

**STUDENT RESEARCH PRESENTATIONS**  
**AGRICULTURAL BIOTECHNOLOGY PROGRAM (ABT 395)**  
Cameron Williams Lecture Hall – Plant Science Building  
December 8, 2005

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**1:00 PM Welcome and Introduction**

**1:15 PM** Functional Analysis of Terpene Synthases in *Arabidopsis thaliana* Using the Surrogate Splicing Method.

**Keith D. Allen**

*Mentor: Dr. Joseph Chappell, UK Department of Plant and Soil Science*

**1:30 PM** Differential Blood Alcohol Concentrations Between Older and Younger Moderate Alcohol Drinkers

**Scott Serdoz**

*Mentor: Dr. Sara Jo Nixon, Nuerocognitive Laboratory, UK Department of Psychology*

**1:45 PM** Analysis of a Candidate Gene for a Pigment Mutant in *Ambystoma mexicanum*

**Shawn Mulberry**

*Mentor: Dr. Randal Voss, UK Biology Department*

**2:00 PM** Biotechnology and Middle School Students

**Larry Greunke**

*Mentor: Dr. Joseph Chappell, UK Department of Plant and Soil Science*

**2:15 PM** Phenobarbital-Induced Delay of the Estrus Cycle in Proestrus Golden Hamsters with Phase Advance of the Circadian Pacemaker

**Christopher Reinhardt**

*Mentor: Dr. Sandra Legan, UK Department of Physiology*

**2:30 PM BREAK**

**2:45 PM** Analysis of Citrus Valencene Synthase (CVS)

**Thomas Niehaus**

*Mentor: Dr. Joseph Chappell, UK Department of Plant and Soil Science*

**3:00 PM** Characterization and Evolutionary Structure of *Bacillus-anthraxis-cerus-thuringiensis* Group Isolates as Determined by Sequence Analysis of Seven Housekeeping Genes

**Carrie Shaffer**

*Mentor: Dr. Robert James Robertson, Counterterrorism and Forensic Science Research Unit, FBI, Quantico, VA; Dr. Robert Houtz, UK Department of Horticulture*

**3:15 PM** Optimization of Wolbachia transfection in *Aedes. albopictus* via Embryonic Microinjection and Determination of Mitochondria Transfer in Transfected Lines

**Cecilia Ng**

*Mentor: Dr. Stephen Dobson, UK Department of Entomology*

**3:30 PM** Nutrient Utilization in Polypay and Percentage White Dorper Lambs Fed a High Roughage and a High Concentrate Diet

**Andrea Lundsford**

*Mentor: Dr. Donald G. Ely, UK Department of Animal and Food Science*

**3:45 PM Rationale for and Presentation of First and Second Place Seminar Awards**

**4:00 PM Reception**

