GRANTS & CONTRACTS AWARDED

Dr. Albert Heber. $85,965.00. University of Minnesota/USDA. *Odor Emissions & Chemical Analysis of Odorous Compounds from Animal Confinement Buildings.* 01/01/05 - 12/30/06.

Dr. Dirk Maier. $211,280.00. Kansas State University/USDA. *Integrated Management of Storage Pests from the Farm to Table.* 09/01/05 – 08/31/09.

Osvaldo Campanella. $12,143.00. University of Nebraska-Lincoln/USDA. *Exploring Molecular Structural & Rheological Differences in Fiber Sources to Produce High-Fiber Extruded Cereal Products.* 09/15/05 – 08/14/06.

FUNDING OPPORTUNITIES


Showalter Trust Awards – proposals are for one year with a project period of July 1 – June 30. All guidelines, procedures and instructions are available at: [www.purdue.edu/research/vpr/funding/showalter.html](http://www.purdue.edu/research/vpr/funding/showalter.html)

PAPERS ACCEPTED FOR PUBLICATION AND PRESENTATION


Waswa, J., Irudayaraj, J., and Debroy, C. Direct detection of E. coli O157:H7 in selected food systems by a surface plasmon resonance biosensor. Lebebsm.-Wiss. u-Technology - Food Science and Technology (accepted, Nov 05)


SEMINARS

Nate Mosier gave a seminar titled "Bioengineering: Processing and Catalysis for Biorenewable Fuels and Chemicals," to the students and faculty associated with the Biorenewable Resources and Technology Program at Iowa State University on October 27, 2005.

Mosier, N. S.; Craig, B. “Predicting Cell Capture from Dilute Samples for Microfluidic Biosensors” Workshop on Overarching Issues in Risk Analysis, National Institute of Statistical Sciences, Ames, IA, October 28, 2005.

Mosier, N. S.; Craig, B. “Predicting Cell Capture from Dilute Samples for Microfluidic Biosensors” Workshop on Overarching Issues in Risk Analysis, National Institute of Statistical Sciences, Ames, IA, October 28, 2005.


Biosectroscopy – Instrumentation, Techniques and whole cell detection – Biological Sciences (BioPhysical Methods Course Seminar, Nov 11)

ABE IN THE NEWS

The MAHA lab of Purdue University will team up with several other “Core” universities (University of Minnesota, University of Illinois, Vanderbilt University, Georgia Institute of Technology) to propose an engineering research center for Compact & Efficient Fluid Power.

National Engineering Survey – Purdue University, along with a number of leading universities, has agreed to participate in an important survey conducted by Harris Interactive – best known for The Harris Poll.

ABE ACADEMIC PROGRAMS

Hsiang-Yu Wang (advisor: Chang Lu) was awarded a American Electrophoresis Society (AES) Travel Award to present her research work at the 2005 AICHE/AES annual meeting.

Faculty & Staff News

Dr. Monika Ivantysynova, winner of the Japanese Fluid Power Symposium Contribution Award presented in Tsukuba, Japan.

The award winning paper was written by Dr. Monika Ivantysynova, Dr. Robert Rahmfeld and Bastine Eggers and is titled: “AN ENERGETIC COMPARISON BETWEEN VALVELESS AND VALVE CONTROLLED ACTIVE VIBRATION DAMPING FOR OFF-ROAD VEHICLES”. 
Albert Heber, Ph.D., Professor in the ABE Department, is shown receiving the Tony & Mary Hulman Health Achievement Award in the environmental health area.

The award was given for creativity and exceptional scientific leadership and recognition of the impact of clean air on human health.

Jenna L. Rickus, Ph.D & Pedro L. Irazoqui, PhD, recently received The Christopher Donalty Interdisciplinary Research Award for their work “A Hybrid Cellular-Silicon Neural Prosthetic for Epilepsy”.

The goal of this project, which melds biology and engineering, is to develop a novel, cell-based neural prosthetic to electrically detect a seizure before it occurs and respond by stimulating transplanted cells to rapidly release GABA (a critical therapeutic target in epilepsy), thereby preventing the seizure.


The Breaking New Ground team consists of: Dr. Bill Field as the Project Director, Paul Jones as the Project Manager, Denise Heath as the Project Administrative Assistant, and Steve Swain as the Rural Rehabilitation Specialist and Outreach Coordinator.

**STUDENT NEWS**

Cody McKinley ASABE President shared these pictures of the lawnmower winterization that took place November 17-20th.

Cody, reports that the weekend was successful and over 160 lawn mowers were serviced and tuned. The event netted just over $4000 in club profits, and most of this money will be used to help the club build the 1/4 scale pulling tractor.

A special thanks goes out to everyone involved in making the winterization go smoothly: Becky for helping with flyers, Carol for helping with labels, Scott for making room in the shop for us and all of the ASABE members who came in to make the event possible!!

**RETIREE & ALUMNI NEWS**

After 26 years with Purdue University. Professor Harry Gibson will retire at the end of the 2005 semester. A retirement party is being planned for February 25, watch the ABE website for further information or contact Becky Peer at peerb@purdue.edu or 765-494-1162.
# Calendar

## December 2005
- 12-17 Final Exams
- 18 Commencement
- 19 Winter Break Begins
- 20 Grades due to the Office of the Registrar
- 23 Christmas Vacation (offices closed)
- 26 Christmas Vacation (offices closed)
- 30 New Years Eve (offices closed)

## January 2006
- 1 New Years Day
- 2 Holiday (offices closed)
- 8 Winter Break Ends
- 9 Semester Begins

## May 2006
- 13 Commencement 9:30 a.m. (Eng.)
- 13 Commencement 2:30 p.m. (Ag.)