Congratulations ABE!
Ranked Number One
Graduate Program by
U.S. News & World Report
For the Second Year!
Funding Opportunities

**BARD RESEARCH GRANT PROGRAM:** Funds projects conducted cooperatively by US and Israeli scientists. Covers all phases of agricultural R&D including strategic or applied research. Award duration: 3 years. Next submission date: September 14, 2010.

**THE YAADIA-BARD POSTDOCTORAL FELLOWSHIP PROGRAM:** Funds postdoctoral fellowships for US citizens to perform agricultural research with established Israeli scientists. Recipients travel to the host country to carry out their research. Award duration: 1-2 years. Next submission date: January 15, 2011.

**SENIOR RESEARCH FELLOWSHIP PROGRAM:** The program promotes joint agricultural research of high quality between established scientists from the US and their Israeli hosts. Award duration: 2-12 months. Next submission date: January 15, 2011.

**GRADUATE STUDENT PROGRAM:** The program enables Ph.D. students in one country (US or Israel) to travel to the other country to acquire new skills and techniques in their field of study. Award duration: 3-6 months. Next submission date: January 15, 2011.

**WORKSHOP:** Funds workshops whose purpose is to identify research needs and to promote increased contact between scientists throughout the world in areas related to the binational and agricultural interests of BARD. Next submission date: January 15, 2011.

Details and Application Forms: [www.bard-isus.com](http://www.bard-isus.com)

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Grants/Funding

**MSP GRANTS** - provide scholarships to support recruiting, engaging, retaining, mentoring, and training committed, eligible multicultural scholars, resulting in baccalaureate degrees within the food and agricultural sciences disciplines or the D.V.M. degree.

Eligible Applicants are: (1) land-grant institutions, (2) colleges and universities having significant minority enrollments and a demonstrable capacity to carry out the teaching of food and agricultural sciences, and (3) other colleges and universities having a demonstrable capacity to carry out the teaching of food, and agricultural sciences. Research foundations maintained by an eligible college or university are eligible to submit undergraduate and/or D.V.M. training proposals under this RFA. For additional information about the NIFA MSP Grant Program visit - [http://www.nifa.usda.gov/funding/msp/msp.html](http://www.nifa.usda.gov/funding/msp/msp.html).
**Travel Grants were awarded to the following graduate students** -
Rebecca Logsdon - Frederick N. Andrews Environmental Travel Grant ($1,500).
Chetan Maringanti - Frederick N. Andrews Environmental Travel Grant ($1,500).
Elizabeth Trybula - Russel O. Blosser Environmental Travel Grant ($1,500) and D. Wood Thomas International Travel Grant ($1,000).

**J.D. McClurkin** - received the Blosser Environmental Travel Grant ($1500).

**Papers/Presentations/Seminars/Publications**

**The Eighteenth Annual International Conference on Composites/Nano Engineering (ICCE - 18)** – will be held in Anchorage, Alaska July 4-10, 2010. NEW paper titles are being accepted. Interested authors should submit tentative paper titles immediately, and then submit detailed two page short papers later. Deadline of receipt of two pages is June 18, 2010, if you need more information visit the web site at: http://myweb.polyu.edu.hk/~mmktlau/ICCE/ICCE_Main.htm.


**Monika Ivantysynova and Josh Zimmerman** - won the FPMC 2009 Best paper Award for their paper “Effect of Installed Hydraulic Corner Power on the Energy Consumption and Performance of Multi-Actuator Displacement Controlled Mobile Machines”, which Josh presented at the 2009 Bath ASME Symposium on Fluid Power and Motion Control (FPMC2009) in Los Angeles. The research has been funded by NSF through the Center for Compact and Efficient Fluid Power (CCEFP). This is the third time that the MAHA group has received this prestigious award!
ABE was well represented at the 32nd Symposium on Biotechnology for Fuels and Chemicals, Clearwater Beach, FL, April 19-22. Below is a listing of the papers and posters presented.


**ABE News**

**THE PURDUE CONFINED ANIMAL FEEDING OPERATIONS TEAM** – was selected to receive the 2010 College of Agriculture TEAM Award as an outstanding interdisciplinary effort focused on an important issue facing production agriculture. The group, which spanned expertise in Animal Sciences, Plant Sciences, Agricultural & Biological Engineering, Agricultural Economics, Sociology and Communications, conducted novel research and developed fact based information to help stakeholders make more informed decisions about siting of CAFOs in their local communities. To date, the team has produced 20 Extension publications encompassing environmental, health and social and economic concerns. The group developed and continues to maintain a website for disseminating these publications as well as other key information and evolving updates on CAFO issues. The TEAM Award was presented at a symposium on April 30th. ABE Team members are; Jane Frankenberger, Albert Heber and Don Jones.

**MARTIN OKOS** – was recognized at the College of Engineering Faculty Awards of Excellence in April. Martin was named a Team Award Winner for the Pharma Engineering Research Center.

**MAJDI ABOU-NAJM, LINDSAY BIRT, MARTIN OKOS, JAYNE PIEPENBURG AND KYLE PROBST** – earned an Honorable Mention from the U.S. Environmental Protection Agency for the Quality of their Design and Proposal for the 2010 P3 Program – People, Prosperity and the Planet.

**JOHN LUMKES** – was named the David C. Pfendler Outstanding counselor at the Agriculture Awards Program held April 18, 2010. John joined the Purdue faculty in 2004 and serves as faculty advisor for ASABE, Quarter Scale Tractor Competition and the Basic Utility Competition. John has previously received the ABE Engineering Teacher of the Year as well as the Teaching for Tomorrow and SAE Ralph R. Teetor Educational award.
SAVING THE WORD, ONE TORTILLA AT A TIME -
An interdisciplinary team from ABE and Environmental Science departments won the EPA-People, Planet, and Prosperity Honorable Mention award in Washington, D.C. for their research on Reduction of Water Consumption and Pollution in the Corn Masa Production Process. The students were testing the quality of masa, an important food in Latin American, after having incorporated recycled water from its production process. The team comprises of Kyle Probst, Lindsay Birt, and Jayne Piepenburg, Majdi Abou-Nahjm and Dr. Martin Okos.

JANE FRANKENBERGER & LAURA ESMAN – members of the Indiana Watershed Leadership Academy (IWLA) were awarded the 2010 Award for Excellence in Distance Learning at the Celebration of Teaching Excellence Award Celebration on April 27, 2010.

ABE FACULTY RECOGNITION & AWARDS

2009-2010 ABE Outstanding Department Teacher – Agriculture - Daniel Ess
2009-2010 ABE Outstanding Department Teacher – Engineering - Gary Krutz
2009-2010 ABE Outstanding Department Counselor – John Lumkes
David C. Pfendler Outstanding Undergraduate Counselor – College of Ag - John Lumkes
ABE Ag Outstanding Graduate Educator - Indrajeet Chaubey
ABE Ag Outstanding Service to Students Award - Micky Creech
2009 Teaching Academy Fellow - John Lumkes
2010 Ag University Faculty Scholar Award - Joseph Irudayaraj
Epsilon Sigma Phi Alpha Lambda Chapter Distinguished Service Recognition Award - Don Jones
Epsilon Sigma Phi Alpha Lambda Chapter Meritorious Support Service Recognition Award - Denise Heath & Scott Brand
2009 PUCESA Team Award - “The Purdue Concentrated Animal Feeding Operation (CAFO)”
ABE Team Members: Don Jones, Al Heber and Jane Frankenberger
**Student News**

**Danielle Carpenter & Matt Wolf** - are featured as “5 Students Who Invent” – check out the web page at [http://www.purdue.edu/fivestudents/index.html](http://www.purdue.edu/fivestudents/index.html).


**Molly Scherer** – was awarded the “Tip of the Cap Award” from the Purdue Mortar Board. This award is in recognition of those students who have gone above and beyond the call of duty in their service to students, faculty and staff. These students are the “unsung heroes” who don’t seek their own recognition, but are nominated by student organization leaders and others in the university community. All receive a $250 monetary gift and a certificate. Molly is a sophomore in our ABE department majoring in Biological Engineering and Biochemistry; she has been involved with Purdue Dance Marathon, Campus Crusade for Christ and the EMV Sophomore Leadership Conference.

**Charlie Dewes, Anshuman Didwadia, Jennifer Lai & Josh Seidner** – placed 2nd at the Purdue Poster Symposium – congrats!

**Jeff Wojcicki** – was named the Purdue Engineering’s 2010 Outstanding Senior Student! Jeff is active in Purdue Christian Campus House, Purdue Engineering Ambassadors, Engineering Honors Learning Community and Engineering Projects in Community Service (EPICS) where he conducted research for a “greener” home design for the local Habitat for Humanity affiliate.

**ABE BUV** - On April 16th and 17th the BUV team traveled to Indianapolis to participate in the 10th Annual Basic Utility Vehicle student design competition ([www.drivebuv.org](http://www.drivebuv.org)). This year’s team took a very different approach and designed a vehicle that could be built and maintained in Africa, using the materials and supplies available in Cameroon. Within these design constraints the students designed and built a frame using wood and driveline using belts and pulleys; the suspension utilized recycled rubber chunks from discarded tires. At made it through every necessary between Open Class Innovation competition. The drive, endurance, sled pull, maneuverability, obstacle course, and moguls events. The students also had to orally present their design to a panel of judges and answer questions.

This year’s team is also unique because it included students from ABE, ASM, ME, and MET, advised by Dr. John Lumkes. Eight of the students will be traveling to Cameroon in May and bringing parts of the vehicle in their suitcases with the goal of constructing a similar vehicle at the African Centre for Renewable Energy & Sustainable Technology ([www.acrest.org](http://www.acrest.org)). This effort is part of a larger effort and other students are also traveling with the BUV group and working on implementing their projects, including a small hydroelectric power plant and low cost wind power electricity generator.
GRADUATE STUDENT RECOGNITION AND AWARDS

Magoon Award Honoree: Kyle Bailey
College of Engineering Outstanding Service Scholarship: Lindsay Birt & Mark Thomas
Celebration of Graduate Student Teaching Honoree: Andrew “Dewey” Mann
Purdue Student Engineering Foundation Outstanding Graduate Student Award: Aeraj ul Hague
2009 Chorafas Foundation Award: Jun Wang
ABE Outstanding Graduate Student – M.S.: Ruth Pinto
ABE Outstanding Graduate Student – Ph.D.: Aeraj ul Hague
Andrews Fellowship: Elizabeth Trybula
Bilsland Dissertation Fellowships: Jiji Chen & A.R.P. Kingsly
Lynn Fellowships: Jing Tan & Salah Issa
Purdue Doctoral Fellowship: Margaret McCahon
Ross Fellowships: Brittany Book & Jennifer Kahn
NSF Fellowship: Rebecca Logsdon

ABE May Graduates

ASM
Alyea, Benjamin
Barnard, Nicholas
Bell, Adam
Bobek, Aaron
Bredeweg, Nicholas
Carrell, Jeffrey
Clemson, Craig
Flora, Aaron
Fodice, Lee
Froelich, Beau
Hobbs, John
Hook, Heath
Lindahl, Dustin
Maple, Jason
Morris, Daniel
Musselman, Kyle
Nebel, Thomas
Powlen, Lucas
Shaw, Tyler
Sroufe, Matthew
Young, Charles

BE
Avon, Nicholas
Bartkowiak, Lisa
Carpenter, Danielle
Czapla, Anthony
Eakins, Krista
Horton, Victoria
Mason, Jeff
Meier, Tim
Rosswurm, Erin
Stine, Mary Jane
Wolf, Matthew

ENRE
Burbrink, Philip
Engelberth, Jared
Hammel, Nancy
Lai, Jennifer
Jones, Katie
Moehling, Mark
Rutkowski, Sarah
Seidner, Joshua
Shonk, Lara
Simpson, Jeramy
Vester, Kyle
Wojcicki, Jeffrey

MSE
Caylor, Robert
Cessna, Craig
Duncan, Matthew
Genovese, Michael
Hatfield, Craig
Heber, Josh
Hosteller, Derek
McCoy, Michael
Mothershead, Clay
Smith, Joshua
2010 ABE OUTSTANDING ALUMNI

Michael Cox (BS ABE ’93) - Since 2003, Mike has served as the State Conservation Engineer for the Indiana Natural Resource Conservation Service (NRCS). In this position he is responsible for design and construction oversight by NRCS personnel for all engineering practices in Indiana. He is also currently serving as the state program manager for the Emergency Watershed Protection (EWP) program and for the Watershed Operations program. After the June 2008 flooding in central Indiana, Mike provided engineering leadership to assist local communities with over $5 M in federal funding for flood recovery and protection efforts through the EWP program. Mike has been a registered Professional Engineer (P.E.) in Indiana since 1999. Mike credits his success with USDA-NRCS to the diverse coursework in the ABE program and the emphasis placed on working with others to solve problems and projects while at Purdue.

Brad Meyerholtz (BS ABE ’89) – Is a senior staff member and Engineering Manager of Tuthill Drive Systems, a division of Tuthill Corporation, in Brookston Indiana. Tuthill Drive Systems is a leader in the steerable, hydraulic powered axle industry. He joined Fluidrive in 1989 as a project engineer, in charge of new valve designs, hydraulic testing and qualification standards for integrating Mud Hog products with existing OEM hydrostatic systems, as well as the lead engineer for a new line of turf care equipment for the golf course industry. As a senior staff member of Tuthill Drive Systems, Brad coordinates implementation of Lean Product Development processes and assists with company wide utilization of Toyota Production System processes. Brad stated that the most beneficial aspect of a Purdue ABE degree is the diversity. The ABE curriculum included classes across multiple engineering disciplines. This meant small classes, large classes, working as an individual, working on a team and working on teams with a variety of talents. Brad stated that in the ABE curriculum you get all of these aspects, and in life you frequently need all these aspects and this diversity has greatly enhanced his career.

Mark Zeltwanger (BS ABE ’80) - Mark’s first work experience after graduation was in Peoria, Illinois with Caterpillar Tractor Inc. Then in 1977, Mark’s family started a White Farm/New Holland Farm Equipment Dealership in northern Indiana. Mark worked his way through several positions at Wyatt Farm Center and in 1993 became President and partial owner. In 2007 Mark started consulting with the North American Equipment Dealers Association, NAEDA and the American Equipment Manufacturers Association and AEM. In 2008 Mark started a recycling and rock crushing contracting firm.

Mark stated that the curriculum from several of the engineering disciplines and the senior curriculum from Dr. Krutz, really helped him see the big picture of why and how inventions and increased technology become sellable products in the global market place. The reputation of Purdue engineers is world class and speaks highly of the University, the ABE department and its professors and staff.

WALT KELLEY (BS ABE ‘61) AND HIS SON KEVIN KELLEY (BS ABE ‘92, MS ABE ‘95) – own and operate Kelley Engineering LLC located in Brookston, Indiana. Both Walt and Kevin pride themselves on outstanding customer service with over 60 years of combined knowledge and experience for their farming customers.
**Mark Kinder (BS ABE ’74)** – is working for Fairfield Manufacturing as Facilities Engineer Manager with the Engineered Drive Solutions Team.

**Kalen Bell Jackson (BS AG MECCH ’06)** – recently joined Beck’s Hybrids.

**FYI**

**Purdue Family Day at Indiana Beach** - will be July 17. This event is sponsored by the Clerical and Service Staff Advisory Committee (CSSAC) and its Purdue Employees Activities Program subcommittee. The event is open to all Purdue staff, faculty, retirees and their immediate families.

Indiana Beach is a resort and amusement park located on Lake Shafer near Monticello. Cost is $23 for people 48 inches and taller, and $18 for people under 48 inches. The day includes rides from 11 a.m. to 11 p.m., swimming at Sand Beach; the Splash Bash Water Play area, the Water Park from 11 am. to 6 p.m., one free round at Paradise Island Mini Golf, one free trip through Dr. Frankenstein’s Haunted Castle, unlimited soft drinks from 11 a.m. to 5 p.m, and a fireworks display just before the park closes.

Tickets may be purchased by clicking the link on the CSSAC Web site, [www.purdue.edu/ccsac](http://www.purdue.edu/ccsac) (code PEAP2010), printing the confirmation page and taking it with you. Tickets also may be obtained at Freehafer Hall (contact Carrie Hanson, carrie@purdue.edu, 49-47397), or at the gate at Indiana Beach on July 17. For those who can’t go on July 17, CSSAC and Indiana Beach are offering discounted tickets throughout the season for all Purdue staff and faculty. The resort and amusement park opens for the season on May 1. For more information, contact Lisa McCloud at lemccloud@purdue.edu or 49-47383, or Alan Farrester at farreste@purdue.edu or 49-63326.
Calendar

May 2010
14  Agriculture Graduation Ceremony – 8:00 pm
15  Engineering Graduation Ceremony – 9:30 am
20  Purdue Spring Fling
31  University Holiday – Memorial Day

June 2010
15-19  Fluid Power Net International PhD Symposium
20  ASABE Annual International Meeting