



Volume 29 | Issue 1 | June 3, 2024

ENTOMOLOGICAL SOCIETY OF ONTARIO

SPRING NEWSLETTER



Photo: Craig Symonds
(BugEye 2022)

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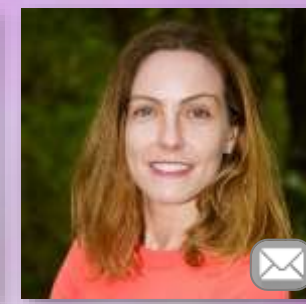
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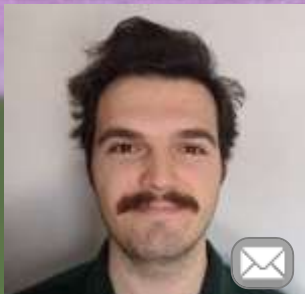
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Justin Renkema
ESO President

It's a hot, 30 °C mid-May, spring-day in Vineland, and with an already early spring following a warmer-than-normal winter, insect activity is beginning fast and furiously. Plum curculio (*Conotrachelus nenuphar*) is no exception. It is a native pest of tree fruit (apple, peach, cherry), as overwintering adults move into orchards where females oviposit into small, green fruitlets. Movement typically peaks 2 weeks-post bloom (late May/early June), but trap captures in the Niagara region have seemed to peak in early May and at extraordinarily high levels in some locations.

When I moved into my office at Agriculture and Agri-Food Canada in Vineland 6 years ago, I inherited a cabinet with a collection of journals, including a (nearly complete) set of annual ESO reports back to 1900. Paging through the old reports is an interesting and sometimes entertaining activity. As the reports include sections on “Insects of the Year” or “Insects of the Season”, I wondered what the season for plum curculio was like 100 years ago. The 1924 report is missing, but in 1923, WA Ross in Vineland and L Caesar in Guelph reported that “for some reason unknown to us, this insect [plum curculio], although abundant as usual in spring, was very scarce this autumn” and that there was almost no damage to fruit in unsprayed orchards. Two years later, the same authors reported that “...1925 was not characterized by many outbreaks for injurious insects”, and plum curculio did not even make the list of top orchard insect pests of the season.



Figure 1. Summer student Parker Farnand with a pheromone-baited plum curculio pyramid trap. Inset: Plum curculio oviposition scars on unripe cherry. Photo credits: Sudhakar Pandurangan

I recently received funding to work on plum curculio management, and my lab is busy gathering supplies, deploying traps for adults, getting adults to lay eggs in unripe fruit (Fig. 1), and setting-up a field experiment – we want to make the most of how easy it is to collect adults but were not counting on being 2-3 weeks ahead of schedule! Our first experiment will be on entomopathogenic fungi against the soil-dwelling late-instar larvae and pupae to reduce adult emergence in the summer. Controlling the soil-dwelling life stages is part of an integrated, behaviourally-based strategy that includes pheromones and semiochemicals to draw adult plum curculio to trap trees. Perhaps the reason that plum curculio was scarce 100 years ago in Ontario had a lot to do with pathogens in the soil, and our current research is just as much about rediscovering something old as it is about doing something new.

As your entomologically-related endeavours take you to the field this season and/or to dusty cabinets with tomes from years gone-by, I wish you much success making discoveries, uncovering old data and perhaps finding your own links between entomology-past, -present and -future in this province.

Thank-you for your continued support of the ESO, and I look forward to seeing you at our annual meeting in early October in Toronto.

Justin Renkema
ESO President



Jocelyn Smith

President-elect

I am excited to be nominated as President-elect for the Entomological Society of Ontario (ESO). In June 2024, I will begin a new role as an Assistant Professor in Field Crop Entomology at the University of Guelph, Ridgetown Campus. With over 15 years of research experience in this field, I am excited to embark on the next chapter of my career and to get more involved with the society again. My journey in entomology began during my third year as an undergraduate at the University of Guelph, when I took my first entomology course. Since then, I have been captivated by the fascinating and rewarding nature of this field. At Ridgetown, I aim to inspire future farmers and members of the agricultural industry about entomology through the agricultural diploma program and training graduate students. I emphasize the importance of sustainable, responsible, integrated pest management and insect resistance management, which I believe are critical perspectives for those entering the agricultural industry.

I have strong ties to Ontario agriculture, having grown up on a beef and cash crop farm near Wyoming, Ontario in Lambton County, and farming with my family to this day. My research spans pest biology, ecology, and management of key pests affecting corn, soybeans, and wheat. I have established strong research collaborations include agricultural grower commodity organizations, the seed and crop protection industry, researchers in Canada and the US, and OMAFRA specialists for both basic and applied management. I lead a globally recognized research program on insect resistance to transgenic corn and serve as an executive member of the Canadian Corn Pest Coalition, a group dedicated to the stewardship of corn pest management technologies. I am also a Canadian representative for the USDA Subcommittee NC:246: Ecology and Management of Arthropods in Corn.

While pursuing my career in entomology I have had the privilege of meeting and learning from so many remarkable individuals in the Ontario entomology world, and I want to pay it forward. As a member of ESO since 2006 and a director from 2015-2017, I would be honoured to serve as President in the coming years.



Lauren Des Marteaux

President-elect

I became fascinated by the diversity, beauty, and importance of insects as an undergraduate at the University of Guelph. I went on to complete an M.Sc. there on diapause ecology in an agricultural pest before switching gears to insect cold physiology for my Ph.D. at the University of Western Ontario. I then spent several years abroad as a postdoc in the Czech Republic (studying insect extreme freeze tolerance) and Japan (investigating insect circadian rhythm). I returned to Ontario in 2020 to run the Field Entomology Lab at AAFC's Harrow Research and Development Centre. I am also an adjunct associate professor at the University of Windsor, Ontario. My program spans integrated pest management, insect / pollinator conservation, pest monitoring, microbiomics, crop resistance screening, and development of novel approaches and molecular tools for insect surveying and management. My ultimate goal is to find sustainable and targeted means of controlling pests while supporting beneficial insect presence in agricultural landscapes.

The ESO AGM was among the first conferences I attended as an undergraduate and I have always cherished this friendly and tight-knit community. I have been a member of the society since 2010, during which I served in various roles on the board: as a Student Representative (2013-2015), Newsletter Co-Editor (2015-present), and Director (2023-2025), in addition to several other committees. I also designed the ESO Info Pamphlet and help to admin the Facebook page. Over the past 10 years I have noticed a great blossoming of insect outreach events across the province, many of which started with ESO funding and are still sponsored by our society each year. In fact, during my time as an ESO Student Representative I took inspiration from Ottawa Bug Day and created the first 'London Bug Day' in 2014. I ran this event until 2016, which had then grown to attract 700 visitors, and still continues today! To date I have coordinated or participated in 29 science and entomology outreach events, and I eagerly await the next opportunity. This year the ESO is sponsoring three Bug Days, a Butterfly show, and a BioBlitz; events that will reach many thousands of people of all ages. My aim for this society is to foster such outreach to the best of our ability, because I feel that education and instilling curiosity about insects will be the greatest investment we can make towards insect conservation in our province.



Steve Paiero

Director

As the curator at the University of Guelph Insect Collection, my role includes several facets, including research, collection curation and development, entomological outreach efforts, and assisting researchers and students in their studies! It was the Field Entomology course at the U of G (with Drs. Stephen Marshall and Gard Otis) that my really started my interest in insect diversity. I pursued two graduate degrees with Dr. Marshall at Guelph. My Masters work focused on documenting the insect fauna of tallgrass prairies in southwestern Ontario, getting an appreciation and understanding of the broader

diversity of the Ontario fauna. After that, I helped with entomological inventory work, helped study the potential use of ground nesting wasps (*Cerceris*) for bio-surveillance of Emerald Ash Borer (*Agrilus planipennis*) with the CFIA, and developed a reference guide to the northeastern metallic wood-boring beetles. My PhD focused on the systematics of the diverse fly family Sphaeroceridae and, from there, I stepped into the newly created curator position in 2017.

My research is as diverse as my interests. My passion for diversity is what started it all up, and I continue to document the insects of Ontario through surveys in southwestern Ontario (especially the true bugs, aculeate wasps and bees), along with the fauna of Ojibway Prairie Complex (Windsor) to highlight the unique community present there. As a 'fly lab', I have continued to focus on the true flies with ongoing revisions of various genera in the family Sphaeroceridae. Finally, with the recent concerns about the introduction of the Northern Giant Hornet (*Vespa mandarinia*) to North America, I continue to aid OMAFRA's monitoring efforts by identifying all image submissions through their online portal.

I have been involved with the ESO as a member since 2000. Over the years I have had the privilege of seeing many students go onto into careers in entomology, enjoyed many of the great meetings where I have loved hearing about the diversity of entomological research happening in Ontario, and have really enjoyed being part of the ESO community. As a director, I hope to be able to draw from my years of experience to contribute back to the ESO with any guidance and assistance that I can!



Marla Schwarzfeld

Director

I am a mite taxonomist at the Canadian National Collection of Insects, Arachnids and Nematodes, Agriculture and Agri-food Canada in Ottawa. I completed my undergraduate degree at the University of Victoria, and then spent a few years in Hawai'i, studying bird-insect interactions. I then traded in the subtropics for a chillier PhD at the University of Alberta, where I studied the systematics and taxonomy of the ichneumonid genus *Ophion*. I became interested in metabarcoding and next-generation sequencing for biodiversity discovery during my post-doc at the University of Northern British Columbia, Prince George, while studying aquatic biodiversity.

My current research interests include the systematics and taxonomy of the predatory mite family Cunaxidae. I am also interested in mite phylogeny more broadly, and am dipping my toe into the world of phylogenomics. A number of my research projects focus on using molecular methods to discover soil biodiversity in both agricultural and natural areas. I am continually amazed at the diversity and abundance of tiny critters living their lives unobserved beneath our feet.

In my spare time, I enjoy “rewilding” the grounds of my condo complex by planting native pollinator gardens, adding native trees and shrubs, and removing invasive species, as well as contributing to broader efforts to promote native plants in Ottawa.



Colin Jones

Director

I am the Provincial Zoologist of Invertebrates at the Natural Heritage Information Centre (NHIC), Ontario Ministry of Natural Resources and Forestry. I completed my BSc at the University of Guelph and my BEd at the University of Ottawa. I am a life-long naturalist and have been interested in all aspects of natural history since a very young age. I have co-authored two field guides on insects: “A Field Guide to the Dragonflies and Damselflies of Algonquin Provincial Park and the Surrounding Area” and “The ROM Field Guide to the Butterflies of Ontario”. I am a big fan of community science based platforms such as the Ontario Butterfly Atlas, iNaturalist and eBird.

My work at the NHIC involves maintaining the provincial list of invertebrates and assigning conservation status ranks to each species. We maintain observation records of those that are considered of conservation concern in a central database that is used for a variety of conservation and land-use planning initiatives. We also conduct our own fieldwork targeting species of

conservation concern. Such fieldwork has brought me to all ends of the province from the coast of Hudson Bay to Pelee Island. I am also a member of the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) and serve as both a jurisdictional representative for Ontario and a member of the Arthropods Species Specialist Committee.

Outside of my professional life, I am a husband and a father to two adult children and a Golden Retriever. I enjoy photography, travel, canoe tripping, Nordic skiing and board games.



Hannah Bodmer

Student representative

Hello ESO members! I am a PhD student at the University of Toronto Mississauga co-supervised by Dr. Shannon McCauley and Dr. Rosalind Murray. My research aims to better understand the effects of urbanization and road salt pollution on dragonfly communities and the aquatic ecosystems they call home. My work includes studies in Koffler Scientific Reserve's mesocosm ponds, the city of Brampton's stormwater pond network, and the Credit Valley Conservation Authority's Island Lake Conservation Area. I earned my BSc in Biology (2022) at the University of Minnesota, where I researched the impacts of climate change and winter warming on a cold-adapted chironomid fly (*Diamesa mendotae*) under the supervision of Dr. Leonard Ferrington and Dr. Bruce Vondracek.

I strongly value community education, outreach, and engagement, and have been involved with multiple organizations that bring science to the public. In 2022-2023, I worked with the Carver County Water Management Organization to promote environmental stewardship and raise awareness of issues threatening our waters. My work included leading day camps to teach kids about aquatic macroinvertebrates, creating displays, handouts, and websites to raise awareness of road salt pollution in the county, and developing interactive booths at city festivals and county fairs to raise awareness of the spread aquatic invasive species. I currently volunteer with Let's Talk Science and the Riverwood Conservancy's Junior Naturalist Club, where I lead children through hands-on activities in the classroom and outdoors to learn about what it means to be a scientist and how we can explore natural world!

I would be honored to serve as Student Representative to support and encourage all students' involvement in the ESO community and promote engagement with the public to increase awareness of the wonderful world of insects and entomology! It was wonderful to meet fellow ESO members at my first ESO AGM this past year, and I look forward to seeing everyone again at our upcoming meeting!



Ella De Nicola

Student representative

Hi ESO!

My name is Ella, and I am a PhD candidate in the MacMillan and Biggar Labs at Carleton University. I am very excited to have the opportunity to serve on the ESO board as I am a South African international student and am still relatively new to Canada! Building a sense of community was critical to feeling integrated into my new working environment. As student representative, one of my goals would be to create a collaborate and inclusive environment that welcomes and engages researchers of all backgrounds and specializations within entomology.

I have a wide variety of molecular and applied entomology experience. My PhD research focusses on characterizing the molecular mechanisms that underly thermal plasticity in two very different

insect species; the fruit fly, *Drosophila melanogaster*, and the yellow fever mosquito, *Aedes aegypti*. During my BSc Hons and MSc degrees at Stellenbosch University, South Africa, I worked on an integrated pest management strategy for the African and Asian citrus psyllids, *Trioza erythrae* and *Diaphorina citri*.

I would excel as student representative as I work well as part of a team and have experience with student advocacy. I am a current member of the Carleton University Biology Graduate Association and previously served as chair of a similar committee at Stellenbosch University. In 2023, I co-chaired a conference between the University of Ottawa and Carleton University that featured keynote speakers, presentations, and workshops. These experiences equipped me with valuable skills that I am eager to bring to the ESO board.



Jeremy McNeil

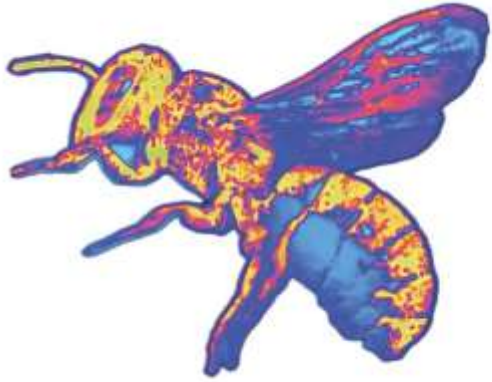
ESO FELLOW

Dr. Jeremy McNeil is a highly distinguished Canadian entomologist and chemical ecologist with a career spanning 55 years and counting. He completed his B.Sc. in Zoology at the University of Western Ontario in 1969 and received a Ph.D. from North Carolina State University in 1972 with a thesis on the hyperparasitoids of the tobacco hornworm. He taught at Laval University for 30 years (1972 to 2002) and has held the Helen Battle Professor of Chemical Ecology position at the University of Western Ontario for the past 20 years. Jeremy's contributions to science and outreach have been recognized through a plethora of awards, including the Fry Medal from the Canadian Society of Zoologists, the C. Gordon Hewitt Award and Gold Medal from Entomological Society of Canada, the (coincidentally named) McNeil Medal from the Royal Society of Canada, an NSERC Award for Science Promotion, and the Order of Canada, to name a few. Jeremy was an ESO Director (2010-2013) and President (2013-2014), and has served on the

boards of the Entomological Societies of Quebec and Canada, The Royal Society of Canada, the Canadian Federation of Biological Societies, and the International Society of Chemical Ecology. Jeremy became a Fellow of the ESC in 1981, the Royal Society of Canada in 1999, and the Entomological Society of America in 2015. He is also a Fellow of the Guatemalan Academy of Science, Brazilian Academy of Science, and Royal Entomological Society of London (UK).

In addition to this impressive academic track record, Jeremy is likely to have the most extensive 'bug shirt' collection in Canada (maybe even the *world*), at roughly 600! He reps bugs with these shirts on a daily basis (if you don't believe us, a quick Google Image search will set you straight - examples below). He has been a mentor to many, and we are lucky to have such an accomplished scientist, communicator, and bug champion in Ontario. We feel that Jeremy well deserves to be honored with the title of Fellow from the ESO.





ESO 2024

ENTOMOLOGY IN A MULTIDISCIPLINARY WORLD

IMPORTANT DATES

Registration opens:	July 1
Abstract deadline:	September 1
Conference:	October 4-6

Date: October 4-6, 2024

The 2024 Entomological Society of Ontario meeting is scheduled for October 4-6th 2024 at the University of Toronto Scarborough. The theme for this year is 'Entomology in a Multidisciplinary World'.

Registration will open July 1st, and the deadline to submit abstracts for oral presentations and posters is September 1st. Information on keynote speakers, nature walks, and other happenings TBA soon on the [ESO website!](#)



rare
BioBlitz

Sunday, July 14
9:00 a.m. to 4:00 p.m.

rare's Ancient Woods
1201 Whistle Bare Rd
Cambridge, ON N1R 5S3

Visit raresites.org/events
for more details!

Made possible through the funding from: **TD** TD Friends of the Environment Foundation

Help us build our species list and explore *rare's* Ancient Woods at this year's BioBlitz! A BioBlitz is an intense period of biological surveying where a group of experts, naturalists, and volunteers attempt to record as many species as they can in one area.

Become a citizen scientist and learn from experts in the field about how to find and identify species of plants, animals, and fungi living in our area. As evidenced by the success of BioBlitzes around the world including at other *rare* properties, together we can find and catalogue a lot of species in just a short time.

This event is **suitable for anyone over 12 years old**. We will be exploring **off-trail** in areas with **rough and slopped terrain**. **NO dogs** are permitted.

Date: Sun Jul 14, 2024 9:00 AM-4:00 PM (4:00-5:00 PM clean up)
Location: Ancient Woods, 1201 Whistle Bare Rd, N1R 5S3

2024
BioBlitz + Butterfly Count

Made possible through the funding from: **TD** TD Friends of the Environment Foundation

What to bring:

- Reusable water bottle
- Weather appropriate clothing (long pants, hiking shoes, hat)
- Sunscreen



CALL FOR VOLUNTEERS:

rare BioBlitz

Sunday, July 14
9:00 a.m. to 4:00 p.m.
(4:00-5:00 p.m. cleanup)
rare's Ancient Woods
1201 Whistle Bare Rd, Cambridge

RESPONSIBILITIES:

- Lead hikes
- Help participants identify species
- Record findings in iNaturalist
- Event support



Visit raresites.org/volunteer or scan the QR code!

Register [here!](https://raresites.org/volunteer)

Questions? Contact Sara Clark
(Events & Development Coordinator):
Sara.Clark@raresites.org
or (519) 650-9336 x122.



Guelph Bug Day is back again – our 7th year running! This event encourages outreach and engagement with the public about bugs. It is run by undergraduate and graduate student volunteers from the University of Guelph, and we have the professional and semi-professional entomologist community helping to run various booths.

Date: August 25, 2024

Location: University of Guelph Arboretum Centre - OAC
200 Arboretum Rd, Guelph, ON (Free parking on site!)

Time: 10 am - 4 pm



The event is a free educational event for all ages! We have an array of booths and, new this year, are insect-themed vendors selling bug-related merchandise and our own Bug Day merchandise for sale.

Activities

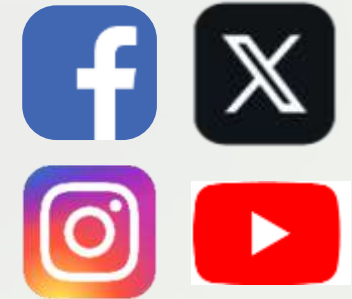
- Kids Hike
- Pollinator Hike,
- Forest Hike,
- Pinning Workshop,
- Honey Bee Research Centre Tour
- And much more!

Booths

- Edible insects
- Cockroach races
- Aquatic insects
- U og G Insect Collection
- IB invert Collection
- Craft table
- Insect obstacle course
- Amazing Arachnids
- Pollination table
- What eats my food?
- Hike leads: Kids, Forest, Pollinator, tour of the honey bee research centre
- Pinning workshop
- Face painting/temporary tattoos



For inquiries, email guelphbugday@gmail.com



Visit us on social media

bug day!

FREE event



Live bugs
Cockroach races
Insect cuisine
& more

#BugDayOttawa

SEPT 7th 9AM - 4PM

The Canadian National Collection of Insects,
Arachnids & Nematodes

**960 Carling Ave., Ottawa
Central Experimental Farm**

Free parking on site

 <https://bit.ly/3UFtd5Y>

Presented by:



The Ottawa Field-Naturalists' Club
Club des naturalistes d'Ottawa



Agriculture and
Agri-Food Canada

Agriculture et
Agroalimentaire Canada



London Bug Day is a beloved event organized by graduate and undergraduate students, celebrating the fascinating world of insects. This family-friendly day welcomes children and the entire community of insect enthusiasts. The event features guided insect handling, themed crafts, photo opportunities, informational booths, live insect displays, and more. This diversity of activities ensures an inclusive environment that fosters learning and curiosity about insects for all attendees.

Volunteers from Western University's Department of Biology play a crucial role in organizing and running the event. Their dedication and diverse backgrounds bring enthusiasm and support, creating an inclusive and educational atmosphere. Student volunteers also enhance their communication skills, engaging effectively with the public. Attracting 500 to 600 visitors, London Bug Day offers significant networking opportunities and has become a cherished tradition of insect knowledge sharing.

Activities/Booths:

- What is an insect?
- Insect Collection
- Button making
- Cockroach Races
- Cambridge Butterfly Conservatory
- Face painting and temporary tattoos
- Photography with costumes
- Edible Insects
- Insect Zoo
- Digital Microscope
- Craft Table
- Friends of Garden
- Monarchs release
(at 2:30 PM)



More details on our social media
Inquiries: londonbugday@gmail.com



Join us for Carleton University's 25th Annual Biology Butterfly Show

During the 9 days leading into the Thanksgiving weekend, over 1000 live exotic butterflies, representing over 40 different species worldwide, are released into the Nesbitt Biology greenhouse. Visitors of all ages are welcome! Immerse yourself in a tropical setting with lush plants and over 1000 butterflies flying freely. While walking through the greenhouse, hold up fruit slices which will encourage landings and a chance to see the insects up close. The butterflies are imported to Canada as pupae and emerge as butterflies in the greenhouse where they live out the rest of their natural lives.

Each year, the Department of Biology partners with Let's Talk Science Ottawa. Nearly 50 volunteers help to run this event and our science student volunteers are on site to share their knowledge of these fragile creatures with all visitors. The experience instils a sense of wonder in guests of all ages that we hope will lead to a lifelong love of nature and science.

Before attending the event, please visit our website for the latest information, as some days of the show may be reserved for school groups and public timeslots may fill in advance:

<https://carleton.ca/biology/annual-butterfly-show/>

Date: Saturday, October 5, 2024 through Sunday, October 13, 2024

Location: Carleton University Nesbitt Building Butterfly Greenhouse
1125 Colonel By Drive, Ottawa, ON K1S 5B6



@cuButterflies

#CarletonButterfly2024



Photos: Sarah Anne Szabototh

SUBMIT A PHOTOGRAPH TO THE BUGEYE PHOTO CONTEST!

All Ontario residents, including international students living in Ontario, are eligible

You may submit up to 3 unique images, but can only win one prize plus the People's Choice Award. The best pictures submitted will be selected by judges and entered into the People's Choice Award competition. People's Choice entries will be posted on the ESO website, ESO social media, and/or on a photo sharing website such as flickr for the community to vote on, in addition to being displayed at the ESO Annual Meeting. If you do not wish for your photo to be posted publicly, you can choose to not participate in the People's Choice Award. Copyright for the photo remains with the photographer, but use must be granted for ESO promotional material.



Instructions:

- Images must be of insects or closely related arthropod species (mites, spiders, etc).
- All submissions must be digital files, and may be either 'landscape' or 'portrait' in orientation.
- Submit the image file by creating a digital file that is the equivalent of 7.5 inch by 10 inch (19.5 cm by 25.4 cm), at 300 dpi, formatted as a jpg. Images from film must be digitally scanned and then edited to 7.5 inch by 10 inch, at 300 dpi.
- Create a filename using an appropriate title, underscore, your last name, underscore, first initial (e.g. dragonfly_smith_j.jpg).
- Include a short description of your entries (where they were taken, why you like them, etc.)
- Indicate whether:
 1. your photo is of an Ontario insect
 2. you are a child under the age of 13
 3. you would like to be considered for the People's Choice Award.
- Photographic enhancement is allowed as long as it is something that could also be achieved in a real darkroom with a color or black & white negative (e.g. adjustment of contrast, color enhancement, cropping, etc.). However, very dubious enhancements will be negatively scored.

Judging criteria is based on

- a) image composition
- b) visual impact of image
- c) subject interest
- d) sharpness of subject
- e) difficulty of image acquisition
- f) lighting

BugEye prize categories

- Best photo (\$50)
- Best photo of an Ontario insect (\$50)
- Best photo by a junior entomologist under 13 (1st \$25, 2nd \$20, 3rd \$10)
- People's Choice Award (\$50)



Open to all Ontario residents, no entry fee
Submission deadline: September 10, 2024
Submit photos to: esophotos@gmail.com
Winners announced at the upcoming ESO AGM



2020 Best Ontario Insect & People's Choice:
Rory Wills



Journal of the Entomological Society of Canada

Vol. 154

Published: 2023-10-17

Articles



[First records of invasive agricultural pests *Thrips parvispinus* \(Karny, 1922\) and *Thrips setosus* Moulton, 1928 \(Thysanoptera: Thripidae\) in Canada](#)

J.E. Gleason, Eric Maw, Ashley Summerfield, Sarah E. Jandricic, Bryan Brunet



[Crane flies \(Diptera: Tipuloidea\) of far northern Ontario and their distributions in the neighbouring regions of subarctic Canada](#)

Fenja Brodo, Zaid Jumean, David V Beresford



[A comparison of European deer keds \(Diptera: Hippoboscidae: *Lipoptena cervi* \(Linnaeus\)\) and blacklegged ticks \(Ixodida: Ixodidae: *Ixodes scapularis* Say\) on elk \(*Cervus canadensis* \(Erxleben\)\) and white-tailed deer \(*Odocoileus virginianus* \(Zimmermann, 1780\)\) in Pennsylvania](#)

Michael Skvarla, Karen Poh, Calvin Norman, Emily Dolores Struckhoff, Erika Machtinger



[Review of *Gastrogonatocerus Ogloblin* \(Hymenoptera: Mymaridae\) in North America](#)

John Huber, Jennifer D Read

Scientific Notes



[First records of direct kleptoparasitism in yellowjacket wasps \(Vespidae: *Vespula*\)](#)

Savannah Lindsay Burroughs, Morgan D. Jackson, Jessica P. Gillung



Two female fairyflies (*Gastrogonatocerus aquilonaris* Huber & Read) ovipositing into *Enchenopa 'binotata'* complex egg masses. Fig. 15 from Huber & Read (2023).



A yellowjacket (*Vespula germanica*) in the process of stealing prey (a honeybee) from an assassin bug (*Sinea diadema*). Figure 3 from Burroughs et al. (2023).

GRADUATE STUDENT POSITIONS



Drawing by David Beresford

PhD – Molecular plant virology

Agricultural and Agri-Food Canada

Vineland, Ontario

Deadline: June 14, 2024 PT

MSc – Behavioural and biological control of plum curculio in tree fruit

Agricultural and Agri-Food Canada

Vineland, Ontario

Contact: Justin Renkema (justin.renkema@agr.gc.ca)

MSc – Harnessing the microbiome for control of the striped cucumber beetle

Agricultural and Agri-Food Canada

Harrow, Ontario

Contact: Roselyne Labbe (roselyne.labbe@agr.gc.ca)

JOB POSTINGS



[Co-sessional lecturer | Forestry | FOR307H1S - Forest Insect Ecology & Management](#)

University of Toronto (St. George Downtown Campus)

Toronto, Ontario

Deadline: June 14, 2024

[Entomology Research Technician](#)

Crop Defenders

Essex County (2 positions), Niagara Region (1 position)

Deadline: None listed

[Entomologist](#)

Great Lakes Greenhouses

Leamington, Ontario

Deadline: None Listed

For more postings, visit the [ESC-SEC opportunities](#), [ESA careers](#), and [CSEE](#) pages.

ESO CAN SUPPORT YOUR ENTO OUTREACH 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! Let us know your intent to apply by emailing entsocont.newsletter@gmail.com with the subject "Outreach application". We will then send you a 1-page application form. Because funding allocation must be decided early, application forms submitted after the deadline may not be funded.

Outreach Application deadline: **March 15, 2025**



Guelph Bug Day 2017 – outdoor collecting

Do you like bugs? Do you like social media? Then come on down to the ESO Comms. Committee!

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! 🐛🐝🐞🐜



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 entsocont.membership@gmail.com

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)



Do you follow ESO on Instagram? @ent_soc_ontario

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

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 get the opportunity to join various committees for outreach, meeting planning, 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, two directors, and a student representative. The duration of these positions is as follows:

President: 3 years (incoming, current, outgoing)

Director: 2 years

Student representative: 2 years

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



Some of the past ESO board. Maybe we'll update this photo someday...



PUBLISH YOUR WORK IN JESO!

The Journal of the Entomological Society of Ontario welcomes submissions of manuscripts (including articles, natural history notes, and reviews) on any entomological subject. Research from any region is welcome, but we have a particular focus on the insect fauna of Ontario.

Publishing in JESO is free, and accepted papers are published immediately online and made fully open access. We aim to make the review process as swift as possible; since the beginning of 2023, the average time to first decision is 12 weeks (range: 4–18 weeks) and the average time to publication is 24 weeks (range: 15–32 weeks).

Want to be a peer reviewer? If you are a graduate student who would like to be added to our list of potential reviewers, please [email](#) the editors and let us know what subject areas you would be willing to review.

To submit, please see the [new JESO webpage](#).



Co-editor
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Co-editor
Morgan Jackson



Assoc. Editor
Jocelyn Smith



Assoc. Editor
Andrew Bennett



Technical Editor
Thomas Onuferko





MEMBERSHIP FORM

Just fill out this form (+ cheque or money order if required) and send to:

Michelle Locke
Entomological Society of Ontario

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



Type of membership requested

- Retired (free)
- Regular (\$30)
- Regular 5-year (\$150)
- Student / Amateur (free)
- Student / Amateur (International) (\$10)

Name _____

Affiliation _____

Street Address _____

City, Province/State, Country _____

Postal Code/Zip Code _____ Telephone Number _____

Email Address _____

(Optional) Background Information

Employment (Location/Subject area) _____

Entomological Interest _____

Check if you would like to get more involved with ESO activities
If so, how?

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