

ESC/ESO JAM 2021: Strength In Diversity!

Monday, November 15, 2021

9:30 AM - 10:00 AM EST

Land Acknowledgement & Opening Ceremonies.

10:00 AM - 10:15 AM EST

Break.

10:15 AM - 11:45 AM EST

President's Prize Talks, Ecology and Evolution. [Concurrent session]

Moderator: Ida Conflitti

Time	Speaker	Title
10:15	Angela Demarse	Lepidoptera Marking Methods: A matched pair experiment examining nail polish and acrylic paint durability
10:30	Shayla Kroeze	Using conservation genetics to inform reintroduction of the Mottled Duskywing
10:45	Emily Hanuschuk	Diverse and edgy landscapes support wild bee pollinators and plant-bee networks in an agriculturally dominated region of Manitoba.
11:00	Justis Henault	Endangered <i>Oarisma poweshiek</i> butterfly larval host foraging and adult behaviour microhabitat requirements in Canada
11:15	Zachary MacDonald	Messages from island butterflies: distinguishing effects of habitat area and isolation from the sample-area effect
11:30	Andreas Fischer	Intrasexual conflict - female false black widow spiders sense, and behaviorally and physically respond to, female conspecific sex pheromone

10:15 AM - 11:45 AM EST

President's Prize Talks, Pest Management I. [Concurrent session]

Moderator: Carolyn Davies

Time	Speaker	Title
10:15	Paige Desloges Baril	Exploring Native Predatory Hemipteran Species for Use as Biological Controls in Canadian Vegetable Production
10:30	Thanusha Suresh	Pheromone and host plant odor detection in spruce budworm, <i>Choristoneura fumiferana</i>
10:45	Allen Bush-Beaupré	Comparing the Reproductive Behavior and Life-History Strategies of the Seedcorn Maggot's (<i>Delia platura</i>) H- and N-lines
11:00	Diana Fernandez	Cold tolerance of the pepper weevil (<i>Anthonomus eugenii</i>) in non-acclimated and acclimated laboratory populations
11:15	Kenneth Dearborn	Fraxinus foliage: does host species for maturation feeding alter the fecundity of emerald ash borers?
11:30	Victoria Ivey	Molecular and neural plasticity in the sex pheromone response of the corn earworm (<i>Helicoverpa zea</i>)

10:15 AM - 11:45 AM EST

President's Prize Talks, Diversity and Taxonomy. [Concurrent session]

Moderator: Nadia Tsvetkov

Time	Speaker	Title
10:15	Denis Boudreau	Niche and metacommunity dynamics of sympatric <i>Calliphoridae</i> species competing for animal necromass
10:30	Valentine Glaus	Host-parasitoid communities in spruce budworm endemic stages of two long-term studied sites
10:45	Alexandre Loureiro	Beetle diversity and elevation: what do we

really know?

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|-------|-----------------|--|
| 11:00 | Marlee-Ann Lyle | Molecular Detection of Cyclamen Mite (<i>Phytonemus pallidus</i>) in Strawberry |
| 11:15 | Nora Romero | <i>Liphanthus</i> (Hymenoptera: Andrenidae: Panurginae): a South American bee genus with numerous undescribed species. |
| 11:30 | Ferf Brownoff | New taxonomic records for the spider fauna of New Caledonia, including families, genera, and a species description |

11:45 AM - 12:00 PM EST
Break.

12:00 PM - 1:00 PM EST

Heritage Lecture.

Prof. Lisa Myers, York, University.

Reinscribing Land: Mike MacDonald's Medicine and Butterfly Gardens.

Moderator: Sheila Colla

1:00 PM - 1:30 PM EST

Lunch Break.

1:30 PM - 3:00 PM EST

President's Prize Talks, Agroecology. [Concurrent session]

Moderator: Nadia Tsvetkov

Time	Speaker	Title
1:30 PM	Claudine Desroches	<i>Ceutorhynchinae</i> assemblage in canola agroecosystem of Quebec
1:45 PM	Caitlin MacDonald	Occurrence and Host Range of the Brown Marmorated Stink Bug Parasitoid <i>Trissolcus japonicus</i> in Ontario, Canada
2:00 PM	Aleksandra Dolezal	Re-designing agricultural landscapes: The effect of habitat on arthropod communities
2:15 PM	Sabrina Rondeau	Sublethal effects of single and combined realistic exposure to pesticides used on squash crops on a ground-nesting solitary squash bee (<i>Eucera pruinosa</i>)

2:30 PM	Maggie MacDonald	Ground beetles: diversity and dimorphism in pulse agroecosystems
2:45 PM	Jade Sherwood	Invasive and Inevitable: Parasitoid phenology and host density of <i>Anthonomus rubi</i> in their native range

1:30 PM - 3:00 PM EST

President's Prize Talks, Pest Management II. [Concurrent session]

Moderator: Carolyn Davies

Time	Speaker	Title
1:30 PM	Saif Nayani	Microbe-mediated attraction of stable flies to host cattle
1:45 PM	Emmanuel Hung	Conductive and convective heat, but not infrared radiation, mediates stable fly alighting and probing response on thermally different targets
2:00 PM	Dylan Sjolie	The effect of early season temperature on adult life history traits of the wheat stem sawfly <i>Cephus cinctus</i> (Hymenoptera: Cephidae) and <i>Bracon cephi</i> (Hymenoptera: Braconidae)
2:15 PM	Jessica Fraser	Manipulating parasitoid behaviour with LED greenhouse lighting to improve biocontrol of aphids
2:30 PM	Rachel Pizante	Effects of canola bloom, floral availability, and field margin type on hover fly abundance, species richness, and species composition in canola crops in the Aspen Parkland
2:45 PM	Irene Jimenez	Local effects of herbaceous versus treed field margins on abundance and movement of ground beetles and spiders into and out of canola fields in Aspen Parkland.

1:30 PM - 3:00 PM EST

President's Prize Talks, Social Insects. [Concurrent session]

Moderator: Ida Conflitti

Time	Speaker	Title
1:30 PM	Zach Balzer	A novel anti-social response to CO2 narcosis in a subterranean termite: implications for studies of kin recognition
1:45 PM	Kathryn Galang	The molecular basis of altruistic and selfish aggression in honey bees
2:00 PM	Asim Renyard	Good vibrations: the role of multimodal pheromone and vibratory communication in Western carpenter ants
2:15 PM	Jessie deHaan	The ecological and physiological consequences of sun vs. shade nesting for the small carpenter bee, <i>Ceratina calcarata</i> , and their offspring.
2:30 PM	Kathleen Dogantzis	The adaptive radiation of the European Honey bee (<i>Apis mellifera</i>)
2:45 PM	Jaime Mathew Chalisery	Identification of the Trail Pheromone of the Pavement Ant <i>Tetramorium immigrans</i> (Hymenoptera: Formicidae)

3:00 PM - 3:15 PM EST

Break.

3:15 PM - 5:30 PM EST

Graduate Student Symposium

Moderator: Matt Muzzatti, Rowan French.

Time	Speaker	Title
3:15 PM	Introduction	
3:20 PM	Rachel Rix	Phenotypic and molecular response in a beneficial insect predator stimulated by mild stress
3:50 PM	Antonia Musso	Induced and long-term terpene responses to mountain pine beetle mass attack in

lodgepole and jack pines.

4:20 PM Break

4:30 PM Matthew Meehan From individuals to communities: The effect of climate change on ectothermic predators

5:00 PM Asha Wijerathna Interactions of pea leaf weevil (Coleoptera: Curculionidae) with its primary and secondary host plants in Alberta.

5:30 PM - 5:45 PM EST
Break.

5:45 PM - 6:30 PM EST
JAM Social

Tuesday, November 16, 2021

9:30 AM - 11:45 AM EST

**Symposium. Share vision: Bridging community engagement, entomology, and research
[Concurrent session]**

Organizers and Moderators: Sabrina Rondeau, Véronique Martel , Valérie Fournier, Morgan Jackson, Catherine Scott

Time	Speaker	Title
9:30 AM	Victoria MacPhail	Community science in action - Bumble Bee Watch program is fun and educational for participants, helps to fill knowledge gaps, and supports conservation efforts
9:45 AM	Sage Handler	Studying the backyard bee-cosystem: using community science to investigate cavity-nesting bees across Canada
10:00 AM	Amelie Gervais	Combining citizens's passion and scientists' knowledge: the winning story of Abeilles citoyennes
10:15 AM	Rodrigo Solis Sosa	eButterfl-AI: how machine learning improves citizen science data quality.
10:30 AM	Spencer Monckton	Elm zigzag sawfly: a case study in detecting species introductions using social media and

community science

- 10:45 AM Justin Schell Unleashing Community Science Power with Notes from Nature and MI-Bug
- 11:00 AM Morgan Jackson Are More Eyes Better? The Faunistic Advantages of Canada's iNaturalist Community
- 11:15 AM Maya Evenden A new Massive Open Online Course (MOOC): Bugs 101, Insect-Human Interactions
- 11:30 AM Q&A

9:30 AM - 11:45 AM EST

Symposium. Diversity of semiochemical-based pest management.

[Concurrent session]

Organizers and Moderators: Maya Evenden, Boyd Mori

Time	Speaker	Title
9:30 AM	Gerhard Gries	Semiochemicals for detection of foes and guidance of friends
9:45 AM	Kirk Hillier	Development of natural products for management of acarine pests
10:00 AM	Nicoletta Faraone	Chemical ecology of ticks: olfaction, behaviour, chemistry and control
10:15 AM	Jeremy Allison	Origami, Trap Development and Survey and Detection of Forest Insects
10:30 AM	Rylee Isitt	Using semiochemicals to predict invasion potential of exotic bark beetles
10:45 AM	Maya Evenden	Semiochemical recruitment of parasitoids to ash trees infested with <i>Caloptilia fraxinella</i> (Lepidoptera: Gracillariidae).
11:00 AM	Rebecca Hallett	Pheromone-based management of the swede midge
11:15 AM	Boyd Mori	Identification of the sex pheromone of <i>Contarinia brassicola</i> , a newly described canola pest
11:30 AM	Don Thomson	Codling Moth Mating Disruption: Still Crazy

After All These Years

9:30 AM - 11:45 AM EST

Contributed Talks: Insect Diversity

Moderators: Nadia Tsvetkov, Kathryn Galang

Time	Speaker	Title
9:30 AM	Louka Tousignant	Effects of landscape-scale conservation on forest beetle assemblages in late successional stages of a secondary forest.
9:45 AM	Anthony Zerafa	Ecological monitoring of terrestrial arthropods on Umingmat Nunaat/Axel Heiberg Island, in high Arctic Canada
10:00 AM	Jocelyn Armistead	A comparison of <i>Bombus</i> collection methods for detecting trends in species abundance
10:15 AM	Kaitlyn Fleming	Range updates and extensions of Carabidae (Coleoptera) in Ontario's Boreal Forest
10:30 AM	Break	
10:45 AM	Heather Proctor	Variation in ectosymbiont assemblages of Rock Pigeons across Canada
11:00 AM	Kevin Judge	Tracking an invader: Roesel's katydid in Alberta
11:15 AM	Leah Flaherty	Impact of an invasive and allelopathic weed on below-ground oribatid mite communities
11:30 AM	Seung-II Lee	Trends in recovery of beetles and spiders after variable retention harvesting in boreal forests: evidence from the Ecosystem Management Emulating Natural Disturbance (EMEND) experiment.

11:45 AM - 12:00 PM EST

Break.

12:00 PM - 1:00 PM EST

Keynote Lecture.

Dr. Jayne Yack, Carleton University.

What does an Insect Hear?

Moderator: Miriam Richards.

1:00 PM - 1:15 PM EST

Break.

1:15 PM PM - 2:15 PM EST

Career Panel 1 - MSc Students

Panelists: Sam Knight, Antonia Guidotti, Alexandra Dacey, Graham Ansell

Moderators: Marlee-Ann Lyle, Aleksandra Dolezal

2:15 PM - 2:30 PM EST

Break.

2:30 PM - 4:00 PM EST

Symposium. Innovative and Collaborative Approaches to Conserving Canada's At-risk Butterflies. [Concurrent session]

Organizers and Moderators: Jessica Linton

Time	Speaker	Title
2:30 PM	Jaret Daniels	At-Risk Butterfly Recovery Efforts: A look at the big picture of small organism Conservation
3:00 PM	Nusha Keyghobadi	Genetics to inform conservation of at-risk butterflies
3:15 PM	Erik Runquist	Butterflies across Borders: Fostering international conservation
3:30 PM	Adrienne Brewster	Collaborative Efforts to Recover the Endangered Mottled Duskywing Butterfly in Ontario
3:45 PM	Jennifer Heron	Taylor's Checkerspot: successes, challenges and future work for an endangered butterfly in British Columbia, Canada

2:30 PM - 4:00 PM EST

General talks: Genetics and Genomics [Concurrent session]

Moderator: Kathryn Galang

Time	Speaker	Title
2:30 PM	Sandrine Picq	Identifying the geographic origins of intercepted gypsy moth (<i>Lymantria dispar</i>) specimens using genotyping-by-sequencing (GBS)-derived SNPs
2:45 PM	Arshad Imrit	Bees in the six: Determinants of bumblebee habitat quality in urban landscapes
3:00 PM	Ida Conflitti	BeeCSI: tools for assessing bee health
3:15 PM	Aidan Jamieson	Development of diagnostic tools for neonicotinoid exposure in the western honey bees (<i>Apis mellifera</i>) using transcriptomics
3:30 PM	Break	
3:45 PM	Break	

2:30 PM - 4:00 PM EST

General talks: Taxonomy and Systematics [Concurrent session]

Moderators: Carolyn Davies

Time	Speaker	Title
2:30 PM	Julie-Éléonore Maisonhaute	Diversity of Arthropods Associated with Human Remains during the Summer and Fall Seasons in Quebec
2:45 PM	Pat Bouchard	Review of genus--group names in the family Tenebrionidae (Insecta: Coleoptera)
3:00 PM	Kelly Murray-Stoker	Assessing effects of urbanization on caddisfly assemblages within a regional context using community science
3:15 PM	Tomislav Terzin	<i>Pachyrhynchini</i> weevils as mimics of Salticidae and Gnaphosidae spiders
3:30 PM	Joel Gibson	New perspectives on Marine Insects

3:45 PM Break

4:00 PM - 4:15 PM EST
Break.

4:15 PM - 5:15 PM EST

Keynote Lecture.

Dr. Maydianne Andrade, University of Toronto.

Bias and Inclusion in Practice.

Moderators: Catherine Scott, Amro Zayed.

5:15 PM - 5:30 PM EST

Break.

5:30 PM - 6:30 PM EST

Poster Session

Presenter	Poster Title
Samara Andrade	The influence of sex pheromones in the reproductive isolation of <i>Monochamus</i> spp. in Ontario
Hector Carcamo	Parasitism of lygus and alfalfa plant bugs by <i>Peristenus</i> wasps in southern Alberta, Canada.
Natali Demers	Slug-like aphids, the disruptive effect of vibrations on the offspring of the green peach aphid <i>Myzus persicae</i>
Emily Glasgow	A genetic analysis of the distribution of pheromone races of the European corn borer, <i>Ostrinia nubilalis</i> (Hübner), in Canada
Sara Khan	Vibration mediated predator avoidance in the eastern tent caterpillar (<i>Malacosoma americanum</i>)
Sarah Koerte	Investigating the semiochemistry underlying host selection and oviposition of <i>Mythimna unipuncta</i>
Genevieve Labrie	Feeding preference of squash bugs in cucumber greenhouses in Québec
Sam Luik	Economic implications of reducing monetary and time costs in testing for honeybee stressors through the framework of a stress-structured model for colony dynamics in a single hive.
Mateus Pepinelli	Vitellogenin expression tracks age of honeybee workers.
Mireia Sola Cassi	Effects of intensive crop management on the diversity and abundance of species in three fruit crop productions of

Quebec

Aija White Where's the baseline? Using DNA barcoding to inventory native pollinators in agroecosystems in Central British Columbia, Canada

Taeyoon You The genomics of protein expression in honey bees

Wed, November 17, 2021

9:30 AM - 12:45 PM EST

Symposium. A new vision for biological control in Canada. [Concurrent session]
Organizers and Moderators: Rosemarije Buitenhuis, Chris Macquarrie, Roselyne Labbe

Time	Speaker	Title
9:30 AM	Lucas Roscoe	Investigations into biological control for the hemlock woolly adelgid in Eastern Canada
9:45 AM	Jon Sweeney	Feasibility of biological control of the beech leaf-mining weevil, <i>Orchestes fagi</i> , in Canada
10:00 AM	Francois Dumont	Efficacité d'une guildes de prédateurs généralistes indigènes dans la lutte aux ravageurs du concombre de serre.
10:15 AM	Sandy Smith	Biological control of invasive plants in the restoration of forest ecosystems
10:30 AM	Rosemarije Buitenhuis	<i>Anystis baccarum</i> , a new Canadian predator for greenhouse IPM programs
10:45 AM	Noémie Gonzalez	Oviposition strategy of the American hoverfly <i>Eupeodes americanus</i> (Diptera : Syrphidae) and comparison with the commercialized <i>Aphidoletes aphidimyza</i> (Diptera: Cecidomyiidae) : Effect of aphid density and plant type.
11:00 AM	Break	
11:15 AM	Serena Leo	Evaluating the parasitoid <i>Jaliscoa hunteri</i> as a biological control agent for the pepper weevil (<i>Anthonomus eugenii</i>) on greenhouse pepper crops
11:30 AM	Chris Macquarrie	Impact of biological control agents on Canadian emerald ash borer populations
11:45 AM	Paul Abram	Unsuccessful attack by native parasitoids and

		unintentional biocontrol by exotic parasitoids: the story of brown marmorated stink bug parasitoids in Canada
12:00 PM	Michelle Franklin	A first step: exploration of biocontrol agents for the newly established strawberry blossom weevil, <i>Anthonomus rubi</i>
12:15 PM	Brian Van Hezewijk	The role of native generalist predators in controlling populations of forest pests
12:30 PM	Chandra Moffat	Rethinking biological control programs as planned invasions

9:30 AM - 12:45 PM EST

General talks: Ecology and Evolution. [Concurrent session]

Moderators: Carolyn Davies , Kathleen Dogantzis

Time	Speaker	Title
9:30 AM	Marie D'Ottavio	Landscape effects on <i>Trichomalus perfectus</i> , a key parasitoid of the cabbage seedpod weevil (<i>Ceutorhynchus obstrictus</i>) in canola in Quebec (Canada)
9:45 AM	Carlos Barreto	Experimental warming decreases carbon and nitrogen fluxes in soil food webs of boreal peatlands
10:00 AM	Amanda Roe	Host plant and environmental structuring of forest tent caterpillar genomic variation.
10:15 AM	Sarah MacKell	Assessing the impacts of urban beehives on wild bees using individual, community, and population-level metrics
10:30 AM	Michael McTavish	First explorations of the distribution and life history of tumbling flower beetles <i>Mordellina ancilla</i> (Coleoptera: Mordellidae) on invasive garlic mustard (<i>Alliaria petiolata</i>) across southern Ontario
10:45 AM	Break	
11:00 AM	Sarah French	The risks of crop exposure to honey bee colonies
11:15 AM	Shayla Storozuk	Potential of carabidae and lycosidae predators to consume flea beetles and reduce canola damage

11:30 AM	Maxime Damien	Landscape mediates flea beetle infestation levels in canola crops across Canadian prairies
11:45 AM	Rob Bouchier	Development of rearing and release methods for biological control agents of introduced Phragmites in Ontario.
12:00 PM	Break	
12:15 PM	Break	
12:30 PM	Break	

9:30 AM - 12:45 PM EST

General talks: Pest Management [Concurrent session]

Moderators: Ida Conflitti

Time	Speaker	Title
9:30 AM	Christine Noronha	Surveillance Of Click Beetle (Coleoptera: Elateridae) Populations Across Prince Edward Island, Canada
9:45 AM	Cyrane Pouet	Mating disruption to control two major cranberry pests in Quebec - Lutte par confusion sexuelle pour lutter contre deux ravageurs principaux de la canneberge au Québec
10:00 AM	Alice De Donder	Impact of novaluron and chlorantraniliprole on the aphidophagous guild of the green apple aphid in an apple orchard
10:15 AM	Daniel Peck	Insecticidal Peptides: Primer on a New Technology Yielding Novel Tools for Pest Management
10:30 AM	Susan Willis Chan	Evaluating dispenser design for delivery of biocontrol agents by honey bees (<i>Apis mellifera</i>).
10:45 AM	Break	
11:00 AM	Jacob Basso	The sterile insect technique as a novel tool for control of pepper weevil (<i>Anthonomus eugenii</i> Cano) in greenhouse and field pepper crops
11:15 AM	Vincent Hervet	Development of stored product insects on canola seeds
11:30 AM	Daniel Wiens	Using black soldier fly larvae to reclaim and

- concentrate nutrients from Fusarium head blight infected wheat
- 11:45 AM Sharavari Kulkarni Functional response of generalist predators on diamondback moth, *Plutella xylostella* (Lepidoptera: Plutellidae)
- 12:00 PM Tyler Wist Field Heroes: the crop protectors standing firm against the invaders
- 12:15 PM Break
- 12:30 PM Break

12:45 PM - 1:00 PM EST
Break.

1:00 PM PM - 2:00 PM EST

Career Panel 1 - PhD Students

Panelists: Sarah Jandric, Jeremy deWaard, Lauren Timms, Andrew Young.

Moderators: Marlee-Ann Lyle, Aleksandra Dolezal

2:00 PM - 2:15 PM EST
Break.

2:15 PM - 3:15 PM EST

Keynote Lecture.

Dr. Claire Kremen, UBC.

Pollinators as ambassadors for diversifying farming systems

Moderator: Amro Zayed.

3:15 PM - 3:30 PM EST
Break.

3:30 PM - 4:30 PM EST

Town Hall with ESC EDI committee.

Panelists: Sebastian Ibarra Jimenez, Catherine Scott, Boyd Mori, Kyle Bobiwash.

Moderator: Amro Zayed.

4:30 PM - 4:45 PM EST
Break.

4:45 PM - 5:00 PM EST

ESC Award Ceremony

Moderators: Felix Sperling, Bill Riel

5:00 PM - 5:45 PM EST

Gold Medal Lecture.

Michael Cusson, National Resources Canada.

The challenges and rewards of pursuing parallel paths of entomological enquiry.

Moderator: Bill Riel.

5:45 PM - 6:15 PM EST

Break

6:15 PM - 7:15 PM EST

JAM Social.

Thursday, November 18, 2021

9:30 AM - 12:45 PM EST

Symposium. Biodiversity of insect pests in Canada: How to monitor and manage them?

[Concurrent session]

Organizers and Moderators: Julien Saguez, Tyler Wist

Time	Speaker	Title
9:30 AM	Shaun Dergousoff	Expansion into new geography by migration of dog and deer ticks
9:45 AM	Douglas Hume	Two adventive species of European Chrysomelidae (Coleoptera) new to North America and where do non native leaf beetles come from?
10:00 AM	Jeremy McNeil	Can stable isotopes data help develop more effective management programmes for migratory pest species?
10:15 AM	Julien Saguez	Insect pest monitoring using automated and connected traps
10:30 AM	Ian MacRae	Of aphids, PVY and suction (traps that is)
10:45 AM	Emily Lemke	Investigating mechanisms of reproductive isolation between <i>Limonius congeners</i> (Coleoptera: Elateridae) and testing of “catch-all” click beetle pheromone lures
11:00 AM	Break	
11:15 AM	Kendal Singleton	Identification of sex pheromones of two Nearctic <i>Agriotes</i> species (Coleoptera: Elateridae)

11:30 AM	Richard Hamelin	BioSurveillance of Alien Forest Enemies: the BioSAFE initiative
11:45 AM	Karolina Pusz-Bochenska	Genetics of a perennial invader. Aster leafhoppers and their yearly migration.
12:00 PM	Meghan Vankosky	The role of the Prairie Pest Monitoring Network in biovigilance: Annual monitoring and model development for invasive insects
12:15 PM	Tracey Baute	The Great Lakes and Maritimes Pest Monitoring Network; Collaboration Across Borders to Strengthen Surveillance of Shared Pest Issues
12:30 PM	John Gavloski	Predator turns pest: A multispecies aphid invasion into Manitoba and response of the multicoloured Asian lady beetle.

9:30 AM - 12:45 PM EST

Symposium. Recent progress in Insect Physiology [Concurrent session]

Organizers and Moderators: Jean-Paul Paluzzi

Time	Speaker	Title
9:30 AM	Leena Thorat	Role of a heterodimeric glycoprotein hormone receptor on <i>Drosophila</i> excretory system in response to desiccation stress
9:45 AM	Heath MacMillan	Does basal cold tolerance constrain plasticity in individual <i>Drosophila</i> ?
10:00 AM	Marshall Ritchie	Physical transformation of microplastics ingested by a cricket, <i>Grylodes sigillatus</i>
10:15 AM	Serita Fudlosid	Developmental Effects of Microplastic Ingestion on the Tropical House Cricket <i>Grylodes sigillatus</i>
10:30 AM	Patricia Okpara	Investigating microbial effects on the life-history traits and waste reduction capability of the black soldier fly <i>Linnaeus</i> (Diptera: Stratiomyidae)
10:45 AM	Simon Legault	Diapause induction in two exotic parasitoids of the invasive spotted wing <i>Drosophila</i> : Could they survive our cold Canadian winters?

11:00 AM	Break	
11:15 AM	Andrea Durant	Ammonia transport in the excretory organs of the disease-vector mosquito <i>Aedes aegypti</i> : functional characterization using RNAseq, RNAi, and electrophysiology
11:30 AM	Jimena Leyria	Role of insulin/ToR signalling in female reproduction of <i>Rhodnius prolixus</i> , a vector of Chagas disease
11:45 AM	Farwa Sajadi	The role of the V-type H ⁺ -ATPase in Malpighian tubule secretion in the female mosquito, <i>Aedes aegypti</i>
12:00 PM	Rhonda Thygesen	The Blueberries and the Bees: Assessing Honey Bee Health Stressors Using Proteomics
12:15 PM	Sam Meraj	Time- and tissue-specific antimicrobial activity of common bed bugs in response to blood feeding and immune activation by bacterial injection
12:30 PM	Q&A	

9:30 AM - 12:45 PM EST

Symposium. General talks: Behaviour. [Concurrent session]

Moderators: Carolyn Davies , Kathleen Dogantzis

Time	Speaker	Title
9:30 AM	Gard Otis	Defensive behaviours of Asian honey bees (<i>Apis cerana</i>) against attacking murder hornets (<i>Vespa soror</i>)
9:45 AM	James Mesich	Effect of Social Status on Aggression in a Facultatively Social Bee (<i>Xylocopa virginica</i>)
10:00 AM	Samm Reynolds	Investigating the effects of local natural habitats on the abundance and diversity of native fly and bee pollinators in Norfolk County, Ontario
10:15 AM	Lyllian Corbin	Mate competition and territoriality in male eastern carpenter bees (<i>Xylocopa virginica</i>)
10:30 AM	Jean-Philippe Parent	Are cozy aphids less likely to be disrupted by substrate-borne vibrations?
10:45 AM	Break	

- 11:00 AM Lyndon Duff Maternal investment patterns in a facultatively social bee showing that socially dominant females forage more than solitary females
- 11:15 AM Berenice Romero One or too many choices? Oviposition, development, and settling of Aster leafhoppers on a variety of plant hosts
- 11:30 AM Franklin Dubon Garcia Natural enemies associated with *Grapholita molesta* (Busk) (Lepidoptera: Tortricidae) in Ontario, Canada
- 11:45 AM Olav Rueppell Hygiene-eliciting brood semiochemicals as a tool for assaying honey bee (Hymenoptera: Apidae) colony resistance to *Varroa* (Mesostigmata: Varroidae)
- 12:00 PM Syed Asad Field trapping bumble bee wax moths (*Aphomia sociella*) to help protect bumble bee colonies.
- 12:15 PM Break
- 12:30 PM Break
- 12:45 PM - 1:30 PM EST
Break.
- 1:30 PM - 2:30 PM EST
Keynote Lecture.
Dr. Amanda Moehring, Western University.
Sorry, not sorry: the neural basis of aggression in *Drosophila* females
Moderator: Amro Zayed.
- 2:30 PM - 2:45 PM EST
Break.
- 2:45 PM - 3:30 PM EST
Student Awards and Closing Ceremonies.