GRANTS & CONTRACTS AWARDED

FUNDING OPPORTUNITIES
The Department of Defense (DoD) Defense University Research Instrumentation Program (DURIP) has announced proposal deadlines for the 2006 Fiscal Year. Full Proposal Deadline - must be received no later than 4:00 p.m. Eastern Daylight Time, Thursday, August 25, 2005. Information is available at: http://www.fedgrants.gov/Applicants/USAF/AFMC/AFOSR/AFOSR-BAA-05-4/Attachments.html

PAPERS ACCEPTED FOR PUBLICATION AND PRESENTATION


Ivantysynova, M., Ch. Huang, and R. Behr, 2005. "Measurements of Elastohydrodynamic Pressure Field in the Gap between Piston and Cylinder." Bath Workshop on Power Transmission & Motion Control I- PTMC 2005; Bath, UK.


SEMINARS

Plan ahead – The 4th FPNI (Fluid Power Net International) -PhD Symposium in Sarasota, to be held at the campus of the New College of Florida, from June 13-17, 2006. Dr. Monika Ivantysynova is serving as chairman of the organizing committee. Official registration will begin in January 2006. The deadlines for submitting manuscripts are:

- October 31, 2005 Submission of abstracts
- December 10, 2005 Notification of acceptance
- February 28, 2006 Completed manuscripts & registration

http://www.fpniphdsymp06.net

ABE IN THE NEWS

ABE ACADEMIC PROGRAMS

ABE and ECN has just installed a new Sun V440 fileserver called danpatch in ABE 405B. The new computer replaces the older danpatch computer that was purchased in 1996. The new danpatch is a four 1.6 GHz processor Sun Solaria machine with 16GBytes of memory and two 1.45 Tbytes disk raids. The Oracle database warehousing the research data used by several department web pages is running on this new computer. Its expanded disk storage and processing power will provide departmental computing services for the next several years. ~ Stan Harlow

FACULTY & STAFF NEWS

Dr. Sonny Ramaswamy has accepted the position of Director of Agricultural Research Programs and Associate Dean of Agriculture beginning January 1, 2006.

Dr. Albert Heber and graduate student Sang-hun Lee attended the SAE-ICES conference in Rome, Italy, June 11-15 where they presented papers related to biofiltration research for NASA.

Prof. Maier and members of his research group (Raj Hulasare, Ricardo Bartosik, Nathan Fleck, Wat Chayaprasert) participated in the International ASAE meeting in Tampa, FL last week with eight paper presentations and two posters. After the meeting they extended their stay to take advantage of two educational visits. The first one was to The Land located inside Epcot, where they received an exclusive 2+ hour behind the scene tour of the greenhouse facilities. They were hosted by Mr. Les Frey, a Purdue M.S. Horticulture graduate, who is responsible for the hydroponics greenhouse displays. He also serves an the student internship coordinator and invites interested Purdue undergraduate students to apply for the program. The tour was arranged by Nathan Fleck, who was an intern at The Land from December 2002 through June 2003. The second visit was to the Kennedy Space Center, where the group enjoyed learning about Purdue’s ties to the space program and its astronauts as well as about the final preparations for the launch of the Discovery space shuttle, which lifted off successfully Tuesday morning of this week.
On July 16, **Prof. Maier** successfully completed his first Ride Across Indiana (RAIN Ride). This is a 160-mile timed bicycle ride that starts at the Illinois state line near West Terre Haute and ends at the Ohio state line in Richmond. He completed the ride in 9 hours and 13 minutes and placed 193rd among 906 riders who finished the race within the 14-hour time limit. In terms of the engineering performance data, he averaged 19.2 mph for an on-bike ride of 8 h 21 min, which required maintaining a cadence of 66 rpm, about 213 watts of power at the pedals, and burning an estimated 5500Kcal in energy. And “yes” it was fun indeed but don’t plan on him riding the Boilerdraulics tricycle at next year’s RAIN ride! The picture shows Prof. Maier with fellow riders from his church group before the early morning mass start of about 1100 riders. The picture was taken by **Josh Lehe**, a Purdue ME sophomore working in the post-harvest research group this summer, who drove the personal SAG vehicle to supply the group along the route.

The search process has begun for a new Indiana State Chemist. The search committee has met and developed the position announcement. The committee is generating a list of prospects for the position. All faculty and staff can help in the process by forwarding the names of prospective nominees with contact information to any committee member. Additional information can be found at: [www.isco.purdue.edu/](http://www.isco.purdue.edu/). Search Committee: John Baugh, Craig Beyrouty, Jim Forney, Tim Gibb, **Jane Frankenberg**, Mark Hermodson (chair), Tom Jordan, Rick Latin, Linda Lee, Rich Linton, Larry Nees, Ray Martyn, Terry Strueh, Leon Thacker, and Fred Whitford.

**STUDENT NEWS**

**RETIREE & ALUMNI NEWS**
## Calendar

### July 2005

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>4</td>
<td>4th of July - Official University Holiday</td>
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</table>
| 8    | **Rudy Chervil – M.S. Final Defense** – Major Professor: Dr. Al Heber  
"Air Pollutant Emission and Mitigation by Diet Manipulation at Two High-Rise Layer Barns”  
10:00 a.m.  
ABE 212 |
| 8    | **Akilah Martin – Ph.D. Final Defense** – Major Professor: Dr. Rabi Mohtar  
"Assessing Student’s Learning and Decision-Making Skills Using High Performance Web-Based Computational Tools.”  
1:30 p.m.  
ABE 205 |
| 12   | **STEP (Seminar for Top Engineering Prospects)**  
| 14   | **STEP (Seminar for Top Engineering Prospects)**  
Machine Systems Engr. led by Harry Gibson and Bill vanDoorn  
Environmental & Natural Resources Engr. led by Bernie Engel and Mark Thomas |
| 18-20| Top Farmer Crop workshop |
| 19   | **STEP (Seminar for Top Engineering Prospects)**  
| 19   | **Purdue Alumni & Friends – Complimentary Breakfast @ ASAE**  
7-8 a.m. |
| 21   | **STEP (Seminar for Top Engineering Prospects)**  
Machine Systems Engr. led by Harry Gibson and Bill vanDoorn  
Environmental & Natural Resources Engr. led by Bernie Engel and Mark Thomas |
| 26   | **STEP (Seminar for Top Engineering Prospects)**  
| 27   | **ABE Celebration for an Outstanding Year in Grants & Contracts**  
Randy Woodsom and Mark Hermodson will join the celebration. |
| 28   | **STEP (Seminar for Top Engineering Prospects)**  
Machine Systems Engr. led by Harry Gibson and Bill vanDoorn  
Environmental & Natural Resources Engr. led by Bernie Engel and Mark Thomas |
| 28   | **Rajesh Singh – Ph.D. Final Defense** – Major Professor: Dr. Bernie Engel  
"Pattern Recognition of a Remote-Sensing Imagery Using Data Mining and Statistical Techniques”  
3:00 p.m.  
ABE 301 |
| 28   | Seminar – Yip-Wah Chung, Ph.D. NSF Program Director of Surface Engineering and Material Design  
"Obtaining Funding from the National Science Foundation: What to Do, What Not to Do”  
MSEE B12  
2:30 -3:30 p.m. |

### August 2005

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>2-4</td>
<td>Farm World Expo – Terre Haute, IN – BNG will have a display</td>
</tr>
</tbody>
</table>
| 6    | **Commencement**  
9:30 a.m. |
| 16   | **ABE Faculty Retreat**  
W.H. Daniel Turfgrass Research & Diagnostic Center  
1340 Cherry Lane (north of Ross-Ade Stadium on the north side of campus) |
<p>| 17   | Purdue Day at the Indiana State Fair – BNG will have three displays |
| 22   | Fall Classes Begin |
| 25   | <strong>Primary Committee Meeting (tentative)</strong> Time TBA |
| 26   | Grad Student Orientation |
| 26   | Last day for late registration |
| 30-9/1| Farm Progress Show – Decatur IL – BNG will have a display |</p>
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>1</td>
<td><strong>ABE Welcome Back Picnic</strong> <em>(tentative)</em></td>
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<tr>
<td>5</td>
<td>Labor Day - Official University Holiday</td>
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<tr>
<td>10-11</td>
<td>Family Weekend</td>
</tr>
<tr>
<td>10</td>
<td>University Development/Purdue Student Union Board sponsored Pancake Breakfast on the Memorial Mall  8:00 a.m. – 9:00 a.m.</td>
</tr>
<tr>
<td>13</td>
<td><strong>Dean Woodson ABE Department visit – Agenda &amp; Times TBA</strong></td>
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<tr>
<td>13-15</td>
<td>Farm Fest – Tipton Farm Show, Tipton County Fairgrounds – BNG will have a display</td>
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