - Ecology and Management of Spotted Wing Drosophila. Contact: **Dr. Ashfaq Sial, Assistant Professor, Department of Entomology, University of Georgia, Athens, GA 30602.** E-mail: ashsial@uga.edu

Postdoctoral Fellow. Department of Entomology, Kansas State University, Manhattan, KS. Contact: Kun Yan Zhu. Email: kzhu@ksu.edu

Ph.D. - Graduate Research Assistantship - Contact: Henry Fadamiro. Email: fadamhy@auburn.edu. Phone: 334-844-8727. Department of Entomology & Plant Pathology Auburn University, Alabama

Check out Entomological Society of America <http://www.entsoc.org/listjobs> website and Entomological Society of Canada website <http://www.esc-sec.ca/jobs.php> for other positions and details of the positions listed above.

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 and blog website <http://dna-barcoding.blogspot.ca/>

Entomological Society of Canada

Blog Available at <http://escsecblog.com/>

March 2017 Bulletin Vol 49 (2) (current issue) available online at <https://www.esc-sec.ca/bulletin.php>



Book announcement by the Biological Survey of Canada

A new book has been published by the Biological Survey of Canada (BSC) namely, "A Handbook to the Ticks of Canada" by Lindquist et al.

Ticks are an important part of Canadian biodiversity and are also of significant concern to the community, because they are vectors of many diseases that affect humans, livestock, and wildlife. This work not only provides information to identify ticks in Canada, but also contains a wealth of biological information, and a comprehensive overview of ticks as vectors of diseases.

The Biological Survey of Canada (www.biologicalsurvey.ca) is a network of science professionals interested in all aspects of biodiversity. Part of our mandate is to publish works that aid in the understanding of biological diversity in Canada.

<http://www.biologicalsurvey.ca/monographs/read/18>

Some International Entomological Societies

Royal Entomological Society www.royensoc.co.uk/

Entomological Society of Southern Africa www.entsocsa.co.za/

Egyptian Entomological Society www.ees.eg.net/

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

Xerces Society for Invertebrate Conservation 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/>



The 2015 version of the Checklist of Lepidoptera of British Columbia is now available. The list is published by the BC Entomological Society.
<http://bcleps.weebly.com/bc-checklist.html>

The British Columbia Lepidopterists' Guild website <http://bcleps.weebly.com/>
Anybody wishing to join or get involved please contact: Dave Holden BCLEps@shaw.ca

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>

2017

The Livestock Insect Workers Conference

The Livestock Insect Workers Conference will be held June 25-28, 2017 in Savannah, GA. Contact Nancy Hinkle at NHinkle@uga.edu.
<http://caes2.caes.uga.edu/events/2017LIWC/>

NJ School of Conservation Forensic Entomology Workshop

August 14-25, 2017. Branchville, New Jersey, USA
Contact: Denise Gemmellaro denisucciola@yahoo.com or Lauren Weidner laurenmweidner@gmail.com

2nd Biennial Meeting of the Pan-American Society for Evolutionary Developmental Biology. August 19-23, 2017. University of Calgary, Alberta, Canada

<http://www.evodevopanam.org/2nd-biennial-meeting.html>

26th International Conference of the World Association for the Advancement of Veterinary Parasitology, WAAVP. September 4-8, 2017 at the Kuala Lumpur Convention Centre, Malaysia. Contact: secretariat@waavp2017kl.org

Protecting Pollinators in Urban Landscapes Conference. October 9-11, 2017. Park Place Hotel, Traverse City, Michigan <http://ecoipm.org/protecting-pollinators-conference/>



The 12th Arab Congress of Plant Protection (ACPP 2017). November 5–9, 2017. Cairo, Egypt. For more information, please contact acpp2017@arc.sci.eg.

Entomology Society of America meeting (ESA 2017). November 5-8, 2017. Denver, Colorado. <http://www.entsoc.org/events/annual-meeting>.

2018

ESA Southeastern Branch 2018 Meeting

March 4-7, 2018. Annual Meeting of the ESA Southeastern Branch, taking place at the DoubleTree at SeaWorld in Orlando, Florida.

ESA Eastern Branch 2018 Meeting

March 17-20, 2018. Annual Meeting of the ESA Eastern Branch, taking place at the Westin Hotel in Annapolis, Maryland.

ESA North Central Branch 2018 Meeting

March 18-21, 2018. Madison, WI.

9th International IPM Symposium

March 19-22, 2018. Renaissance Baltimore Harborplace Hotel, Baltimore, Maryland, USA.

ESA Southwestern Branch 2018 Meeting

March 25-29, 2018. Annual Meeting of the ESA Southwestern Branch, taking place at the Hotel Albuquerque in Old Town, Albuquerque, New Mexico.

2nd International "Insects to Feed the World" Conference

May 15-20, 2018. Wuhan, China

For more info, contact:

- Dr. Longyu Zheng (Huazhong Agricultural University, China): ly.zheng@mail.hzau.edu.cn
- Dr. Arnold van Huis (Wageningen University, The Netherlands): arnold.vanhuis@wur.nl
- Dr. Jeffery K. Tomberlin (Texas A&M University, USA): jktomberlin@tamu.edu

ESA Pacific Branch 2018 Meeting

June 10-13, 2018. Annual Meeting of the ESA Pacific Branch, taking place at the Atlantis Casino Resort Spa in Reno, Nevada.

XV International Congress of Acarology

September 2-8, 2018. WOW Topkapı Palace Hotel, Antalya, Turkey



ESA/ESC/ESBC Joint 2018 Meeting

November 11-14, 2018. Annual Meeting, Vancouver, BC, Canada

Executive Contact Information

<i>President</i>	Brian Van Hezewijk president@entsocbc.ca
<i>Secretary</i>	Tracy Hueppelsheuser secretary@entsocbc.ca
<i>Treasurer and Memberships</i>	Ward Strong treasurer@entsocbc.ca
<i>Editor, Journal of the Entomological Society of BC</i>	Kathy Bleiker journal@entsocbc.ca
<i>Boreus Newsletter Editor</i>	Gabriella Zilahi-Balogh boreus@entsocbc.ca
<i>Web Page Editor</i>	Brian Muselle webmaster@entsocbc.ca



Horse fly head. Photo Credits: Ward Strong