

48TH ONTARIO ECOLOGY, ETHOLOGY, AND EVOLUTION COLLOQUIUM



MAY 10TH – 12TH, 2018
WESTERN UNIVERSITY



PROGRAM & SCHEDULE

TABLE OF CONTENTS

WELCOME.....	3
ORGANIZING COMMITTEE.....	4
GENERAL INFORMATION	
REGISTRATION.....	5
PRESENTATION INFO.....	5
PARKING.....	5
TOURS.....	6
CAMPUS MAP.....	7
ON-CAMPUS VENUES.....	8–10
ON-CAMPUS FORAGING MAP.....	11
OFF-CAMPUS FORAGING.....	12
OFF-CAMPUS EXPLORING.....	13
PLENARY SPEAKERS	
1. DR. JULIE MEROND-FERRON.....	14
2. DR. JP XU.....	15
3. DR. JEREMY MCNEIL.....	16
CONFERENCE SCHEDULE	
THURSDAY.....	17
FRIDAY.....	17
SATURDAY.....	18
SESSION SCHEDULES	
FRIDAY.....	19–22
SATURDAY.....	23–26
POSTER PRESENTATIONS	27–28
ACKNOWLEDGEMENTS.....	29
NOTE PAGES.....	30–32

WELCOME SCIENCE NERDS!



Welcome to The Ontario Ecology, Ethology, and Evolution Colloquium (OE3C) of 2018, hosted by Western University's Biology Graduate Students. This annual event is the largest graduate student-organized biology/psychology event in Ontario, and this year marks the 48th anniversary! This event is open to all students and faculty across Ontario, and any members of the community interested in science.

This year, we will be hosting a poster session, and eight different talk sessions. We have research spanning many different taxa; birds, mammals, insects, fungi, plants, microorganisms and more! We are also excited to have Dr. Julie Merond-Ferron, Dr. JP Xu, and Dr. Jeremy McNeil as plenary speakers.

Western Science has many resources to discover & explore: we have open houses at Western's Zoological Collection, which houses thousands of animal specimens spanning multiple taxa, and Western's Herbarium that includes over 42,000 dried plants! Dr. Nina Zitani and Dr. Greg Thorn (our Zoological Collection and Herbarium curators, respectively) will be on site to answer any of your burning questions! We also have tours of Western's Advanced Facility for Avian Research (AFAR) that houses a one-of-a-kind hypobaric climatic wind tunnel!

We hope to create an environment that allows everyone to feel accepted & welcome. Our main objective was to create an event that celebrates diversity and provides everyone the chance to share their research and create long-lasting networking connections.

Of course, we must thank our sponsors for making this event possible. On behalf of the 2018 organizing committee, we welcome all to OE3C circa 2018 and hope you enjoy your stay at Western University.

Sincerely,

Andrea Boyer & Ricky Kong

OE3C 2018 Co-Chairs & Executive Organizers





ORGANIZING COMMITTEE

Your OE3C 2018 organizational team:

Ricky Kong • Chairperson

Andrea Boyer • Chairperson

Jeff Martin • Website & Social Media

Matheus Sanita Lima • External Funding & Support

Lauren Witterick • Funding & Support

Nicole Zathey • Funding & Support

Tosha Kelly • Logo Design, Abstract Submission, & Program

Renée Howard • Funding, Administration, & Program

Brendon Samuels • Logo Design, Merchandise Design

Curtis Lubbe • Media



GENERAL INFORMATION



REGISTRATION

Registration will be open...

Thursday: 5:00 pm – 8:00 pm

Friday: 8:00 am – 6:30 pm

Saturday: 8:00 am – 4:30 pm

... in the North Campus Building Atrium

Registration for OE3C 2018 includes access to all plenary speakers, contributed talks and posters, a conference program, tote bag, light breakfast, lunch, snacks during the poster session, coffee and snacks during coffee breaks, and admission to social events.

PRESENTATION INFO

ORAL PRESENTATIONS

Standard talks will be 12 minutes, with 2 minutes for questions and lightning talks will be 5 minutes with 1 minute for questions. Standard and widescreen formatted talks will be supported and we will be using a Windows platform to display the presentations. Presenters are to arrive 30 minutes before their session to upload their presentation, which they will provide on a USB stick.

POSTER PRESENTATIONS

Poster boards will not support posters that are larger than 4 feet wide and 4 feet tall. Poster boards will be up for the entire duration of the conference (can go up at the presenter's convenience) and we will provide presenters with a method to secure posters to the boards. Presenters are expected to be present at their posters for the full two-hour poster period.

PARKING

For visitors not staying in residence, parking will be available in the Medway Lot for \$12 per day, or \$3 per hour. On Saturday there is no charge for parking.



GENERAL INFORMATION (CON'T)

TOURS

WESTERN'S ADVANCED FACILITY FOR AVIAN RESEARCH (AFAR)

Required intent to attend upon registration for a guided tour of our world-class research facility for interdisciplinary studies of bird physiology, neurobiology and behaviour. For more details of the research taking place at AFAR, please visit AFAR's website: birds.uwo.ca.

Along the guided tour you will learn how we have adapted our research environment to fit the needs of our ideal study organism: avian-adapted environmental chambers, behavioural observation, acoustic chambers, diet preparation, and our one-of-a-kind hypobaric climatic wind tunnel.

Sounds neat, sad you missed out? Contact Jeff Martin (rmarti88@uwo.ca) to see if space is still available.

WESTERN'S HERBARIUM AND ZOOLOGICAL COLLECTION

DROP IN ANYTIME ON SATURDAY MAY 12 BETWEEN 10:00 AM AND 3:00 PM
BIOLOGICAL AND GEOLOGICAL SCIENCES BUILDING (BGS) 0124

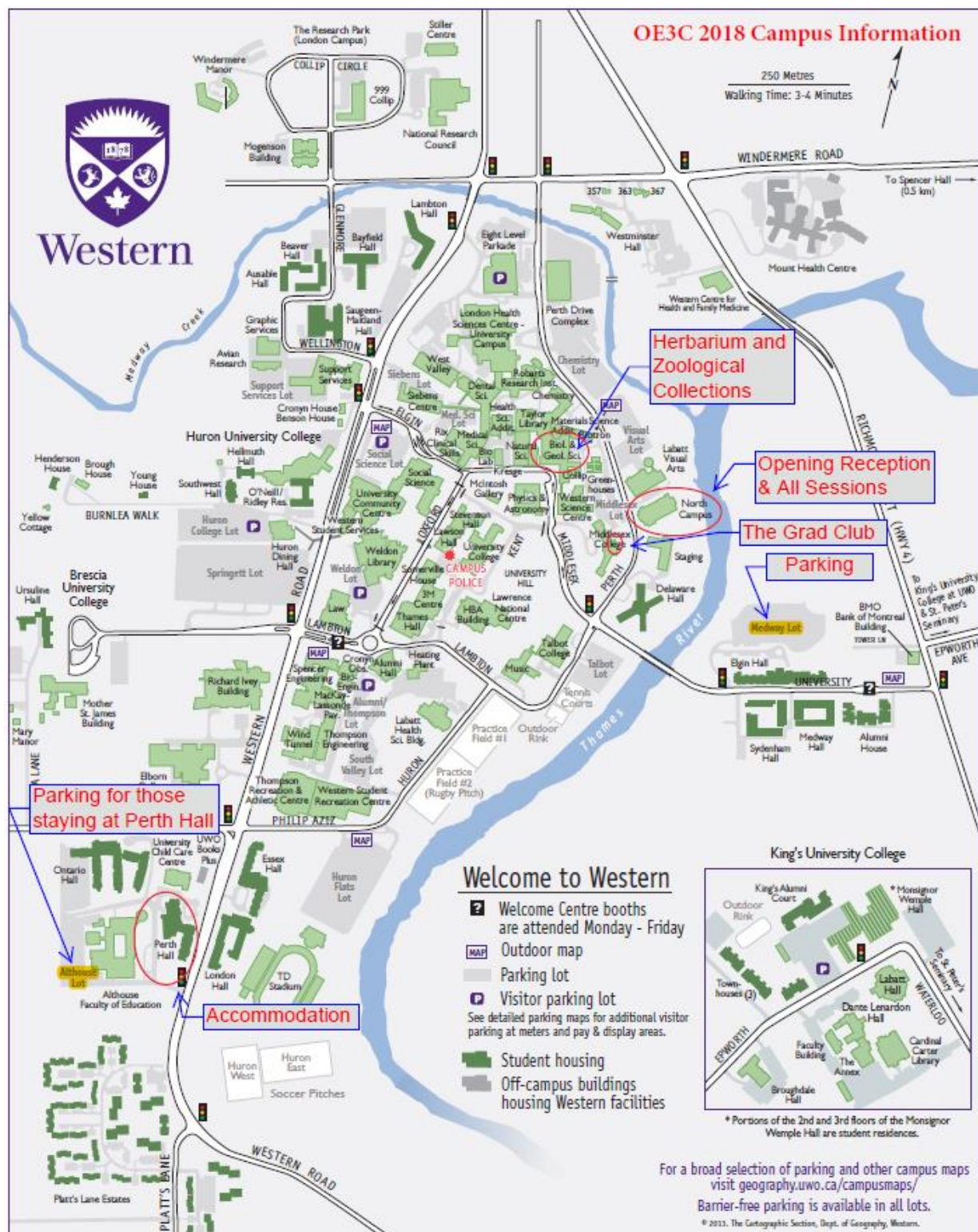
Our Herbarium, founded in 1919, comprises over 42 000 specimens of vascular plants and several thousand specimens of *Crataegus* (Rosaceae) from all of North America. We have partnerships with Carolinian Canada to produce educational and outreach material on species and habitats at risk in the Carolinian Zone. Dr. Greg Thorn is the current curator.

Visit the herbarium website for more info:
uwo.ca/biology/research/biology_facilities/herbarium.html

The Zoological Collections contain thousands of animal specimens of many major taxa including Arthropoda (nearly all insect orders, with emphasis on Lepidoptera; Arachnida; Crustacea), Mollusca (shells of marine, freshwater and terrestrial species), Echinodermata, and Vertebrata (whole mounted skeletons, skulls, taxidermy of birds and mammals). Dr. Nina Zitani maintains the collections and selects specimens to be featured in the rotating Biodiversity Gallery.

Visit the gallery blog for recent outreach events and more info:
http://atwestern.typepad.com/zoological_collections/

CAMPUS MAP





ON-CAMPUS VENUES

NORTH CAMPUS BUILDING (NCB)



Registration, oral presentations, and poster presentations take place here.

THE GRAD CLUB



Middlesex College (Room 19). Friday's Social & Trivia takes place here.

ON-CAMPUS VENUES (CON'T)



WESTERN'S ADVANCED FACILITY FOR AVIAN RESEARCH (AFAR)



If requested upon registration, this is the building tours will take place in.

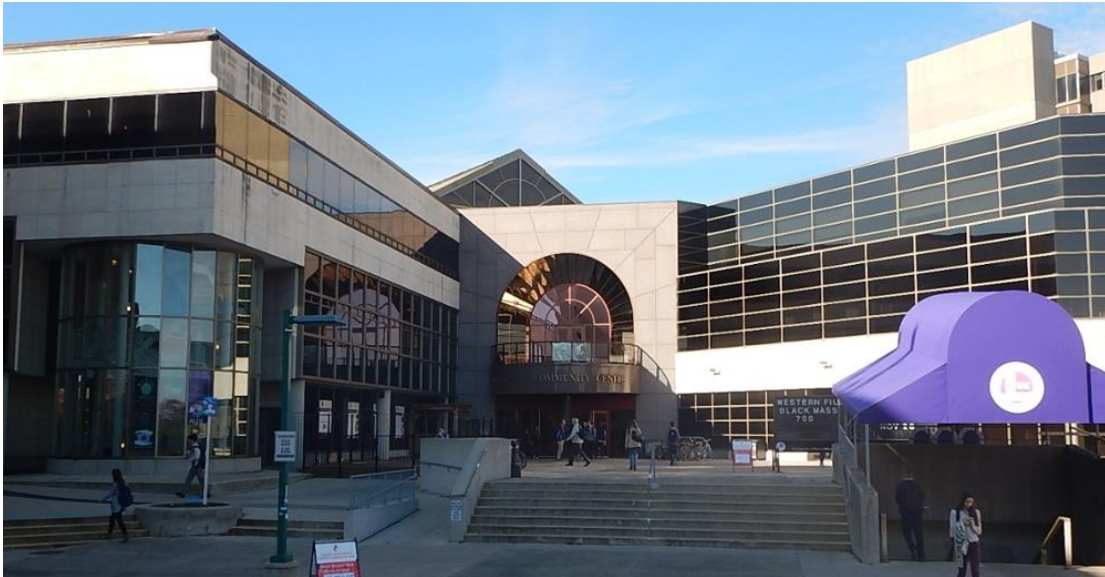
BIOLOGICAL AND GEOLOGICAL SCIENCES BUILDING (BGS)



Homestead for the Herbarium and Biodiversity Gallery tours.

ON-CAMPUS VENUES (CON'T)

UNIVERSITY COMMUNITY CENTER (UCC)



Get your Timmie's fix here or dine-in at our sit-down restaurant, the Wave. Our bookstore is in the lower level (entrance in photo's lower right).

MCINTOSH GALLERY

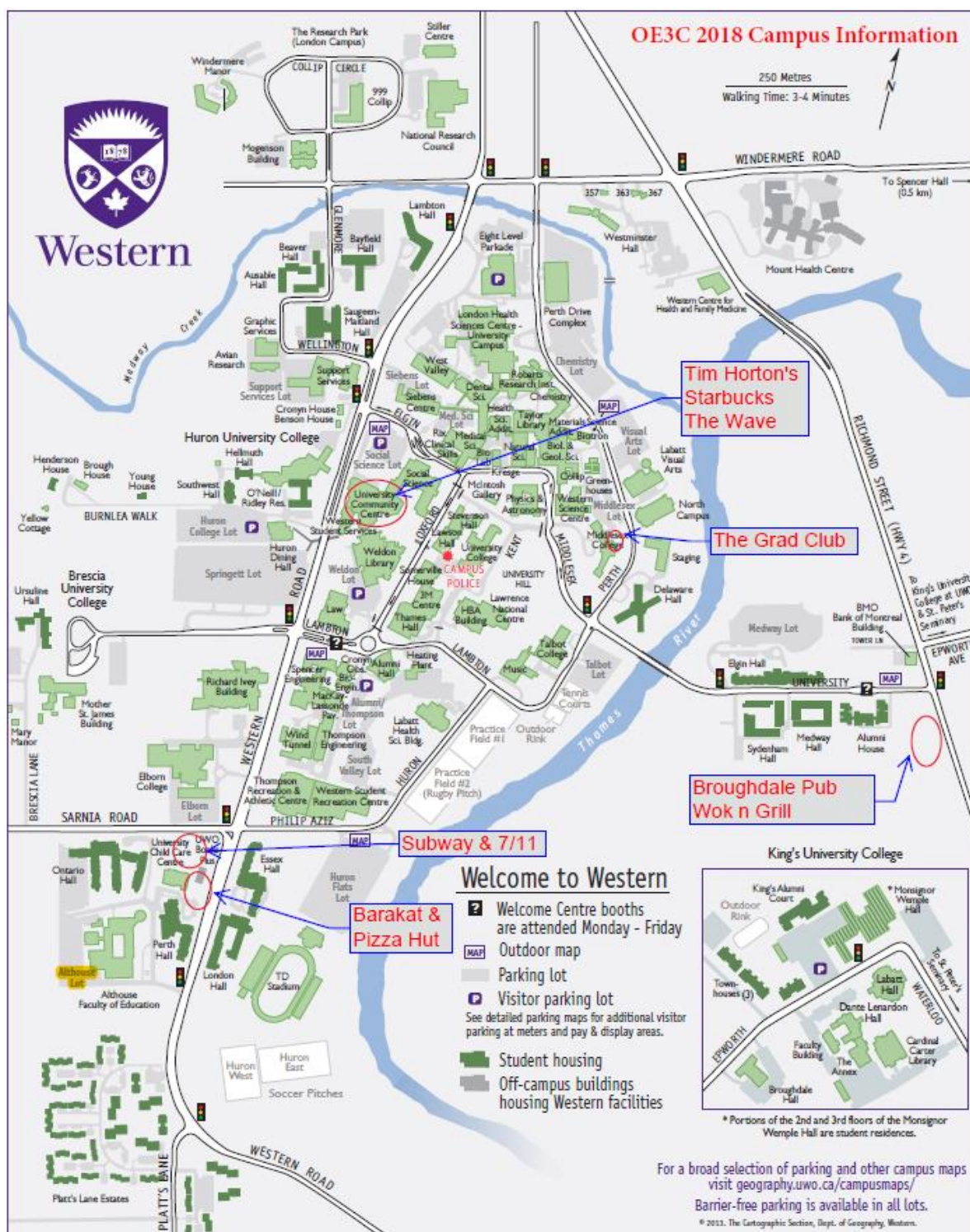


Public art gallery on campus, open for visits!

ON-CAMPUS FORAGING



GRUB ON CAMPUS





GRUB OFF CAMPUS

The Bungalow

910 Waterloo St.

Student favourite, only 3 km from campus.

Downtown Richmond St:

Moly Bloom's Irish Pub & Restaurant

700 Richmond St.

Authentic Irish pub with homestyle food.

Barney's

671 Richmond St.

Go-to student patio for chilling in the sun.

Joe Kool's

595 Richmond St.

Classic sport's pub of London, best panzerottis in town!

The Church Key

476 Richmond St.

Gastropub serving eclectic, refined meals.

Vegan & Vegetarian Options:

The Root Cellar

623 Dundas St.

Farm-to-table, local & organic restaurant full of personality.

Plant Matter Kitchen

717 Richmond St. -or- 244 Dundas St.

Vegan restaurant serving locally sources & organic dishes.

OFF CAMPUS EXPLORING



EXPLORE THE FOREST CITY!

Museum London

421 Ridout St. N

An art and history museum that, for more than 70 years, has preserved, interpreted and shared the story of London, Ontario.

Covent Garden Market

130 King St.

A local farmer's market located in the heart of old downtown:

<http://www.coventmarket.com/>

NEED TO STRETCH THOSE CONFERENCE LEGS?

Thames River Trail

Expands 17.1 kilometers along the Thames River, with access points on Western University's Campus.

Sifton Bog

1210 Oxford St. W

The main feature of this 41.6-hectare public wetland is the floating acid peat bog and associated boreal plant life. Deciduous swamp and upland forest surround the bog.

Warbler Woods

1952-1968 Commissioners Rd. W

This upland deciduous forest covers nearly 29 hectares of rolling hills and steep ravines for scenic hiking, bird watching, and nature appreciation.

Westminster Ponds/ Pond Mills

696 Wellington Rd.

The 200 hectares of land has 10 km of managed trails, weaving around five large kettle ponds.



DR. JULIE MORAND-FERRON
(UNIVERSITY OF OTTAWA)



Dr. Morand-Ferron's research is focused on understanding how cognition is shaped and influenced by the changing environment. Dr. Morand-Ferron and her students use a combination of lab and field techniques, and draw perspectives from the fields of behavioural ecology, cognitive ecology, and evolutionary ecology.

Dr. Morand-Ferron received her B.Sc in Biology from Laval University, before completing her Ph.D. work at McGill University. Dr. Morand-Ferron worked at the University of Quebec, and the University of Oxford before her current appointment as an Associate Professor at the University of Ottawa. Recently Dr. Morand-Ferron was appointed the University Research Chair in Cognitive Ecology.

PLENARY SPEAKERS



DR. JP XU (MCMASTER UNIVERSITY)



Dr. Xu's research is focused on understanding how microbes evolve. Dr. Xu and his students examine the patterns of microbial evolution as well as the mechanisms responsible for those observed patterns. Dr Xu's research scope includes microbial populations from the environment, humans, clinics and laboratories in order to address a variety of issues regarding the the patterns of evolution. Dr Xu incorporates microbiological, molecular, ecological and quantitative genetic techniques into his research.

Dr. Xu obtained his B.Sc. from Jiangxi Agricultural University and M.Sc. from Nanjing Agricultural University, before completing an additional M.Sc. and a Ph.D. at the University of Toronto. Dr. Xu worked at Duke University before joining McMaster. Dr. Xu is currently a full professor.



PLENARY SPEAKERS

DR. JEREMY MCNEIL
(WESTERN UNIVERSITY)



Jeremy N. McNeil received his B. Sc. University of Western Ontario, Canada (1969) and his PhD at North Carolina State University, USA (1972). From 1972-2012 he was a professor at Laval University, Quebec and in 2013 was a Humboldt Fellow at Hamburg University.

Jeremy is now Distinguished University Professor and the H. Battle Professor of Chemical Ecology at the University of Western Ontario. He has an interdisciplinary and international research programme in chemical ecology working in a number of different areas: insect migration, insect-host plant interactions and herbivore-natural enemy interaction. Jeremy has published >200 scientific papers and trained > 50 graduate students.

He has received national and international awards for his research, including the Gold Medal from the Entomological Society of Canada, the Fry Medal of the Canadian Society of Zoologists, the Silver Medal of the International Society of Chemical Ecology and the Delwart Prize in Chemical Ecology (Belgium). He is a Fellow of the Royal Society of Canada and served as the RSC Foreign Secretary from 2010-2017. He has also been elected as a Foreign Fellow of the Guatemalan and Brazilian Academies of Science. In 2014 he was appointed to the Order of Canada for his research and for his dedication to increasing public appreciation of science. In 2016 received the NSERC Award (Individual) for Science Promotion.

CONFERENCE SCHEDULE



THURSDAY, MAY 10TH

4:00 – 6:00 PM	Tours of the Advanced Facility for Avian Research
5:00 – 8:00 PM	Information & Registration open NCB Atrium

Posters may begin going up this evening.

FRIDAY, MAY 11TH

8:00 AM – 6:30 PM	Information & Registration open NCB Atrium	
8:00 – 10:15 AM	Coffee and snacks are provided NCB Atrium	
8:30 – 8:45 AM	Welcome & Opening Remarks NCB 113	
8:45 – 9:45 AM	Plenary Speaker: Dr. Julie Morand-Ferron Intraspecific variation in cognitive performance in songbirds from contrasting habitats NCB 113	
10:15 – 12:00 PM	Session #1 Predation & Fear NCB 113	Session #2 Communication NCB 114
12:00 – 1:30 PM	Lunch	
1:30 – 3:00 PM	Session #3 Lightning Talks NCB 113	Session #4 Organism Distributions NCB 114
3:00 – 3:15 PM	Coffee and snacks are provided NCB Atrium	
3:15 – 4:15 PM	Plenary Speaker: Dr. JP Xu Fungal populations on the move NCB 113	
4:30 – 6:30 PM	Poster Session: NCB Atrium Refreshments available & booths	
7:00 – 11:00 PM	Grad Club Social & Trivia	



CONFERENCE SCHEDULE (CON'T)

SATURDAY, MAY 12TH

8:00 AM – 4:30 PM	Information & Registration open NCB Atrium	
8:00 – 10:15 AM	Coffee and snacks are provided NCB Atrium	
8:45 – 9:45 AM	Plenary Speaker: Dr. Jeremy McNeil The behavioural and chemical ecology of migratory lepidopterans NCB 113	
10:00 AM – 3:00 PM	Western Herbarium & Zoological Collection open for tours BGS 0124	
10:15 AM – 12:00 PM	Session #5 Reproduction NCB 113	Session #6 Ecological Effects NCB 114
12:00 – 1:30 PM	Lunch	
1:30 – 3:15 PM	Session #7 Climate & Stress NCB 113	Session #8 Social Interactions NCB 114
3:15 – 3:45 PM	Coffee and snacks are provided NCB Atrium	
3:45 – 4:15 PM	Closing Remarks & Award Presentations NCB 113	

SESSION SCHEDULE



SESSION #1 EFFECTS OF PREDATION AND FEAR

Friday May 11th in **NCB 113**.

Moderated by Lauren Witterick.

	<i>Fear of predators has long-lasting effects on the brain and behaviour in wild animals</i>
10:15 AM	Lauren Witterick – Western University Julia Hryniewicz, Scott MacDougall-Shackleton, Craig Bailey, Michael Clinchy, Liana Zanette
	<i>Dynamics of Herring Gull Predation of Chimney Swifts at a Migratory Roost</i>
10:30 AM	Brendan Fera – McMaster University Jennie Pearce, Jennifer Foote
	<i>The king of beasts reigns in terror: fear of lions exceeds that of other large carnivores</i>
10:45 AM	Noa Rigoudy – Western University Michael Clinchy, Liana Zanette
	<i>Warming alters top-down and bottom-up trophic cascades in a soil acarine predator-prey system</i>
11:00 AM	Carlos Barreto – Western University Zoe Lindo
	<i>The Effects of Perceived Predation Threat on Stress Response and Memory in Birds</i>
11:15 AM	Chlöe Carter – Western University Scott MacDougall-Shackleton
	<i>Fear of predators halves recruitment rates and permanently handicaps survivors</i>
11:30 AM	Marek Allen – Western University Michael Clinchy, Liana Zanette
	<i>The effect of nectar robbing on selection on floral traits of the native wildflower <i>Impatiens capensis</i></i>
11:45 AM	Sarah McDonald – University of Guelph Christina Caruso



SESSION SCHEDULE (CON'T)

SESSION #2 COMMUNICATION OF ALL KINDS

Friday May 11th in **NCB 114.**

Moderated by Leanne Grieves.

10:15 AM	<i>Do song sparrows attend to the information-content of preen oil?</i> Leanne Grieves – Western University Mark Bernards, Beth MacDougall-Shackleton
10:30 AM	<i>Drosophila melanogaster Stress Odorant (dSO) displays the characteristics of an alarm pheromone</i> Ryley Yost – Western University Selwyn Chui, Andrew Greco, Shirley Long, Ian McDonald, Jeremy McNeil, Anne Simon
10:45 AM	<i>Understanding the function of nocturnal song in ovenbirds: males do not countersing at night</i> Kristen Marini – Algoma University Homam AL-Ani, Jennifer Foote
11:00 AM	<i>Identification of Mushroom Body Regions and Projections Effecting Drosophila Female Receptivity</i> Brendan Charles – Western University Amanda Moehring
11:15 AM	<i>Influences of the social environment on variation in red squirrel (Tamiasciurus hudsonicus) territorial vocalizations</i> Maggie Bain – University of Guelph D. Wilson, S. Boutin, M. Humphries, B. Dantzer, J. Lane, A. McAdam
11:30 AM	<i>Daily and seasonal variation in song type use in ovenbirds</i> Kendriah Pearse – Algoma University Jennifer Foote
11:45 AM	<i>Discrimination of familiarity in red squirrel (Tamiasciurus hudsonicus) territorial vocalizations</i> Jack Robertson – University of Guelph Stan Boutin, Murray Humphries, Ben Dantzer, Jeffrey Lane, Andrew McAdam

SESSION SCHEDULE (CON'T)



SESSION #3 LIGHTNING TALKS

Friday May 11th in **NCB 113**.

Moderated by Brendon Samuels.

1:30 PM	<i>Evaluation of mercury and stress exposure impacts on songbirds health and migratory capacity</i> Claire Bottini – Western University , Scott MacDougall-Shackleton
1:37 PM	<i>Soil homogenization modifies productivity, nitrogen retention and decomposition during grassland restoration</i> Holly Stover – Western University , Hugh Henry
1:45 PM	<i>Climate warming and Boreal peatlands</i> Caitlyn Lyons – Western University , Zoe Lindo
1:52 PM	<i>The effect of urbanization on reproductive traits of the wildflower <i>Linaria vulgaris</i></i> Ariana Longley – University of Guelph , Christina Caruso
2:00 PM	<i>The development of new methods to investigate the function of the avian hippocampus</i> Madeline Brodbeck – Western University , Steve Lomber, Scott MacDougall-Shackleton, David Sherry
2:07 PM	<i>The avoidance of the <i>Drosophila</i> stress odorant is not species specific</i> Emerald Liang – Western University , Ryley Yost Anne Simon
2:15 PM	<i>Oral Lethal Dose of Four Systemic Insecticides to the Common Eastern Bumblebee (<i>Bombus impatiens</i>)</i> Kayla Mundy – University of Guelph , Ryan Prosser, Nigel Raine
2:22 PM	<i>Alternative reproductive strategies in white-throated sparrows are associated with differences in malarial infection intensity</i> Rachel Boyd – Western University , Tosha Kelly, Scott MacDougall-Shackleton, Elizabeth MacDougall-Shackleton
2:30 PM	<i>Negative Selection in Social Insects</i> Mohammad Arshad Imrit – York University , K. Dogantzis, A. Zayed
2:37 PM	<i>Nonvascular plant vulnerability to fire activity in the Northwest Territories: Interactive effects of fire severity and soil moisture</i> Kristen Bill – University of Guelph , Merritt Turetsky, Jennifer Baltzer
2:45 PM	<i>Do birds that tweet also feel beat? Perception of temporal patterns in a songbird.</i> Brendon Samuels – Western University , Jessica Grahn, Scott MacDougall-Shackleton
2:52 PM	<i>Plant stimuli triggered polymers for the use in slow release fertilizer coatings</i> Spencer Heuchan – Western University , Hugh Henry, Elizabeth Gillies



SESSION SCHEDULE (CON'T)

SESSION #4 ORGANISM DISTRIBUTIONS & MOVEMENT

Friday May 11th in **NCB 114**.

Moderated by Tosha Kelly.

1:30 PM	<i>Track me if you can: long-term wintering site fidelity in song sparrows</i> Tosha Kelly – Western University Keith Hobson, Garth Casbourn, Scott MacDougall-Shackleton and Beth MacDougall-Shackleton
1:45 PM	<i>Monitoring chimney swift roost attendance at a large Northern Ontario roost</i> Dr. Jennifer Foote – Algoma University Dean Evans, Jennie Pearce
2:00 PM	<i>Behavioural mechanisms of differential avian migration in the White-throated Sparrow (<i>Zonotrichia albicollis</i>).</i> Andrew Beauchamp – Western University Yolanda Morbey, Christopher Guglielmo
2:15 PM	<i>Ants in high places: arboreal ant nest distributions in Virginia</i> Grace Carscallen – Western University G. Nichols, V. Novotny, M. Volf, S. Miller, K. Teixeira Anderson, P. Klimes
2:30 PM	<i>Examining shifts in Collembola community composition under top-down and bottom-up control</i> Jordan Kustec – Western University Zöe Lindo, Carlos Barreto

SESSION SCHEDULE (CON'T)



SESSION #5 REPRODUCTION: TACTICS & SELECTION

Saturday May 12th in **NCB 113.**

Moderated by Chloe Montreuil-Spencer.

10:15 AM	<i>Links across seasons: Winter physiology and summer breeding in a non-migratory bird</i> Chloe Montreuil-Spencer – Queen's University K. Schoenemann, Fran Bonier
10:30 AM	<i>Determining the Voltinism and Sociality of the Sweat bee <i>Lasioglossum zonulum</i> in the Niagara Region</i> Alex Proulx – Brock University M. Richards
10:45 AM	<i>Genetic Basis of Hybrid Sterility in <i>Drosophila pseudoobscura</i> and <i>D. persimilis</i>.</i> Alannah Mattice – Western University
11:00 AM	<i>Using gene knock-down to test mechanisms of reproductive regulation in honey bees (<i>Apis mellifera</i>)</i> Anthony Gallo – Western University E. Guzmán-Novoa, Graham Thompson
11:15 AM	<i>Mating competition and cooperation: Restricted mating strategies are associated with prosocial preferences and personality</i> Amanda Rotella – University of Guelph Pat Barclay
11:30 AM	<i>Can You Have it All? Assessing Links between Plastic Growth and Reproductive Traits in <i>Latrodectus hasselti</i> Males</i> Yousef Safar – University of Toronto, Scarborough Vighnesh Sukhu, Laini Taylor, Luciana Baruffaldi, Maydianne Andrade
11:45 AM	<i>RNAi knockdown of fruitless transcripts to investigate reproductive isolation between <i>Drosophila melanogaster</i> and <i>Drosophila simulans</i></i> Nicholas Werry – Western University Amanda Moehring



SESSION SCHEDULE (CON'T)

SESSION #6 ECOLOGICAL EFFECTS

Saturday May 12th in **NCB 114.**

Moderated by Christian Therrien.

10:15 AM	<i>Effect of shelter availability on foraging in Atlantic salmon (<i>Salmo salar</i>)</i> Christian Therrien – Western University Yolanda Morbey, Bryan Neff
10:30 AM	<i>Landscape ecology of <i>Falco sparverius</i> (American kestrel)</i> Margaret Hughes – Brock University L. Vasseur, J. Willwerth
10:45 AM	<i>Portrayals of invasive species management and the potential to underestimate risk</i> Noelle Stratton – University of Toronto, Scarborough Nicholas Mandrak, Nicole Klenk
11:00 AM	<i>Agricultural intensity and diet of Barn Swallow (<i>Hirundo rustica</i>) nestlings: Insights from fecal DNA and stable isotope analyses</i> Jackson Kusack – Western University Greg Mitchell, Dean Evans, Mike Cadman, Kaelyn Bumelis, Keith Hobson
11:15 AM	<i>Spatial environmental complexity mediates sexual conflict and sexual selection in <i>Drosophila melanogaster</i></i> Heather Malek – Wilfred Laurier University Tristan Long
11:30 AM	<i>Invasive earthworms and tallgrass prairie: an investigation of the earthworm community in restored and remnant tallgrass prairie across Southern Ontario</i> Heather Cray – University of Waterloo Stephen Murphy
11:45 AM	<i>The influence of anthropogenic disturbance on the daily activity patterns of white-tailed deer (<i>Odocoileus virginianus</i>) in an urban environment</i> Johnathan Davidson, Tommy Lin, Mariana Vicente University of Toronto, Mississauga

SESSION SCHEDULE (CON'T)



SESSION #7 CLIMATE & STRESS

Saturday May 12th in **NCB 113.**

Moderated by Andrea Boyer.

1:30 PM	<i>Response thresholds of recurrent winter storm cues in white-throated sparrows (Zonotrichia albicollis)</i> Andrea Boyer – Western University Scott MacDougall-Shackleton
1:45 PM	<i>Generalizing the effects of freeze-drought interactions on plant productivity across various herbaceous old-field species</i> Ricky Kong – Western University Hugh Henry
2:00 PM	<i>Algal heat shock proteins and their role in the heat shock response of the Antarctic psychrophile, Chlamydomonas UWO241</i> Dr. Marina Cvetkovska – Western University Norm Huner
2:15 PM	<i>Overwintering physiology of the Brown Marmorated Stink Bug</i> John Ciancio – Western University Brent Sinclair, Tara Garipey
2:30 PM	<i>Benefits and costs of frost avoidance in herbaceous plants</i> Curtis Lubbe – Western University Hugh Henry
2:45 PM	<i>Cold Comforts: Long term cold exposure prolongs memory in common pond snail, Lymnaea stagnalis</i> Brynne Duffy – Western University Susan Anthony, Ken Lukowiak, Brent Sinclair
3:00 PM	<i>Bioindicators in a changing world, the case for soil mites</i> Matthew Meehan – Western University Zhuoyan Song, Tyler Cobb, Lisa Lumley, Heather Proctor



SESSION SCHEDULE (CON'T)

SESSION #8 SOCIAL INTERACTIONS

Saturday May 12th in **NCB114**.

Moderated by Christopher Course.

1:30 PM	<i>Do birds of a feather wake-up together?: Radiotracking winter flocks of black-capped chickadees</i> Christopher Course – Western University David Sherry
1:45 PM	<i>Analysis of Living Social Networks: Insights from a Drosophila Model</i> Christine Scharf – Western University Anne Simon, Kristin Ransone, Graham Thompson
2:00 PM	<i>Towards an identification of the neural circuitry necessary for proper social spacing in D. melanogaster</i> Wes Robinson – Western University Ryley Yost, Jade de Belle, Anne Simon
2:15 PM	<i>Molecular signatures of kin selection: are caste-associated genes nearly neutral?</i> Anna Chernyshova – Western University Graham Thompson
2:30 PM	<i>The evolution of male harm depends on the environment in which polygamy occurs</i> Li Yun – University of Ottawa Patrick Chen, Malak Bayoumi, Michelle Yang, Aneil Agrawal, Howard Rundle
2:45 PM	<i>Can losers still be winners? The evolutionary biology of winner-loser effects</i> David Filice – McMaster University
3:00 PM	<i>Determining if Ntu affect female receptivity towards males from other species</i> Joshua Isaacson – Western University Amanda Moerhing

POSTER PRESENTATIONS



Poster Number	Friday May 11 th in NCB Atrium. 4:30 – 6:30 PM
1	<i>Change happens from the ground up: Measuring the success of the multifunctional solution using agriculturally marginally restored prairie grasslands for soil carbon storage</i> Annalisa Mazzorato – University of Guelph
2	<i>Sequencing and assembling the nuclear genome of the Antarctic psychrophilic green alga Chlamydomonas sp. UWO241: unravelling the evolution of cold adaption</i> Xi Zhang – Western University David Smith
3	Suhaila Almanfi – Brock University
4	<i>Video-monitoring of Chimney Swift (Chaetura pelagica) behaviour at a migratory roost</i> Shannon O'Brien – Algoma University J Pearce, Jennifer Foote
5	<i>Effect of Gut Microbiome on Modulating Social Spacing in Drosophila melanogaster</i> Yen Chan – Western University Yanira Padilla, Marc-André Lachance, Anne Simon
6	<i>Happy Families? Does relatedness mediate larval co-operation in Drosophila melanogaster</i> Lucas Khodaei – Wilfred Laurier University Tristan Long
7	<i>Determination of Bacterial 16S rRNA Termini using RNA-seq</i> Jordan Silke – University of Ottawa Yulong Wei, X. Xie
8	<i>Factors contributing to dispersal in eusocial naked mole-rats</i> Ilapreet Toor – University of Toronto, Mississauga Melissa Holmes



POSTERS PRESENTATIONS (CON'T)

Poster Number	
9	<i>Stream biogeochemical resilience in the age of Anthropocene</i> Rick Dong – Western University Irena Creed, M. Scheuerell
10	<i>Evaluating wetland restoration success by tracking recovery of plant functional traits.</i> Renée Howard – Western University Irena Creed
11	<i>Wren you hear me now: assessing vocal variety in the winter wren (<i>Troglodytes hiemalis</i>)</i> Tristan Clarke – Algoma University Jennifer Foote
12	<i>Applications of RNA Sequencing data to characterize mature RNA transcripts</i> Yulong Wei – University of Ottawa Jordan Silke, X. Xie
13	<i>Differential Vulnerability to Window Collision Mortality Among Songbird Species</i> Olivia Colling – Western University Yolanda Morbey, Christopher Guglielmo
14	<i>Sexual Selection Through Machiavellian Intelligence: Social Species Signal Traits may not be the Key Determinant of Reproductive Success</i> Jacob Hann – Wilfred Laurier University D. White, H. Davies
15	<i>The importance of social associations in winter flocks of black-capped chickadees</i> Julian Evans – University of Ottawa Julie Morand-Ferron
16	<i>What happens in the brain of nocturnally migrating birds?</i> Madeleine Brodbeck – Western University Verner Bingman, Songyi Yuan, Scott MacDougall-Shackleton

POSTER PRESENTATIONS



Poster
Number

17

Sex differences in cell proliferation in the vocal control system of the zebra finch

Adriana Diez – Western University

Scott MacDougall-Shackleton



ACKNOWLEDGEMENTS

A special thank you to our volunteers, sponsors, and sources of funding. Without all your support this event would not have been possible.

FACETS



esri Canada



Ontario
Environment
Network



Western
Research



Canadian Society for
Ecology and Evolution



Western
Graduate &
Postdoctoral Studies

Western

Western Social Science



The Centre for Environment
& Sustainability

Western Science



Western
Student Experience



A series of horizontal lines for writing notes, spanning the width of the page below the header.



NOTES