

The University of Kentucky

Center for Ecology, Evolution and Behavior

2004 Spring Research Symposium Thursday, May 13, Ag North, Room N12

- 8:00** **Katja Seltmann** (Entomology, UK) – Interactive keys for insect identification: A brief demonstration
- 8:15** **Scott Quinton** (Entomology, UK) – Interactions between the European corn borer, *Ostrinia nubilalis* and the corn leaf aphid, *Rhopalosiphum maidis* on high-oil maize in Kentucky.
- 8:30** **Scott Lynn** (Biology, UK) – Understanding estrogen-dependent sexually dimorphic growth in yellow perch (*Perca flavescens*).
- 8:45** **Karen Friley** (Entomology, UK) – Biological control of the European corn borer, *Ostrinia nubilalis*, by inundative releases of the parasitic wasp, *Trichogramma ostrinae* in bell peppers, *Capsicum annuum*.
- 9:00** **Nicki Mundell** (Plant Pathology, UK) – Ecology of the insect-vectored plant-pathogenic bacterium, *Xylella fastidiosa*.
- 9:15** **Break**
- 9:30** **Mary Arthur** (Forestry, UK) – Do species matter? Understanding the role of species composition in ecosystem function.
- 9:45** **Michael Loughlin** (Anthropology, UK) - Prehispanic cultural ecology and settlement patterns at El Meson, Veracruz, Mexico
- 10:00** **Sonja Brannon** (Entomology, UK) – Photoperiodic induction of reproductive diapause in the big-eyed bug *Geocoris uliginosus*.
- 10:15** **Osee Sanog** (Entomology, UK) – Crossing incompatibilities in mosquitoes of the *Culex pipiens* complex: What's behind the scene?
- 10:30** **Saiful Islam** (Entomology, UK) – Effect of *Wolbachia* on immature developmental rate and adult survivorship in *Aedes albopictus*.
- 10:45** **Break**
- 11:00** **Keynote Speaker: Fred Janzen** – Exploring the evolutionary ecology of environmental sex determination.
- 12:00** **Lunch**
- 1:00** **Jessica Hancock** (Forestry, UK) – Carbon allocation across a gradient of beech bark disease in the Catskill Mountains, NY.
- 1:15** **Solange Lewis** (Biology, Univ. Cincinnati) – Identifying stress-responsive genes in the fathead minnow.
- 1:30** **Dave Weisrock** (Biology, UK) – Molecular phylogeographic analysis of salamanders
- 1:45** **Ginnie Lintecum** (Biology, UK) – Acidification affects olfactory response in the fathead minnow (*Pimephales promelas*).
- 2:00** **Ben Brammell** (Biology, UK) – Pollutant response in species inhabiting chronically contaminated habitats.
- 2:15** **Dave Westneat** (Biology, UK) – The ecology of immunity in nestling house sparrows
- 2:30** **Break**
- 2:45** **Jacob Ball** (Biology, UK) – Does the plant, *Marchantia infelxa*, respond to light environments in the field?
- 3:00** **Nicole Sudler** (Biology, UK) – The effects of competition and physiological integration on fitness-related traits in *Viola blanda*.
- 3:15** **Andrea Friedrich** (Psychology, UK) – Pigeons have absolute pitch, but humans don't.
- 3:30** **Avi Eitam** (Entomology, UK) - Effects of *Wolbachia* on population dynamics of the mosquito *Aedes albopictus*.
- 3:45** **Amy Samuels** (Biology, UK) – Comparative analysis of five complete Ambystomatid salamander mitochondrial genomes
- 4:00** **Angela Amarillo** (Entomology, UK) – Patterns of host use in populations of a seed parasitoid adapted to different hosts: consequences of seed quality and seed size.
- 4:15** **Debra Murray** (Entomology, UK) – Selecting genes for a large scale project: can't we all just get along?
- 4:30** **Break**
- 4:45** **Keynote Speaker: Larry Gilbert** (University of Texas at Austin) – The *Passiflora*-based food web: an opportunity for the study of ecological hotspots and evolution of novelty.
- 6:30** **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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2004 Spring Research Symposium Friday, May 14, Ag North, Room N12

- 8:00** **Carlos Sarmiento** (Entomology, UK) – Testing the consequences of the Quasi-Batesian mimicry model.
- 8:15** **Kevin Pitz** (Entomology, UK) – Revealing generic limits using morphological and molecular data: the *Foenomorpha* folly
- 8:30** **David Lyon** (Forestry, UK) – Persistence of eastern red cedar effects on glade soil properties and plant community composition.
- 8:45** **Adam Lindstrom** (Plant Pathology, UK) – A test for coevolution of grasses and their endophytic symbionts.
- 9:00** **Kristy Allen** (Entomology, UK) – Inbreeding depression: why you shouldn't mate with your siblings.
- 9:15** **Break**
- 9:30** **Chad Smith** (Biology, UK) – Testing for sexual conflict over mating in the mosquitofish *Gambusia affinis*.
- 9:45** **Craig Sargeant** (Biology, UK) – Visual ecology and polarized light preference in a Trinidadian guppy
- 10:00** **Michael Seagraves** (Entomology, UK) – Potential augmentation of the native lady beetle *Coleomegilla maculata*, a key natural enemy of the corn earworm.
- 10:15** **Mark Farman** (Plant Pathology, UK) – Fungal telomeres: chromosome regions harboring genes with roles in niche adaptation.
- 10:30** **David Eakin** (Eastern Kentucky University) – If creationism is religion - can we bash it in the classroom?
- 10:45** **Break**
- 11:00** **Keynote Speaker: Karen Oberhauser** (University of Minnesota) – Population dynamics of a migratory insect: Using citizen monitoring, modeling and experimental approaches to understand monarch butterflies.
- 12:00** **Lunch**
- 1:00** **Jerome Faulkner** (Plant Pathology, UK) - Roles and evolution of loline alkaloids produced by plant-symbiotic fungi.
- 1:15** **Simona Florea** (Plant Pathology, UK) – Roles of ergot alkaloids produced by plant-symbionts and pathogens.
- 1:30** **Ian Stewart** (Biology, UK) – Extra-pair paternity in house sparrows: the quest for genetic diversity?
- 1:45** **James Harwood** (Entomology, UK) – An analysis of the use of immunological and molecular techniques in predator-prey studies.
- 2:00** **John Niedzwiecki** (Biology, UK) – Genealogical comparisons of nuclear and mitochondrial markers between populations of the salamanders *Ambystoma barbouri* and *Ambystoma texanum*.
- 2:15** **Sean Clark** (Berea College) – Ground beetle communities in conventional, organic, and no-till farming systems of the mid-Atlantic region.
- 2:30** **Nicholas McLetchie** (Biology, UK) – Identification of sex-specific DNA markers and use of these markers to detect sex ratios in the dioecious clonal plant, *Marchantia inflexa*.
- 2:45** **Break**
- 3:00** **Jason Rohr** (Biology, UK) – A perspective on the future of ecotoxicology.
- 3:15** **Chris Schardl** (Plant Pathology, UK) – A test of the phylogenetic species concept.
- 3:30** **Marica Bernstein** (Biology, Univ. Cincinnati) – Effects of chronic protein malnutrition on maternal behavior.
- 3:45** **Stephanie Peters** (Biology, Univ. Cincinnati) – TBA.
- 4:00** **Liz Loucks** (Forestry, UK) – The effects of landscape scale prescribed fire on fuel loading in an Appalachian hardwood forest, KY.
- 4:15** **Chuck Fox** (Entomology, UK) – Complex genetic architecture of population differences in adult longevity of a beetle: Non-additive inheritance, gender differences, body size and a large maternal effect.
- 4:30** **Break**
- 4:45** **Keynote Speaker: David Reznick** (University of California at Riverside) – Gould and Eldredge were partly Wright, but mostly wrong: What natural selection can do for evolution.

Friday night on the town: Ian Stewart, coordinator

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