

## Funding Opportunities

**Purdue University and IUPUI** - recently agreed to the initiation of a *new* collaborative funding opportunity entitled the Intercampus Applied Research Program (IARP). This program supports collaborative research efforts between faculty at West Lafayette and non-medical school faculty at IUPUI. Specifically, the IARP will support applied, translational research projects and creative activities to accelerate discoveries that have the potential to change people's lives. An expectation is that these awards will lead to increased ability for these teams to develop larger, competitive proposals to federal agencies.



For the IARP, approximately five projects, in the amount of \$50,000 per project, will be funded this year. Tenured, tenure-track, and research faculty from any college or school in West Lafayette are eligible to participate. The Request for Applications and the Application are available at <http://www.purdue.edu/research/vpr/funding/iu-purdue.shtml>. The deadline for receipt of applications is Monday, December 3, 2007.

**The Purdue Alumni Association** - continues to support the development of junior faculty at Purdue through its Faculty Incentive Grants program. Since July 2004, the Alumni Association has provided start-up funds to faculty members for the initiation of research or professional development projects. In recognition of the creativity and productivity of these faculty members, the Alumni Association will offer five (5) grants in the amount of \$3,000 each for the 2007-08 academic year. Details online: <https://www.purduealum.org/Services/Programs/FacultyIncentiveGrant/tabid/487/Default.aspx>  
Application Deadline: November 30, 2007.

**International Science and Education (ISE) competitive grants program** – The ISE supports research, extension, and teaching activities that will enhance the capabilities of American colleges and universities to conduct international collaborative research, extension and teaching. ISE projects are expected to enhance the international content of curricula; ensure that faculty work beyond the U.S. and bring lessons learned back home; promote international research partnerships; enhance the use and application of foreign technologies in the U.S.; and strengthen the role that colleges and universities play in maintaining U.S. competitiveness. The RFA can be found on the CSREES website at: <http://www.csrees.usda.gov/fo/educationinternationalscience.cfm>. The closing date for this program is January 17, 2008.

## The USDA International Science and Education (ISE) - proposal process

([http://www.csrees.usda.gov/funding/rfas/intl\\_science.html](http://www.csrees.usda.gov/funding/rfas/intl_science.html)) limits institutions to two proposals – to identify the two that will be submitted from Purdue, we will implement the following internal review process:

- Email a two page single space preproposal to Corey Kujawa ([ckujawa@purdue.edu](mailto:ckujawa@purdue.edu)) by Friday, Nov. 30.
- The preproposal should include:
  - Justification and motivation of the project
  - Objectives
  - Methods
  - Expected outcomes and impact
  - Partners
- Preproposals will be reviewed by an ad hoc panel of Purdue faculty and administrators
- Those submitting preproposals will be informed by Friday, Dec. 7, whether their proposal will go forward to USDA.

For teams not selected for submission from Purdue, this preproposal process should help avoid unnecessary work and it would allow time to consider submission from partner institutions.

## Papers



**Indrajeet Chaubey** - "A simplified approach to quantifying predictive and parametric uncertainty in artificial neural network hydrologic models". *Water Resources Research*, Vol.43, W10407 - October 2007.

**Wang, F., Wang, H., Wang, J., Wang, H.Y., Rummel, P.L., Garimella, S.V. and Lu, C.** - Microfluidic delivery of small molecules into mammalian cells based on hydrodynamic focusing. *Biotechnology and Bioengineering*, accepted.

**Wang, J., Bao, N., Paris, L.L., Wang, H.Y., Geahlen, R.L. and Lu, C.** - Detection of kinase translocation using microfluidic electroporative flow cytometry. *Analytical Chemistry*, accepted.

**Wang, J., Stine, M.J. and Lu, C.** - Microfluidic cell electroporation using a mechanical valve. *Analytical Chemistry*, accepted.

## ABE in the News/Awards

**Dirk Maier** - recently received the PUCESA Senior Award. Dirk's many accomplishments have contributed to the improvement and preservation of grain quality. He aided in establishing the Consortium for Integrated Management of Stored Product Insect Pests, a project that implemented insect pest management strategies of stored grain to help put high-quality, safe grain out to global markets. He also co-developed an award-winning multi-media computer software-training program called "Post-Harvest IPM Educator" that helps to assist grain farmers and grain processors to maximize the quality and profits of stored grain. The PUCESA awards distinguish Extension specialists who have significantly contributed to Indiana through Purdue Extension.





**FFA Visits ABE** - approximately 80 students attending the FFA National Convention in Indianapolis toured the ABE building on October 25 and 26. Professors Buckmaster and Lumkes, with help from ABE students John Andruch, Jose Garcia, Greg Long, John Mahrenholz, and Cody McKinley provided engine dynamometer, hydraulic, and pneumatic demonstrations. Various student projects including the 1/4 scale tractor and hydraulic bicycle were also included on the tour.

**Homecoming Events** - the ABE department participated in both the College of Agriculture and the College of Engineering Homecoming events. Dan Taylor had one of the ABE booths at the College of Engineering mall and Micky Creech had the other ABE booth at the College of Agriculture tent. Several alumni stopped to say "Hello" and check on various professors and staff.

### **New Addition!**

Grace Louise Sinclair (granddaughter of Dennis Flanagan)  
Born: October 20, 2007 at 9:07 pm in Bowling Green, Ohio  
Weight/Length: 6 lbs 7 oz - 18" long  
Parents: Shari & Andrew Sinclair (all are doing GREAT)



**Joseph Irudayaraj** - Image magazine, the weekly source for radiology professionals featured an article about Joseph's research on their October 15<sup>th</sup> cover. The article explains how the researchers from Purdue University are creating gold nanoparticles that are capable of identifying marker proteins on breast cancer cells, making the particles a potential tool to better diagnose and treat cancer.

**ABET Review** - a big "Thanks" goes out to the ABE department and everyone who helped with the ABET visit on Monday, October 29<sup>th</sup>.

**Indrajeet Chaubey** - presented an invited talk at the 10<sup>th</sup> annual Inter-Regional conference on Water and Environment in New Delhi, India on October 19, 2007. The title of the talk was "Can Agricultural Production and Ecological Integrity Coexist? Experience from Agricultural Watersheds in USA".

**Michael Ladisch** - recently participated in two Marathons in October, one in Chicago and the other in Indianapolis.

**Recruitment - Freshmen Lectures** - Drs. John Lumkes and Jenna Rickus headed up Freshmen Lectures this year with the help from several students: Rebecca Albrecht, Craig Barcus, Ben Dietrich, Eric Hodgman, Greg Long, Keith Mears, Amy Penner, Emily Raderer, and John Schumm. The result: We had 170 students attend our first information session Thursday October 25<sup>th</sup> (BFPE - 41; ENRE - 39; MSE - 90).

## [ABE Building Update](#)

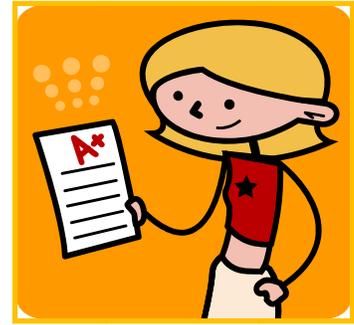
**ABE 106a and 212** - ITAP has just installed video projectors in ABE 212 and 106a.

**ABE 106E** - Indrajeet Chaubey, Rabi Mohtar and Jane Frankenberger continue to make progress with the new environmental laboratory they are building in 106E.

**ABE Restroom Changes** - Looks like about another month before the restrooms on the first floor are renovated to be ADA compliant.

## Student News

**Tutor Help Available** - the ABE Department has hired Dave DiGiovanni (Junior in Biological & Food Process Engineering) to help with tutoring of our first year engineering students in their courses (e.g. ENGR 126, MA 161/165, or CHM 115). Students who would like help should contact Dan Taylor ([taylordc@purdue.edu](mailto:taylordc@purdue.edu)).



## Sympathy



**Alvin C. Dale** - former ABE faculty member passed away, arrangements are:

Visitation 5:00 pm - 8:00 pm - Thursday, November 8<sup>th</sup> at Hippensteel Chapel  
Visitation 9:00 am - 10:00 am - Friday, November 9<sup>th</sup>  
Service 10:00 am - Friday, November 9<sup>th</sup>  
Elwood Church of Christ

## FYI

**Departmental Photos** - In anticipation of a new web page (and new design), we need new (current) pictures of all ABE personnel. A Purdue photographer will be visiting the ABE department on November 14 and December 5 to take photos in ABE #212 from 8:30 am to noon. These sessions will take 5 minute or less and we ask that you take the time to get your photo updated even if you think the one we are currently using is okay. Please contact Barb Davies to schedule your appointment; she can be reached at 41167 or via email at [daviesb@purdue.edu](mailto:daviesb@purdue.edu).



**ABE Thanksgiving Luncheon** - each year the ABE department celebrates Thanksgiving on the Wednesday before (November 21) at 11:30 am. Garry and Scott have agreed to again prepare the turkeys and set up the tables and chairs. If you would like to join us, please let us know that you wish to attend, and how many family members you might be bringing with you; and what dish you will bring to help fill out the menu. Traditional dishes are welcome, but we also enjoy the international flavor our dinner takes on when traditional dishes from other countries and cultures are added to the mix! *Please stop by ABE 219 and sign up on the sheet at Barb's desk.*

**Purdue Police** - are asking motorists to slow down and use caution as they travel on South University Street between State and Harrison Streets. Speeding motorists (over 20 mph) are making it dangerous for vehicles to turn left or right from the service drive onto S. University due to a tunnel project near that intersection. A sign board warning drivers to slow down has been placed along South University. Purdue Police will monitor and increase enforcement of the speed zone in this area for the next two weeks until the construction is completed. A map of the area is available at: [http://www.purdue.edu/physicalfacilities/travel/pdf/s\\_university](http://www.purdue.edu/physicalfacilities/travel/pdf/s_university).

## Calendar

<b>November 2007</b>	
10	Purdue Football - vs Michigan State (Home Game)
11	Veteran's Day
12	Veteran's Day Observed
13	Faculty/Staff meeting ABE #301
14	PCARET State Conference - contact T. Rogers at 494-8489
16-17	Agronomy Centennial Celebration at the Beck Center - contact K. Delp at 494-6586
17	Purdue Football - vs Indiana (Away Game)
21	Student Thanksgiving Break Begins
22	University Holiday - Thanksgiving
23	University Holiday - Thanksgiving
27	Faculty/Staff meeting ABE #301
<b>December 2007</b>	
8	Fall Classes End
11	Faculty/Staff meeting ABE #301
15	Fall Semester Ends
24	University Holiday - Christmas Eve
25	University Holiday - Christmas
31	University Holiday - New Year's Eve
<b>January 2008</b>	
1	University Holiday - New Year's Day
7	Spring Classes Begin
21	University Holiday - Martin Luther King, Jr. Day