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Greetings from Purdue Animal Sciences

Greetings from the Department of Animal Sciences!

I hope you enjoy our 2007 Animal Sciences Newsletter. We again highlight many of the departmental activities of the past year, including updates on the accomplishments and achievements of our students, staff, and faculty. We thank our alumni, friends, and industry partners and stakeholders for the significant support that has been vital to our success as a department.

As a result of the changing agriculture in the State of Indiana, many of our faculty and staff members have had opportunities to focus on some new areas of research and extension education this year. The growth of the biofuel (ethanol and soy diesel) industry in the State has presented many challenges for the livestock and poultry industries. Our faculty and staff have stepped up to assist the industry in studying ways in which co-products from the many biofuel plants (e.g., distillers grains and glycerol) can be utilized more efficiently as a feedstuff for livestock and poultry. Animal Sciences has played a major role in the College-wide effort to address this issue. Several research projects are underway and several extension publications have already been published. Check out the Purdue Extension Bio-Energy Series at http://www.ces.purdue.edu/bioenergy/ to view the reports from various departments in the College.

Along with the growth of biofuel plants, many counties in Indiana are also seeing expansion and construction of new livestock and poultry operations. Animal Sciences is participating in a College-wide effort to provide assistance to the communities considering animal industry growth. Faculty and staff are developing extension education materials and conducting research on air and water quality issues, public health issues, and social and economic issues, all pertaining to the co-existence of livestock operations and rural communities. It is exciting to be part of a changing and growing agriculture industry in Indiana!

We continue to add new talent to enhance our teaching, extension, and research programs. Searches are underway for new faculty members in developmental biology, biology of obesity, dairy cattle nutrient management, and reproductive physiology. These new positions will bolster our research, extension, and teaching in our signature areas (Animal Well-Being, Growth & Developmental Biology, and Sustainable & Efficient Production & Management Systems). Two new faculty members have joined the department in the past year. Dr. Paul Ebner joined the faculty in July 2006 and is developing a research and extension program in microbiology and pre-harvest food safety. He and his wife, Paige, moved to Purdue from Shreveport, Louisiana. Dr. Amy Lossie joined the faculty in August 2006 and is developing a research and teaching program in animal genomics. Amy and her husband, Andy, moved to Purdue from Houston, Texas. More detail on their programs, and the programs of other faculty and staff, can be viewed on our website (http://www.ansc.purdue.edu).

Among our new hires at the Animal Sciences Research & Education Center (ASREC) is Mr. Craig Williams. Craig is the new Coordinator at ASREC and comes to us from Purdue Cooperative Extension (Cass County). Larry Underwood retired from the Coordinator position in November 2006 after working over 37 years at the Animal Sciences Farms.

Faculty and staff have been working hard this academic year preparing for a USDA-CSREES external review of the department that is scheduled in April. The last review was in 2001, so we look forward to a review of our programs. We use these reviews as an opportunity to showcase and seek feedback on our programs, but more importantly we aim to seek input on our future plans and directions for the department.

We value greatly the input and support from our alumni and industry stakeholders. We hope you will assist us in reaching our goals for the future. Your support is important as we develop effective and productive programs for our students and stakeholders. Please visit to learn more about our programs. I look forward to seeing you in 2007!

Animal Sciences Advisory Board

Current members are: Bob Albrecht, Indiana State Dairy Association; Phil Anderson, Indiana Rural Development Council; Myron Bozell, Creamery License Division; Paul Brennan, Indiana State Poultry Association; Mike Cecava, ADM Research; Jim Culp, Beef Producer; Terry Fleck, Intentional Leadership, Inc.; Dawn Frank, Horizon Veterinary Service, Inc.; Pam Green, Maple Leaf Farms; Cal Jackson, Creighton Brothers; Merrill Kelsay, Kelsay Farms; Mark Logan, Legan Livestock & Grain; Mike Lemmon, Premium Marketing; Jeff Luckman, Smithfield Foods; Ken McGuffey, McGuffey Dairy Consulting; Ed Nelson, Indiana Packers Corporation; Don Orr, JBS United, Inc.; Stan Poe, II, Poe Hampshires; Danita Rodibaugh, Rodibaugh & Sons; Clark Sennett, Beef Cattle Producer; David Steen, Indiana State Egg Board; Jeff Veenhuizen, Monsanto Company; and Julia Wickard, Indiana Beef Cattle Association.
Muir’s Animal Well-Being Research Affects Worldwide Production

By Jessica Livingston, Animal Sciences Ambassador

Dr. William Muir has developed the “Group Selection Theory” that states how to make kinder, gentler animals without measuring behavior traits, by shifting emphasis of selection from the individual animal to a group of animals. Muir does the majority of his well-being research on chickens and pigs. The “Group Selection Methods” are currently being used by almost all poultry breeders in Europe.

Dr. Muir teaches three courses at Purdue University and has taught seven international courses. Some of his international courses were taught in the Netherlands, Finland, Sweden, and Denmark. At Purdue, he teaches ANSC 511 Population Genetics, ANSC 612 Advanced Population Genetics, and ANSC 691 Special Problems in Population Genetics. Muir has noticed a significant increase in the number of students enrolled in ANSC 511, and he believes this is because population genetics is an interface of molecular and quantitative genetics. For his outstanding research in examining multilevel selection methods to improve animal well-being and productivity, Muir received the Animal Well Being Award in 1996 from the American Poultry Science Association and the Merck Research Award for Achievement in 1997. The Department of Animal Sciences presented Dr. Muir with the Graduate Educator Award in 2006. Muir was appointed head of the Purdue University Life Science PhD program (PULSe) in 2006 that involves 150 faculty members across the university.

Muir joined the faculty here at Purdue in 1981 to fill an opening in poultry breeding, and currently is a professor of breeding and genetics. He obtained his BS at the University of Illinois in 1971 where he researched mutation rates due to ionizing radiation as a result of sex ratio shift. His MS was completed at the University of Illinois as well, where he studied how the bovine rumen ecosystem is affected by viruses. Muir received his PhD from Purdue University in 1977, where he started his group selection work.

After completing his doctorate, Dr. Muir became a University of Kentucky faculty member in the Departments of Animal Sciences and Statistics. He taught statistics there for four years before his return to Purdue.

Garner Works to Improve Problems in Human Psychiatry

By Lindsay Sims, Animal Sciences Ambassador

Dr. Joe Garner has been on the faculty at Purdue since 2004 as professor of Animal Behavior and Well-Being. He received each of his three degrees from Oxford University in England. While at Purdue, Garner has done research using mice and poultry. The main goal of Garner’s lab is to provide solutions to existing problems in animal behavior, welfare, production, and behavioral animal models. One-third of the work that Dr. Garner and his students do uses animals to study human mental illnesses. They look at problems in human psychiatry and apply them to animal research using methods found in the research of human mental illnesses such as autism, schizophrenia, obsessive compulsive disorder and more. In particular, they study trichotillomania (compulsive hair pulling that causes disfiguring hair loss), which affects three percent of women in the world. Using mice and chickens, Garner is able to study the behavior of normal animals to better understand the behavior of abnormal animals.

His lab uses highly ethical, non-invasive techniques taken from human psychological research. In addition to studying trichotillomania, he is looking at fetal programming and the impact of gene regulation and environmental factors. He also is creating new housing environments and cages for laying hens and mice. By developing better living environments, bird productivity and welfare should improve. By using mouse cages where the temperature can be controlled, they are studying mouse temperature preferences and how mice use behavior to cope with stressful temperatures, to improve welfare for them as well.

When asked about the impact of his research Dr. Garner stated, “In every experiment, we try to help an animal, a producer or human patient.”

* For more information on Trichotillomania, visit www.trich.org

Acknowledgment

We hope this Newsletter will increase your enthusiasm and ignite your pride in the exciting research, extension, and educational programs taking place in Purdue Animal Sciences. It is designed to provide information to our many alumni, students, staff, and special friends. We would be delighted if you would fill out the information form included on page 13 and return it to us.

The Newsletter Student Editor is Erika Richardson and the Newsletter Committee members are Donna Lofgren, Chair, Jennifer Crodian, Barry Delks, Pat Jonas, and Diane Patterson. A special thanks to Tristan Emery.

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Animal Feed Industry in China

One week after Spring 2006 final exams at Purdue, I was sitting in an airport in Beijing, China. I was going to Shenyang, the major industrial city of China, for a three month internship at Wellhope Agri-Tech Company, one of the most famous animal feed companies in northeast China. My duties would include teaching business English classes and explaining the culture and expectations of American business people. With only two semesters of Chinese, and little information on corporate America, I was unsure of how effective my work would be, and how much I would learn about animal science. However, I resolved to do my best and adapt.

As the summer passed I had many valuable experiences, and gained new friends and associates through my work. I was allowed to attend the national animal feed convention in Nanjing, China, where I heard lectures on current industry accomplishments and future projections, as well as an update on the Bird Flu situation. I also visited many universities, such as the Shenyang Agricultural University, and met with professors and deans in both animal sciences and veterinary medicine. Some of my favorite experiences, however, were visiting local farms and feed markets to observe how animal feed and products are sold and utilized for production agriculture.

My time in China was truly a remarkable experience. I learned about animal industry and medicine, and was able to meet a range of fascinating people, from the most prestigious members of the scientific community, to some very interesting farmers and producers. I was also able to learn many valuable lessons about Chinese culture, business and myself. China has vast potential for development in the area of animal science and veterinary medicine, and also has relevant contributions to share with the international community. It is my hope that through partnerships and experiences such as mine, we will be able to build a network of knowledge and friendship with China, so that we can mutually benefit from our work and discoveries in the future.

Dairy Club

2006 was another extremely busy year for the Purdue Dairy Club. The first event of the year was the annual Midwest American Dairy Science Association Student Affiliate Division meeting which was held in Madison, Wisconsin. Thirty members and one advisor made the trip to the Dairy Land of America to learn about the dairy industry. Shortly after returning from Midwest American Dairy Science Association, the club held its annual judging invitational for 4-H and FFA judging teams at the Purdue Farms in early March. In the middle of April, the Dairy Club participated in Boiler Barnyard which included selling grilled cheese and ice cream, and offered an “I Milked A Cow” stand where children as young as 1 year of age hand-milked a Holstein cow. The final event for the 2006 spring semester was the 4th Annual Boilermaker Heifer Sale. Thirty-six live lots and five embryo packages went through the sale ring in an event that involved complete club participation, because every animal was fitted and led by the club members.

In the Fall Semester, the club participated in the Ag Council Ice Cream Social and the College of Ag Hog Roast. In early October, the club returned to Madison, WI, to attend the 40th Annual World Dairy Expo. During the University’s fall break, ten dairy club members had the opportunity to work alongside A.B.S. and learn how to artificially inseminate cattle at the Purdue Dairy. If you would like to learn more about the Purdue Dairy Club, please visit www.purdue.edu/dairy.
**Animal Sciences Ambassador Update**

*By Lisa Hepworth, Animal Sciences Ambassador*

The Animal Sciences Ambassadors started this past year with great success, hosting various departmental events with a team of 23 students.

A second annual Ambassador retreat was held the first weekend after classes started to recharge the team’s enthusiasm for the year, and for all old members to meet their new counterparts. Stacey Norin, from Elanco, sponsored the weekend events, bringing her knowledge of the Insights personality evaluation to share.

During the fall of 2006, the Ambassador team worked closely with Animal Sciences and College of Agriculture staff and teaching faculty of introductory courses to help improve their educational quality. They also helped host students at the Welcome Back Picnic during the first week of classes, assisted faculty in Animal Sciences Homecoming weekend activities, began revising and updating various Animal Sciences pamphlets and informational sheets, and wrote to accepted students for the 2007-2008 school year.

This spring, the Ambassadors will host potential students during three Preview Days, designed to orient incoming students with the campus and department before they begin their college careers as Animal Sciences students at Purdue. The student life committee is still working hard on improving the social interaction of the department’s students by hosting various activities such as the first Animal Sciences semi-formal dance to be held in the Purdue Memorial Union this spring.

As usual, the Ambassadors will also be helping with the planning, set up, and management of the popular “Boiler Barnyard” during Spring Fest April 14-15. Thousands of adults and children visited the tent last year and we hope to see the event grow even more this spring. The Animal Sciences Young Alumni Reunion will continue this year, inviting all alumni from that last 10 years (1996-2006). The Ambassadors hope to see a great turnout to the spring activities, and strive to have another successful semester promoting and serving the Animal Sciences Department at Purdue University.

**Undergraduate Scholarship Award Recipients**

<table>
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<tr>
<th>Scholarship</th>
<th>Recipients</th>
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<tr>
<td><strong>Lilly Scholarship</strong></td>
<td>H.S. Senior (F’06) - Lynn Pezzanite</td>
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<td>Freshman - Erika Downey</td>
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<td>Sophomore - Amy Neal</td>
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<td>Junior - Lindsey Gordon</td>
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<td>Senior - Kelli Slack</td>
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<td><strong>Outstanding Class Awards</strong></td>
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<tr>
<td></td>
<td>Freshman - Bethanne Eddy</td>
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<td></td>
<td>Sophomore - Christine Johnson</td>
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<td></td>
<td>Junior - Rachel Cumberbatch</td>
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<td></td>
<td>Senior - Lindsey Gordon</td>
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<tr>
<td><strong>Baltzell Agri-Products Scholarship</strong></td>
<td>Seth Nahrwold</td>
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<td><strong>John Henry Hinkle Memorial Scholarship</strong></td>
<td>Christine Johnson</td>
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<td>Megan Kron</td>
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<td>Robyn Richey</td>
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<td><strong>Book-Harmon Leadership Scholarship</strong></td>
<td>Seth Nahrwold</td>
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<td><strong>Keith Lotz Memorial Scholarship</strong></td>
<td>Samatha Moore</td>
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<td><strong>LOUJA Undergraduate Scholarship</strong></td>
<td>Brady Thompson, Freshman</td>
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<td>Maria Cooper, Sophomore</td>
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<td><strong>Frank &amp; Wini Clark Beef Industry Scholarship</strong></td>
<td>Amy Neal</td>
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<td><strong>Elanco Scholarship</strong></td>
<td>Rachel Cumberbatch</td>
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<td><strong>Eric B. Luckman Award</strong></td>
<td>Lisa Hepworth</td>
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<td><strong>Henry Mayo Scholarship</strong></td>
<td>Erin Barnes</td>
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<td></td>
<td>Lindsay Eckert</td>
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<td></td>
<td>Tsumugi Kurosawa (Anne)</td>
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<td><strong>Paul E. Newman Scholar Award</strong></td>
<td>Denise Katz</td>
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<td>Teresa Tomala</td>
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<td><strong>Richard A. Pickett Memorial Award</strong></td>
<td>Paige Leffel</td>
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<td>Seth McDevitt</td>
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<td>David Weimer</td>
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<td><strong>Emerson J. Kuhn</strong></td>
<td>Kurt Fischer</td>
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<td><strong>Sandy Powers Indiana Sheep Industry Leadership Award</strong></td>
<td>Haley Resler</td>
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<td>Brittany Moore</td>
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<tr>
<td><strong>Rothenbarger Scholarship</strong></td>
<td>Melissa Sheel</td>
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<td>Susan Wulf</td>
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<td><strong>Charles L. &amp; Jean Rueff Award</strong></td>
<td>Katey Brattain</td>
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<td>Erika Downey</td>
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<td>Alan Duttlinger</td>
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<td>Brian George, H.S.</td>
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<td>Christina Smith, H.S.</td>
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<tr>
<td><strong>Thrasher Family Award</strong></td>
<td>Breanna Brash, Maree Deventer, H.S., Scott Kastning, Jennifer Luken, H.S.</td>
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<td><strong>W.A. Rafferty Livestock Leadership &amp; Citizenship Award</strong></td>
<td>Patrick Banks</td>
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<td>Amanda Sowers</td>
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<td>Jonathan Pleitner</td>
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<td>Jennifer Rogan</td>
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(Left to Right): Brittany Moore, Alan Duttlinger, Scott Kastning, DJ Weimer, Daren Miller, Jeremy Armstrong, Rachel Cumberbatch, Jessica Livingston, Breanna Brash, Lindsay Eckert, Samantha Moore, Jeni Rogan, Lisa Hepworth, Erin James, Christine Johnson, and Alyssa Auer. Not Pictured: Taran Blaize, Katey Brattain, Brent Hickman, Brandon Miller, Erik Mrozinski, Joel Parker, and Lindsay Sims.
Book—Harmon Leadership Program

This year’s Leadership Program featured a seminar presented by Carol Mutter. She currently serves as the Commissioner on the American Battle Monuments Commission (a Presidential appointment), and on the National Advisory Council of the Alliance for National Defense.

Carol Mutter served for over 31 years in the US Marine Corps and attained the rank of Lieutenant General (the second most senior rank in the military). Her military experience included leadership positions in logistics, data processing, financial management, human capital management, equal opportunity and research, development and acquisition. Carol has achieved many firsts for women during her career. She was the first woman: to be qualified as Command Center Crew Commander/Space Director at US Space Command; of general/flag rank to command a major deployable tactical command; Marine Major General, and senior woman in all the services at that time; to be nominated by the President for three-star rank; and Marine three-star general.

The leadership program was filled to capacity with approximately 170 people attending the presentation held in the Deans Auditorium on February 7, 2007. During the presentation, entitled “Keys to Effective Leadership,” Mutter focused on: learning the critical role of leadership; expanding the vision of world-wide opportunities; why students should seek opportunities to serve; and making a difference beyond the workplace.

This program is sponsored by: Maple Leaf Farms, Monsanto Company, the Department of Animal Sciences, Conversations on Learning in Agriculture Series, and the College of Agriculture.

Livestock Judging Team

The 2006 Livestock Judging Team had a competitive Fall and continued to make progress. Team members are Jeremy Armstrong, Amanda Crawford, Alan Duttlinger, Eric Frazier, Payton Farrer, Bret Henderson, and Gavin Wellman.

At the National Barrow Show in Austin, Minnesota the team finished seventh out of seventeen teams. A couple of weeks later they traveled to the World Beef Expo in Milwaukee, WI. The team finished second in beef and reasons. They were third overall, third in sheep, and fourth in swine. Individually, Crawford and Duttlinger were eighth and ninth in sheep, respectively. In swine, Duttlinger was third and Armstrong was seventh. In beef, Frazier was third, Crawford was fourth and Armstrong was ninth. In reasons, Crawford was fifth and Frazier was tenth.

Purdue hosted the Boilermaker Classic and had a great turnout from across the country. This event is not for awards, but serves as a mock contest for the students. The next day, the team traveled to the Stockman Contest held in Clinton County. The College division does not have team awards in this event, but Purdue had individuals in the top ten of every species.

Kansas City was an educational event for the team. The team did not fare very well overall, largely due to inconsistency. They returned home and prepared for the National Contest in Louisville, Kentucky.

Louisville was a much better performance for the Purdue team. The contest was more challenging than in recent years. The team was fourth in cattle and eighth overall.

Thank you to everyone for the support and time provided with workouts and classes for the team to prepare for the educational events while building the valuable skills for their careers. The “out of the classroom” experiences are valuable and irreplaceable to the educational process.
Dairy Judging Team

The Purdue Dairy Judging Team used the fall of 2006 as a rebuilding season.

Eight juniors were given judging exposure at the Maryland State Fair, North American, World Dairy Expo and the Royal Winter Fair. The competition team participated at the Accelerated Contest in Wisconsin. The team consisted of Kelsey Kouns, Gretchen Mast and Craig Blough. Craig was third high individual overall, sixth in reasons and the team placed tenth. With the experience gained this year, the next two years should be very exciting as we return with some seasoned seniors.

Avian Science Club

This past year the Avian Science Club was successful in meeting goals of branching out from strictly commercial poultry science into other avian species. The first step was the adoption of two cranes for the International Crane Foundation in Baraboo, WI. Over the course of the next year the club is planning to have guest speakers from different aspects of the avian world, including a raptor aficionado and a national award winning breeder of exhibition show birds.

This past summer, the club was honored to have several members awarded scholarships to the Midwest Poultry Consortium’s Center of Excellence in Madison, WI. This program gives students unprecedented opportunities through advanced poultry science courses. Students learn specialized research techniques from faculty representing several universities as well as the United States Department of Agriculture.

This April, we look forward to seeing you at the Boiler Barnyard during Spring Fest where you too can hold a duckling, a chick, or a poult (aka a baby turkey).

The Avian Science Club would like to thank our advisors Drs. Hester, Applegate and Latour for their constant support!

Block and Bridle Club

The Block and Bridle Club has had a busy and exciting year thus far. Thirty-eight members recently returned from the 87th annual Block and Bridle National Convention which was held in Kissimmee, Florida. The Purdue chapter had the largest number of students participating in this year’s convention. We enjoyed meeting students from over 40 other universities around the country. The three-day convention consisted of Florida agriculture tours that took us to several cow-calf operations, horse ranches, and dairy herds, to name a few. We listened to several speakers talk about important issues in agriculture and ended the weekend with a banquet that recognized the top clubs. The next convention will be held in October in Kansas City, Kansas.

This past fall we hosted a successful Tot’s Day with over 300 elementary school students in attendance. We set up a small petting zoo type atmosphere for them where they were able to hold baby chicks, piglets, and much more. We hope to teach many more young students about animal agriculture in April when we hold our spring Tot’s Day. We also hosted a livestock judging contest in October for Senior and Junior colleges as well as FFA and 4-H participants. The next judging contest will be on March 31st.

One of our busiest times of the year is quickly approaching on April 14th and 15th in conjunction with Purdue’s Spring Fest. We will be having a tent with information about our club and selling various food items, which in turn is our biggest fundraiser of the year. Another fundraiser that we look forward to is the Boilermaker Hog Show. This year the hog show will be held at the State Fairgrounds on May 20th.
Graduate Student Association

The GSA fosters positive interaction between faculty, students, alumni, and industry.

The past year has been very busy for the association! In February, the Second Annual Chili Cook-Off was held with great success. Hungry faculty and staff sampled all the delicious entries and selected Dr. Rebecca Krisher’s Spicy Bison version as the first place winner. In the spring, members worked at the Boiler Barnyard, held during Spring Fest, selling Animal Sciences merchandise as a fundraiser and presented posters to the public which highlighted the students’ projects. The group also held the Barnyard Olympics during the Workshop for Youth. Other activities for the year included a fall picnic, organizing bi-weekly doughnuts and coffee on Friday mornings for the department, an outing to Buffalo Wild Wings to watch Purdue football and a Tuesday night out at the movies.

GSA officers include: President: Jolena Waddell, Vice President: Melissa Paczkowski, Secretary/Treasurer: Brianna Gaskill, Fundraising Chair: Nathan Horn, Program Development: Rachel Dennis, Academic Quadrathlon: Joshua Jendza, Social Chairs: Collette Thogerson and Brianna Gaskill, Computer: Joshua Jendza, Graduate Programs: Vanessa Kanaan, Seminar: Erin Schenck, Workshop for Youth: Collette Thogerson and Tayo Adedokun, Purdue Graduate Student Senator: Mandy Richardson, Ambassador Liaison: Monica Pittman.

Graduate Student Awards

**Vanessa Kanaan**: National Pork Board Graduate Student Workshop Scholarship 2006, Purdue University Graduate Student Award for Outstanding Teaching 2006

**Rachel Dennis**: Animal Welfare Institute research grant, Humane Society US Travel Award

**Rosangela Poletto**: Travel Fund Award from ISAE 2006 to attend the congress in Bristol

**Tayo Adedokun**: Pinnacle Graduate Student Award from the International Ingredient Corporation

2006 LOUJA AWARDS were presented to:
Rosangela Poletto, Adetayo Adedokun, Jolena Fleming Waddell, Oluyinka Olukosi, Jessica Williams, Luca Magnani and Lindsay Wilson

**Book-Harmon Leadership Scholarship** was awarded to Luca Magnani

**G.W. Friars International Graduate Student Fellowship** was awarded to Jesung Moon

**W.R. Featherston off-campus Training Fellowship** was awarded to Kiho Lee & Luca Magnani

**W.R. Featherston Early Graduate Career Award** was awarded to Jolena Fleming Waddell

**W.R. Featherston Outstanding Graduate Teaching Award** was awarded to Vanessa Kanaan

**W.R. Featherston Outstanding MS Award** was awarded to Martiana Florenta Sega

**W.R. Featherston Outstanding PhD Award** was awarded to Kari Saddoris

Genetics Graduate Students and Post-Docs Reunion

A reunion of former genetics graduate students and post-docs of Drs. Earl Bell, Ben Bohren, Dewey Harris, Wendell Kyle and Truman Martin will be held at the Purdue University Animal Sciences Department Homecoming Event on Saturday October 27, 2007.

A dinner is planned for the evening of October 27. Rooms have been reserved at the Fairfield Inn in Lafayette. If you know of former students or post-docs who may not be receiving this newsletter, please inform them about the planned reunion. If you plan to be there, or if you have questions, please contact Barry Delks at delks@purdue.edu or Michael Grossman at mikeg@uiuc.edu.

Faculty and Staff News

Outstanding Counselor Award

Dr. Patricia (Scotti) Hester has counseled students for most of her career at Purdue. Her service on the College’s Curriculum and Student Relations Committee has contributed to Scotti’s resources as an effective counselor.

Outstanding Teaching Award

Dr. Terry Stewart teaches ANSC 311 (Animal Breeding) and ANSC 106 (Companion Animal Biology), and has helped lead the Maymester study abroad class in China. He also counsels many students in the department.

Outstanding Service to Students Award

Barry Delks, Career Services and Alumni Relations Coordinator for the department, provides an important service to students and our industry. He handles student placement activities and teaches extensively in the department.

Administrative, Professional, Clerical and Service Staff Honored For Years of Service

30 Years: Mark Einstein, David Steen
25 Years: Jeff Fields
20 Years: Nena Fawbush, Patricia Jaynes
15 Years: Brad Ford, Robert Fry, Tim Johnson
10 Years: Steve Hendress

Other Faculty and Staff Awards

Drs. Susan Eicher and Tim Johnson received plaques recognizing patents issued as a result of their research. These were presented at the Inventors’ Recognition Dinner in October.

ADSA and ASAS Meetings

The 2006 ADSA meeting included the ADSA Centennial Celebration and a section of posters celebrating 100 years of dairy science at universities. Two of the posters were from Purdue - one describing 100 years of dairy production at Purdue (authored by Drs. Albright, Baumgardt, and Schutz) and a second describing dairy foods processing at Purdue (by Jim Chambers, Professor Emeritus of Food Science). These posters, and other Centennial information, can be viewed on the ADSA website (www.adsa.org).

A number of ADSA and ASAS awards were presented. Recipients with Purdue roots were: Mike Brumm (ASAS Fellow Award for Extension); Gretchen Hill (ASAS Nonruminant Nutrition AFIA Award); Gary Lane (ASAS Fellow Award for Industry); and Reg Gomes (ADSA Fellow Award).

New Faculty and Staff

Dr. Paul Ebner joined the faculty in July 2006. Paul received a BA degree from Kalamazoo College, and MS and PhD degrees from the University of Tennessee. He completed an NIH NRSA Postdoctoral Fellowship at LSU Health Sciences Center prior to moving to Purdue.

His research interests focus on pre-harvest food safety issues, such as the impact of antibiotic use on antibiotic resistance development in pathogenic bacteria. Currently, he is working to develop new strategies to more safely reduce pathogen load in food animals prior to slaughter.

Dr. Amy Lossie joined the faculty in August 2006. Amy received a BS degree from the University of Michigan and a PhD degree from the University of Florida. She then completed post-doctoral study at Baylor College of Medicine before moving to Purdue.

Her research projects are focused on understanding the mechanisms underlying epigenetic gene regulation (maternal and paternal-specific epigenotypes occur in genes where one of the parental alleles is repressed), with a particular interest in how DNA methylation, non-coding RNAs and chromatin structure interact to direct the expression of developmentally regulated genes.

Craig Williams joined the department as coordinator of the Animal Sciences Research and Education Center (ASREC). Previously, he was the ANR Extension Educator in Cass County.

Faculty Promotions

Dr. Shawn Donkin was promoted to Full Professor. Shawn has been on the Purdue faculty since 1995 and has established an internationally-recognized program in ruminant nutrition, liver function, and glucose metabolism. His teaching includes the Dairy Management and Ruminant Nutrition and Physiology courses.

Retirements

Larry Underwood, Coordinator of the Animal Sciences Research & Education Center, retired in November 2006 after serving the Animal Sciences Department for over 37 years. Larry received his BS and MS degrees in Animal Sciences at Purdue and began his career at the Animal Science Farms. He was swine unit manager from 1970 to 1984 and overall farm coordinator from 1984 to 2006. We wish Larry well in his retirement!

Deaths

Dr. Lynn D. Busse (PhD, ’79), 66, passed away April 4, 2006. Lynn worked at the Cooperative Extension Office at Purdue until he retired as associate director in 1993 due to disability. He is survived by his wife, Gloria Jean Welsh. He is also survived by 2 sons, 2 brothers, and 3 grandchildren.

Dr. Lowell L. Wilson, 70, passed away July 26, 2006. He was Professor Emeritus of Animal Sciences at Penn State. He worked at Purdue from 1964-1966, and is credited with founding the Indiana Cattlemen’s Association.
Faculty and Staff International Participation

**Dr. Layi Adeola** presented talks in Edmonton, Canada; at the World Waterfowl Conference in Guangzhou, China; in Wageningen, The Netherlands; at Obafemi Awolowo University, Ile-Ife, Nigeria; and at the FEDNA Conference, Spanish Foundation for the Development of Animal Nutrition. Dr. Adeola attended the 9th International Symposium on Digestive Physiology in Pigs in Vejle, Denmark. He participated in a research planning meeting and attended the BSAS meeting in York, England.

**Dr. Todd Applegate** gave two talks at the National Taiwan University, on nutritional status and intestinal microbial community, and on posthatch intestinal development; he is also developing research collaboration and a possible undergraduate exchange. Dr. Applegate gave a talk in Vienna, Austria, on intestinal research in poultry. He talked in Ireland on nitrogen emission reductions - dietary approaches in poultry.

**Dr. Joe Garner** continued his research in collaboration with Dr. Hanno Würbel at the University of Giessen. Dr. Garner gave a plenary at the 40th International Congress of the International Society of Applied Ethology in Bristol, UK, titled “Standardization and the Red Queen: applying methodologies from ethology, neuropsychology, and field biology to problems in high-throughput behavioral methods.”

**Dr. Scotti Hester** attended the European Poultry Conference in Verona, Italy, and presented the paper “Use of dual-energy x-ray absorptiometry to assess skeletal integrity in live Japanese quail.”

**Dr. Rebecca Krisher** developed a new study abroad course from a project entitled “International Discovery Experience for Undergraduate and Graduate Students in South Africa: Development of Assisted Reproductive Technologies for Antelope Conservation.” She accompanied five Purdue students to the Wildlife Biological Resource Center, Endangered Wildlife Trust in Pretoria, South Africa from May to July 2006. The program involved students in a significant research project while introducing them to a culture and location that is different from the traditional study abroad program.

**Dr. William Muir** participated in Sustainable Animal Breeding (SABRE) workshop sponsored by the UK BBSRC Section Numerical genomics and approaches to incorporate genotyping information in the analysis of phenotypes. He gave a presentation “Group selection and behaviour genomics” in Edinburgh, Scotland, UK. Dr. Muir taught a course on Principles of Quantitative Genetics in the Scandinavian Institute in Statistical Genetics at the University of Aarhus, Aarhus, Denmark.

**Dr. Allan Schinckel** met with a Colombian pork producer cooperative in Medellin, Colombia to discuss several issues including genetic improvement programs - selection based on EPD’s, nutritional programs targeting pig lean growth rates, optimal use of Paylean, and payment for lean marketing systems. He presented talks to pork producers, and met with nutritionists and pork processors.

**Drs. Terry Stewart and Allan Schinckel** met with two swine geneticists from Japan. They discussed the development and refinement of STAGES - the swine testing and genetic evaluation system developed at Purdue, and the continued refinement of the program including additional reproductive and pork quality traits.

**Drs. Heng-wei Cheng, Dave Gerrard, and Alan Grant** traveled with Allen Hubbell, International Students and Scholars Office, to Zhejiang University and Huazhong University in China to establish a summer intern program at Purdue for Chinese students. The Purdue group made presentations on graduate school opportunities to over 600 students from multiple colleges. Thirteen students were interviewed and invited to Purdue for a seven-week research internship for the summer of 2006. A faculty member from Zhejiang University will also be joining the Animal Science faculty as a visiting scholar.

**Drs. Colleen Brady, Professor of Youth Development and Agriculture Education, John Forrest, Professor Emeritus of Animal Sciences, and Ed Pajor and Mark Russell, Professors of Animal Sciences, planned and conducted the 2006 Maymester course “Exploring International Animal Agriculture of Central Europe.” May 15 to June 9, 25 students traveled to Warsaw and Krakow, Poland; Nitra, Slovakia; and Brno and Prague, Czech Republic.

Exploring International Agriculture in Eastern Europe

Drs. Colleen Brady, Ed Pajor, and Mark Russell accompanied 25 undergraduate students in the 2006 offering of ANSC 294, “Exploring International Animal Agriculture.” This is the fifth year of this Maymester class. The class explored Warsaw and Krakow, Poland along with Nitro, Slovakia, and Brno and Prague, Czech Republic. The class left on May 17 and returned on Wednesday, June 7. They presented a seminar on Friday evening, June 9. The class visited five veterinary and agricultural universities, research institutes, joint venture agribusinesses, animal enterprises, and many ancient churches and castles. They visited the monastery where Gregor Mendel did his pioneer genetics research and visited many structures of churches and villages from the 10th century. They also learned a great deal of European history (which is the history of most of the class), World Wars, and the Holocaust.
**LIFETIME CAREER AWARD**

Joe Pearson, of Hartford City, IN. BS 1964. Pearson participates in school administration, national agricultural commodity and policy groups, mission service, and the Rotary Club. Pearson currently serves as Executive Director of the Technology Innovation Entrepreneurship Center for the Scott County Economic Development corporation. He will assist with helping new entrepreneurs to collaborate with the Technology Park. He is the former assistant commissioner of agriculture for Indiana, where he served the National Association of State Department of Agriculture, Indiana State Fair Board, Indiana State Fair Commission, Indiana Agriculture Leadership Institute, Indiana FFA Foundation, Counter Terrorism and Security Council, and Indiana Agriculture and Rural Development. He has also served as an agricultural advisor for the Methodist Mission in Sibu Sarawek, vice president of Blackford County Farm Bureau and president of the Indiana Soybean Association. Pearson has received the Sagamore of the Wabash Award, the Purdue Ag Alumni Certificate of Distinction and the Indiana Livestock Breeders Hall of Fame Award.

Walt Waitt, of Greenfield, IN. BS 1955. Waitt had a short stint at a purebred Hampshire farm before serving in the Army Reserves from 1956 to 1963. He served as hog buyer for the Indianapolis Stockyard in 1956 and joined Eli Lilly in 1957, where he worked in swine research at the Greenfield Agricultural Research Center until retiring in 1992. Waitt was involved in the first feeding experiments on Tylan in 1959, Paylean in 1980 and was responsible for managing many of the swine research experiments. He played an important role consulting on the new swine facility at Elanco in 1980. In addition to his work, Waitt served on the Hancock County 4-H Fair Board, 35 years as swine superintendent, chairman of the pork chop tent at the Indiana State Fair and the Purdue Livestock Judging Team Committee. He also serves as a Hancock County Councilman. Waitt has received the Indiana Pork Producers’ Industry Meritorious Service Award.

**MID-CAREER AWARD**

John Madia, of Carmel, IN. BS 1978 and graduated from the Indiana Partnership for Executive Development at Indiana University in 1993. Madia, vice president of human resources, productivity and site operations at Dow AgroSciences, is responsible for being the global focal point for a number of initiatives, including Six Sigma, intended to improve their overall global competitiveness and productivity. Previously, Madia served as general manager for the Midwest Local Business Unit and held various sales and marketing roles including group marketing manager, business development manager and global business director. Over the years, he was involved in multiple Dow AgroSciences’ segments from crops to professional pest, turf and ornamental, tech products and new product development. Madia serves on the Sponsor’s Board for FFA, and has held positions on the Purdue’s College of Agriculture Advisory Board, the Athletic Advisory Board and the Agricultural Retailer’s Association Planning Board. He and his wife are part of the Purdue President’s Council. Also, Madia was recognized by Dow with the Genesis Award for Excellence in People Development.

**EARLY CAREER AWARD**

Jody Roth, of New Palestine, IN. Roth earned her bachelor’s degree in 1992 and her master’s degree in 1994. Roth started her career at Elanco Animal Health as an associate research scientist. By 1998, she had been promoted to senior regulatory associate and was responsible for developing regulatory strategies for new product development. In 2001, Roth became a senior program phase pharmaceutical projects management associate. Recently, Roth has been promoted to associate manager of Regulatory Affairs, where she develops regulatory strategies to fit with cross-functional oncology teams and implements interaction with the United States Food and Drug Administration. Roth was certified as a Project Management Professional in 2005. As a member of the Project Management Institute, she has authored and co-authored more than 11 scientific articles.
Distinguished Agricultural Alumni

Max Rodibaugh received his BS in 1974 and DVM in 1977 from Purdue. He is a recognized leader in the swine health area of the swine industry and is a founding partner of Swine Health Services, Frankfort, IN. He was recognized by the College of Agriculture and by the Department of Animal Sciences on March 3, 2006 as a Distinguished Agricultural Alumnus.

The DAA award honors mid-career Purdue Agriculture graduates who have made significant contributions to their profession or society in general and have a record of outstanding accomplishments.

2006 Indiana Livestock Breeders Hall of Fame Honorees

The awardees are the 3 holding the pictures, and L to R they are Martin Stob, Keith Woodbury, and Dale Grubbs.

Dr. Martin Stob, Educator, West Lafayette, IN. Dr. Martin Stob has dedicated his life to the education of current and past livestock breeders in the state of Indiana. For approximately 40 years, he taught the course “Animal Reproductive Physiology” at Purdue University and influenced the lives of approximately 4,000 students. When a significant sample of the students was polled, 93% indicated that they would like to take another course with Dr. Stob and 96% would recommend the course to their friends. Dr. Stob was named “Outstanding Teacher in the School of Agriculture” in 1964, 1966, 1969, and 1970 and “Outstanding Counselor in the School of Agriculture” in 1977. Selection limitations of these awards prevented additional recognition. Martin was one of 24 Purdue Teaching Faculty named to the “Iron Key” over a 60-year period. He also served students as an advisor for the Rodeo Club, Student Senate, Block and Bridle and the Farmhouse Fraternity. Dr. Stob participated in research that measured the effects of both natural and administered hormones on carcass quality, growth, embryonic mortality and breeding efficiency of sheep, cattle, and swine.

Keith Woodbury, Belgian Draft Horse Breeder, Winchester, IN. Keith Woodbury started with one Belgian Draft horse in 1951 and has become known across the United States and Canada as a distinguished and respected breeder of Belgian Draft horses. In the show ring, his accomplishments are too many to mention here. Keith has been chosen by his peers to judge countless state fairs and national shows. He has lectured at several seminars and is highly respected in the draft horse industry. He has a wealth of knowledge and is always willing to share that knowledge with breeders and competitors alike. Always a leader, Keith has been the president of the Indiana Draft Horse Breeder’s Association for six years and a member since 1953. He is a Board member of the Belgian Draft Horse Corporation serving his sixth term and a member of the organization for 43 years. He has supported and participated in the Hoosier Horse Fair for over 25 years. The Woodbury family is a family that reminds us of the importance of working together for a successful outcome.

Dale Grubbs, Angus Breeder, Hillsboro, IN. Dale Grubbs makes his entire livelihood from agriculture. For the past several years, Grubbs Angus has been in the top of cattle registrations in Indiana with the American Angus Association. He has been breeding Angus cattle for over 30 years and produced several National and State champions, and has raised and owned many bulls that have been in major AI studs. The Genetic Opportunity Sale has been hosted by the Grubbs family at the farm and has marketed cattle across the United States and Canada. Dale Grubbs believes strongly in performance testing of livestock. He has tested over 320 bulls in 58 Indiana Beef Evaluation Program tests. He has had numerous performance winners and top selling bulls through the IBEP sales and manages a performance tested program on his farm. Bulls are graded for gain, ultrasound carcass merit and semen checked for potential bull buyers. Dale was a member of the Purdue University Livestock Judging Team and has judged several breeds of cattle at Denver and various state fairs. He strongly believes that youth are the backbone for the future of the beef industry and has worked closely with young people at the local, state, and national levels. He has served as an official and stock provider for many collegiate and high school judging contests. He has been a leader in the IBCA and one of the founders of the Hoosier Beef Congress.
Student has a Safari Summer

Stacey Enneking, a senior in Behavior and Well-Being from Greensburg, Indiana, spent the summer of 2006 working at Safari West in Santa Rosa, California. She worked mainly alongside the Hoofstock Keeper. They were in charge of the maintenance of a variety of animals, ranging from giraffes to kudus. One of her tasks was to prepare food and distribute it to the animals that live on the 300+ acre wildlife reserve. She was also in charge of updating the photo ID book and training the ring-tailed lemurs so they could be easily transported and treated when needed.

One of her more memorable moments involved catching a baby wildebeest and keeping its eyes covered while they drove it back to the barn.

She would like to work in conservation or the welfare of farm animals. This internship was important because she learned many new skills such as the ability to spot an animal in its habitat, recognize if there is something wrong with the animals, and put a lot of practical knowledge into place.

She discovered this internship after watching a show where Safari West was featured. She emailed them and was able to coordinate the internship.

For more information about ANSC Programs
Visit our website at
www.ansc.purdue.edu
Alumni Update

Thomas W. Asher (BS ’65), was elected Parke county’s Sugar Creek township trustee for a four-year term commencing January 1, 2007.

Dr. John Blanton Jr. (PhD ’98), Millsboro, DE., accepted a position as project leader at Intervet.

Kelly (Haniford) Boehm (BS ’01), Wichita, KS, is a Captain in the US Air Force stationed at McConnell AFB, KS as an Assistant Staff Judge Advocate.

Kindra (Jackson) Grimes (BS ’93), Greenwood, IN, graduated from the Univ. of Missouri College of Vet. Med. in ’97. She has worked for Veterinary Centers of America Valle Vista as a Veterinarian for the past 9 years. She married John Grimes in March 2002, and gave birth to a son, Samuel, in March 2006.

Patricia (Haskin) Grizzel (BS ’66), Gower, MO, received her second BS in Nursing. She works as an RN and sells Mary Kay. She enjoys living in the country with her animals.

Frances Laud (BS ’05), Holland, OH, recently became engaged, and is now employed with Alpha AG, Inc, working with pasture irrigation and silage equipment.

Dr. Gary Weber (BS ’77, MS ’79) received the Food and Drug Administration’s Commissioner’s Special Citation. The citation reads: “For recognizing and gaining the agriculture industry’s support for regulations banning the feeding of prohibited materials to cattle and other ruminants, preventing the spread of BSE.”

Amy (Carroll) Woods (BS ’00, DVM ’04), Remington, IN, is an Associate Veterinarian at Rensselaer Swine Services. She married John Woods on October 8, 2005.
Monsanto & Maple Leaf Farms Support Leadership

In 2005, Bob Book, retired Vice President of Elanco, and Dr. Bud Harmon, Purdue Professor Emeritus and retired Animal Sciences Department Head, founded a Leadership Program for animal sciences students. Monsanto and Maple Leaf Farms support this exciting program. This program helps provide leadership programs and resources to Animal Science students including the Book-Harmon Leadership Forum each spring to a capacity crowd in the Deans Auditorium. Students have heard from the former CEO of Purina, a Vice President of Dow Agro-Sciences and in 2007 the highest ranking female in the US Marines, Carol Mutter. Carol addressed the critical role of leadership and the skills necessary for effective leadership.

In addition, a Leadership Library was established with more than 50 new books, CD’s and DVD’s. An annual Animal Science Industry Tour (ANSC 181) is provided, with 60 - 80 Animal Science students participating in the two-day industry tour. Pam Green, Vice President, Human Resources, Maple Leaf Farms participated in the industry networking session on the tour. The second annual Animal Sciences Career Fair was February 21, 2007. More than 20 companies participated and networked with our 550 undergraduate and 65 graduate students. In addition, numerous industry leaders have been invited into Animal Sciences Leadership classes, including ANSC 181, 281, 381, 481 and 681.

Because of the Animal Science Leadership program and enhanced services, many Animal Sciences students are participating in the College of Agriculture Leadership Certificate Program. The College of Agriculture faculty recently adopted nine educational outcomes for Bachelor of Science Undergraduates including: Professional Preparation, Scientific Principles, Critical Thinking, Communication, Teamwork, Cultural Understanding, Social Science Principles, Civic Responsibility, and Lifelong Learning. Support from Monsanto and Maple Leaf Farms have provided the avenue for Animal Sciences students to begin to achieve these important outcomes.

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Upcoming Events Calendar

April
14-15  Spring Fest and Boiler Barnyard
14  Young Alumni and Family Reunion (5-7 p.m.)

May
1  Deadline for 2007 Distinguished ANSC Alumni Award
11-13  Graduation

August
8-19  Indiana State Fair

October
27  Animal Sciences Reunion and Purdue Homecoming

February 2008
2  Ag Alumni Fish Fry