

AGRICULTURAL & BIOLOGICAL ENGINEERING

Issue 4 - March 14, 2007

Funding Opportunities

Awards for Excellence in Distance Learning - consider nominating a distance learning activity (course, seminar, workshop) for the 2007 Purdue University Awards for Excellence in Distance Learning. Two cash awards of \$1,000 are funded by the Office of the Provost, one each for a credit and a noncredit distance learning activity conducted through Purdue. These awards will help recognize faculty or staff members who demonstrate excellence in distance learning projects. Additionally, they are intended to publicize and promote creative and innovative approaches to developing learning opportunities that reach out to Purdue students beyond our campuses. Applications and forms are available from Barb Davies in ABE #219.

Sun Grant - the request for applications has been published, it is available at http://sdaes.sdstate.edu/sungrant/grants.cfm. The letters of intent are due on March 15th and the full proposal is due on April 30th.

CSREES Announces the Availability of Grant Funds and Requests Applications for the Food and Agricultural Sciences National Needs Graduate and Postgraduate Fellowship Grants

Program - closing date: June 1, 2007. Funds available: \$3.5 million. Submission method: Electronic applications through www.grants.gov. Soliciting applications for: (1) Fellowships to train students for Master of Science and doctoral degrees in food and agricultural sciences in the Targeted Expertise Shortage Areas, and (2) for Special International Study or Thesis/Dissertation Research Travel Allowances (IRTA) for eligible USDA National Needs Fellows. See Program Brochure on the Internet at: http://www.csrees.usda.gov/about/offices/pdfs/natl_needs.pdf.

NIH Director's New Innovator Award - created this year, addresses two important goals: stimulating highly innovative research and supporting promising new investigators. New investigators may have exceptionally innovative research ideas, but not the required preliminary data to fare well in the traditional peer review system. As part of its commitment to increasing the success of new investigators, NIH has created the NIH Director's New Innovator Award to support exceptionally creative new investigators who propose highly innovative approaches that have the potential to produce an unusually high impact. The New Innovator Award program complements the more traditional R01 mechanism, which continues to be the primary source of funding for new investigators. Total funding available for this five-year program is at least \$40 million for the five-year period. It is anticipated that at least 14 awards will be made. For more information visit: http://grants.nih.gov/grants/quide/rfa-files/RFA-RM-07-009.html.

Spring Grants for Study Abroad & International Learning - The Office of International Programs is pleased to announce the Spring 2007 grant competition for development of study abroad courses for Purdue students on the West Lafayette campus. This program will provide awards to individual faculty and groups of interdisciplinary faculty for the development of study abroad components for existing and/or new courses. Awards are intended as seed money, and will generally be in the range of \$5000 - \$7000. More detailed information is available at: http://www.purdue.edu/elist39/docs/RFPSpring2007SAlLgrants.rtf.

Papers Accepted for Publication & Presentation

ACS 2006 Most-Cited Articles - the article *Liposome-Doped Nanocomposites as Artificial-Cell-Based Biosensors: Detection of Listeriolysin O*, written by Jianxiu Zhao, Sabrina S. Jedlicka, Josh D. Lannu, Arun K. Bhunia, and Jenna L. Rickus is being featured on the ACS Publications website as a 2006 Most-Cited Article based on citation data obtained from Thomson ISI. Congratulations to all!

Seminars/Workshops/Lectures

International Congress on Biotechnology in the Pulp & Paper Industry – June 10-14, 2007 in Madison, Wisconsin. The 10th annual event will be the premier event his year for papers on biorefining, bioconversion and biopulping for the recovery of fuels, chemicals and fibers. For more information and application visit the web site at: http://www.bact.wisc.edu/ICBPPI_2007/speakers.htm.

Tornado Awareness - available to all Purdue University Faculty, Staff and Students

Presenter: Tom Cooper, Fire Safety Specialist

When: Friday Sessions - March 9, 16, & 23, from 9:00 am to 10:00 am

Where: Purdue Police Department - Terry Conference Room, 205 South Intramural Drive (enter through side door - facing Intramural Drive)

Content: Severe Weather Awareness Strategy Response Actions, Actions to Take After the Event

Discovery Lecture Series - Dr. John Hall, who won the Nobel Prize for Physics in 2005 will deliver a keynote address - "Making a Big Deal out of the Small Decimal Digits: The Remarkable Utility of Precision Measurement", on Monday, April 16th at 3:30 pm in the Loeb Playhouse. For more information and registration visit www.purdue.edu/dp.dis/hall.

Comsol Multiphysics Workshop - this workshop offers a live demonstration of the COMSOL Multiphysics modeling environment and the unique opportunity to work with the tool in a hands-on computer session. The workshop will be held on March 30th in the ABE building room #116 beginning at 9:00 am - for more information visit the web page at:

<u>www.comsol.com/events/westlafayette_in/1779</u> to register send an email to Stan Harlow at harlow@purdue.edu.

Dean's Distinguished Lecture Series - Emily Stover DeRocco, Assistant Secretary, U.S. Department of Labor Employment & Training Administration will be speaking on Tuesday, April 10, 2007 from 3:00 pm to 4:15 pm in Fowler Hall, Stewart Center. There will be a reception immediately following the lecture at the Stewart Center Gallery. R.s.v.p. to Special Events at 494-0900.

ABE in the News

Phenolic Compound Biochemistry - written by Wilfred Vermerris and Ralph Nicholson.

This book was written for researchers, instructors, advanced undergraduate students and beginning graduate students in the Life Sciences who wish to become more familiar with the aspects of phenolic compounds. Wilfred is currently working on a second book on the genetic improvement of biomass crops. Nate Mosier and his graduate students are contributing a chapter.

Dean's Team Award - the AICC/New Ventures Team has been selected for the 2007 Dean's Team Award - the team is lead by Joan Fulton and our own Bernie Tao is a team member.



Bernie Tao - (shown receiving his award from Dale Whittaker)

Teaching Academy Fellow Book of Great Teachers College of Agriculture

Osvaldo Campanella - has recently been named a 2007 University Faculty Scholar. Osvaldo joins Angus Murphy and Shawn Donkin in the College of Agriculture to receive this recognition - congratulations Osvaldo on this well deserved recognition!



USB Excellence Award - congratulations to Bernie Tao who was awarded a USB Excellence Award for accomplishments in new uses research for soybeans. Bernie has helped develop a number of products and processes for utilizing soybean components in industrial applications including crayons, candles, biosurfactants, home heating fuels, aviation deicing fluids, aviation jet fuels and cold-flow biodiesel fuels.

Student News

Lawnmower & Garden Tiller Revitalization - sponsored by Purdue University Agricultural Systems For further information call 494-1172 AFTER 5:00 pm and phone number - an ASM member will return your call. APPLICATION IS TODAY!

Saturday, March 25th
Management Club.
leave your name and
DEADLINE FOR

Purdue Student Engineering Foundation - recently held Purdue NEXT which is an all day recruitment trip for admitted high school seniors. This allows these prospective students to get a feel of what engineering is like at Purdue.



The day includes campus tours and info sessions as well as one-on-one time with current engineering students and alumni. This year's event was held on Saturday, March 3rd in the MSEE atrium. The ABE department was represented by Rebecca Albrecht, Greg Long, John Mahrenholz, Cody McKinley, Keith Mears, Emily Raderer and Josh Saunder.

Sun Lan & Joseph Irudayaraj - First Place in Sigma Phi Graduate research poster competition - Multiplex Raman arrays for gemone analysis".

ASABE Midwest Rally - Cody McKinley - On February 23rd - 24th, 12 ABE students traveled to Ames, Iowa for the 5th Annual ASABE Midwest Regional Rally. The Rally was held at Iowa State's campus. We toured John Deere Des Moines Works, Barilla Pasta, and the City of Ames Garbage Facility, where trash was separated, melted, and sent over to the local power plant to be burnt for energy.

Departmental tours included lowa
We also got a close up look at weekend included ASABE
Advisor), Dr. Raj Ramen, ISU
Dean, Joe Colletti, and ISU
Assistant Dean for
Programs, Loren Zachary.

State's Air Dispersion, Hydraulics, Engines, and Robotics labs.
Iowa State's biomass harvester. Speakers for the President, Charles Sukup, Dr. Carl Bern (ISU College of Agriculture Associate College of Engineering Undergraduate Programs, Loren Zachary.

Award for bringing the largest number of participants the furthest distance. Purdue's Keith Mears was elected into office as the 2007-2008 ASABE Midwest Regional Rally Secretary.

Purdue attendees included: Cody McKinley, Keith Mears, Brandon Manier, Michael Holland, John Mahrenholz, Joe Dynes, Joshua Sander, Trista Bailey, Joseph Neukum, Emily Raderer, Anna Weimer, and James Bartlett. They were joined by ABE alumni, Curt Elpers.

Schools in attendance were: Purdue, Iowa State, Nebraska, Illinois, Wisconsin, and Minnesota.

Purdue ASABE would like to personally thank Bernie Engel, Micky Creech, Becky Peer, and the rest of the ABE department who helped make our participation in this event possible.



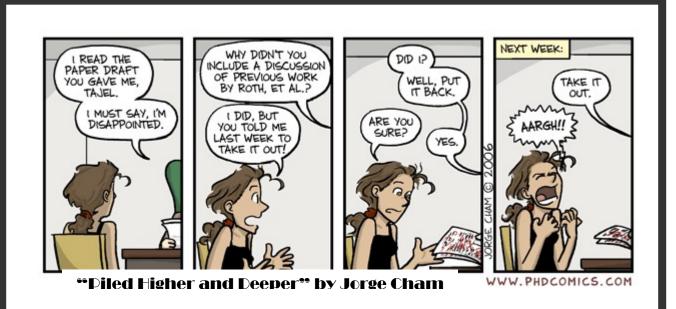
Don't Forget - be sure and check out the ABE job opportunities web page at:

https://engineering.purdue.edu/ABE/ResourcesFor/Student/job_postings/job-descriptions/index.html

Let us build a playhouse for you - the playhouses as lab projects again this X 8 FT including a 2 FT X 6FT porch on purchase at cost of materials only. ABE building and delivery may be These playhouses will be built on a maximum of three being built. If you Brian Hoover at 494-5731 or



ASM 201 class will be building semester. These playhouses are 6FT the front. They are available for Construction will take place in the possible with prior arrangements. first come first served basis with a are interested, please contact wbhoover@purdue.edu.



Retiree & Alumni News

Let's Make A Deal - ABE Alumni be sure and fill out the on-line survey to receive a free ABE long sleeve tee shirt or hat - https://www.purdue.edu/ABE.



Alumni Job Opportunity Page - we have a new web page just for job opportunities for our ABE Alumni, check it out at:

https://engineering.purdue.edu/ABE/ResourcesFor/Alumni%20and%20friends/Job%20Opportunities/index.html.

FYI

Workplace Violence Awareness - a cooperative training event from Physical Facilities Training & Purdue University Police. Training is **FREE** and available to all Purdue University Faculty, Staff and Students.

When: Thursday, March 29, 2007, from 1:00 pm - 4:30 pm
Where: PFSB (Physical Facilities Service Building) Room #1179 A-B

775 Ahlers Road (easy access & convenient parking)

Pre-registration is required, register online at

https://www.itap.purdue.edu/training/registration/?offeringid+1533 or contact Dan Larson at dalarson@purdue.edu or 494-1064.

ABE Door Alarms - both entrances and room #102 in the ABE building have been equipped with door prop alarms. The east entrance alarm will be set at 3 minutes. If the door is propped open longer than 3 minutes, the alarm will sound. The west entrance is set at 60 seconds, and room #102 is set at 60 seconds. Closing the door silences the alarm. If you have any questions, please see Scott Brand or email him at brand@purdue.edu.



Parking Restrictions - the Armory parking lot and spaces around Elliot Hall of Music will close for the Regional Robotics Competition March 12 thru 18. The reserve spaces will be available.

Fire Alarm Test - the ABE building has been scheduled for a complete fire alarm test on Tuesday, March 20th at 7:00 am. The test will require sounding the building fire alarm horns for several minutes, the rest of the test will be silent.

Black Graduate Association (BGA) - the 6th Annual BGA Awards & Recognition Banquet will be held on Saturday, March 31 at University Inn. More information is available at: http://www.purdue.edu/elist39/docs/Banquet_Announcement_Dept_.pdf.

<u>Calendar</u>

March 2007	
12-16	Spring Break
28	Faculty/Staff Meeting - 11:30 am - ABE #301
April 2007	
4	Undergraduate Research & Poster Symposium - PMU - contact Jane Alexander at 494-8470
11	Faculty/Staff Meeting - 11:30 am - ABE #301
13	Celebration for the Center for Student Achievement & Leadership - AGAD at 2:00 pm - contact Mike Irvin at 494-8672
14-15	Spring Fest - contact D. Kirkpatrick at 494-9113
15	College of Agriculture Spring Awards Reception - PMU - contact Tracie Egger at 494-8470
19	ABE Student/Alumni Awards Banquet - University Inn
25	Faculty/Staff Meeting - 11:30 am - ABE #301
28	Earth Day Indiana Celebration in Indianapolis - contact D. Kirkpatrick at 494-9113
May 2007	
2-3	Pioneering biotechnology forum at the Bindley Bioscience Center - contact Kathy
	Beaver at kbeaver@purdue.edu
3	Secretary's Day
9	Faculty/Staff Meeting - 11:30 am - ABE #301
16	Spring Fling