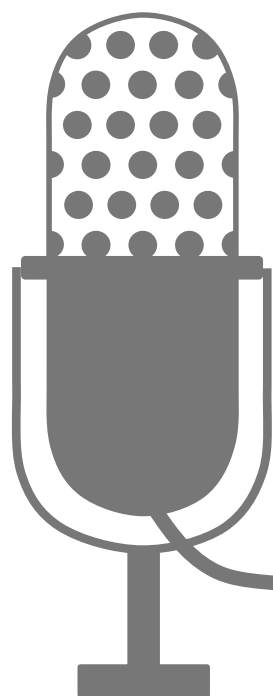
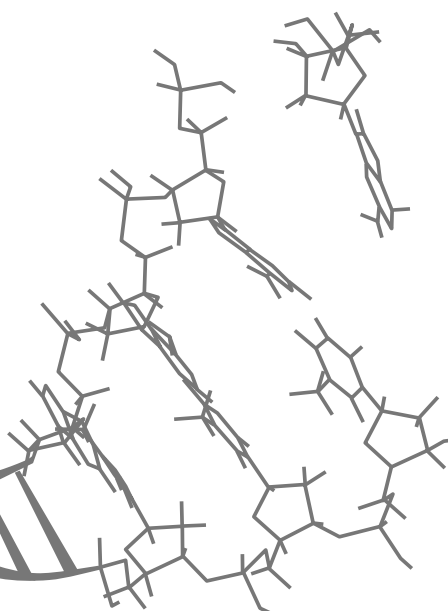


N i n t h A n n u a l



Senior Research Symposium



Kline Hall of Science · Jordan Science Center
Thursday, December 10, 2009 4:30 - 8:45 PM

Oral Presentations ~ Session 1 4:30 - 6:20

Hollinger Lounge:

- 4:30 Dr. Karl Oberholser. Welcome and Announcements
- 4:35 Jeff Erikson Session 1 Introduction
- 4:40 Jennifer Hellmann... Assessing stream health in the Conodoguinet Creek
- 5:00 James Stout..... Feeding ecology of the slimy sculpin (*Cottus cognatus*)
- 5:20 Sarah Moreland The unknown stench: Analyzing soil samples from Cedar Run to discover the chemical identity of a malodorous water contaminant
- 5:40 Joshua Stone..... Macrophyte distribution in limestone streams of South-Central Pennsylvania
- 6:00 Garrett Ridge Algal remediation of streams contaminated by acid mine drainage



Kline 120:

- 4:35 Dr. Karl Oberholser. Welcome and Announcements
- 4:40 Jaime Emberger Synthesis of organothiol ligands for arsenic (III) supramolecular complex studies
- 5:00 Andrew Thompson.. *Arabidopsis thaliana* exposed to exogenous histidine exhibits increased nickel tolerance and uptake
- 5:20 Gabriel Fickett..... Environmental nickel and *Arabidopsis thaliana*: Accumulation, localization, and the effect of propagation on a nickel-free medium
- 5:40 William Miller..... Initial survey of vegetation and rodent population on a shortgrass prairie remnant
- 6:00 Sharon Paul Characterization of the *in vitro* growth and *in vivo* antibody production of two CCKCR monoclonal hybridoma cell lines



Poster Session 1 & Dinner Break 6:20 - 7:00

In addition to posters specified in Oral Presentations Session 1, the following posters will also be presented:

- Anne Jones A preliminary analysis of enzymes PP2C and Ptc3
- Nick Sterling Synthesis of structural analogs of Aspernigrin A



Oral Presentations ~ Session 2 7:00 - 8:20

Hollinger Lounge:

- 7:00 Naomi DeYoung Isolation and analysis of pigments of *Omphalotus illudens*
- 7:20 Derek Howard..... Approaches toward the synthesis of 4-hydroxy-6-methylphenylpyrone
- 7:40 Katrina Martin..... Synthesis and solubility of stoichiomers in the copper hydroxyl nitrate mineral system
- 8:00 Jennifer Esbenshade Removal of sunscreen compounds from swimming pool water using self-organized TiO₂ nanotubular array electrodes



Kline 120:

- 7:00 Christina Awad..... Endogenous cholecystokinin (CCK) expression in human pancreatic cancer
- 7:20 Timothy Leidy..... Installation and initial use of a digitally-controlled focusing and CCD camera image capture system with deconvolution software to image fluorescent cells
- 7:40 William Smallridge .. Use of quantitative real time PCR to determine the genotype of Green Fluorescent Protein (GFP) transgenic mice
- 8:00 Laura Bowers..... Determining the CDR region sequences of antigen receptor subunits expressed by CD4+ hybridoma clones specific for SV40 T-antigen



Poster Session 2 8:20 - 8:45

A corresponding research poster is available. The author will be present for questions during Poster Session 1.

A corresponding research poster is available. The author will be present for questions during Poster Session 2.

For students receiving credit for attendance at the symposium, accompanying multiple choice questions are available for this presentation/poster.