

ATWOOD COLLOQUIUM IN ECOLOGY & EVOLUTION

April 7th & 8th, 2017

University of Toronto
Koffler House



ATWOOD LECTURER
Edmund D. Brodie III

RISING STAR IN ECOLOGY

Elizabeth Wolkovich

RISING STAR IN EVOLUTION

Catherine Wagner

FRIDAY 7TH APRIL

1:30 OPENING REMARKS

MODERATOR: VIVIANA ASTUDILLO-CLAVIJO

1:35 **David Timerman** | Barrett Lab, St. George

The aerodynamics of pollen release in wind and insect pollinated flowering plants

1:55 **Abby Daigle** | Jackson Lab, St. George

Detecting the impact of climate change on a boreal freshwater fish community

2:15 **Arjan Banerjee** | Stefanovic Lab, UTM

Plastid genome evolution in the parasitic plant genus *Cuscuta* (Convolvulaceae)

2:35 **Madeline Peters** | Weis Lab, St. George

Population genetics of flowering time: extending isolation by distance to include isolation by time

2:55 BREAK

MODERATOR: NISHANT SINGH

3:20 **Julia Kreiner** | Wright & Stinchcombe Labs, St. George

Population genomics of herbicide resistance and agricultural adaptation in *Capsella bursa-pastoris*

3:40 **Michael Foisy** | Rodd & Mahler Labs, St. George

The non-sexual origins of sexual preferences and ornaments in livebearing fishes

4:00 **Maya Sonnenschein Faccio** | Weir Lab, UTSC

Sexual differences in plumage introgression across an avian hybrid zone

4:20 **Danielle de Carle** | Kvist Lab, ROM

Phylogeny and evolution of the leech genus *Placobdella*

4:40 BREAK

5:00 **Catherine Wagner** | University of Wyoming

RIISING STAR IN EVOLUTION

Speciation and diversity in African cichlid fish radiations

6:00 **SOCIAL AT GSU PUB**

The Atwood Colloquium in Ecology and Evolution was organized by

Nicole Mideo, Luke Mahler, Abby Daigle, Danielle de Carle,
Stephanie Penk, Ao Wang, Viviana Astudillo-Clavijo, Denon Start,
Amardeep Singh, Rebecca Schalkowski, Julia Kreiner
& Devin Kirk

SATURDAY 8TH APRIL

8:30 BAGELS & FRUIT

MODERATOR: THOMAS CULLEN

9:10 **Brechann McGoey** | Stinchcombe Lab, St. George
Adaptive potential of native and introduced ragweed populations

9:30 **James Boyko** | Mahler Lab, St. George
Testing for character displacement in Lesser Antillean anoles

9:50 **Eddie Ho** | Agrawal Lab, St. George
Mutation accumulation in selfing populations when selection fluctuates in intensity

10:10 **Josianne Lachapelle** | Ness Lab, UTM
Experimental genomics of the evolutionary transition from fresh to salt water

10:30 **Melanie Massey** | Rollinson Lab, St. George
The effects of climate change on sex determination and timing of developmental events in a northern population of snapping turtles

10:50 BREAK

11:15 **Elizabeth Wolkovich** | Harvard University
RISING STAR IN ECOLOGY
The race for spring: how climate change alters plant communities

12:15 LUNCH

MODERATOR: FELIX BEAUDRY

1:30 ELEVATOR TALKS

Stephanie Penk | Molnar Lab, UTSC

Katrina Kaur | Frederickson Lab, St. George

Ashley Reynolds | Evans Lab, ROM

Andrew Chin | Fortin Lab, St. George

Rosemary Martin | McCauley Lab, UTM

Carina Firkowski | Cadotte & Fortin Labs, UTSC & St. George

Chris Boccia | Mahler Lab, St. George

1:45 **Marc Cadotte** | UTSC

Functional traits explain ecosystem function through opposing mechanisms

2:05 **Connor Fitzpatrick** | Johnson Lab, UTM

When in drought: the effect of water stress on the plant root microbiome

2:25 **Amanda Xuereb** | Fortin Lab, St. George

Dispersal, connectivity and spatial genetic structure in the sea

2:45 MODERATOR: FELIX BEAUDRY
ELEVATOR TALKS

Hollis Dahn | Rollinson & Murphy Labs, St. George & ROM
Molly Hetherington-Rauth | Johnson Lab, UTM
Gigi Hoi | Mideo Lab, St. George
Ashley Bramwell | Weir Lab, UTSC
Jasmina Uzunović | Wright Lab, St. George
Leila Forsyth | Gilbert Lab, St. George
Sean Anderson | López-Fernández Lab, ROM

3:00 BREAK

3:20 MODERATOR: DEVIN KIRK
Philip Greenspoon | Mideo Lab, St. George
Parasite transmission among relatives halts Red Queen dynamics

3:40 **Mateusz Wosik** | Evans Lab, ROM
Ontogenetic gait shifts in duck-billed dinosaurs

4:00 **Rebecca Schalkowski** | Cutter Lab, St. George
Does size matter? Giant sperm in *Caenorhabditis* worms

4:20 **Sarah French** | McCauley Lab, UTM
The landscape context of dragonfly movement and distributions

4:40 BREAK

5:00 **Edmund D. Brodie III** | University of Virginia
ATWOOD LECTURER
Channel surfing the adaptive wave: convergence, constraint and contingency in the evolution of tetrodotoxin resistance

6:30 **GRADUATE APPRECIATION NIGHT**
University of Toronto Faculty Club



Dr. Carl Atwood was a respected 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.