

The University of Kentucky

Center for Ecology, Evolution and Behavior

2005 Spring Research Symposium Thursday, May 12 Ag Science Center North, room N12

- 9:00** **Damon Orsetti** (Biology, UK) – Copulation time and sperm transfer as a mechanism for post-copulatory biasing
- 9:15** **Chad Smith** (Biology, UK) – The tale of two evils: sexual conflict and female density dependence in a poeciliid fish
- 9:30** **Zhiyong Xi** (Entomology, UK) – Manipulating *Aedes aegypti* populations using a *Wolbachia* infection from *Aedes albopictus*
- 9:45** **Michael Seagraves** (Entomology, UK) – Vegetational diversification to augment the native lady beetle *Coleomegilla maculata* in sweet corn and its impact on the biological control of the corn earworm
- 10:00** **Wes Daniel** (Biology, U Louisville) – Impacts of urbanization on aquatic food webs along an anthropogenic gradient in Louisville metro area: Current and historical perspectives
- 10:15** **Kelly DiGian** (Psychology, UK) – Within-trial contrast in pigeons: Testing the model
- 10:30** **Amanda Ensminger** (Biology, UK) – Characterizing Mhc variation in house sparrows
- 10:45** **Break**
- 11:00** **Keynote Speaker: Kay Holekamp** (Michigan State University) – The evolutionary ecology of role-reversed sex differences in the spotted hyena: a tale of adaptation & constraint
- 12:00** **Lunch**
- 12:30** **Students meet the speakers (Shuster and Holekamp)**
- 1:30** **Break**
- 1:45** **Richard Pirkle** (Biology, U Louisville) – A comparative study: Trihalomethane levels and possible influencing factors in two Kentucky reservoirs
- 2:00** **Dennis Morrell** (Psychology, UK) – Biologically neutral differential outcomes in the pigeon
- 2:15** **David Word** (Biology, U Louisville) – The effects of mountaintop removal on headwater streams in eastern Kentucky
- 2:30** **Marica Bernstein** (Biological Science, U. Cincinnati) – Thrifty rats: Accommodating long-term protein malnutrition
- 2:45** **Break**
- 3:00** **David Peyton** (Morehead State) – A minisatellite in the growth hormone gene of Esocidae is derived from a single copy element in the salmonid genome
- 3:15** **Barb Sharanowski** (Entomology, UK) – Problems in resolving Helconinae (Hymenoptera: Braconidae) phylogeny using morphology
- 3:30** **Jeremiah Smith** (Biology, UK) – A major effect quantitative trait locus contributes to discrete and continuous variation in metamorphic timing
- 3:45** **Kevin Pitz** (Entomology, UK) – Resolving generic limits within Cenocoeliinae (Hymenoptera: Braconidae) using molecular data
- 4:00** **Ian Stewart** (Biology, UK) – Food supplementation and extra-pair paternity in house sparrows
- 4:15** **Break**
- 4:30** **Keynote Speaker: Steve Shuster (Northern Arizona University)** – The expression of mating strategies
- 6:00** **Ultimate Frisbee, Good Barn Field**
- 7:30** **Social at Chuck's house** (soda, juice and snacks provided; BYOB)

Sponsored by the University of Kentucky Department of Entomology, the University of Kentucky College of Agriculture and the University of Kentucky Executive Vice President for Research



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2005 Spring Research Symposium Friday, May 13 Ag Science Center North, room N12

- 9:00** **Andrew Berry** (Biology, UK) – LiDAR remote sensing for measuring vertical structure at Silver Lake Farm
9:15 **Eric Fabio** (Forestry, UK) – Forest stand-level control on nitrogen cycling and decomposition at Mammoth Cave National Park
9:30 **Marty Acker** (Forestry, UK) – TBA
9:45 **Tara Littlefield** (Forestry, UK) – Carbon and nutrient dynamics in regenerating forests within the eastern Kentucky coal fields
10:00 **Andy Boring** (Entomology, UK) – The Hymenopteran ovipositor as a character system for phylogenetic analysis
10:15 **Karunyakanth Mandapaka** (Biology, U. Cincinnati) – Structural description of the visual system in the larvae of *Thermonectus marmoratus* (sunburst diving beetles)
10:30 **Janet Lensing** (Entomology, UK) – Effects of altered rainfall on the arthropods and processes of the forest floor
10:45 **Break**
11:00 **Keynote Speaker: Frank Gilliam** (Marshall University) – Effects of excess nitrogen on biodiversity of a hardwood forest ecosystem: response of the herbaceous layer
12:00 **Lunch**
12:30 **Students meet the speakers (Gilliam and Fairbairn)**
1:30 **Break**
1:45 **Cathy Rehmeyer** (Plant Pathology, UK) – Organization and evolution of chromosome ends in the fungus *Magnaporthe oryzae*
2:00 **Mark Farman** (Plant Pathology, UK) – Mechanisms of telomere variation in *Magnaporthe oryzae*
2:15 **John Niedzwiecki** (Biology, U. Cincinnati) – TBA
2:30 **Andrew Clack** (Biology, U Cincinnati) - Ratite phylogenetics and phylogeography using ancient nuclear DNA from NZ's extinct moa
2:45 **Break**
3:00 **Mark Bostrom** (Entomology, UK) – Coloration of skin, but not plumage as a possible status signal in male American Kestrels (*Falco sparverius*) during the non-breeding season
3:15 **Matthew Beckett** (EKU) – Singing behavior of male Indigo Buntings (*Passerina cyanea*): effects of breeding stage, age, and behavioral context
3:30 **David Westneat** (Biology, UK) – No evidence of current sexual selection on sexually-dimorphic traits in a bird with high variance in reproductive success
3:45 **Craig Stillwell** (Entomology, UK) – Geographic variation in body size and sexual size dimorphism of the seed beetle *Stator limbatus*
4:00 **Charles Fox** (for Kristy Scheibly; Entomology, UK) – Purging of deleterious alleles and the genetics of inbreeding depression in a seed beetle
4:15 **Break**
4:30 **Keynote Speaker: Daphne Fairbairn** (University of California, Riverside) – Sexual dimorphism in water striders: a case study of adaptation in response to sexually antagonistic selection

Friday night on the town: Ian Stewart, coordinator

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