

**Guest Speakers Program – 2008-2009**  
**Wake Forest University – Department of Biology**

**Dr. Miriam Ashley-Ross – Functional morphology**

Topic 1: From water to land: the evolution of tetrapod locomotion

Topic 2: Seahorses and pipefish: powering high-frequency operation in a dense medium.

**Dr. William Conner - Insect behavior**

Topic 1: Bats, moths, and poetry: The bat/moth arms race.

Topic 2: Sex, drugs, and videotape: Evolution of chemical communication in tiger moths.

Topic 3: Darwin's moths: Chemical ecology of a tiger moth in the Galapagos Islands.

**Dr. James Curran – Translational regulation in protein synthesis**

Topic: Studies on ribosomal decoding.

**Dr. Ronald Dimock – Invertebrate/marine biology**

Topic: Buttons & bows & pearls: The biology of freshwater mussels - a taxon in peril.

**Dr. Herman Eure – Parasitology**

Topic: The effects of temperature, season and latitude on the population dynamics of two enteric parasites in a South Carolina reservoir.

**Dr. Erik Johnson – Neural control of behavior**

Topic 1: Sorting out the signals: Drosophila neuropeptides and their receptors.

Topic 2: “Am not I a fly like thee?” : Conservation of the neuroendocrinology of stress.

**Dr. Brian Tague – Plant Developmental Biology**

Topic 1: Biotechnology: peril or promise?

Topic 2: On being biennial: How plants perceive cold.

**Dr. Raymond Kuhn – Immunology**

Topic 1: The immunology of host-parasite relationships.

Topic 2. The bizarre fungus that is decimating amphibians world-wide.

**Dr. Gloria Muday – Cell biology and biochemistry**

Topic 1: Hormonal control of plant growth and development

Topic 2: The information superhighway in cells: protein targeting

**Dr. Miles Silman – Community ecology**

Topic 1. Amazonian and Andean Biodiversity: Past, Present, and Future.

Topic 2. What was natural in the Amazon basin? 1491 revisited

**Dr. Wayne Silver – Neurobiology**

Topic 1: Tongues and noses – Truth or lies: Understanding the chemical senses

Topic 2: Chemesthesis: The other chemical sense

**Dr. William Smith – Physiological ecology**

Topic 1: Plant survival in extreme environments: the alpine treeline.

Topic 2: Plant form and photosynthetic function: scaling from the chloroplast to landscape.

**Dr. Peter Weigl – Ecology**

Topic 1: Rare animals, declining habitats and the fine art of French cooking

Topic 2: The riddle of the Appalachian grassy balds: Pleistocene relict or human artifact?

Topic 3: Getting a grip on predation: raptor talons and species packing in eastern forests

**Dr. Susan Fahrbach – Neurobiology**

Topic: How the Bee Brain Grows Up