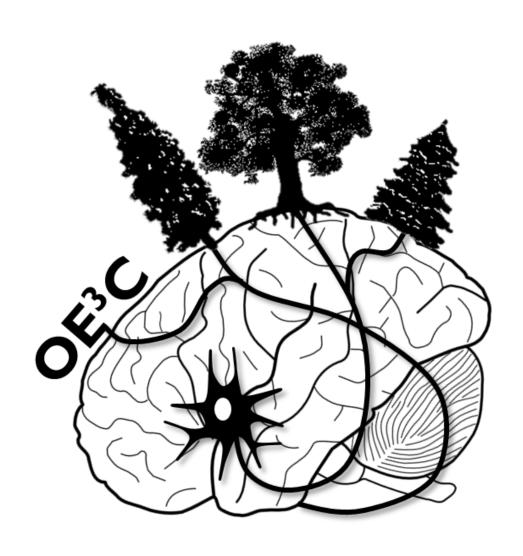
ONTARIO ECOLOGY, ETHOLOGY, AND EVOLUTION COLLOQUIUM



MAY 8-10, 2014



PROGRAM CONTENT

Introduction and Welcome	.3
2014 Organizing Committee	.4
Important Information	.5
Campus Map	7
Plenary Speakers	.9
Conference Schedule	. 10
Talk Sessions	.12
Posters	.17
Acknowledgements	.19

INTRODUCTION AND WELCOME

Welcome to the 44th Ontario Ecology, Ethology, and Evolution Colloquium!

For decades, OE³C has brought together top researchers across Ontario to share findings in an intimate academic environment. Originally known as the Ontario Ecology and Ethology Colloquium, the recent addition of the third E – Evolution – significantly broadened the scope of this conference. This year, the Ontario Colloquium, with all of its three Es, is hosted by graduate students of the University of Guelph's Integrative Biology, Animal and Poultry Science, and Psychology departments.

We are happy to welcome over 120 top researchers to share their exciting findings. Presentation topics are highly diverse, ranging from animal welfare, climate change, and conservation biology, to evolutionary psychology and social behaviour. We are also proud to have four plenary speakers present the most recent and intriguing findings within the fields of ecology, ethology, and evolution.

OE³C is a great way for young researchers to receive constructive feedback about their research, and for faculty to recruit, and interact with, top prospective students. Like past OE³Cs, this conference was entirely organized by a subset of dedicated graduate students. Together, we strive to make this conference a friendly, collaborative, fun, and positive academic experience for all.

Please enjoy your stay at Guelph and welcome to OE³C 2014!

Sara Kafashan

OE³C 2014 Organizing Committee Member

2014 ORGANIZING COMMITTEE

OE³C 2014 would not be possible without the hard work and dedication of the following individuals:

Jamie Ahloy Dallaire

Kate Eisen

Kelsy Ervin

Sara Kafashan

Tony Kess

Heather Kinkaid

Richard Matta

Zachary Ramsay

IMPORTANT INFORMATION

Registration

On Thursday, registration will be open from 5:30pm-7 pm in the Science Complex Atrium. Finger foods and drinks will be served.

On Friday and Saturday, registration will be open from 7:30-8:30 am in the Thornbrough Building.

Registration for OE³C 2014 includes a conference package, two dinnertime receptions, other meals, coffee breaks, and two drink tickets.

Oral Presentations

Please report to your scheduled room in the Thornbrough or Richards Building 15 minutes *before* your session begins so a moderator can help you load your presentation onto the audio-visual equipment.

All presentations will be loaded onto the room computer prior to the beginning of the session. To avoid compatibility issues, presentations should be saved as a **powerpoint file (.ppt)**.

Oral presentations are 15 minutes maximum (12 minutes, with 3 minutes for questions). Moderators in your session will signal to you at 10 minutes, and will ask you to wrap up at 14 minutes.

Please be prompt and respectful to help us stay on schedule!

Poster Presentations

Poster boards will be set up in the atrium of the Science Complex. Please feel free to hang your poster anytime after 1pm with the materials provided.

Please ensure your poster is no more than 4ft by 3ft.

Finger foods and drinks will be served during the poster session.

Be sure to remove your poster after the session is over. Unclaimed posters will be discarded by the end of the conference.

T-Shirts

Pre-ordered t-shirts will be handed out with your registration package.

Extra t-shirts will be available for purchase (\$15 each) at the registration desk.

Parking

Parking is available on campus (see parking availability on the campus map).

Meals

The opening reception will be held from 5:30-7:00 pm on Thursday evening (during registration), in the Science Complex Atrium (see campus map). Finger foods and drinks will be served.

Breakfast will be served from 7:30-8:30 am on Friday and Saturday (during morning registration), in the Thornbrough Building (see campus map).

Lunches will be held in the University Centre on Friday and in the Thornbrough Concourse on Saturday (see campus map).

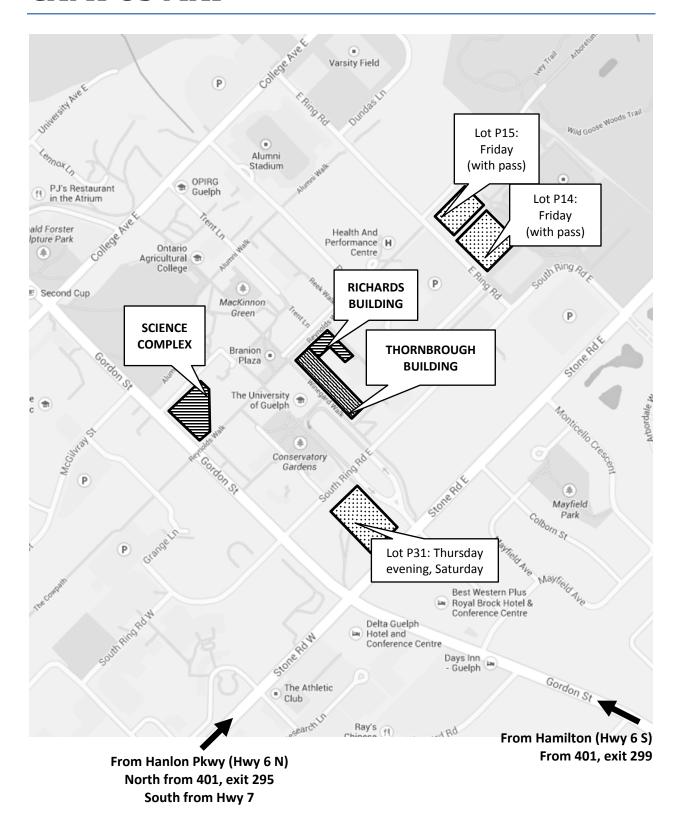
The poster session reception will be held from 5:00-7:00 pm on Friday evening, in the Science Complex Atrium (see campus map). Finger foods and drinks will be served.

Accommodation

On-campus housing will be in the East side residence buildings (see campus map). Off-campus housing will be at the Delta Hotel (see campus map).

Check in is 3:00 pm and check out is 11:00 am.

CAMPUS MAP



CAMPUS MAP

Venues:

Science Complex Atrium



Thornbrough Building



Richards Building



PLENARY SPEAKERS



Dr. Hafiz Maherali

Department of Integrative Biology, University of Guelph

What maintains a 400 million year old trophic interaction? Exploring evolutionary causes and ecological consequences in the mycorrhizal symbiosis



Dr. Nicole Mideo

Department of Ecology and Evolutionary Biology, University of Toronto

Explaining the complex lives of malaria parasites



Dr. Bennett Galef

Department of Psychology, Neuroscience, & Behaviour, McMaster University

Social influences on the food choices of Norway rats: Behaviour, Neuroscience, and Molecular Biology



Dr. Amy Newman

Department of Integrative Biology, University of Guelph

The influence of the early-life environment on adult stress physiology and fitness in the wild

CONFERENCE SCHEDULE

Thursday, May 8		
Science Comp	Science Complex Atrium	
5:30-7:00	Opening reception and registration	
	Plenary speaker: Hafiz Maherali	
7:00-8:00	What maintains a 400 million year old trophic interaction?	
7.00-0.00	Exploring evolutionary causes and ecological consequences	
	in the mycorrhizal symbiosis	

Friday, Ma	Friday, May 9		
7:30-8:30	Registration and Breakfast		
7:30-0:30	Thornbrough Concourse		
	Plenary speaker: Nicole Mideo		
8:30-9:30	Explaining the complex lives of malaria parasites		
	Thornbrough 1200		
9:30-10:00	Coffee break		
	Session 1A: Evolutionary Ecology		
10:00-12:15	Thornbrough 1200		
10:00-12:15	Session 1B: Aquatic Ecology		
	Richards 2520		
12:15-1:15	Lunch		
	Session 2A: Conservation Biology and Biodiversity		
1:15-3:00	Thornbrough 1200		
1:13-3:00	Session 2B: Avian Ecology and Behaviour		
	Richards 2520		
3:00-3:30	Coffee break		
	Plenary speaker: Bennett Galef		
3:30-4:30	Social influences on the food choices of Norway rats:		
3.30-4.30	Behaviour, Neuroscience, and Molecular Biology		
	Thornbrough 1200		
5:00-7:00	Poster Session		
3.00-7.00	Science Complex Atrium		

CONFERENCE SCHEDULE

Saturday,	Saturday, May 10		
7:30-8:30	Registration and Breakfast		
7:30-0:30	Thornbrough Concourse		
	Session 3A: Animal Welfare and Enrichment		
8:30-9:45	Thornbrough 1200		
0.30-9.43	Session 3B: Evolution of Behaviour		
	Richards 2520		
9:45-10:15	Coffee break		
	Session 4A: Social Behaviour and Mate Selection		
10:15-12:15	Thornbrough 1200		
10.13-12.13	Session 4B: Climate Change and Invasion Biology		
	Richards 2520		
12:15-1:30	Lunch		
	Session 5A: Community Ecology		
1:30-3:45	Thornbrough 1200		
1.30-3.43	Session 5B: Insect Ecology and Behaviour		
	Richards 2520		
3:45-4:15	Coffee break		
	Plenary speaker: Amy Newman		
4:15-5:15	The influence of the early-life environment on adult stress		
1.15 5.15	physiology and fitness in the wild		
	Thornbrough 1200		
5:15-5:30	Student awards		
0.20 0.00	Thornbrough 1200		

TALK SESSIONS

Coccio	on 1 A. Evolutionamy Ecology
	on 1A: Evolutionary Ecology May 9, Thornbrough 1200
THUUY	A phylogenetic analysis of gynodioecy and its correlates in the flowering plants
10:00	Kate Eisen, University of Guelph
10:15	The mechanisms of frequency-dependent selection in gynodioecious Lobelia siphilitica
10:15	L. Ruth Rivkin, University of Guelph
	An evaluation of DNA extraction methods for Western black widows across developmental
10:30	stages: minimizing cost and effort
	Harrish Nithianandan, University of Toronto
	Testing for adaptive radiation and ecological constraint in a major lineage of rodents
10:45	(Hystricomorpha, Caviomorpha)
	Nathan S. Upham, University of Chicago, Field Museum of Natural History
	A Rudiment's Tale: There and Back Again, The Resporption of the Juvenile Rudiment During
11:00	Sea Urchin Larval Development
	Amardeep Singh, McMaster University
	Detecting genomic patterns of ecological adaptation in Galician Littorina saxatilis ecotypes
11:15	through QTL mapping
	Joseph Anthony (Tony) Kess, University of Guelph
44.00	Bee- to bird-pollination shifts in Penstemon: Effects of floral-lip removal and corolla
11:30	constriction on bumble bee preference
	Jessica L. Zung, University of Toronto
11:45	The genetic and environmental factors that influence unreduced gamete production
	Dylan Sora, University of Guelph
12.00	Phylogenomics of African clawed frogs (Xenopus): Implications for evolutionary dynamics of
12:00	sex chromosomes
c :	Benjamin L. S. Furman, McMaster University
	on 1B: Aquatic Ecology
Friday	May 9, Richards 2520
10:00	Molecular biogeography of the amphipod genus Hyalella in North America
10.00	Matthew Hrycyshyn, University of Waterloo
10:15	Are species larger at high latitudes? Testing latitude-body size relationships in ectotherms
10.15	Jillian Moran, University of Toronto
10:30	Ecomorphological diversification of neotropical cichlids
10.50	Viviana Astudillo-Clavijo, University of Toronto
	The role of lure polymorphism in freshwater mussel reproduction: Are all lure types created
10:45	equal?
	Colette S. Mesher, University of Guelph
44.00	The selective feeding behaviours of adult and juvenile freshwater mussels under flowing
11:00	conditions
	Rakesh Mistry, University of Guelph
44 4 5	Ring the alarm: Behavioural manipulation of sea lamprey populations with damage-released
11:15	alarm cues and predator cues
	István Imre, Algoma University
11:30	The effects of suspended sediment on the suspension feeding of unionid mussels
	Shaylah Tuttle-Raycraft, University of Guelph
11:45	Including ecology to particle capture mechanisms: The effects of oscillation on particle capture
	Dori Gao, University of Guelph

Session	on 2A: Conservation Biology and Biodiversity
Friday	May 9, Thornbrough 1200
1:15	A window into our evolutionary past: Mazon Creek Lagerstatten siderite
	concretions
	Sarina Cotroneo, University of Toronto
1:30	Small Ediacaran fronds of Mistaken Point
1:30	Sara J. Mason, University of Guelph
1:45	Elevation and the phylogenetic diversity of neotropical insects
1.15	M. Alex Smith, University of Guelph
2:00	Describing a group of Chilean bees, Chilicola (Heteroediscelis)
2.00	Spencer K. Monckton, York University
2:15	The use of Great Lakes islands by migrating bats
2.15	Toby J. Thorne, University of Western Ontario
	The adaptive capacity of thermal tolerance: Reintroduction of Atlantic salmon into
2:30	Lake Ontario
	Kayla J. Gradil, University of Western Ontario
	Improving the power and efficiency of biodiversity assessment through the use of
2:45	DNA metasystematics and next-generation sequencing
	J. Gibson, University of Guelph
Sessi	on 2B: Avian Ecology and Behaviour
Friday	May 9, Richards 2520
	Do stressful conditions in early-life affect song preferences in adult female
1:15	European starlings (Sturnus vulgaris)?
	Tara M. Farrell, University of Western Ontario
1:30	The Effects of Corticosterone on Song Stereoypy in the Adult Zebra Finch
1:50	Pavlina Faltynek, University of Western Ontario
1:45	Sex differences in myelination of the song control system
1.43	Adam Piraino, University of Western Ontario
	Is the HVC of black-capped chickadees (Poecile atricapillus) a vocal-control brain
2:00	region rather than a song-control brain region?
	Shannon K. Mischler, University of Western Ontario
	Ready to fight: Reliable predictors of aggression in a joint-nesting nonpasserine
2:15	bird
	Leanne A. Grieves, McMaster University
2:30	Self-organization and individual attributes influence the formation of dominance
	hierarchies in a group-living bird
	Cody J. Dey, McMaster University
	Body size divergence is greater among sympatric species of birds in warm, but not
2:45	cool, environments
	Emma Bothwell, University of Guelph

Saturday May 10, Thornbrough 1200 Using comparative methods to investigate welfare in captive Psittaciformes: Are there ecological determinants? Heather Y. McDonald Kinkaid, University of Guelph Does juvenile rough-and-tumble play enhance adult male sexual performance in farmed mink? Jamie Ahloy Dallaire, University of Guelph Having a ball: Mink given simple environmental enrichments are calmer and more fertile Georgia Mason, University of Guelph Wound healing in the wing membrane of the Cuban big fruit-eating bat (Artibeus jamaicensis) Tyler Pollock, McMaster University Validation of triaxial accelerometers to measure the lying behaviour of adult domestic horses Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Risk-sensitivity theory in football decision-making	Sessio	on 3A: Animal Welfare and Enrichment		
8:30 there ecological determinants? Heather Y. McDonald Kinkaid, University of Guelph Does juvenile rough-and-tumble play enhance adult male sexual performance in farmed mink? Jamie Ahloy Dallaire, University of Guelph Having a ball: Mink given simple environmental enrichments are calmer and more fertile Georgia Mason, University of Guelph Wound healing in the wing membrane of the Cuban big fruit-eating bat (Artibeus jamaicensis) Tyler Pollock, McMaster University Validation of triaxial accelerometers to measure the lying behaviour of adult domestic horses Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Bisk-sensitivity theory in football decision-making	Saturd			
Heather Y. McDonald Kinkaid, University of Guelph Does juvenile rough-and-tumble play enhance adult male sexual performance in farmed mink? Jamie Ahloy Dallaire, University of Guelph Having a ball: Mink given simple environmental enrichments are calmer and more fertile Georgia Mason, University of Guelph Wound healing in the wing membrane of the Cuban big fruit-eating bat (Artibeus jamaicensis) Tyler Pollock, McMaster University Validation of triaxial accelerometers to measure the lying behaviour of adult domestic horses Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Pick-sensitivity theory in football decision-making				
Does juvenile rough-and-tumble play enhance adult male sexual performance in farmed mink? Jamie Ahloy Dallaire, University of Guelph Having a ball: Mink given simple environmental enrichments are calmer and more fertile Georgia Mason, University of Guelph Wound healing in the wing membrane of the Cuban big fruit-eating bat (Artibeus jamaicensis) Tyler Pollock, McMaster University Validation of triaxial accelerometers to measure the lying behaviour of adult domestic horses Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Pick-sensitivity theory in football decision-making	8:30	•		
8:45		. 5		
Jamie Ahloy Dallaire, University of Guelph Having a ball: Mink given simple environmental enrichments are calmer and more 9:00 fertile Georgia Mason, University of Guelph Wound healing in the wing membrane of the Cuban big fruit-eating bat (Artibeus jamaicensis) Tyler Pollock, McMaster University Validation of triaxial accelerometers to measure the lying behaviour of adult domestic horses Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph 9:00 Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Pisk-sensitivity theory in football decision-making		, ,		
Having a ball: Mink given simple environmental enrichments are calmer and more fertile Georgia Mason, University of Guelph Wound healing in the wing membrane of the Cuban big fruit-eating bat (Artibeus jamaicensis) Tyler Pollock, McMaster University Validation of triaxial accelerometers to measure the lying behaviour of adult domestic horses Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Bick-constituin theory in football decision-making	8:45			
9:00 fertile Georgia Mason, University of Guelph Wound healing in the wing membrane of the Cuban big fruit-eating bat (Artibeus jamaicensis) Tyler Pollock, McMaster University Validation of triaxial accelerometers to measure the lying behaviour of adult domestic horses Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Pisks sensitivity theory in football decision-making				
Georgia Mason, University of Guelph Wound healing in the wing membrane of the Cuban big fruit-eating bat (Artibeus jamaicensis) Tyler Pollock, McMaster University Validation of triaxial accelerometers to measure the lying behaviour of adult domestic horses Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University 9:15 Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the wire Pisk-sensitivity theory in football decision-making				
Wound healing in the wing membrane of the Cuban big fruit-eating bat (Artibeus jamaicensis) Tyler Pollock, McMaster University Validation of triaxial accelerometers to measure the lying behaviour of adult domestic horses Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the wing Pisks ensitivity theory in football decision-making	9:00	fertile		
9:15 jamaicensis) Tyler Pollock, McMaster University Validation of triaxial accelerometers to measure the lying behaviour of adult 9:30 domestic horses Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph 8:45 Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph 9:00 Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University 9:15 Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Bick-sensitivity theory in football decision-making		Georgia Mason, University of Guelph		
Tyler Pollock, McMaster University Validation of triaxial accelerometers to measure the lying behaviour of adult 9:30 domestic horses Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph 8:45 Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph 9:00 Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University 9:15 Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Pisk-sensitivity theory in football decision-making		Wound healing in the wing membrane of the Cuban big fruit-eating bat (Artibeus		
Validation of triaxial accelerometers to measure the lying behaviour of adult 9:30 domestic horses Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph 8:45 Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University 9:15 Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Bick-sensitivity theory in football decision-making	9:15	jamaicensis)		
9:30 domestic horses Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph 8:45 Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph 9:00 Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University 9:15 Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Bick-sensitivity theory in football decision-making		Tyler Pollock, McMaster University		
Cordelie C. N. DuBois, University of Guelph Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph 8:45 Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph 9:00 Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Bisk-sensitivity theory in football decision-making		Validation of triaxial accelerometers to measure the lying behaviour of adult		
Session 3B: Evolution of Behaviour Saturday May 10, Richards 2520 8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph 8:45 Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph 9:00 Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University 9:15 Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Bisk-sensitivity theory in football decision-making	9:30	domestic horses		
8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph 8:45 Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph 9:00 Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University 9:15 Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Pisk-sensitivity theory in football decision-making		Cordelie C. N. DuBois, University of Guelph		
8:30 Biological markets: A paradigm for understanding human relationships Sara Kafashan, University of Guelph 8:45 Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph 9:00 Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University 9:15 Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Pisk-sensitivity theory in football decision-making	Sessio	on 3B: Evolution of Behaviour		
Sara Kafashan, University of Guelph 8:45 Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph 9:00 Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University 9:15 Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Pisk-sensitivity theory in football decision-making	Saturd	ay May 10, Richards 2520		
Sara Kafashan, University of Guelph 8:45 Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph 9:00 Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University 9:15 Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Pisk-sensitivity theory in football decision-making				
8:45 Skepticism of the predictive value of cooperative acts Amanda M. Rotella, University of Guelph 9:00 Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University 9:15 Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Pisk-sensitivity theory in football decision-making	8:30			
9:00 Amanda M. Rotella, University of Guelph Predator decision-making and the evolution of imperfect Batesian mimicry Kevin R. Abbott, McMaster University 9:15 Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Pisk-sensitivity theory in football decision-making	0.45			
9:00 Kevin R. Abbott, McMaster University 9:15 Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Pisk-sensitivity theory in football decision-making	8:45	Amanda M. Rotella, University of Guelph		
9:15 Kevin R. Abbott, McMaster University Strategic morality: Who condemns infidelity? Adam Sparks, University of Guelph For the win: Pisk-sensitivity theory in football decision-making	0.00	Predator decision-making and the evolution of imperfect Batesian mimicry		
Adam Sparks, University of Guelph For the win: Risk-sensitivity theory in football decision-making	9:00	Kevin R. Abbott, McMaster University		
Adam Sparks, University of Guelph For the win: Risk-sensitivity theory in football decision-making	9:15			
For the win: Risk-sensitivity theory in football decision-making		Adam Sparks, University of Guelph		
	0.20	For the win: Risk-sensitivity theory in football decision-making		
Joshua Gonzales, University of Regina	9:30			

Sessio	on 4A: Social Behaviour and Mate Selection
	ay May 10, Thornbrough 1200
Buturu	The effects of dorsal hippocampal dopamine D1-type receptor inhibition on social learning,
10:15	food intake, and social interactions in male and female mice
	Richard Matta, University of Guelph
	Factors affecting male mate choosiness in fruit flies
10:30	Carling M. Baxter, McMaster University
	Battle of the sexes: May the best fly win in reproduction
10:45	Trinh Nguyen, University of Western Ontario
	More than kin and less than kind: Preferences and consequences of consanguineous
11:00	matings
11.00	Emily Martin, Wilfrid Laurier University
	Brain levels of isotocin and vasotocin are related to status and social behaviour in a
11:15	cooperatively breeding cichlid fish
	Adam R. Reddon, McGill University
	The evolution of sociality: Differences in molecular pathways between social and non-
11:30	social cichlids
	Constance O'Connor, McMaster University
11 15	Chemical confusion: Sex pheromones trigger mistaken identity by male widow spiders
11:45	Humera Siddiqui, University of Toronto Scarborough
	Turtles with teeth: Tomiodont morphology and functional significance in the painted
12:00	turtle (Chrysemys picta)
	Patrick D. Moldowan, Laurentian University
Sessio	on 4B: Climate Change and Invasion Biology
	ay May 10, Richards 2520
	Plant-soil feedbacks along an invasion chronosequence
10:15	Nicola Day, University of Guelph
	Predicting the effects of climate change on lake trout (Salvelinus namaycush)
10:30	distributions in Ontario
10.00	Miranda Chen, York University
	Predicting the effects of climate change on walleye (Sander vitreus) distributions in
10:45	Ontario lakes
20.10	Thomas Van Zuiden. York University
44.00	Demographic consequences of soil moisture variation for an invasive, hybridizing weed
11:00	Zachary Teitel, Ryerson University
11:15	Application of species distribution models for the management of the European fire ant
	Nao Ito, York University
11:30	Effects of climate change on Canada lynx at their southern edge
	Michael J. L. Peers, Trent University
11:45	Can globally noxious species be controlled?: Some insights from southern Brazil
	Rodrigo Leon Cordero, University of Guelph
12:00	The nettle in the hay stack: Tracking pollen abundance to locate small plant populations
	Rebecca J. Parker, Ryerson University
	, , , ,

0 1			
	Session 5A: Community Ecology		
Saturd	ay May 10, Thornbrough 1200		
4.00	The interactive effect of nutrient enrichment and habitat destruction on consumer-		
1:30	resource alpha and beta-diversity across habitat sizes		
	Eric Harvey, University of Guelph		
1 45	The influence of physiological traits on climatic niche occupancy and competitive ability in		
1:45	the polyploid plant, Chamerion angustifolium (Onagraceae)		
	Ken A. Thompson, University of Guelph		
2.00	Effects of germination segregation between two native Californian grasses on competitive		
2:00	ability and fitness Christopher Blackford, University of Toronto		
	The effects of competition and soil moisture on variation in physiological traits in		
2:15	community assembly		
2.13	Deirdre E. Loughnan, University of Toronto		
	Cytotype growth response to phosphorus limitation and arbuscular mycorhizal		
2:30	colonization in Chamerion angustifolium		
2.00	Susan Hensen, University of Guelph		
0.45	Wood ash and nematodes: Dishing the dirt on silvicultural community change		
2:45	Paul B. L. George, University of Western Ontario		
	Rhizobial response to fertilizer leads to modifications of the relationship dynamics in the		
3:00	Medicago lupulina- <i>rhizobium mutualism</i>		
	Phil Rekret, University of Toronto		
	Effects of biomass cropping systems on soil denitrifier community abundance in Ontario		
3:15	soils		
	Karen A. Thompson, University of Guelph		
3:30	How do interactions drive productivity in diverse crop fields?		
	Yi An Lin, Brock University		
	on 5B: Insect Ecology and Behaviour		
Saturd	ay May 10, Richards 2520		
1:30	Role of varroa mites to transfer honey bee viruses and their control strategies		
1.50	Mollah M. Hamiduzzaman, University of Guelph		
1:45	The effects of accessory proteins on sperm survivability in Drosophila pseudoobscura		
1.10	Caryn Dooner, University of Western Ontario		
2:00	Genetic influences on social behaviour in fruit fly larvae		
	Blake Anderson, McMaster University		
2:15	Foraging and vitellogenin gene expression patterns in eusocial sweat bees using qRT-PCR		
	David Awde, Brock University		
2:30	Food and oviposition preference of diamondback moth		
	Kiera Newman, Brock University Do groups really make better foraging decisions than individuals?		
2:45	Shane Golden, McMaster University		
3:00	Effects of social interactions on learning and memory in honey bees		
	Nadejda Tsvetkov, York University		
	Both food restriction and risk of predation trigger social preferences by flower-naïve		
3:15	bumblebees		
0.10	Erik W. Service, University of Ottawa		
_	Problem solving in bumblebees		
3:30	Caroline Strang, University of Western Ontario		
			

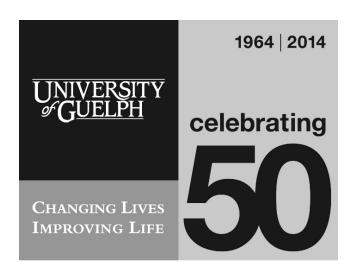
POSTERS

Poste	er Session
Friday	May 9, Science Complex Atrium
1	A molecular evolutionary framework for targeted transcriptomics of xenobiotic exposure: In silico identification and analysis of PCB-interacting genes conserved in animals Gina Capretta, University of Guelph
2	Phylogentic analysis of weak electric knifefish of the family Apteronotidae (Teleostei: Gymnotiformes: Apteronotidae) Farzeen Daruwalla, University of Toronto
3	Does habitat heterogeneity affect tadpole development? Anastasia Savrova, Queen's University
4	Fluctuating asymmetry of Chliean Xeromelissa rozeni mouthparts Margarita Miklasevskaja, York University
5	Body shape diversification in freshwater anchovies Michael Dobrovetsky, University of Toronto
6	Ecomorphological diversification in the Lost World Gillian E. Fuss, University of Toronto
7	Assessing the Potential of Metabarcoding for Measuring Beta Diversity: A Study of Three Plots of Costa Rican Tropical Dry Forest Lisa Ledger, University of Guelph
8	Assessment of below-ground plant diversity in wetland soil through environmental DNA Nicole Fahner, University of Guelph
9	Diversity of exotic and native plant species in urban forests of varying size Meghan Krajchi, Algoma University
10	Predicting the occurrence of a non-native warm water fish species, smallmouth bass (Micropterus dolomieu), in Ontario lakes under future climate change scenarios Samantha Stefanoff, York University
11	The European fire ant in Canada Narisha E. Ali, York University
12	Effects of an invasive slug on native ant-plant seed disperser mutualisms Shannon Meadley Dunphy, University of Toronto
13	Impacts of altered landscapes and future climate on the distribution of woodland caribou (Rangifer tarandus caribou) in Ontario Sara Masood, York University
14	The impacts of climate, habitat alterations, human disturbance, and biotic interactions on Wood Thrush populations Guang Zhang, York University
15	Summer extreme precipitation events drive changes in soil moisture and growth traits in multiple southern Ontario wetland species Teresa J. Didiano, University of Toronto

Environmental influence on sexual dimorphism and sex ratio in a dioecious plant Teresa Maddison, University of Toronto
Effects of simulated recurrent inclement winter weather on the stress response and feeding behaviour of white-throated sparrows (Zonotrichia albicollis) Andrea Boyer, University of Western Ontario
Using social attractants to stimulate common tern nesting in newly created habitat in Lake Ontario Brendan Pynenburg, McMaster University
Molecular phylogenetics and the evolution of reproductive mode in halfbeak fishes from Southeast Asia Ahmed Elbassiouny, University of Toronto
A longitudinal examination of hermit thrush (Catharus guttatus) singing behaviour Jeffrey W. MacLeod, Dalhousie University
The timing of the dawn chorus in a temperate bird community is related to both moonlight and meteorological conditions Jennifer Foote, Algoma University
Circadian variation in ovenbird song rate for two song types Ashley Hunter, Algoma University
Cultural evolution of song: Do zebra finches go wild? Adriana Diez, University of Western Ontario
Can automated recording be used to discriminate among male ovenbird songs? Mandy Ehnes, Algoma University
Identification and characterization of Ostariophysan alarm cues Imane Meddah, Nipissing University
Safety in numbers? An investigation of anti-predator behaviour in a social fish Aderinsola Odetunde, McMaster University
The role of dopamine manipulation on the life history traits and colouration of male guppies Sara Pishdadian, University of Toronto
The effects of L-DOPA on exploratory behaviour in Poecilia reticulata (guppy) Emily Xie, University of Toronto
Influence of intrahippocampal D1-type antagonist, SCH23390, on olfactory discrimination abilities in male and female mice Michelle M. Kivlenieks, University of Guelph
Circulating and urinary adrenal corticosterone, progesterone, and estradiol in response to acute stress in female mice (Mus musculus) Evan D. Borman, McMaster University
Does hippocampal estradiol play a role in the rapid estrogenic improvement of social learning? Kelsy Ervin, University of Guelph
Rapid effects of hippocampal G-protein coupled estrogen receptor on social and object recognition learning in the absence of spatial cues in female mice Jennifer Lymer, University of Guelph
Community Engaged Research Amanda Caskenette, University of Guelph

ACKNOWLEDGEMENTS

OE³C 2014 would not be possible without the generous help from several sponsors. We greatly appreciate the support from the following:



College of Biological Science
College of Social and Applied Human Sciences
Department of Psychology
Office of Research
Student Affairs
Department of Animal and Poultry Science
Office of Graduate Studies
School of Environmental Science
Department of Integrative Biology
Campbell Centre for the Study of Animal Welfare





