

ELEVATOR TALKS SESSION 2 (MODERATOR: KATIE MAUNDER)

14:25 Chloe Melo-Gavin (Agrawal Lab)
Louisa Bartkovich (Bontrager Lab)
Cassandra Pyne (Wright Lab)
Jessie Wang (Frederickson Lab)
Tyra Joe (Ratcliffe Lab)
Sherry Du (Murray Lab)
Joe Kawalec (Molnar Lab)
Jacob Haney (Rochman Lab)

14:50 Break

DAY 2 SESSION 3 TALKS (MODERATOR: PUNEETH DERAJE)

15:10 Francine Da Silva (Kotanen Lab)
The influence of shelter on the establishment of the invasive dandelion, *Taraxacum officinale*, at its northern range limit

15:30 Mete Yuksel (Osmond & Mideo Lab)
Spillcombinavoir: on the role of recombination in viral spillover and emergence

15:50 Dr. Greg Funston (Evans Lab)
Did the meek inherit the Earth? Mammal life history as a filter in the Late Cretaceous extinction

16:10 Garland Xie (MacIvor Lab)
The susceptibility of urban green spaces to plant invasions

16:30 Break

16:50 Atwood Family Introduction

KEYNOTE: ATWOOD MEMORIAL LECTURE

17:00 Dr. Kevin Lafferty (US Geological Survey & UC Santa Barbara)
Parasites and Food Webs

18:00 Closing Remarks

18:30 Graduate Student Appreciation Night at the Faculty Club

Dr. Carl Atwood was a respected forest entomologist, ecologist, and naturalist, who taught at the University of Toronto from 1946 to 1972. Each year, the EEB graduate students select a scientist of high distinction whose work embodies Dr. Atwood's dedication to the ecological sciences to give a lecture in his honour. This lecture series is made possible by a generous endowment from the Atwood family.

The 2023 Atwood Colloquium in Ecology & Evolution was organized by:
Vicki Zhang, Claudia Lacroix, Jill Sanderson, Matthew Osmond, Tomomi Parins-Fukuchi, Puneeth Deraje, Sherry Du, Thomas Dudgeon, Hana Fahim, Thomas Hall, Rob Hechler, Ferne Kotlyar, Lauren Lawson, Katie Maunder, Ellen Nikelski, Cassandra Pyne, Bianca Sacchi, Jessie Wang, Alicia Wong, Meng Yuan, Mete Yuksel, & Adeena Zahid
Artwork & Design by Youngseo Jeong & Alan Bui

ATWOOD LECTURER

KEVIN LAFFERTY

RISING STAR IN ECOLOGY

LAURA DEE

RISING STAR IN EVOLUTION

KELLY MATSUNAGA

WED APRIL 26 &
THURS APRIL 27
KOFFLER HOUSE
KP108

17TH ANNUAL
ATWOOD
COLLOQUIUM IN ECOLOGY & EVOLUTION 2023

WEDNESDAY, APRIL 26

13:00 Opening Remarks

DAY 1 SESSION 1 TALKS (MODERATOR: THOMAS DUDGEON)

- 13:10 **Dr. Mark Hibbins (Wright Lab)**
Resolving the history of sex chromosome evolution in *Rumex* with phylogenomics
- 13:30 **Vanessa Luzuriaga (Weir Lab)**
Populations with high genetic diversity are more evolvable than populations with strong divergent selection
- 13:50 **Adeena Zahid (Jackson Lab)**
Population Ecology, Habitat Selection, Movement, and Life History in a Native Crayfish *Cambarus bartonii* Population in Ontario
- 14:10 **Arthur Leung (R. Sage Lab)**
Anatomy drives early events in the evolution of C4 photosynthesis
- 14:30 **Dale Pebesma (Gilbert & Jackson Labs)**
Dynamics of Long-term Change in Benthic Invertebrate Communities in the Credit River Watershed

14:50 Break

DAY 1 SESSION 2 TALKS (MODERATOR: THOMAS HALL)

- 15:05 **Athmaja Viswanath (Cutter Lab)**
Gene Regulatory Divergence as a mechanism for hybrid incompatibility
- 15:25 **Joe Moysiuk (Caron Lab)**
Integration and modularity in the Cambrian diversification of arthropods
- 15:45 **Lucas Albano (Johnson Lab)**
When plants press their luck: A trans-continental test for adaptation to climate in white clover.
- 16:05 **Saher Alvi (Sztepanacz Lab)**
The Role of Sexual Selection and Immigration in Rapid Adaptation to Novel Environments in *Drosophila suzukii*
- 16:25 **Madeline Jarvis-Cross (Krkosek Lab)**
Environmental variability can promote parasite diversity within hosts
- 16:45 Break

KEYNOTE: RISING STAR IN ECOLOGY

- 17:05 **Dr. Laura Dee (University of Colorado, Boulder)**
Putting ecological theory to work for conservation

18:30 Pub Night at Pour House Pub and Kitchen (182 Dupont St)

THURSDAY, APRIL 27

08:30 Breakfast

DAY 2 SESSION 1 TALKS (MODERATOR: ADEENA ZAHID)

- 09:10 **Prashastha Mishra (Agrawal Lab)**
Evolution of sex-biased gene expression under alternative mating treatments
- 09:30 **Dr. Amanda Schwantes (Fortin Lab)**
Bayesian Belief Networks reveal how an underlying driver shapes interactions among ecosystem services
- 09:50 **Dr. Soren Brothers (Brothers Lab)**
Climate, Lakes, and... Museums?
- 10:10 **Claudia Lacroix (Rollinson Lab)**
Singing snappers! Do vocalizations facilitate coordinated nest emergence in wild turtle nests?
- 10:30 Break

KEYNOTE: RISING STAR IN EVOLUTION

- 10:50 **Dr. Kelly Matsunaga (University of Kansas)**
Homology and heterochrony in the evolution of conifer reproduction

11:50 Lunch

ELEVATOR TALKS SESSION 1 (MODERATOR: KATIE MAUNDER)

- 13:20 **Thomas Dudgeon (Evans Lab)**
Alicia Wong (Cutter Lab)
Jon Kubelka (D'Aloia Lab)
Luna Taguchi (Mideo Lab)
Alan Bui (Jackson Lab)
Nicole Regimbal (Baines Lab)
Evan Hessels (Lujan Lab)
Pascale Bider (MacIvor Lab)
Kate Medcalf (Krkosek Lab)

DAY 2 SESSION 2 TALKS (MODERATOR: ADEENA ZAHID)

- 13:45 **Puneeth Deraje (Osmond Lab)**
Using Ancestral Recombination Graphs to infer dispersal rate and locate every genetic ancestor.
- 14:05 **Meng Yuan (Stinchcombe & Wright Labs)**
Evolutionary genomics of gametophytic selection in an angiosperm and a moss species