Volume 28 | Issue 2 | Dec 1, 2023

ENTOMOLOGICAL SOCIETY OF ONTARIO

FALL NEWSLETTER

Photo: Cathie Wright
(BugEye 2023)

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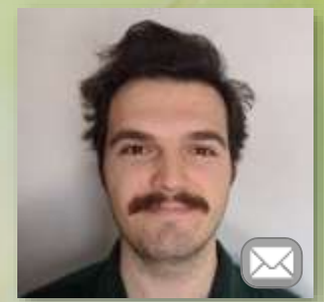

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OFFICERS OF THE ESO

Justin Renkema
ESO President

First, I would like to thank everyone who attended, participated in and organized the 2023 AGM in Guelph. The meeting was a fantastic success, and it was great to meet first-time attendees, as well as connect with those who have been long-time members of the ESO. It was inspiring to hear about the breadth and diversity of entomological research and outreach that people across the province are participating in. All of the student oral and poster presentations were impressive, and I would like to particularly acknowledge the winners of the President's Prize competition. I look forward to seeing you again in 2024 at a location TBD.

I would like to thank outgoing Board members Andrew Young and Christi Jaeger and past-president Alex Smith for their work and dedication to the ESO. I am pleased to welcome new Board members Scott MacIvor and Kruti Shukla and president-elect Angela Gradish.

I am happy to report that we have a few volunteers to serve on the Equity, Diversity and Inclusion Committee, an initiative that began a couple of years ago. If you are interested in this or any of the ESO committees, please be in touch. We always welcome more volunteers!

The ESO executive committee will be busy this year with ongoing projects, such as finalizing and making a few new additions to our bylaws: a code of conduct and requirements for auditors. We are also planning to improve the registration process, hopefully replacing spreadsheet-based record-keeping with software specific for tracking membership and meeting registrations.

It's an honour to serve the ESO in the capacity of President and help continue the 160 year history of bringing together entomologists. If you have thoughts about how the Society can adapt and better serve its members in the future, I am more than happy to hear and discuss your ideas. Or if you would simply like to become more involved, consider writing an article for the newsletter, helping to organize next year's meeting, or submitting a manuscript to JESO. Let's continue to make the ESO a vibrant, inclusive and active home for entomologists in the province.

PRESIDENT'S ADDRESS

Angela Gradish

President-elect

I grew up in Tillsonburg, Ontario, where I spent many hours outside exploring in the forests along the Big Otter Creek and on my family's farm. Although I've always loved nature and animals, my fascination with insects didn't start until I took an insect physiology class in my last semester of my BSc in Zoology at Western University. After my undergrad, I did my MSc at the University of Guelph with Dr. Cynthia Scott-Dupree on the non-target effects of pesticides on beneficial arthropods used in greenhouse vegetable production. For my PhD, I moved to the lab next door to work with Dr. Gard Otis on the population genetics and conservation of Arctic butterflies (Oeneis spp.). I then went back to Cynthia's lab for a post doc on pesticide risk assessment methods for non-Apis bees. Finally, I moved next door again (to the left this time) for my current position as a research associate in Dr. Rebecca Hallett's lab, where I'm working on projects related to integrated pest management. So far in my career I've worked with 22 species of insects and mites (but who's counting?).

The first conference I ever attended was the 2006 ESO AGM in Guelph, and I've been an active member of the ESO ever since. I've served as newsletter editor (2010–2013) and on various awards and outreach committees, and I helped to organize the 2013 ESC/ESO JAM and 2017 ESO AGM. Through these positions and by attending the AGMs, I have learned how valuable the ESO is for staying informed of the latest insect research and connecting with other entomologists. I have met many wonderful insect enthusiasts and developed relationships that have been instrumental to my professional and personal development. I will be honored and proud to serve as President, and I will work diligently to promote the ESO and entomology in Ontario, and ensure members benefit from the society as much as I have!

Kruti Shukla

Director

My foray into the entomological world came at the University of Guelph during my undergraduate thesis and continued into my Master's. Much of my insect exposure has been from an agricultural perspective. During my undergrad, I worked on two major projects. First, with Drs. Johnathan Newman and Geraldine Ryan, I studied how bird-cherry-oat aphid populations responded to elevated CO_2 and N fertilization in fungal-infected agricultural grasses. Second, with Dr. Rebecca Hallett, I tested different staining methods to detect larval parasitic wasps in soybean aphids. For my Master's, I continued to work on fungal-infected grasses but shifted my focus to how these grasses may affect the biodiversity of insect and plant communities. Through this MSc, I had the opportunity to learn insect identification from entomologists in the Marshall lab (University of Guelph) and grew to appreciate how incredibly diverse insects/arthropod communities are. I have met the most amazing people that I am happy to call colleagues and friends to this day.

Currently, I'm working as a post-doctoral fellow (as an Ecologist) on a Mitacs-funded project at Toronto Metropolitan University. Although my research has shifted away from insects, I continue to dabble in the arthropod world. I've been part of the Entomological Society of Ontario since 2015 as a co-editor for the newsletter and recently joined the ESO outreach committee (since 2020). I play an active lab-teaching role as part of the zoology courses offered at Toronto Metropolitan University and am always interested in incorporating an insect-related aspect into any project!

Scott MacIvor

Director

I am an ecologist, melittologist, and assistant professor in the Department of Biological Sciences at the University of Toronto Scarborough. I completed my undergraduate degree at the University of Guelph, my Masters at Saint Mary's University in Halifax, and my PhD at York University in Toronto. Prior to joining UTSC, I taught in the Daniels Faculty of Architecture, Landscape, and Design at UofT, and at Toronto Metropolitan University.

I have presented my research worldwide and published over 60 scientific articles and book chapters on topics including urban ecology, green infrastructure, and biodiversity conservation. Most notably, my work has led to the understanding of how green roofs and other constructed green infrastructure support urban wildlife (and especially bees!), stormwater management, temperature cooling, and food security. I was awarded the 2022 Sustainability Science Award from the Ecological Society of America, the largest professional organization of ecologists in the US and one of the largest ecological societies in the world.

At UTSC, I lead the Biodiversity of Urban Green Spaces (or 'BUGS') lab where the aim is to balance trade-offs and find synergies in urban planning that supports people and nature. This has led to leadership and collaborations at national and international levels to characterize urban biodiversity, promote its conservation, and integrate its ecosystem services contributions into green infrastructure. Locally in Toronto, I work with city planners, policymakers, community members and other stakeholders to promote and celebrate urban biodiversity to connect people to nature.

Janean Sharkey (she/hers)

Student representative

Hello ESO! I am a PhD student in the Department of Physical and Environmental Sciences at the University of Toronto Scarborough, where I'm co-supervised by Drs. Scott MacIvor and Marc Cadotte in their urban ecology labs. My graduate research focuses on the biodiversity, conservation, and ecology of wild bees in Canada. I'm interested in how pressures from urbanization and habitat management impact wild bee communities, especially in rare habitats. I recently completed a MSc in Environmental Science (2022) at the University of Guelph with Dr. Nigel Raine where I studied bee communities in restored and managed tallgrass prairie and oak savanna in southern Ontario. During this time, I documented several new bee species records for Canada including a range expansion and first Canadian genus record of the specialist Hibiscus Bee, (*Ptilothrix bombiformis*). I also have a BSc in Biology, with an emphasis in Conservation Biology (2006) from Trent University, where I took my first entomology course and made my first insect collection! In between my BSc and MSc, I worked primarily in BC as an environmental consultant on a broad range of projects involving biodiversity monitoring, including terrestrial arthropods, as well as habitat restoration and measuring change in disturbed habitats.

I am a member of the Toronto Entomologist's Association, Entomological Society of Ontario, and the Entomological Society of Canada and have been a member of one of these societies and/or the Entomological Society of BC for 10 years. I feel strongly about mentoring junior researchers and participating in science communication, outreach and education events. I'm excited about this opportunity to serve on the board of ESO as a student representative, both to learn more about how societies function and to support entomology students and their research in Ontario.

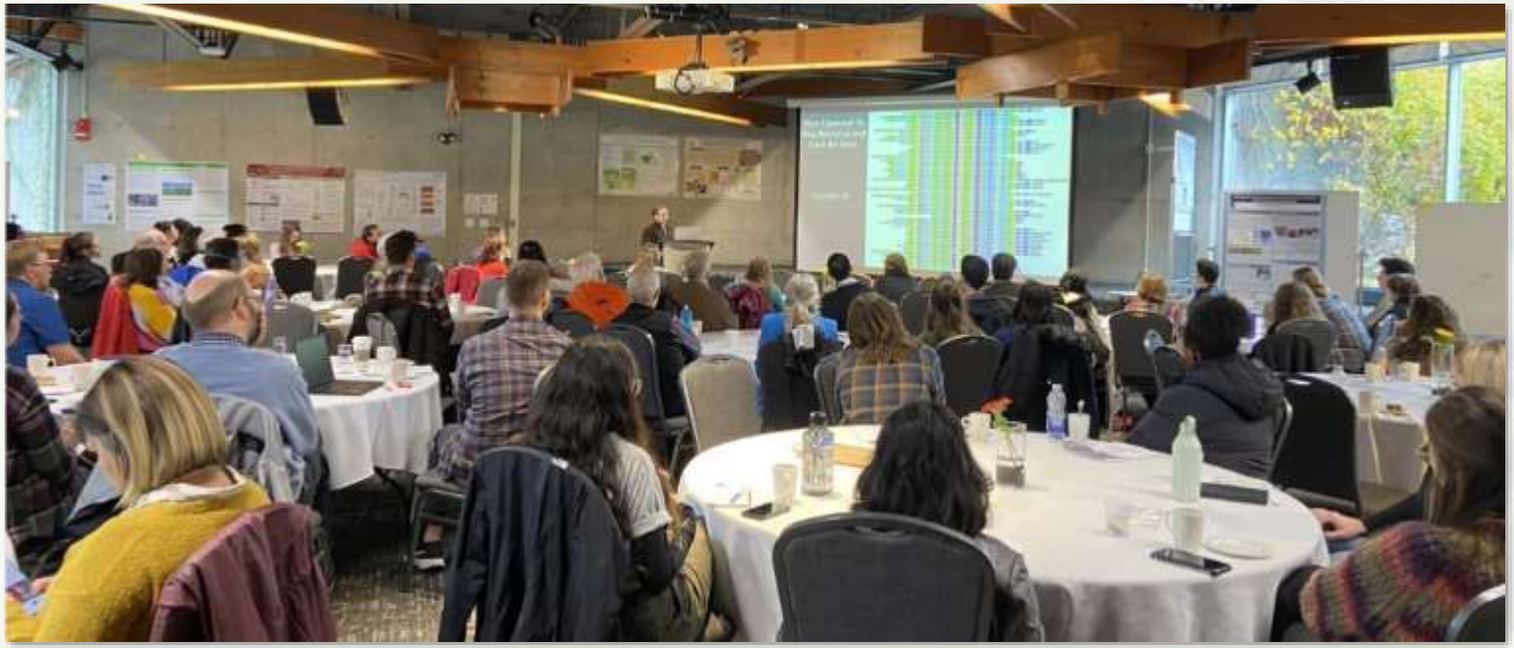
Cynthia Scott-Dupree

ESO FELLOW

Cynthia has recently retired after serving as a faculty member at the University of Guelph for over 37 years. She was the first woman hired on as faculty in the Environmental Biology Department at the University of Guelph in 1986. She paved the way for future generations of women faculty and students. Over her career, Cynthia's research has spanned apiculture, pollinator health, toxicology, and integrated pest management generating over 100 publications. Her research has had a very applied and academic nature, she often brings tangible solutions to growers and other stakeholders. You don't have to look hard to find vegetable or floriculture growers using knowledge generated by Cynthia's lab in their pest management programs. She has continued to push ideas into action, with novel research into sterile insect technique and RNAi (RNA interference) as sustainable management options. Cynthia's contribution to entomology extends beyond just the research that has come out of her lab. In 2022, she was awarded the G.P. McRostie Faculty Award by the Ontario Agricultural College for her dedication to mentoring. Over her career, Cynthia has supervised more than 60 graduate students, many of whom have gone on to provide significant advancements to entomology through government, academia, and industry positions. Cynthia has always encouraged her students to engage in knowledge mobilization, supporting students with opportunities to present at conferences, and to write both scientific and popular press articles. She is an outstanding researcher, mentor and entomologist and is highly deserving of the honour of being a Fellow to the Entomological Society of Ontario.

The 2023 Entomological Society of Ontario Annual General Meeting was a great success! Over 115 people registered to attend in person at the Arboretum at Guelph, thanks to many generous sponsors.

Conference participants presented great talks and posters, and our plenary speaker, Dr. Thomas Hossie, inspired us all to engage more with our communities to get them excited about insects. We also saw an exclusive presentation from the team at Bugdex all about their interactive insect identification app, which will be coming soon.



2023 ESO AGM RECAP

The conference kicked off with a great mixer at the University of Guelph Grad Lounge, complete with food, drink, some excellent Halloween costumes, and Entomology Trivia run by Matt Muzzatti.

2023 ESO AGM RECAP

Travel awards
Matt Muzzatti
Nicole Regimbal
Pedro Conceicao
Cassandra Stabile

Poster awards
1st – Romy Chu
2nd – Carly Demers
3rd – Mika da Silva

Honourable mentions
Dominik Jaworski
Pedro Conceicao

Talk awards
1st – Nicole Regimbal
2nd – Silas Peters
3rd – Matt Muzzatti






2023 ESO AGM AWARD WINNERS

The AGM Local Organizing Committee was chaired by Samm Reynolds and Angela Gradish. Volunteer team: Andrew Frewin, Graham Ansell, Jason Lemay, Emily Forrester, Chloe El Hani, Justin Renkema, Kaitlyn Fleming, Marlee Lyle, Lauren Des Marteaux, Matt Muzzati, Nigel Raine. Photos by Antonia Guidotti, Samm, and Lauren. Thanks to all for making this meeting a success!

We also extend a big thank you also for the generous support of our ten meeting sponsors, who help to make such meetings possible.

DOUBLE GOLD:	**Cynthia Scott-Dupree, Plant Products, University of Guelph Graduate Students' Association**
GOLD:	**Gowan, Bayer, University of Guelph Ontario Agricultural College**
SILVER:	**Syngenta, Corteva, University of Guelph School of Environmental Sciences**
BRONZE:	**Crop Defenders**

Details about the **2024 ESO AGM** will be posted in the next newsletter, so stay tuned!

Congrats to the new ESO Fellow, Cynthia Scott-Dupree

Empowering Communities for Bumble Bee Conservation:

A Recap of the 2023 Community Science Program at Claremont Nature Centre

Each year, Wildlife Preservation Canada (WPC) hosts and assists with multiple Bumble Bee Community Science Programs throughout Canada. These programs allow community volunteers to learn the ins and outs of bumble bee surveying and identification so that they can conduct their own surveys to contribute valuable ecological data to bumble bee conservation! One of these Community Science Programs is run by Claremont Nature Centre which is owned and managed by the Toronto and Region Conservation Authority (TRCA). In 2023, WPC assisted in hosting a workshop to kick off their Bumble Bee Community Science Program for the year. The success of this workshop could not have been possible without the outreach funding support offered by the Entomology Society of Ontario. With this funding we were able to hold a full day event to train all the volunteers interested in being a part of this awesome opportunity to survey bumble bees throughout the summer!

The workshop was held on July 15th at Claremont Nature Centre in Goodwood, ON. We kicked the day off with a presentation to get all the volunteers up to speed on bumble bee biology, the program protocols, and bumble bee identification. The volunteers learned the differences between bees, wasps, and flies and some general background on bumble bees. One fact that volunteers don't always realize is that there are actually around 46 bumble bee species in Canada! It is also important to highlight that bumble bees are seeing global declines, therefore making the data collected from these Community Science Programs all the more important. After learning more about bumble bee biology we then move into general tips for identification and a guide on how to tell queens, workers, and male bumble bees apart. This section of the presentation is always the most anticipated and creates the greatest excitement as volunteers get to learn the many different species that can be seen right here in Ontario.

For the volunteers to feel confident when going out for their own surveys, we make sure to go over every detail of the program protocols as well. Volunteers are provided with equipment when they arrive for their surveys and are given a chance to survey for bumble bees using an insect net. Once they catch their bees, they are then instructed to take photos of all the individuals to be uploaded to Bumblebeewatch.org, where experts such as the staff at WPC will identify each observation. Bumble Bee Watch is an integral part of these programs as it allows volunteers to not only have their bee identifications confirmed by experts, but it also allows the data to be shared across the platform with many scientists and landowners in North America. Bumble Bee Watch helps conservation in many ways including using it to assess species status, monitoring species' ranges, and supporting policy discussions.

In the afternoon, after the presentation, we held a 'bee walk' where volunteers were given equipment and finally able to practice their surveying skills. They are taught different ways to catch the bees in their nets, how to vial the bees, and finally how to take photos that will allow accurate identification of the bees once it is uploaded to Bumble Bee Watch. This includes getting many angles of the bee so experts can see all the colouration and features such as the side, back and face of the bee. Unfortunately, the weather on the day of this workshop was overcast and rainy, however we were still able to catch multiple bumble bees and make the most of the day. A memorable observation was a yellow bumble bee (*Bombus fervidus*) queen which is known to be a rare species and had all the volunteers excited to practice their new identification knowledge!

Overall, these Community Science Programs are invaluable to research and conservation programs. Since bumble bees are relatively easy to identify through photos, it makes it more accessible for volunteers to be involved. Researchers are of course limited by time, availability, and funding therefore, volunteers can increase search effort and provide site species data in areas like the Claremont Nature Centre. These programs also offer an opportunity for engagement and connection to others in the community that have similar interests.

Claremont Nature Centre is a great place to host this program due to its diverse ecosystems such as meadows and woodland, which are both valuable habitat for bumble bees. Because of the training at this workshop, volunteers were able to submit 102 observations to Bumble Bee Watch which included 9 different species. They also found two different species at risk, including one sighting of the American bumble bee (*Bombus pensylvanicus*) and three sightings of the yellow-banded bumble bee (*Bombus terricola*). These are amazing findings and are a testament to not only the great habitat at Claremont Nature Centre but also the success that these programs can have. Although the 2023 Community Science Programs have wrapped up for the year, there are many opportunities to join these programs in 2024!

If you are interested in participating in the Claremont program or any of our other community science programs in 2024, please reach out to pollinators@wildlifepreservation.ca.

By Taylor Kerekes
Lead Biologist – Native Pollinator Initiative, Wildlife Preservation Canada

Instagram:
wildlife_preservation_canada

Guelph Bug Day was held on August 13, 2023 at the University of Guelph Arboretum. On behalf of all the organizers, thank you to everyone who came to celebrate the fascinating world of bugs with us – we had a record number of participants this year at an estimated 2000!! We had great weather, great fun, and, most importantly, great company!

We ran an iNaturalist Guelph Bug Day Bonanza – and user ‘fisher-king’ topped the charts with 117 observations! We also ran a photo contest of Guelph insects and had nearly 50 submissions! With so many talented photographers it was hard to choose but we narrowed it to the four winners: Maxine, Julie Lewis, Evan Van Zeumeren, and Emma Bennett! Check out our Instagram and X to see all the winning submissions!

We had 101 participants on our kids bug hike, while Paul Kelly and the University of Guelph Honey Bee Research Centre led an amazing tour!

Thanks to all who helped bring this day to life, including <70 amazing volunteers, our numerous vendors, and the University of Guelph Arboretum for hosting our event. Finally, we'd like to express our gratitude to our sponsors: U of G Integrative Biology Department, ESO, and the Student Life Enhancement Fund – this day wouldn't have been possible without your financial support! We had a great time, and we look forward to seeing you next year!

On behalf of the **8th London Bug Day** committee, I would like to extend our heartfelt gratitude for ESO's generous sponsorship. Your support was pivotal in making London Bug Day a resounding success, and we are truly appreciative of your commitment to keeping this day of joy that has become a tradition.

We are thrilled that the 8th London Bug Day exceeded our expectations, attracting over 500 visitors, including children and their parents. The event's success enabled us to provide a memorable experience for all attendees, besides meals to over 32 volunteers. The joy and enthusiasm exhibited by the participants were palpable throughout the day, and it was heartwarming to witness families come together and create lasting memories.

Furthermore, we are excited to report that the overwhelmingly positive feedback from attendees has left us eager to plan next year's event. Many participants have already expressed their anticipation for what promises to be an even more remarkable occasion in the future. The communities (and ESO's) support has not only made this year's event possible but has also paved the way for future endeavours that will continue to bring our community together.

Warmest regards,

8th London Bug Day Committee

Cathie Wright

Best Ontario Insect - ’Cluster fly’

Keith McLean’s Conservation, Morpeth ON, August 2023. Shot with an Olympus OM-1 mirrorless camera, using the 90mm M.Zuiko macro lens, (180mm equiv.). Handheld, in-the-field, natural light.

“It was sheltering from the rain in the Tall Grass Prairie reserve. I chose this image because of the incredible detail and the subtle compositional elements framing the fly. The balls of water tell the story. The diagonal perch on the leaf and the push forward into a limited space gives the image energy and tension in an otherwise soft and pleasant pastoral background.”

Kathryn Peiman
Best Photo - ‘Powdered dancers’

“I like the powdered dancer image because I'd never timed it right to see them mating and laying eggs in such numbers before, and I had to sit in the water to get this image.”

Santhosh Durga Thyagarajan
Best photo(s) by a junior entomologist - ’Flower Fly’

“Observed at Lake Aquitaine.”

BUGEYE PHOTO CONTEST WINNERS

Santhosh Durga Thyagarajan

Best photo(s) by a junior entomologist - ‘European Common Blue’

“I took this picture @ the Riverwood Conservancy while I went searching for insects. This butterfly confused me to be a Hairstreak, but then I identified it to be a European Common Blue.”

Santhosh Durga Thyagarajan

Best photo(s) by a junior entomologist - ’Crematogaster’

“Observed at Lake Aquitaine during my Insect observation walk. This is so special to me with both mutualism (between ants and aphids) and parasitism (between parasitoid wasp and aphids).”

Cathie Wright

People's Choice - ’Long-legged fly’

Cathi’s side garden, Ridgetown ON, August 2023. Shot with my Olympus OM-1 mirrorless camera, using the 90mm M.Zuiko macro lens, (180mm equiv.). Handheld, in-the-field, natural light.

“It is beginning to defecate on a leaf of my hydrangea bush. I chose this image because of the detail and sharpness, the striking iridescent metallic green body, and good separation from the background with bright complementary colours for impact.”

Thanks to student rep Matt Muzzatti for organizing BugEye, our judges, and everyone who submitted photos and participated! We can’t wait to see your submission next year!

BUGEYE PHOTO CONTEST WINNERS

The European hornet, *Vespa crabro* is native to Europe and parts of Asia but was inadvertently introduced to North America in the mid-1800s, likely *via* global trade and transportation. The species can now be found as far south as Guatemala. European hornets are the only *true* hornet species found in North America. They are known for their distinctive black and yellow coloration and impressive size. Most active during dawn and dusk, these hornets typically thrive in wooded areas, constructing nests in hollow trees or other dark, sheltered habitats.

European hornets have impacted North American ecosystems, as they are opportunistic predators feeding on a variety of insects (including other wasps, bees, and even caterpillars). While this behavior has helped control certain pest populations in Ontario, it has also contributed to the decline in native pollinator populations. They are also known kleptoparasites, stealing prey items from spiders. Efforts to manage the impact of European hornets in Ontario involve a combination control measures by conservationists and scientists, but a key element is public awareness and monitoring by citizen scientists like Robert Beeney.

Vespa crabro on ivy.
(Peter Coxhead, 2018)

Figure 1. European hornet attacking a bumbe bee.
(Robert Beeney, 2023)

"I first observed the European Hornet in a meadow/wetland near Miners Bay on Gull Lake. The behaviour is what fascinated me. From what I observed, European Hornets don't seem to have the best eyesight as they attacked brown spots on plants, maybe looking for a sleeping bee." – *Robert Beeney*

In Fig. 1, a European Hornet is seen attacking a small bumble bee, although it was not successful.

OBSERVING THE EUROPEAN HORNET

Figure 2. The Great Black Wasp that got away.
(Robert Beeney, 2023)

Robert Beeney is a wildlife photographer from Toronto, ON who spent the summer observing and photographing insects. He encountered a European Hornet in a meadow near at Gull Lake (Minden, Ontario area). The meadow has an abundance of Canadian Golden Rod (*Solidago canadensis*) and Trumpetweed (*Eupatorium maculatum*). Although they were "unpredictable fliers", Robert managed to take some great photos!

"They don't appear to be very fast like the Great Black Wasp (Fig. 2), which simply flew faster and made its escape. The European hornets do like munching on hoverflies (Fig. 3). I never saw the prey get stung, it was more like a snatch and run. Then the hornet would dismantle the victim and take the body back to the nest." Robert also noticed a hornet pull on the wings of a Monarch.

Thank you for your contribution and beautiful photographs, Robert!
You can find more of Robert's photos here.

Figure 3. European hornet captures a hoverfly.
(Robert Beeney, 2023)

GRADUATE STUDENT POSITIONS

Drawing by David Beresford

M.Sc. - Management of true armyworm (TAW) in Ontario Cereals

Department of Plant Agriculture – University of Guelph (Ridgetown Campus)
Start Date: January 2022
Contact: Dr. David Hooker (dhooker@uoguelph.ca) or Dr. Jocelyn Smith (jocelyn.smith@uoguelph.ca)

PhD - Crop pollination by wild pollinators

School of Environmental Sciences, University of Guelph
Start Date: Unknown
Contact: Dr. Nigel Raine

PhD Student Position – Greenhouse Arthropod Biological Control

Agriculture and Agri-Food Canada – Greenhouse Entomology Program, Harrow R&D Center

Application Deadline: October 10, 2023
Starting Date: January 2024
Contact: Sr. Sherah VanLaerhoven (vanlaerh@uwindsor.ca) & Dr. Roselyne Labbé (roselyne.labbe@agr.gc.ca)

JOB POSTINGS

Senior Data Scientist
Aspire – London, Ontario

Laboratory Technician
Aspire – London, Ontario

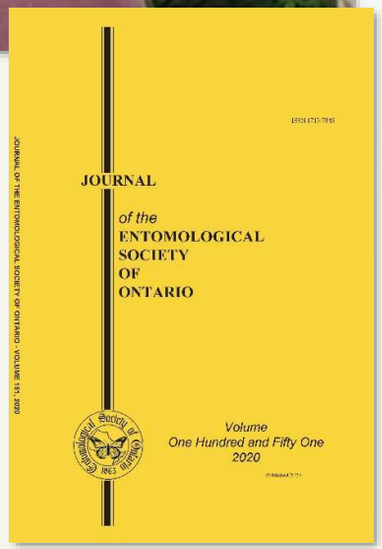
For more postings, visit the ESC-SEC opportunities, ESA careers, and CSEE pages.

The ESO extends the warmest thank you to Chris MacQuarrie, Editor for the Journal of the ESO (JESO) from 2015-2023

Chris became the JESO editor in 2015 (Volume 146), taking over the post from John Huber. As he recalls, following a review of the journal, the ESO had concerns that the journal wasn't keeping up with expectations for academic journals and that it should either modernize or cease publication. Chris was recruited by Morgan Jackson to take on the role of Editor with an aim to implement these modernizations.

Chris feels that his most significant contribution was moving JESO to the Open Journal System hosted at the Guelph University Library, beginning with volume 147. Prior volumes are also being gradually added to this library. The Open Journal System is an open-source suite that handles JESO's submissions, review, publication, and journal hosting. This system has allowed JESO editors to run the journal more efficiently, and papers can be made available online immediately after acceptance (the 'publish-as-accepted model'). It also ensures that the journal can be Code-complaint for the publication of taxonomic acts, because JESO is deep archived via the Open Journal System and partnership with Guelph.

Chris MacQuarrie
Photo: Amanda Roe



"During my time I was fortunate to work with a great group of associate Editors, including Andy Bennet and Jocelyn Smith who have provided excellent advice and guidance along the way. I've also been thankful to John Huber whom I've called on from time to time for help. But most importantly, I think I consider myself very fortunate to have worked the whole time with Tom Onuferko as Technical Editor. Tom has been an amazing resource, and I will miss working with him. I've very much enjoyed my time as JESO Editor and I think the journal is in excellent hands with Catherine Scott and Morgan Jackson at the helm. I look forward to the next 150 Editions of JESO!"

We'd like to thank Chris for 8 years of editorship and for bringing JESO into the modern age!

THANK YOU, CHRIS MACQUARRIE!

The ESO welcomes our new JESO co-editors

It is with great pleasure that we officially welcome the new co-editors of the Journal of the Entomological Society of Ontario, Dr. Catherine Scott and Dr. Morgan Jackson.

Catherine Scott is currently a Banting postdoctoral fellow in the Lyman Lab at McGill University and is researching spider foraging ecology. She is a natural historian and behavioural ecologist emersed in the world of arachnology, and an active blogger about all things spiders, including her own research.

Morgan Jackson is an insect taxonomist and currently a post-doctoral researcher with the Lyman Entomological Museum at McGill University. His research focuses on the evolution and diversification of flies, and he is broadly interested in the natural history of insects. Morgan has been actively involved (>10 years) in science communication though varying social media platforms.

Morgan and Catherine spent the last year or so working closely with Chris MacQuarrie as they took the reins on JESO editorship. Their passion for entomology and combined expertise is a tremendous asset to the editorial team, and we are thrilled to welcome them aboard.

Catherine Scott

Morgan Jackson

JOIN THE ESO BOARD!

The ESO society functions thanks to the help of the board. There are many different positions, and joining is a great way to make a difference to the society, work in a team, and gain public service experience in a relaxed, friendly atmosphere. Within the board you will also have the opportunity to join various committees for outreach, plan AGMs, and more. Perhaps you have some new ideas or expertise that you'd like to bring to the society!

Each summer, the ESO members elect an incoming president, director, and student representative. The duration of these positions is:

- President: 3 years (incoming, current, outgoing)
- Director: 2 years
- Student representative: 2 years

Those interested can send their photo and a short bio to Samm Reynolds: sreyno08@uoguelph.ca

Former ESO board members, circa pre-COVID days

Looking for ESO Communication Members

Hello all members of the ESO! Do you love sharing insect memes and updates about bug related events? Consider joining our Communications Committee! Our team is looking for individuals to collaborate and contribute to our social media pages and inform members of job opportunities, society information, and general insect updates. You will work alongside an established team to keep our social media up and running and work with our Webmaster to keep the website updated. This is a critical role for the society and would look great on a CV! If you're interested in learning more about this role, email us. If you know someone who might be interested and is not on our mailing list feel free to forward this along!

Follow ESO on Instagram! @ent_soc_ontario

Entomological Society now has Instagram. Visit our page to learn about upcoming contests, events, and members' research! Follow, like, and share!

Interested in showcasing your work on our Instagram?
We are looking to showcase some work from entomologists in our community! If you're interested in having your work shared to our media accounts, please submit a blurb to the Comms. Chair, Shannon McCauley.
Example content:

- A recent paper that's come out (include the title, a short blurb, and a picture)
- Other ento-related work or events, e.g. projects in restoration, agriculture/forestry, community that highlight the work people in the society are doing (include a blurb about the project and a picture)

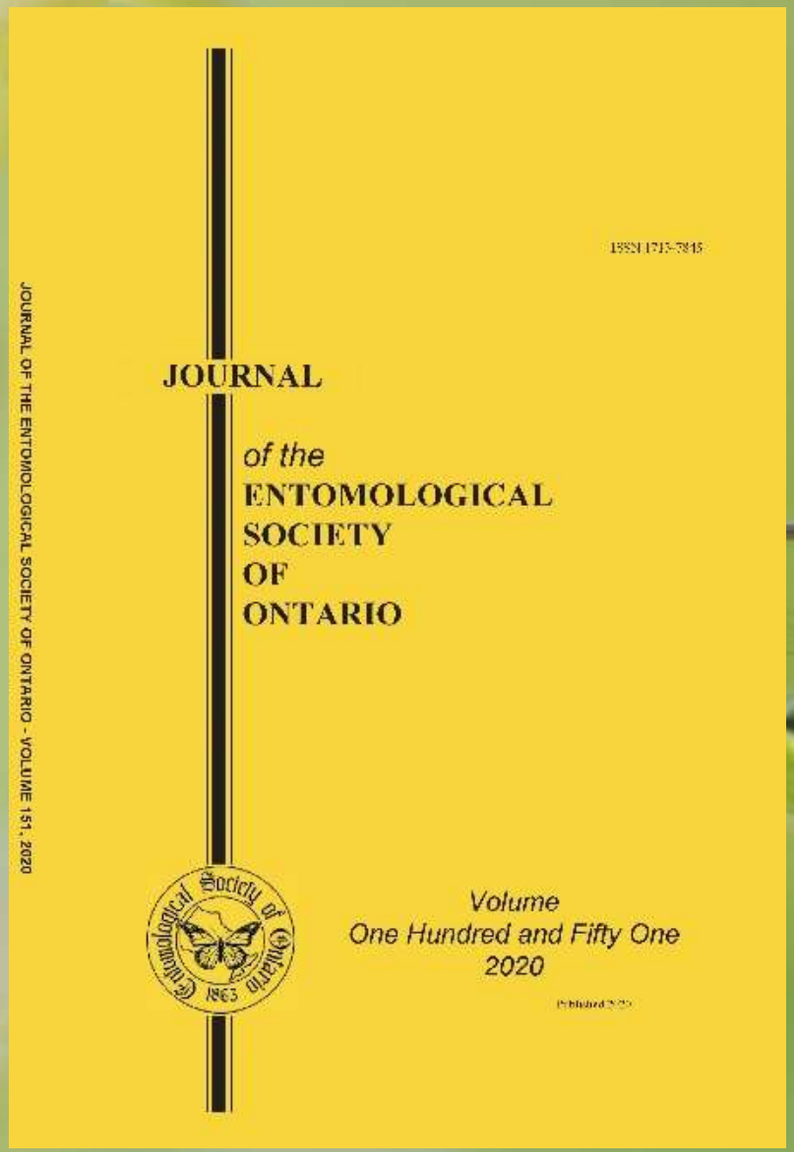
ESO CAN SUPPORT YOUR EVENT

Outreach is one of the most important ways to communicate and promote public awareness of science, entomology, and an appreciation of nature in general. It is also a great way to inspire future entomologists. The ESO has especially focused on insect-related outreach over the last 10 years, supporting the province's largest entomology events such as Bug Days in Ottawa, Guelph, and London, in addition to smaller, one-time events.

If you are planning an ento-related public outreach event in Ontario, the ESO can provide some financial support! Simply fill out the 1-page application form and send it to entsocont.newsletter@gmail.com with the subject "Outreach application". Because funding allocation must be decided early, application forms submitted after the deadline may not be eligible for support.

Outreach Application deadline: **March 31, 2024**

Guelph Bug Day 2017 – outdoor collecting



PUBLISH IN JESO!

The Journal of the Entomological Society (JESO) is the second oldest entomological journal in North America.

Papers on any aspect of entomology are accepted, and do not need to be restricted to Ontario! Both French and English manuscripts are welcome. At least one author must be a member of the ESO. To submit, please see the Instructions for Authors page.

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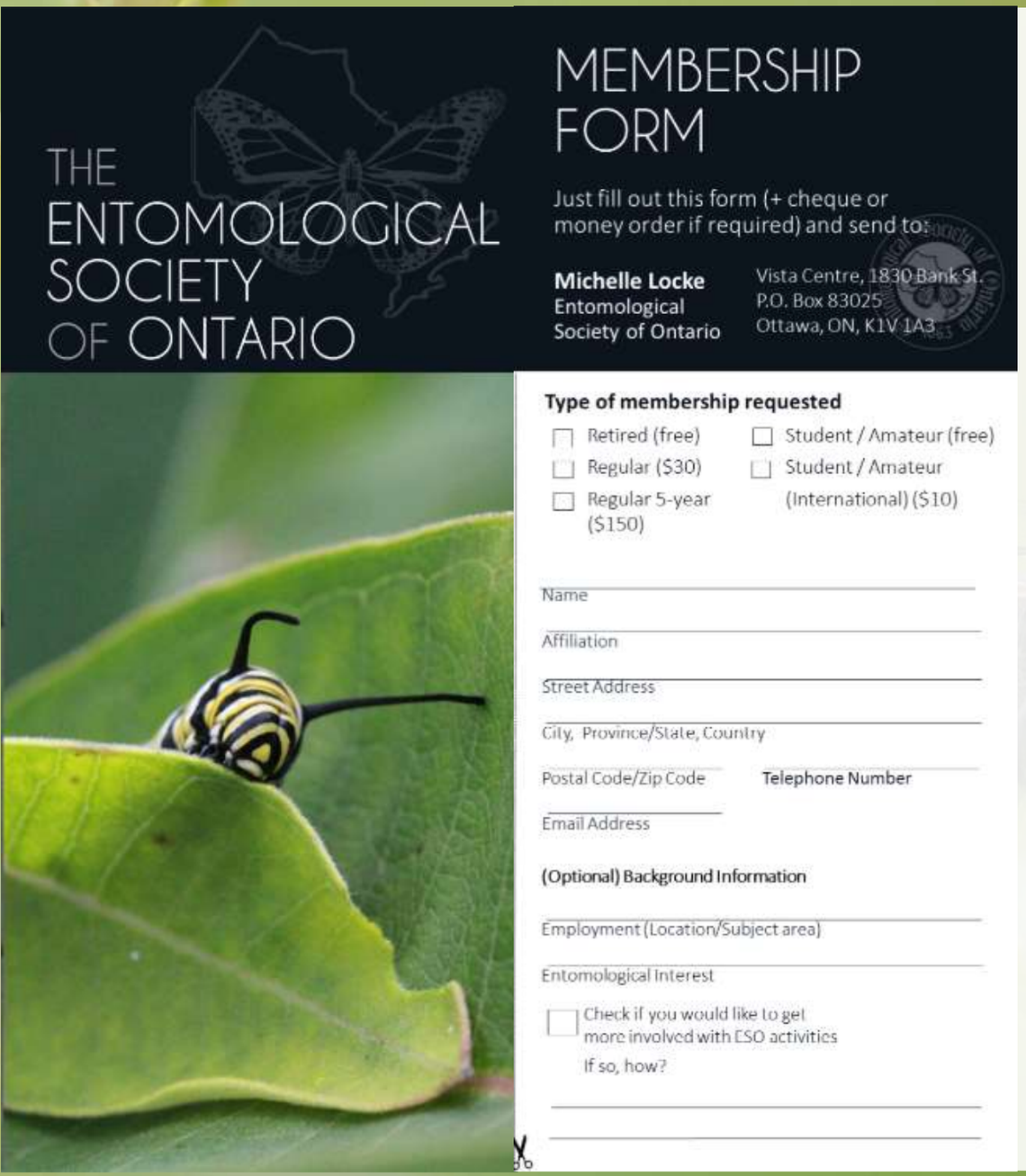

JOIN THE ESO!

For ESO membership, complete the Membership form (also available on the ESO website)

Student, amateur, and retiree memberships are **FREE**!

Regular members: A one-time payment of $150 secures you a 5 year membership! For payment options, including PayPal, please visit www.entsocont.ca, or mail your invoice and payment to:

ESO Membership Committee
Entomological Society of Ontario
Stone Road Post Office, P.O. Box 25021
17-370 Stone Road W.
Guelph, Ontario N1G 4T4

Have questions? Email the ESO membership committee at: entsocont.membership@gmail.com