

Kalamazoo College Biology Department

*Diebold Symposium*

Schedule of Events



Thursday, May 2, 2002

**Opening Session, Keynote Speaker, Dow 226, 4:00 p.m.**

4:00-5:00 Professor Warren Burggren, Dean of College of Arts and Science at the University of North Texas  
"Hearts, Missiles and Armadillos: An Odyssey in Developmental Physiology"  
Reception Following

Friday, May 3, 2002

**Lecture Session, Dow 226, 4:00-6:00 p.m.**

4:00-4:30 Stephanie Cochran T CELL DIFFERENTIATION WITHIN AN INNOVATIVE THREE-DIMENSIONAL COLLAGEN MATRIX  
4:30-5:00 Peter Cowan THE HYDRAULIC DESIGN OF MESOMORPHIC TREE LEAVES: HYDRAULIC RESISTANCE, ANATOMICAL CORRELATES, AND THE EFFECTS OF DAMAGING VENATION  
5:00-5:30 Emily Farrer RESOURCE COMPETITION BETWEEN A C<sub>3</sub> AND A C<sub>4</sub> GRASS SPECIES: INDIVIDUAL AND POPULATION LEVEL RESPONSES  
5:30-6:00 Mary Hofmeister THE PRESENCE AND ACTIVITY OF THE SRC FAMILY OF TYROSINE KINASES IN THE NUCLEUS OF HUMAN MONONUCLEAR CELLS

**Poster Session, Dow Third Floor, 7:00-8:15 p.m.**

Erika Anderson FUNCTIONALITY OF HYPERSPECTRAL MEASUREMENTS IN VEGETATION ANALYSIS: COMPARISON OF REMOTE SENSING TO TRADITIONAL METHODS IN THE ALASKAN ARCTIC  
Becky Bielang  
Sarah DiPonio INVESTIGATION OF FMRF-AMIDE AND SCP AS TARGETS FOR THE JUVENILE HORMONE NUCLEAR RECEPTOR  
CHARACTERIZATION OF A CULTURE SYSTEM FOR RAT RETINAL GANGLION CELLS: TOWARDS A SCREEN FOR POTENTIAL NEUROPROTECTIVE COMPOUNDS  
C. Emi Fergus STUDYING EVOLUTIONARY CONSTRAINTS ON AN INVARIANT FLORAL TRAIT IN WILD RADISH *RAPHANUS RAPHANISTRUM*  
Daniel Flewelling FUNCTION OF THE TAD/PEST DOMAINS IN THE MOUSE NOTCH1 AND NOTCH4 GENES  
Alfred Hart A SHIFT IN FEEDING BEHAVIOR FROM THE JUVENILE TO ADULT IN THE GIANT ACORN BARNACLE *BALANUS NUBILUS* DARWIN WITH OBSERVATIONS ON THE DEVELOPMENTAL TIME COURSE OF LARVAE  
Maureen Kelly PRODUCTION OF A BACTERIOCIN-LIKE SUBSTANCE BY A VAGINAL *ENTEROCOCCUS* SPP. INHIBITING LACTOBACILLI, WHICH MAY CONTRIBUTE TO THE DEVELOPMENT OF BACTERIAL VAGINOSIS

**Poster Session, Dow Third Floor, 8:15-9:30 p.m.**

Robert Long PURIFICATION OF U3 snoRNA BINDING HOMOLOGS FROM TWO ARCHAEAL ORGANISMS  
Selena Lum SUSCEPTIBILITY SURVEY OF *ESCHERICHIA COLI* FROM WATER SAMPLES OF SOUTHWEST MICHIGAN  
Andrea Ouellette VOLTAGE DEPENDENCE OF THE CATION NON-SELECTIVE TRP CHANNELS EXPRESSED IN HEK293 CELLS  
Sarah Rockwell COLOR AS AN ASSESSMENT SIGNAL IN THE BLACK-WINGED DAMSELFLY  
Allison Scheurer MORTALITY OF ZEBRA MUSSELS, *DREISSENA POLYMORPHA*, IN AN ENCLOSURE EXPERIMENT IN GULL LAKE, MICHIGAN  
Jocelyn Taylor EFFECTS OF AMPHETAMINE AND NICOTINE ON AUDITORY GATING: AN ANIMAL MODEL OF SCHIZOPHRENIA  
Christopher Wilson ACTIVITY-DEPENDENT PHOSPHORYLATION OF GLUR1-4 BY PKA IS SUBUNIT SPECIFIC  
Brad Zielaskowski USES OF ELECTRICAL STIMULATION

Saturday, May 4, 2002

**Lecture Session, Dow 226, 8:00 a.m.-12:15 p.m.**

8:00-8:30 Coffee and Doughnuts  
8:30-9:00 Frank Powers MECHANISM-BASED INACTIVATION OF P450 2B ENZYMES: EFFECTS OF 2-PHENYL-2-PIPERIDINO PROPANE ON THE ACTIVITIES OF RAT ISOFORM 2B1, RAT 2B2, RABBIT 2B4, HUMAN 2B6  
9:00-9:30 David Meek EMERGENCE AND BEETLE DENSITIES OF THE WESTERN CORN ROOTWORM (COLEOPTERA: CHRYSOMELIDAE): A COMPARISON BETWEEN ROTATED AND CONTINUOUS CORNFIELDS  
9:30-10:00 Kate Jenks EFFECTS OF INCUBATION CONDITIONS ON DEVELOPMENT OF SNAPPING TURTLE (*CHELYDRA SERPENTINA*) EMBRYOS  
10:00-10:15 BREAK  
10:15-10:45 Joel Hutson FINDING THE SCIENTIST IN ALL OF US  
10:45-11:15 Diana Okuniewski STUDIES ON THE EXPRESSION OF *CAENORHABDITIS ELEGANS* K<sup>+</sup> CHANNELS AND nACh RECEPTORS IN *XENOPUS* OOCYTES  
11:15-11:45 Shea Hogan GENERATION OF LENTIVIRAL VECTORS CODING FOR MUTANT AND WILD TYPE  $\alpha$ -SYNUCLEIN  
11:45-12:15 Gwen Sila TELEMETRIC MONITORING OF PHYSIOLOGICAL SIGNS IN CONSCIOUS BEAGLES: PHARMACOLOGICAL EVALUATION OF A B3 AGONIST, BRL 37344  
12:15-12:45 Deonna Wells THE EFFECTS OF ANTISENSE PRESENILIN-1 AND BACE EXPRESSION ON THE PRODUCTION OF  $\beta$ -AMYLOID IN TRANSFECTED CELLS  
6:00pm Banquet