

EEB Colloquium 2009

All talks will be held in Koffler Inst Pharmacy Mgmt (KP) 108.

Friday April 17

- 1:00 Opening remarks
- 1:05 Andrew MacDonald (Kotanen Lab, UTM)
Testing the assumptions and predictions of the Enemy Release Hypothesis
- 1:25 Thomas Braukmann (Stefanovic Lab, UTM)
Concerted loss of all *ndh* genes from plastids of Gnetales and Pinaceae supports the ‘gnepine’ hypothesis
- 1:45 Alethea Wang (Agrawal Lab, St. George)
Selection, epistasis and parent-of-origin effects on deleterious mutations across environments in *Drosophila melanogaster*
- 2:05 Nathan Muchhala (Thomson Lab, St. George)
Comparison of male gain curves may explain why bat-flowers produce so much pollen
- 2:25 Break
- 2:45 Brie Edwards (Jackson Lab, St. George)
Community approaches and concepts in the context of conservation
- 3:05 Ryan Schott (Evans Lab, ROM)
Extreme cranial ontogeny in the dinosaur *Stegoceras validum*: implications for pachycephalosaurid systematics and evolution
- 3:25 Jim Anderson (UTM)
Whole-genome sequencing of experimental yeast populations identifies determinants of divergent adaptation and reproductive isolation
- 3:45 Josie Hughes (Fortin Lab, St. George)
Does density-dependent dispersal explain mountain pine beetle spread: performance of models across years and regions
- 4:05 Break
- 4:20 Keynote Speaker – Dr. Mark Urban (University of Connecticut)
Ecology and evolution of species interactions across heterogeneous environments

5:20 Reception in GSU Pub.

Saturday April 18

9:00 Coffee & bagels

9:20 Shannon McCauley (Rowe Lab, St. George)
North American range size in libellulid dragonflies: correlations with dispersal behavior and niche breadth

9:40 Rosalind Murray (Cutter Lab, St. George)
Experimental evolution of sperm number in *Caenorhabditis elegans* hermaphrodites

10:20 Jacqueline Miller (Engstrom Lab, ROM)
From audible to ultrasound in vocal signals: a phylogenetic example

10:00 Peter Abrams (St. George)
The shape of density dependence

10:40 Break

11:00 Keynote Speaker – Dr. Leonie Moyle (Indiana University)
From genomics to GIS: origins of diversity and species in wild *Solanum*

12:00 Lunch provided - 3rd floor of ESC (by EEB Admin Offices)

1:30 Sarah Yakimowski (Barrett Lab, St. George)
Sexual system transitions: the roles of sex inconstancy and hybridization

1:50 Brechann McGoey (Stinchcombe Lab, St. George)
Made in the shade: Competitive context affects phenotypes, selection, and fitness in *Impatiens capensis*

2:10 Clement Kent (Sokolowski Lab, UTM)
Plasticity and gene by environment interactions - pleiotropic effects of the foraging gene on fly behaviours, metabolites, and gene expression

2:30 Shidan Murphy (Collins Lab, UTM)
Thermal habitat characteristics for warm water fish in coastal embayments of Lake Ontario

2:50 Break

3:10 Laura Robson (Gwynne Lab, UTM)

- Measuring sexual selection on female Mormon crickets (*Anabrus simplex*), a sex-role reversed katydid (Orthoptera: Tettigoniinae)
- 3:30 Paul Foxe (Wright Lab, St. George)
Population Genetics of Mating System Transitions: Case Studies in *Capsella* and *Arabidopsis*
- 3:50 Kate Edwards (Jefferies Lab, St. George)
Nitrogen uptake by *Carex aquatilis* during spring thaw in Arctic wet sedge meadows
- 4:10 Break
- 4:30 ATWOOD MEMORIAL LECTURE
Dr. Mike Ryan (University of Texas at Austin)
Sexual Selection and Communication in the Tungara Frog: Brain, Behavior, and Evolution
- 6:00 Atwood Lecture Reception at Hart House (South Dining Room)