A Word from your Department Head

Dear Alumni and Friends,

Welcome to the 2004 edition of the Animal Sciences Newsletter! I am pleased that we have an opportunity again this year to highlight activities in the Department.

We continue to experience growth and change in our programs. Undergraduate student numbers have increased to nearly 440 students pursuing degrees in Animal Science, Animal Production, Animal Agribusiness, or Animal Products. An additional 67 students are pursuing M.S. and Ph.D. degrees. As backgrounds and interests of our students change, we review and revise the course offerings and experiences that allow students to develop the skills they need to lead successful careers. We are proud of the success our students are experiencing in finding challenging and rewarding careers.

With assistance from you, our industry colleagues and our external advisory board, our faculty and staff continue to explore ways to enhance our research, teaching, and extension programs. We have continued to recruit outstanding faculty and staff to build our core programs in animal well-being, growth and developmental biology, and production systems. We welcomed Dr. Zoltan Machaty to the Department in July 2003. Zoltan joins us as an Assistant Professor in the area of Reproductive Biology. We also look forward to the arrival of Dr. Ryan Cabot in the summer of 2004. Ryan will be joining the Department as an Assistant Professor in Molecular Genetics. Zoltan and Ryan both bring extensive experience in transgenic biology to our programs. Drs. John Forrest, Wayne Singleton, and Kern Hendrix have all retired since 2002, but Purdue’s aggressive strategic plan has allowed us to open four new faculty searches in the department. Searches for a muscle biologist, muscle protein chemist, microbiologist, and animal ethologist are currently underway. Filling these positions will allow us to serve the industry better and will assure that we remain on the cutting edge.

Adding to this excitement is an abundance of new building construction at Purdue. In Animal Sciences, the construction of a new 12-room swine research building will be completed soon. This research facility is located at the Animal Sciences Research and Education Center and will enhance state-of-the-art research in nutrient utilization and environmental management. We are also working with our colleagues in the Schools of Agriculture and Veterinary Medicine to design a new Animal Education Park that will serve many of the livestock and equine events that involve judging teams, extension programs and student activities.

We have placed a high priority on providing our students with outstanding educational programs that are integrated with our programs in discovery research and extension. As we enhance these programs, we look to each of you to help us remain as a preeminent Animal Sciences Department. Please consider completing the form at the back of the newsletter or contact me directly if you would like to discuss how you can support the goals and programs of the Department. With your help, we will be able to offer new scholarships and fellowships to students and we can make significant improvements in facilities that are important for programs that impact students. I hope you will share in this excitement!

Lastly, I hope you add October 16, 2004 to your calendar and plan to attend the Animal Sciences Alumni and Friends Reunion before attending the Purdue-Wisconsin game. Part of my enjoyment as Department Head is the opportunity to meet and interact with alumni and friends of Animal Sciences. I hope to see you in 2004!

[Signature]
Research in Animal Behavior and Welfare
by Katrina Hoover

Dr. Ed Pajor, Assistant Professor in Animal Sciences since 1999, came to Purdue from McGill University, Montreal, Canada. His current research involves animal behavior in the swine and duck industries.

Currently, Dr. Pajor is developing alternative gestation housing. This involves comparing stalls with small group housing and is done by measuring the sow’s motivation to be in a small group. In addition, he is looking at alternative farrowing systems. In this area he is testing the idea that piglets which are allowed to socialize at a young age, tend to fight less and are able to deal with stress better at older ages.

Dr. Pajor is working with the USDA Livestock Behavior Unit to determine how different techniques used to trim bills affect ducks. They evaluate behavior, recovery, neurophysiology, growth and feeding behavior.

Dr. Pajor is involved with extension projects within the state and nationally. This includes serving as a member of the McDonald’s Animal Well-Being Panel, National Pork Board Animal Welfare Committee, and the Indiana Commission for Farm Animal Care. He is also writing animal welfare guidelines for organizations such as the National Pork Board, Federation of Animal Science Society, and McDonald’s.

Dr. Pajor’s research and extension work contribute to improved productivity, consumer acceptance and public perception of animal agriculture. The goal of his research is to provide recommendations to industry for practices which will improve the animals’ well-being.

Models to Study Embryo Development
by Jen Roley

Dr. Paul Collodi, faculty member since 1992, is currently working to create a model of embryo development using zebrafish. Collodi’s research, which is being funded by a $1,000,000 grant from the National Institutes of Health, will also be used to study human diseases.

Using embryonic stem cells, Collodi’s goal is to alter specific genes in the zebrafish embryo. These altered genes become part of the sperm and egg cells of the zebrafish and can be passed onto future generations. Any progeny possessing the altered genes will look different than those with unaltered genes, making it easy to study the normal function of the gene. Collodi has been able to produce zebrafish with altered genes in embryonic stem cells, but has not yet produced any offspring from those fish which have the altered genes.

By altering specific genes, their functions can be studied. The findings from zebrafish can be applied to the study of gene functions in animals and humans. This will help scientists better understand how a gene may be involved in both embryo development and disease.
Programs for the Beef Industry
by Casey Davis

Dr. Ron Lemenager, faculty member since 1977, is currently involved in extension and research projects. The two main extension programs are Indiana Farm Fresh Beef (freezer beef) and a program that is currently called Premium Indiana Beef (PIB). These programs are complementary with goals to create and market high quality, Indiana branded beef products that enhance profitability. Between these two programs, beef can be sold three ways: 1) producers sell beef directly to consumers; 2) producers sell to the local processing plant that in turn sells to consumers; or 3) producers establish businesses and partnerships that market directly to food service and retail outlets.

Dr. Lemenager has three research projects which are designed to complement and support his extension programs. The first project involves investigating mechanisms that initiate and regulate marbling deposition. A second project is designed to provide information to small beef operations that finish their own cattle. A third project involves utilization of new estrus synchronizing technologies that minimize labor associated with estrus detection and artificial insemination and optimize conception rates.

Research for Swine Nutrient Utilization and Management
by Amanda Williams

Dr. Scott Radcliffe joined Animal Sciences in September 2001. Environmental nutrition is the focus of his research. He is studying the effects of diet composition on nutrient excretion and air quality in swine housing. A 12-room Environmental Research Facility is in the final stages of construction at the Animal Sciences Research and Education Center (ASREC). Within this building, manure can be collected quantitatively from each room, mixed, and sub-sampled. In addition, the building allows continuous emission monitoring, which combined with the nutrient excretion data will allow researchers to determine the total mass balance of nutrients from each room. His laboratory is also studying the regulation of dietary phosphorus uptake at the cellular and molecular levels.

The overall goal of Dr. Radcliffe’s research is to decrease the nutrient density of swine manure by enhancing the utilization of dietary nutrients. Ultimately, this research will decrease the potential environmental problems caused by livestock production.

Undergraduate Student Update

Dr. Mark A. Diekman,
Undergraduate Program Coordinator

For the 2003 fall semester, undergraduate enrollment ballooned to 437. Nearly 90% of the Animal Sciences undergraduate students are from Indiana. The increase in enrollment is due mainly to the influx of pre-veterinary medicine students from the School of Agriculture as we enter a transition period of moving pre-vet students to a degree-seeking program during their freshman year. Seventy-eight freshmen entered Animal Sciences in August 2003, with an additional 25 transfers from other institutions, primarily from junior colleges. During 2003, 83 students graduated with a B.S. degree, 5 students with an A.S. degree and 6 students with a minor in Animal Sciences.

The most popular option is the science option (308 students) with the majority (65%) specializing in pre-veterinary medicine. Fifty-one students are enrolled in the production option and 68 students are enrolled in the agribusiness option. Only eight students are pursuing the products option. Enrollment has remained steady in the biotechnology specialization. There are 27 enrolled in the behavior/well-being specialization, and several incoming freshmen for fall 2004 have indicated that they will be enrolling in this option.

Thirty students participated in study abroad and another 18 pursued undergraduate research experiences. The Department offers more than 55 courses with an annual enrollment of over 2,400 students. If you have questions or comments about undergraduate programs, contact Mark Diekman at mdiekman@purdue.edu.

New Undergraduate Scholarships

Two new undergraduate scholarships have been added to Animal Sciences.

- Daiichi Fine Chemicals, Inc., $1,000, (GPA ≥ 2.70). Priority is given to sophomores in Animal Sciences with an emphasis/interest in swine production and/or industries.

- Keith Lotz Memorial Scholarship, $500. The student must be interested in animal production, possess a GPA ≥ 2.70, demonstrate good communication skills and be involved in clubs and/or other collegiate activities.
Editor’s Correction from the 2003 Newsletter
The Rueff Scholarship is given by Larry and Gail in honor of his parents, Charles C. and Jean Rueff.

Outstanding Student in Animal Sciences and the School of Agriculture

Sarah Pence, an Animal Sciences major from Hope, IN, was named the outstanding senior in the School of Agriculture for 2003. She received the senior medal, a plaque given by the Ag Alumni Association and her name will be engraved on a plaque in the Agricultural Administration Building. Sarah was also named the outstanding senior in the Department of Animal Sciences.

After giving the student response at the August Graduation ceremony, Sarah accepted a position as Coordinator of Product Distribution with AGCO in Atlanta, GA.

2003 Animal Sciences Scholarship Recipients

Lilly Scholarship
Freshman - Kristi Wilson – Orleans, IN
Sophomore - Sarah Fontaine – South Whitley, IN
Junior - Anna Bennett – Indianapolis, IN
Senior - Sarah Pence – Hope, IN

Outstanding Class Awards
Freshman - Kristi Wilson – Orleans, IN
Sophomore - Ashley Meece – Richland, IN
Junior - Christen McKaig – Logansport, IN
Senior - Sarah Pence – Hope, IN

Baltzell Agri-Products Scholarship
Laurene Ammend – Indianapolis, IN
Ashley Meece – Richland, IN
Kelli Slack – North Manchester, IN

Frank and Wini Clark Beef Industry Scholarship
Caroline Maiben – Peru, IN

Elanco Minority Scholarship
Patrice Holmes – Indianapolis, IN

John Henry Hinkle Memorial Scholarship
Anna Bennett – Indianapolis, IN
Kate Hepworth – Granger, IN

Hubbard Award
Jebadiah Stevens – Waldron, IN

Keith Lotz Memorial Scholarship
Ashley Dean-Cross – Columbia City, IN

LOUJA Undergraduate Scholarship
Christen McKaig, Junior – Logansport, IN
Carrie Bray, Senior – Westfield, IN

American Society of Animal Science Scholarship Award Winners


Do you know a Prospective Student?
If so, email Mark Russell at mrussell@purdue.edu or call (800) 213 2675.
2003 School of Agriculture Scholarship Banquet Award Recipients

Laurene Ammend
J. Kelly and Margaret R. O’Neall Memorial Scholarship

Jennifer Anderson
Junior Scholarship

Jeremy Armstrong
Scholarship Award of Excellence

Amanda Bailey
John W. Ryan Scholarship Honoring Nancy and Arthur Hansen

Anna Bennett
Senior Scholarship

Olivia Berridge
Senior Scholarship

Jamie Boone
Scholarship Award of Excellence

Melissa Brandley
J. Kelly and Margaret R. O’Neall Memorial Scholarship

Ashley Brown
Junior Scholarship

Justin Busick
Leonard B. Clore Scholarship

Matthew Cantrell
Scholarship Award of Excellence

Sara Caruso
Scholarship Award of Excellence

Natalie Cope
Scholarship Award of Excellence

Alison Creed
Senior Scholarship

Ashley Dean-Cross
Junior Scholarship

John Downey
Lewis Runkle Scholarship

Alison Dula
Scholarship Award of Excellence

Tristan Emery
Scholarship Award of Excellence

Amber Farnell
Junior Scholarship

Sarah Fontaine
Agricultural Research Fund Scholarship

Lindsey Gordon
Scholarship Award of Excellence, Straszheim Award

Irith Grader
Senior Scholarship

Kate Hepworth
Scholarship Award of Excellence

Jaclyn Herd
Floyd and Nellie Elliott Scholarship

Nathan Horn
Leonard B. Clore Scholarship

Danielle Howell
Harry L. Pearson Outstanding Leader Scholarship, Senior Scholarship

Erin James
Scholarship Award of Excellence

Margo Kasting
Scholarship Award of Excellence

Denise Katz
Scholarship Award of Excellence, Straszheim Award

Emily Kenney
Scholarship Award of Excellence

Adam King
Mauri Williamson Scholarship for Excellence in Agriculture, Scholarship Award of Excellence

Megan Lee
Scholarship Award of Excellence

Christopher Loukos
Scholarship Award of Excellence

Jolene Knuth
Scholarship Award of Excellence

Erin Kosta
Senior Scholarship

Sara Lunsford
Junior Scholarship

Caroline Maiben
Oakley M. Ray Distinguished Leader Award

Christen McKaig
Senior Scholarship

Ashley Meece
J. Kelly and Margaret R. O’Neall Memorial Scholarship

Christine Petrovits
Scholarship Award of Excellence

Jonathan Pleitner
Scholarship Award of Excellence

Justin Quear
Farm Credit Services Scholarship, Scholarship Award of Excellence

Abigail Reising
Scholarship Award of Excellence

Molly Rennaker
Scholarship Award of Excellence

Beth Rippy
Scholarship Award of Excellence

Bryan Rodibaugh
Southern States Cooperative, Inc. Scholarship

Jennifer Roley
Junior Scholarship

Andrea Schroeder
Robert L. Fuller Scholarship

Jill Schuler
Scholarship Award of Excellence

Jennifer Sheets
Junior Scholarship

Lauren Singleton
Scholarship Award of Excellence

Kelli Slack
Scholarship Award of Excellence

Elizabeth Sleeman
Lewis Runkle Scholarship

Theresa Smith
Junior Scholarship

Lauren Snyder
Scholarship Award of Excellence

Lynne Statler
Fred M. Fraser Memorial Scholarship, Junior Scholarship

Jebadiah Stevens
Lewis Runkle Scholarship

Johanna Stoudt
Scholarship Award of Excellence

Amanda Thayer
Scholarship Award of Excellence

Rudy Troxel
Scholarship Award of Excellence

Martha Ullman
Scholarship Award of Excellence

Kristi Wilson
Scholarship Award of Excellence

Careers in Animal Sciences

More than 80 students graduated from the Department of Animal Sciences during 2003. Twelve graduates were admitted to Veterinary Medicine, four were accepted to Graduate School, and one was admitted to Medical School. Seven entered positions in production, six in sales, and one in the life science area. Salaries ranged from $29,000 - $45,000 with an average starting salary of $35,600. A special thank you to Smithfield Foods who hired seven students in the past 12 months and Maple Leaf Farms who hired five Animal Sciences students in the past few years. Recently, Larry Christner, Maple Leaf Farms, initiated a formal internship program with the Department of Animal Sciences. We look forward to enhancing the training and preparation of Animal Sciences students for careers in production agriculture.
Animal Sciences

Prophetstown Living Ag Museum

Many Animal Sciences students participate in internships and volunteer in preparation for their future careers. The Museum at Prophetstown State Park is one location our students volunteer. The Museum portrays farm life in the 1920’s, with tall grass prairies and depicts Native American life. There is a great need for volunteer help to care for livestock, operate the large farm house, plant, cultivate and harvest crops, conduct tours for school groups, interpret activities for visitors, and develop museum exhibits. Many of those volunteers include Animal Sciences faculty, retirees, students and spouses. Pictured are Lee Schrader (Chairman Farm Committee), Truman Martin, Marge Martin, Danielle Seward, Stephanie Goodman, Neil Burton, Ashley Shockey, and Laurene Ammend, all active volunteers for Director Dris Abraham.

Animal Industry Tour

As a part of ANSC 181, Orientation to Animal Sciences, nearly 80 students participated in the industry tour in January 2004. A special thank you to our sponsors - Elanco Animal Health, Perdue Farms, Johnsonville Sausage, and Frito Lay. Former Animal Sciences faculty member, Dr. Deana Hancock, coordinated the Elanco tour. Students also had the opportunity to hear representatives from the beef, poultry and swine industries. Stops were also made at United Feeds, IRUS Stables and the Indianapolis Zoo. See photos here: [http://web.ics.purdue.edu/~rallrich/gallery/ansc181_04/](http://web.ics.purdue.edu/~rallrich/gallery/ansc181_04/)

If you are looking for new employees or would like to post a job, contact Barry Delks or see this website: [www.agriculture.purdue.edu/anscjobs/](http://www.agriculture.purdue.edu/anscjobs/)

Purdue Dairy Club

When classes began in the fall of 2003 the School of Agriculture’s “outstanding” option club, the Purdue Dairy Club, looked to continue its growth, while increasing promotion of the Indiana dairy industry. This commitment to awareness and education can be seen through the addition of the first annual “I Milked a Cow” educational activity in August 2003 at the Indiana State Fair. This event was a huge success with an estimated 3000 people milking a cow. The club hosted the 2004 Midwest ADSA-SAD (American Dairy Science Association Student Affiliate Division) Conference in February. The conference was attended by over 500 students from 15 different universities. Dairy Club members also hosted the annual Purdue Dairy Judging Invitational in March. During the judging contest, the club held its annual Dairy Showmanship Classic in which the top dairy showman from Purdue was named. The club finale for the spring semester is the 2nd Annual Boilermaker Heifer Sale, offering show heifers from all breeds, with animals consigned from Indiana dairy producers, as well as breeders from across the nation. Everyone interested in finding out more about the club can visit the website at [http://groups.yahoo.com/group/Purduedairyclub/](http://groups.yahoo.com/group/Purduedairyclub/). Officers: President - Justin Moneyheffer; Vice-President - Elizabeth Finke; 2nd Vice President - Ross Trentadue; Treasurer - Jonathan Franks; Secretary - Lindsay Fourez; Advisors: Drs. Mike Schutz and Shawn Donkin and Steve Hendress.

Zoo Club

The Purdue Zoological Society helps students learn more about careers in the zoo and exotic animal industry. The club has many agriculture majors, with the majority being Animal Science, Vet Technology and Wildlife. The club encourages students from all schools to participate. Activities include educational trips to Brookfield Zoo and Shedd Aquarium in Chicago, the Cincinnati Zoo and the Louisville Zoo. The club also invites guest speakers who work with exotic animals, wildlife rehabilitation and those involved with the zoo environment. Club officers are: President - Jennifer Berry, Vice President:- Susan Wilson, Secretary - Holly Nighbert, Treasurer - Liz Sleeman, Public Relations - Kathryn Braun, Historian - Kristian Leveridge, and Web Designer - Kim Lovely. Advisors are Drs. Rebecca Krisher and Andrew DeWoody. For more information contact the club at purduezoooclub@hotmail.com.

Department of Animal Sciences Clubs

Many of our undergraduates are involved in clubs and activities within the Department. Starting with this Newsletter we will feature one or two clubs each issue and list the officers and faculty advisors of the clubs not featured. Featured this year are the Purdue Dairy and Zoo Clubs.
Other Clubs

Intercollegiate Horsemanship Club
President - Steph Hill
Vice President - Krista Steinmetz
Secretary - Chelsea Macaluso
Treasurer - Kelly Skinner
Coaches - Jerry Steinmetz, Krista Steinmetz, Ambra Neier, and Katy Green
Advisor – Mark Russell

Block & Bridle
President: Andy Lowry
1st Vice President - Chelsie Culler
2nd Vice President - Jenise Platt
Secretary - Alicia Dawson
Treasurer - Amanda Kaiser
Publicity – Jessica Small
Advisors - Mike Spurlock, Diane Moody and Matt Claey's

Rodeo Club
President – Jennifer Stamper
Vice President – Erin Sexton
Treasurer – Audra Richards
Secretary – Ashley Hayworth
Publicity – Jessica Small
Ag Council Rep – Chad Appleton
Advisor – Tracie Egger

Livestock Judging Team
The students from the 2003 team had a very successful fall. The team was in the top eight in all of the contests including Kansas City and Louisville. At the Stockman Contest, the team had a number of people in the top ten of various divisions. At the NAILE, in Louisville, Purdue had top ten individuals in sheep and overall categories and the team was fourth in all performance classes. Team members included: Tony Holliday, Wilkinson; Andy Lowry, Owensville; Cami Maiben, Peru; Travis Manier, Tipton; Matt Michel, Fort Branch; B.J. Rule, Forest; Kyle Spray, Kirklin; Melissa Spaid, Carmel; Adam Stonecipher, New Richmond. The team is coached by Matt Claey's.

2003 Horse Judging
The Horse Judging team activities started in the spring semester with 24 students in ANSC 372, the Horse Evaluation class. In April, the team placed in the top five in the Middle Tennessee State University contest in Murfreesboro, TN and the Spring Spectacular Paint Horse Contest in Ft. Worth Texas. Team members in the spring included Warren Giegold, Heather Hoobler, Frances Laud, Christian Rodenduis, Liz Sleeman, and Tara Studebaker. In the fall semester, the team was Reserve World Grand Champion team at the Morgan Grand Nationals, placed 8th overall at the All American Quarter Horse Congress in Columbus, Ohio and 7th at the World Championship Intercollegiate Horse Judging Contest in Oklahoma City. Fall team members were Misha Dillon, Warren Giegold, Heather Hoobler, Frances Laud, Christian Rodenduis, and Liz Sleeman. The team is coached by Dr. Mark Russell and Aissa Slayton.

Animal Sciences Ambassadors Represent the Department
Animal Sciences Ambassadors play a vital role in planning, organizing, and participating in many activities to help promote the Department of Animal Sciences, School of Agriculture and Purdue.

The Animal Sciences Ambassadors participate in Purdue's Annual Springfest each year. Last year, the Department’s Boiler Barnyard featured interactive displays and several live animals (a horse, two beef heifers, swine, sheep and a dairy calf). For the creative mind, there was an interactive computer monitor and microscopic pictures of live bacteria from the rumen of a cow. The Ambassadors are also actively involved in several departmental committees including Industry Liaison, Material Development, Displays and Booths, Recruiting, and Alumni Relations. Thank you ambassadors for making an impact on current and prospective students.

Current ambassadors are: Casey Davis, Dustin Boler, Pam Amstutz, Aimee Bundy, Katrina Hoover, Danielle Howell, Amy Johnson, Christy Jones, Alicia Maholovich, Christy McKaig, Ashley Meece, Jama Miller, Jeb Stevens, Amanda Williams, Travis Ross and Jennifer Riley. If you are an Ambassador Alumnus, please send us a note (email: delks@purdue.edu) and let us know what you are doing!
**Dairy Judging**  
The Purdue Dairy Judging Team traveled to the NAILE Judging Contest in Louisville, KY; the All-American Dairy Show in Harrisburg, PA; Collegiate Judging Contest in Viroqua, WI; and the National Collegiate Judging Contest in Madison, WI. Judging team members were Elizabeth Finke, Sarah French, Renell Calloway, Nathan Kuehnert, Meagan Matlock, Meggie Issler, Jonathan Franks, and Justin Moneyheffer. Team members related a highlight of the trip to the National Collegiate Judging Contest was the opportunity to watch Coach Steve Hendress judge the Brown Swiss Show at World Dairy Expo. Congratulations to the judging team for their hard work and successes this year!

**Purdue Students Study the Animal Industry in Poland**  
Students from across the School of Agriculture joined faculty from the Animal and Food Science Departments on a Maymester study of the animal industry in Poland. Students started their study of Poland in January by selecting both agricultural and cultural topics to develop into fact sheets. During February and March, they met to learn a few Polish phrases and learn some of the history of Poland. April was focused on finalizing those fact sheets and covering last minute travel details. In May, students presented their fact sheet information to each other, watched Schindler’s List and set off for Poland.

The first stop was in Warsaw. In Warsaw, students learned about the US Diplomatic Service and its work in agriculture, visited the stable that produced the 2002 Arabian Derby winner, and learned about animal behavior and transgenic research in Poland. The August Ciezkowski Agricultural University hosted the students in Poznan. They picked up the trail of the true Polish Sausage by visiting a family run meat processing plant and a museum of the meat industry. They also learned about goose farming, milking sheep and Poland’s efforts to preserve its indigenous breeds of horses, pigs and cattle. Leaving Poznan, they learned about fish farming, saw a few more ancient castles and visited the Cathedral of the “Black Madonna” before arriving in Krakow. The Agricultural University of Krakow prepared an excellent program that focused on the impact of Poland’s joining the European Union (EU) would have on Polish agriculture. They visited the Constar/Animex joint venture that is a large integrated pork production and processing company associated with Smithfield Foods. The history lesson was continued by visiting the Auschwitz and Birkenau concentration camps. Of course, all through the students’ travels they experienced the food and hospitality of the Polish people.

On returning to Purdue, the students presented a seminar for their family and friends. The seminar presentations, as well as the full itinerary telling of the many other things they did, can be found at the course web page [http://web.ics.purdue.edu/~tstewart/ansc295K](http://web.ics.purdue.edu/~tstewart/ansc295K).

**Graduate Student Awards**  
The W.R. Featherston Awards were established to recognize outstanding accomplishments of graduate students in the Department of Animal Sciences. These awards were established in honor of the leadership and dedication to graduate students exhibited by W.R. Featherston, a faculty member from July 1962 to June 3, 1980, the date of his death.

The W.R. Featherston Awards for 2003 were: **Early Graduate Career Award** – Michelle L. Sparman; **Off-Campus Training Award** - Tara McDaneld and Elizabeth Williams; **Outstanding Graduate Teaching Award** – Kylie Daniels; and **Outstanding Ph.D. Award** – Jonathan Townsend.

The LOUJA Graduate Travel Awards were established to provide grants to Animal Sciences Graduate students presenting outstanding research papers based on original research. The LOUJA Graduate Travel Awards were established in honor of the leadership and dedication to the animal industry of Jake and Louise Krider. Dr. Krider served as Head of Purdue’s Department of Animal Sciences from 1963 to 1971 and Professor until his retirement in 1979. The 2003 LOUJA Award winners were: Alicia Clifford, Ryan Dilger, John Eash, Jason Herrick, Tara McDaneld, Melissa Schreiweis, Mike Toscano, and Tom Weber.

**Additional Graduate Awards**  
**Jody Rush (M.S., Applegate)** won the graduate student presentation award from the Poultry Science Association.

**Kylie Daniels (Ph.D., Schutz)** won the graduate student poster contest at the 2003 Tri-State Dairy Nutrition Conference.
The Animal Sciences Graduate Student Association (GSA) has been very active outside of the classroom and laboratory this past year, participating in a number of departmental and community service events. In June, the graduate students helped organize the Animal Sciences 4-H Workshop for Youth, a three-day livestock and companion animal educational program for 4-Hers and the First Annual Barnyard Olympics.

The Animal Sciences graduate students are involved in developing ideas to encourage more undergraduate involvement in research projects and organized a departmental cookout for faculty and staff. GSA conducted a canned food drive for Food Finders Food Bank of Lafayette and worked through the Salvation Army to sponsor two children for Christmas. Finally, the GSA sold Animal Sciences embroidered items (hats, shirts, sweatshirts and handbags) to help promote the Department of Animal Sciences, as well as raise money to provide funding for the various community service projects. The graduate students would like to sincerely thank those alumni that supported their fundraising efforts.

New Faculty, Promotions, Retirements and Recent Deaths

New Faculty

Zoltan Machaty joined the Department as an Assistant Professor in July 2003. Zoltan, a native of Hungary, received his B.S. at Debrecen University and Ph.D. from Szent Istvan University. He had post-doctoral training at the University of Missouri and was in industry prior to coming to Purdue. Dr. Machaty’s major research area emphasizes cellular and molecular mechanisms underlying early embryonic development.

Promoted to Associate Professor

Rebecca Krisher was promoted to Associate Professor effective July 1, 2003. Rebecca, a native of Ohio received her B.S. degree from Hanover College, M.S. from North Carolina State and Ph.D. from Virginia Tech. She also had post-doctoral training at the University of Wisconsin before joining the Animal Sciences faculty in 1998. The primary focus of Dr. Krisher’s research program is to understand the mechanisms of nuclear and cytoplasmic maturation in mammalian oocytes in relation to developmental potential. Rebecca also teaches the Advanced Reproductive Physiology course.

Named Animal Sciences Extension Coordinator

Mike Schutz, Associate Professor, with an interest in Dairy Production, Animal Breeding and Genetics was named the Coordinator of the department’s Extension Team. Dr. Schutz received his B.S. and M.S. degrees from the University of Minnesota and Ph.D. from Iowa State University. He has provided leadership for milker training workshops, milk quality programs and the Purdue Dairy Extension Team.

Recent Retirements

Kern Hendrix retired December 31, 2003. Kern joined the Animal Sciences faculty in 1974 as a beef cattle extension specialist and continued in that role until his retirement. The beef industry in Indiana will miss Kern’s expertise in cattle nutrition and management. Rumor has it that Kern would like to spend more time on the home farm in French Lick, but rumor also has it that his wife, Beverly, will stay in West Lafayette (with Kern).

Wayne Singleton also retired December 31, 2003. Wayne, a Knox county native, joined the Animal Sciences faculty in 1970 as an extension specialist with responsibilities in the reproduction area. Wayne worked with both beef and swine producers, but is best known for his expertise in swine reproductive management and artificial insemination. He also taught the reproductive management course for the last several years. Wayne and his wife, Dianna, reside in West Lafayette.

Recent Deaths

Vernon F. Colenbrander died February 7, 2003, in Bellingham, Washington. Dr. Colenbrander joined the faculty of the Department of Animal Sciences in 1965 and retired in 1990. Vern was a dairy nutritionist active in research and teaching. He was one of several faculty members who spent time (1969-72) with the Purdue-Brazil project at the Federal University of Viçosa, Brazil.
Larry A. Nelson died August 11, 2003, in West Lafayette after a bout with cancer. Dr. Nelson joined the Animal Sciences faculty in 1967 as extension specialist in beef cattle breeding and genetics. Larry also conducted animal breeding research at several of Purdue’s outlying farms and served as associate department head from 1990 until his retirement in 1997. Recently, the Nelson family made a generous donation to the 4-H Animal Sciences Workshop for Youth in honor of Larry. He assisted with the development of the Workshop 32 years ago. If you are interested in contributing to this fund, please send your contribution to the Department and designate your gift “Larry Nelson 4-H Workshop Fund”.

Faculty News

Department Nominees for School Awards

Outstanding Service to Students Award – Mike Neary was the Department's nominee. Mike counsels 20-25 undergraduate students and teaches ANSC 245, Applied Animal Management, and ANSC 442, Sheep Management. Mike is also the Department’s extension sheep specialist.

Outstanding Teaching Award – Layi Adeola was the Department’s nominee. Layi teaches ANSC 522, Monogastric Nutrition, and ANSC 620, Proteins and Amino Acids in Nutrition. Layi also has an outstanding research program in nonruminant nutrition.

Outstanding Counselor Award – John Patterson was the Department’s nominee. John counsels 15-20 undergraduate students annually and teaches ANSC 595N, Digestive Systems, Health and Physiology. John also is a researcher in the area of intestinal tract microbiology.

Outstanding Graduate Education Award – Alan Grant was the Department's nominee. Prior to becoming department head, Alan led a productive research program in the growth and development area. Alan has mentored nine M.S. and seven Ph.D. students and has served on advisory committees of 46 additional graduate students at Purdue.

Faculty Awards

Don Lay Selected Area Early Career Scientist by USDA

Donald Lay, USDA-ARS Livestock Behavior Unit Leader, received the Area Early Career Scientist of the Year Award for sustaining exemplary research productivity while building and developing a new research unit into a fully capable, multi-disciplined, and nationally recognized center for animal well-being research.

Mark Russell Inducted into Book of Great Teachers

Mark Russell was inducted into the Book of Great Teachers at Purdue. Mark was one of 42 teachers campus-wide (8 in the School of Ag) recognized for outstanding contributions to the teaching mission. He joins Animal Sciences faculty Fred Andrews, Merle Cunningham, J. T. Frost, Hobe Jones, Ron Lemenager, and Martin Stob in this elite group.

Alan Sutton Honored with Meritorious Service Award

The Indiana Pork Producers Association honored Alan Sutton with the Meritorious Service Award for Industry at the organization's January 2003 annual meeting. The award honors pork producers and allied industry representatives who go the extra mile to support the industry. Sutton’s research in environmentally-friendly diet composition and dietary effects on animal waste has helped set standards for feed formulation in the pork industry.

Wayne Singleton Wins Hovde Award of Excellence

Wayne Singleton, Professor Emeritus of Animal Sciences and former Extension Specialist in breeding herd management, recently received the Frederick L. Hovde Award for Excellence in Educational Service to the Rural People of Indiana.

Don Villwock, president of Indiana Farm Bureau said, “We are proud to sponsor this award to recognize one of Indiana’s outstanding agriculturalists.”

During his 33 years at Purdue, Singleton has worked to improve reproductive efficiency in swine and cattle breeding herds. He was a pioneer in the successful use of artificial insemination in swine, which allowed the extended use of superior sires and significantly improved the quality of
market swine. Singleton helped promote the practice through teaching techniques and training sessions.

He developed a television series on swine production management, “Improving Swine Production Efficiency,” that was broadcast throughout the United States. Singleton also trained swine breeders through farm visits and events such as Purdue’s Junior Pork Day, Purdue Swine Day and Indiana Pork Producers events.

Faculty and Staff International Participation

Layi Adeola gave an invited talk at the 9th International Symposium on Digestive Physiology in Pigs, Banff, Alberta; presented a paper at the 14th European Symposium on Poultry Nutrition, Lillehammer, Norway; and presented a paper at the 24th Western Nutrition Conference, Winnipeg, Manitoba.

Todd Applegate led a training effort on manure management in Bangladesh through a jointly funded USAID/Winrock International sponsored project.

Paul Collodi visited Dr. Peter Alestrom’s laboratory at the Norwegian School of Veterinary Medicine and presented a seminar at the University of Oslo. Dr. Alestrom had previously joined Dr. Collodi as a sabbatical scientist (August 2001-July 2002).

Bud Harmon spent two months in China (March and September) as a guest lecturer for the Emerging Swine Day and Indiana Pork Producers events.

Retiree News

John Forrest was honored January 2004 on the occasion of his retirement. In addition to receiving the rocking chair pictured here, the afternoon included a reception, seminar presentation by Jeffrey Luckman, Vice President of Procurement, Smithfield Foods; and a panel discussing the “Role of the Processor in the Future Livestock and Meat Industry Structure: Perspectives from Large and Small Processors.” Panel members were Ed Nelson, President, Indiana Packers, Corp., Delphi; IN; Dean Dewig, President of Indiana Meat Packers & Processors Association, Haubstadt, IN; and Greg Fisher, General Manager, Fisher Packing Company, Portland, IN.

Retiree Activities and Departmental Involvement

In May 2003, 20 retired faculty and spouses attended a meeting at Seattle Beanery where Dr. Grant and selected faculty presented reports on departmental activities and new appointments. A highlight of that meeting was a presentation by Sarah Pence, outstanding senior in Animal Sciences and the School of Agriculture. She described how Animal Sciences has impacted her life. This past year, retirees have been involved in many programs of the department including: teaching; assistance with editing and proofreading the departmental newsletter; served as small group leaders in the Freshman Orientation Course (ANSC 181); helped students become more familiar with the department and faculty; assisted in the preparation of award documents for both retirees and active staff; have been asked to review manuscripts, books and promotional material; and some retirees have remained active in the research program. The Department also invites retirees to participate in extracurricular activities such as the Department’s golf team.
Bret Marsh Named Distinguished Ag Alumnus

Bret Marsh, Sheridan, IN, received his B.S. in Animal Sciences in 1981 and DVM in 1984. In 1986, he became the Director of Swine Health Programs for the Indiana Board of Animal Health (BOAH) and since 1994 he has been the Indiana State Veterinarian and Director of BOAH.

While he served as State Veterinarian, the BOAH successfully eliminated Pseudorabies quarantines in Indiana in September 2001; promoted laws to initiate a Disaster Prepared Plan for Animals; assisted animal producers with animal disposal to renderers; launched the Scrapie identification program and the Scrapie Advisory Committee; transferred the State Meat & Poultry Inspection and Dairy Inspection programs from the Indiana State Department of Health to the Board of Animal Health.

Dr. Marsh is on a temporary assignment with USDA for Homeland Security, working directly for the Secretary of Agriculture in Washington, DC.

Four Individuals Receive the 2003 Distinguished Animal Sciences Alumni Award

During Homecoming Weekend, October 3 and 4, the Department recognized four individuals for their work and involvement in the animal science industry.

Robert Book and Gary Cromwell were awarded the Lifetime Career Award and Kristin Whittington and Todd Ripberger were the Early Career Award recipients.

Book received his B.S. in animal sciences in 1952. He spent 28 years with Elanco Animal Health where he started as a sales representative. He eventually became group vice president of agricultural marketing and held this position for 11 years. Book was instrumental in starting the Indiana Institute of Agriculture, Food and Nutrition Inc. He also served on the board of directors for the Farm Foundation Inc., the United States Grain Council, The Center for Global Food Issues and other organizations. In addition to his professional duties, he served 35 years of active and reserve duty in the U.S. Marines. Book now lives in Carmel, IN.

Cromwell, of Lexington, KY, graduated with an M.S. and Ph.D. in animal science in 1965 and 1967, respectively. He is professor of Animal Sciences at the University of Kentucky and his research focuses on the evaluation of nutrients and feed additives. Cromwell has authored or co-authored 950 publications. He has held various offices including the chair of the Committee on Animal Nutrition of the National Academy of Sciences’ National Research Council, national president of the American Society of Animal Science, and secretary and treasurer of the Federation of American Societies of Food Animal Sciences. He has received the Animal Industry Service Award, the Thomas Poe Cooper Award from the University of Kentucky and the American Feed Industry Association Award in Animal Nutrition.

Whittington, of Edinburgh, IN, graduated with a B.S. in animal sciences in 1992 and now serves as a consultant for Creative Ag Solutions. Prior to this position, she was director of the Office of Agricultural Relations for the Indiana Department of Environmental Management where she assisted the animal industry with changes in state and federal environmental regulations. In addition to working at Creative Ag Solutions, Whittington owns Landmark Farms where she has developed a horse riding and instruction program.

Ripberger, of Windfall, IN, received his B.S. and M.S. degrees in animal sciences in 1993 and 1995, respectively, and is a marketing associate for Elanco Animal Health where he develops marketing plans for new cattle products. He is involved with various professional organizations including the National Cattlemen’s Beef Association where he serves as a facilitator for the board of directors training and is an active member of their Allied Industry Council. Ripberger’s accomplishments include the Eli Lilly Quality Advocate Award and the G.A. Ross Award, given annually to the Purdue’s outstanding senior. In his spare time, he works on his small purebred cow/calf operation, Generation III Livestock.

Please nominate individuals for the 2004 Distinguished Animal Sciences Alumni Award
See this website: http://www.ansc.purdue.edu/alumni/index.html or call Barry Delks 765-496-7234
Dr. Thomas F. Conner
Selected to the Indiana Livestock Breeders Association Hall of Fame

The Indiana Livestock Breeders Association (ILBA) was formed in 1960 and is open to all types of livestock producers. Induction into the ILBA Hall of Fame is the highest award in the association.

Dr. Tom Conner has dedicated his life to the livestock industry and the health and well-being of the animal. He is a consummate professional who is hard-working, trustworthy and a true leader and maintains a great rapport with producers, veterinarians, extension educators and other industry professionals. After 28 years as a practicing veterinarian, Tom joined the Indiana Board of Animal Health as the Director of the Cattle Division. He has been a vital leader for educational and eradication programs in the area of Brucellosis and Tuberculosis, Johne’s disease for cattle, Chronic Wasting Disease in deer and elk, and scrapie for the sheep industry. His expertise has earned him a member position on the Brucellosis and Tuberculosis Committees and the National Johne’s Working Group for the U.S. Animal Health Association.

Mayo Family Gift to ILBA

The Department and ILBA would like to thank the Mayo family, Allen and Rebecca Mayo, Margaret Mills and Larry and Katherine Guntrip, for their very generous gift to improve the visibility of the ILBA Hall of Fame Honoree photographs. Their gift is in honor of Dr. Henry Mayo and the other 169 honorees since 1943. Composites have been generated from the large photographs and a set of the framed composites have been placed in Lilly Hall. The composites can also be seen at: www.ansc.purdue.edu/ilba/HallOfFame.htm

2003 Animal Sciences Reunion

More than 300 alumni and friends attended the Department of Animal Sciences reunion, Saturday, October 4. Animal Sciences faculty and students enjoyed visiting with alumni and friends from across the United States.

The four new Animal Sciences Distinguished Alumni were introduced (see page 12). Recognition was also given to alumni celebrating their 25th and 50th anniversaries (1953 and 1978), as well as members of the 1953 Livestock and Dairy Judging teams and the Mayo family was recognized for their generous gift to enhance and improve the Indiana Livestock Hall of Fame photos.

Special thanks to co-chairs of the reunion: Don Orr, Joe Pearson, and Drs. Merle Cunningham and Tip Cline.

1953 Dairy Team Photo – Left to right – Monte Alderfer, Blane Crowl, Jim Hellmich, Delmar Guard and Bill Baumgardt. Team overall was 3rd out of 33 teams, first in Brown Swiss. Delmar and his wife, Mary Beth, hosted several of the members in attendance for the reunion.

View additional Homecoming photos at www.ansc.purdue.edu/events/reunion/2003.

Alumni and Friends Update

Bob Peterson (BS’52), Rochester, IN, practicing law for 37 years, was named to the Purdue Board of Trustees. Peterson was officially named on July 1 by Governor Frank O’Bannon.

Amy Ashwill (BS’98), Veedersburg IN is a customer service representative for Cargill Ag Horizons, Linden, IN.

Billy Baumgardt (BS’55, MS’56) West Lafayette, IN, retired Director of the Office of Agricultural Research Programs at Purdue University. American Dairy Science Association recognized Dr. Baumgardt as the recipient of the 2003 Distinguished Service Award. Retired faculty member and administrator, Bill and the 1953 Dairy Judging Team were reunited at the 2003 Homecoming (see photo above). Don Brooks (BS’87), Carrollton, KY, is a senior chemical technician for Dow Corning in Carrollton, KY.

Eugene J. Eisen (PhD’65), Raleigh, NC, faculty member at North Carolina State Department of Animal Sciences since 1964 was awarded the Alexander Quarles Holladay Medal of Excellence by the North Carolina State University Board of Trustee in May 2003.

Michaelle (Reas) Fisher (BS’81, DVM’84), Omaha, NE, is the Executive Associate for the Technical Service Center of the Food Safety and Inspection Service, USDA-FSIS, Omaha, NE.

Steven Hopkins (BS’78), Greenville, OH, is a Research Assistant for Monsanto at the corn research station in Greenville, OH.

Melissa H. Kasper (BS’97), Houston, TX, is supervisor of the Natural Wonders, Sea Lions and Koalas department at the Houston Zoo.

Darrel Kesler (BS’71, MS’74), Urbana, IL, is a Professor of Animal Sciences and Veterinary Clinical Medicine at the University of Illinois, Urbana, IL.
Alumni and Friends Update (Continued):

Mark Legan (BS'82, MS'87), Coatesville, IN, is President of Legan Livestock & Grain, Inc., Coatesville, IN.

Jeff Luckman (BS'76), Newport News, VA, member of the Department of Animal Sciences Advisory Board and Vice President, Smithfield Foods, was recognized by the Virginia Pork Producers with the Pork Industry Service Award. This is awarded to the person who has been recognized for his dedication and commitment to the swine industry.

Lawrence D. Muller (PhD'69) LeMonto, PA, retired July 2003 after 27 years at Penn State University, five years at South Dakota State University and two years on faculty at Purdue. Dr. Muller received the Alumni Award of Merit from the University of Illinois in 2003.

James Need (BS'66), Frankfort, IN, is Community Bank President of Union Planters Bank, Frankfort, IN.

Danita Rodibaugh (BS'75, CFS), Rensselaer, IN, member of the Department of Animal Sciences Advisory Board, received the Spirit of PUCESA Award which recognizes outstanding service or contributions to specialists’ programs, services, or practices and her outstanding support and commitment to Purdue Extension.

Travis Stahl (BS’96), Frankfort, IN, married to Marie Wilson (BS’00), is a research farm manager for United Feeds, Frankfort, IN.

Kathryn Wotman (BS’97), Lambertville NJ, graduated University of Illinois Vet School and interned for Mid Atlantic Equine Medical Center, Ringoes, NJ, and is completing residency at the University of Pennsylvania, New Bolton, PA, in large animal medicine.

Let’s Communicate

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What's New with You?

Name _______________________________ Employer _______________________________
Maiden Name ___________________________ Position _______________________________
Purdue Degree(s)/Year(s) _____________________ Address ______________________________
Address _______________________________ City ___________ ST ___________
Zip ___________ Country ___________________
City ___________________________ ST _______ Work Phone ( ) ___________________
Zip ___________ Country ___________________
E-mail: ______________________________
Home Phone ( ) _____________________
Update Information ______________________________

Everyone wanting to receive the Animal Sciences E-mail Updates (including past subscribers) email: delks@purdue.edu and state “add to ANSC Alumni email newsletter” or list your email address below:

Email: ______________________________

We would be delighted to hear from you! Please clip and return:

Purdue University, Department of Animal Sciences, Lilly Hall of Life Sciences, 915 W. State Street, West Lafayette IN 47907-2054

It is the policy of the Purdue University Department of Animal Sciences that all persons shall have equal opportunity and access to the programs and facilities without regard to race, color, sex, religion, national origin, age, marital status, parental status, sexual orientation, or disability. This material may be available in alternative formats. Purdue University is an Affirmative Action institution.
New Animal Education Park Being Considered

The Schools of Agriculture and Veterinary Medicine are working together in assessing the need for a new Animal Education Park that will provide a learning environment designed for large groups and hands-on teaching and extension education. The facility will have the appearance of a rural, rolling, fenced farm and will serve as an animal agriculture center for Indiana industries. Within close proximity of campus and readily accessible to Purdue University students and the public, the Park will serve as a national center for educating animal care educators of all kinds. An Event Center will be the central focus of the Park and will serve as a multiple use and flexible facility dedicated to large educational weekend events and Purdue classes. It will provide a teaching and extension education facility to conduct large spectator and participant animal events which require indoor space with seating for demonstrations. There will be classrooms, conference rooms, and office areas to support activities, two large indoor arenas for animal events and a large multi-use, flexible area for a variety of events. Adjacent to the Event Center will be facilities for temporary housing of animals for classes and extension events. Space will be provided for the home of Therapy, Health and Education through Children and Horses As Partners (THE CHAPS), Purdue University’s Intercollegiate Horse Show Team, Purdue Intercollegiate Polo Association, and other classes. The proposed Animal Education Park will provide a model program in human-animal interaction through the use of education, research and extension while fulfilling a current need for existing university programs.
Acknowledgment

We hope this Newsletter has increased your enthusiasm and stirred 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 14 and return it to us!

The Newsletter Committee: Co-Chairs Tip Cline and Barry Delks, Pat Jonas, Marlene Miller and Diane Patterson. A special thanks to Professor Emeritus Truman Martin for his editing assistance!

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CALENDAR

APRIL
17-18 .......... Gala Week, SpringFest and Boiler Barnyard

AUGUST
11-22 .......... Indiana State Fair

OCTOBER
16.............. Animal Sciences Reunion and Purdue Homecoming

FEBRUARY 2005
12.............. Ag Alumni Fish Fry

For additional calendar dates, see the ANSC Event Calendar at www.ansc.purdue.edu/events.htm
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