As some of you are aware, Penn State is currently engaged in a significant program review in order to examine available resources, find efficiencies, and determine how to maintain excellence in an era of declining state revenues and mounting fiscal challenges. In parallel to this university-wide assessment, the College of Agricultural Sciences (CAS) is currently crafting its own transformational plan, through a process termed ‘AG Futures,’ which eventually will result in a new business model that will “sustain and enhance excellence while refining our programmatic foci and streamlining our organizational structure.” As a result of increased employee salaries and associated benefits, a projected increase in the payroll tax for the state employee retirement system, and declining state support, the CAS must trim $11 million from its base budget by June 30, 2011. An across-the-board 5% cut already has been effected in all units; an additional 10% cut is forthcoming within the next 10 months. With over 90% of our base budget in people (salaries), we also are anticipating another round of downsizings. Moreover, unlike all of the other Colleges at Penn State, ‘Education & General’ funds (~80% tuition-20% state funds) comprise less than 10% of the CAS’s operating budget. Thus, when the University raises tuition to cover state budget shortfalls, the CAS benefits much less than the other Colleges. Yet, as you will read in this newsletter, our unit continues to excel in teaching, research, and outreach; and our stakeholder support has never been stronger. The poultry industry is a major player in Pennsylvania and U.S. agriculture. ‘AG Futures’…..our future….stay tuned!

– Robert G. Elkin, Professor and Head

Three Poultry Extension Specialists Received Prestigious Awards in 2010

Three Poultry Extension Specialists were recently recognized for outstanding programmatic achievements. Dr. R. Michael Hulet (left, top), Associate Professor of Poultry Science and Extension Poultry Specialist, received the 2010 Phibro Extension Award from the Poultry Science Association; Phillip J. Clauer (left, middle), Senior Instructor and Extension Poultry Specialist, won the 2010 Penn State College of Agricultural Sciences Excellence in Academic Advising Award, which is sponsored by the College of Agricultural Sciences Alumni Society; and Dr. Gregory P. Martin (left, bottom), Penn State Cooperative Extension Regional Extension Educator in Poultry, won the 2010 Achievement Award in Extension sponsored by the National Association of County Agricultural Agents (NACAA).

Mike Hulet conducts nationally- and internationally-recognized extension and research programs that are focused in two main areas: (1) hatchery management and (2) meat
bird production. The central theme of Dr. Hulet’s program is the discovery and promotion of healthful and economical poultry meat production systems. His extension educational efforts and applied research programs are intertwined and address meat bird production as well as hatchery and breeder management, humane euthanasia, animal care guidelines, and auditor certification. The latter are now issues at the center of many public dialogues surrounding poultry care and treatment in production and processing plants in Pennsylvania, the nation, and in other developed countries.

Dr. Hulet’s programs have had a positive impact on chick and poult quality. During the past five years (the period covered by the Phibro Award), he has worked closely with Pennsylvania hatcheries, as well as regional hatcheries tied to 12 companies in 9 states, to improve hatchability and sanitation. In addition, he has coordinated an international hatchery workshop and interacts regularly with colleagues planning research and educational events. Another program in which Dr. Hulet has been a driving force centers on the establishment of vegetative buffers on poultry farms to mitigate neighbor issues with ammonia, dust, feathers, and odor (see page 6). He also has investigated the use of many alternative litter materials for the industry. Along with Dr. Eva Pendleton, Dr. Hulet has secured funding to write educational materials and produce videos to train commercial poultry haulers and catchers in biosecure and humane transportation practices. He has planned, coordinated, and/or procured sponsor donations for 7 ongoing local and regional meetings, and is in high demand as a speaker, as evidenced by his 19 invited presentations since 2005.

Dr. Hulet has developed and maintained a highly regarded annual Game Breeders and Hunting Preserves Conference in Pennsylvania that has evolved into the largest regional conference in the country. He is an advisor to the PA Game Breeders Association and serves as an Associate Editor of their bi-monthly bulletin.

Lastly, Dr. Hulet is deeply involved with poultry science undergraduates. He serves as an academic advisor, annually teaches AN SC 311 (Poultry Production and Management), and helps to place students in internships and jobs in the commercial poultry industry. This past spring, he co-led the Poultry Science Study Tour to the Netherlands, where 10 undergraduates and 4 faculty members enhanced their understanding of global poultry production systems, increased their awareness of key issues facing the poultry industries of the European Union, and learned about the culture of the Netherlands (see pages 16-17).

Phil Clauer was recognized for his overall effectiveness in student advising, individual student goal setting and career planning, and personal counseling. Candidates for the Excellence in Academic Advising Award are recommended by faculty, students, administrators, and alumni.

Clauer’s current job responsibilities include student recruitment, poultry youth education, and small flock outreach. Since joining the Penn State faculty in 2001, Clauer has mentored many Animal Sciences students, including several with minors in Poultry and Avian Science. He also coordinates the Animal Sciences major’s for-credit internship program, which enrolls as many as 20 students annually. Each year, more than 50 non-poultry science students come to Clauer for advice on procuring an internship.

Phil also has supervised Schreyer Honors College thesis work and is the co-advisor of the nationally-recognized Penn State Poultry Science Club. In 2006, he was named Club Advisor of the Year by the Penn State Ag Student Council. Along with Dirk Wise, he also co-coaches Penn State’s very successful Intercollegiate Poultry Judging Team.

Phil is a key recruiter for both the Poultry Science program and the Animal Sciences undergraduate major, which is co-sponsored by the Department of Poultry Science and the Department of Dairy & Animal Science. Each
year, he co-teaches *Poultry Evaluation and Selection* (AN SC 421) and *Advanced Judging and Selection* (AN SC 426).

**Gregory Martin**, a registered Professional Animal Scientist, received the Achievement Award in Extension at the NACAA annual meeting in Tulsa, Oklahoma, on July 13, 2010. Agricultural agents with less than 10 years of service in Cooperative Extension who have exhibited excellence in the field of professional Extension are eligible for the Achievement Award. Moreover, awards are limited to no more than 1% of each state’s membership.

Martin holds a Ph.D. in Poultry Science from Texas A&M University (1999), and B.S. (1982) and M.B.A. (1987) degrees from California Polytechnic State University, San Luis Obispo. Since joining Penn State Cooperative Extension in 2002, Dr. Martin’s research and extension areas have included poultry production and management, animal welfare, vegetative buffers, integrated pest management (IPM), farm safety, emergency preparedness, and composting for mortality and litter management. Focused trainings and webinars presented on mortality composting for the red meat and equine industry has raised awareness of this useful tool nationally. A “Fly Camp” webinar-based program series covering two states demonstrated key methods for solving issues in farm neighborhoods under fly infestation. This program increased farm IPM awareness in the state and northeast region of the U.S.  (*Parts of this article were taken from Penn State press releases.*)

**PERC Technical Service Workers Retire**

Poultry Education and Research Center Technical Service employees **Jerry Myers** (left) and **Gene Krout** retired on January 29, 2010, and March 27, 2010, respectively. Both were long-time workers with over 20 years of outstanding and dedicated service to the Department of Poultry Science.

Jerry was originally hired as a Poultry Worker, General (Grade 7) on July 30, 1990, and on February 9, 1992, was promoted to Poultry Worker, Research (Grade 6), succeeding William Walker, who retired at the end of 1991. On October 24, 1996, Jerry was promoted to Maintenance Mechanic-Poultry Farms (Grade 5), the position he held until his retirement.

Gene (left) was originally hired as a Poultry Worker, Research (Grade 6) on September 2, 1985. He was then promoted to Incubation Room Operator (Grade 5) at the former Poultry Research Farm on March 25, 1990, following Ralph Musick’s retirement. On January 31, 1992, Gene was appointed as the Assistant Manager of the Poultry Research Farm. He was then promoted to Group Leader, PERC (Grade 4) on October 24, 1996, a position which he held until his retirement.

Together, Jerry and Gene accounted for almost a half-century of poultry experience and knowledge, and the PERC is not the same without them. We wish them both the best during their retirement!

**Two New PERC Employees Join Department**

Ashley Halfhill and Tim Price are the newest Poultry Science staff members. Both are located at the Poultry Education and Research Center. Ashley (left) is a native of Connellsville, PA. She received a B.S. degree in Animal Bioscience from Penn State in 2009 and minored in Poultry and Avian Science. Following graduation, she worked in Dr. Francisco Díaz’s lab on several ongoing research projects. Ashley is a licensed PA Department of
Agriculture Certified Poultry Technician and has a wealth of experience in working with various types of poultry, from both research and judging perspectives (as a member of the 2007 PSU Intercollegiate Poultry Judging Team). In 2007-08, she served as the PennAg Pennsylvania Poultry Ambassador and was also President of the Mortar Board Senior Honor Society.

**Tim Price** (left) is a native of Huntingdon County. He has a long-standing interest in poultry, stemming from his experience as a youth raising capons for 4-H projects. Tim is also a licensed PA Department of Agriculture Certified Poultry Technician. He is not a stranger to PERC, having worked there in a temporary position in 2005 while Dave Witherite was serving his country in Iraq. Tim has held positions as a dairy worker and farm helper, as a machine operator, in construction, and as a truck driver. He came to Poultry Science from the HUB-Robeson Center, where he was a Building Maintenance Worker. We are very pleased to have Ashley and Tim join the Poultry Science Family!

**Administrative Assistant Moves to College of Liberal Arts**

**Holly Beaver** (formerly Dickey), who was the department’s Administrative Assistant since November 2000, has joined the College of Liberal Arts as an Administrative Support Coordinator in the Office of Undergraduate Studies. Prior to joining the Department of Poultry Science, she was the Administrative Assistant in the Department of Spanish, Italian, and Portuguese. A Penn State employee since 1986, Holly has also worked in the College of Liberal Arts, the Eberly College of Science, and the Smeal College of Business.

In addition to managing the day-to-day financial operations of the Department of Poultry Science and providing administrative support to the Department Head, Holly oversaw the operation of the Main Office, served as the main interface with the Office of Physical Plant, and acted as a liaison to the Office of Human Resources. Above all, she helped to maintain a welcoming and respectful departmental climate. She also oversaw the coordination of the annual department Alumni and Friends Reunion (football tailgate) as well as other social events involving faculty, staff, students, alumni, and stakeholders. We thank Holly for her decade of service to our department and wish her the best in her new position!

**Cheryl Markley is the New Department Administrative Support Coordinator**

**Cheryl Markley** joined the Department of Poultry Science in January 2010, as the new Administrative Support Coordinator, replacing Holly Beaver (Dickey). She had been the Assistant to the Associate Dean for Research in the College of Agricultural Sciences since 2007. Cheryl, a PSU alumna, holds a B.A. degree in Sociology with minors in Information Systems and Statistical Analysis as well as in Business/Liberal Arts. She has previously served as the Assistant to the Head of the Department of Engineering Science and Mechanics, was a Staff Assistant in the College and Alumni Relations Office in the Smeal College of Business, served as an Enrollment Coordinator in Child Development and Family Council, and was a Staff Assistant in the Penn State Campus Life Assistance Center. Cheryl has a keen interest in adult learning and is currently a volunteer for the Commission for Adult Learners, Hendrick Best Practices for Adult Learners Conference Committee.
Renovation of Department Laboratories and Common Space Continued in 2009-10

- **Room 234 Henning**: Walk-in coolers and freezer were removed and space was created for housing ultra-low freezers and chromatography cabinets (2010)

- **Room 201 Henning**: Laboratory for Dr. Alan Johnson was renovated (2009)
Vegetative Buffers for Poultry and Livestock Farms Field Day

A Vegetative Buffer Field Day was held on June 15, 2010, in Oley, PA. Vegetative buffers are employed on Pennsylvania poultry and livestock farms to help manage odors, dust, emissions, and nutrients. The program, sponsored by the Pennsylvania Landscape and Nursery Association, PennAg Industries Association, and The Pennsylvania State University, was designed to bring together landscapers, nurserymen, and farmers to learn how to establish vegetative buffers and the various funding options available to help cover the associated costs. Following a program at the Oley Valley Fair Centre, the attendees traveled to the Troy Alderfer Farm in Oley, PA (a Tyson Foods, Inc., broiler farm), where they were shown examples of vegetative and riparian buffers.

Nick Ramsey from PA NRCS, Berks County, speaks to the group in front of a vegetative buffer consisting of Streamco willow and hybrid poplar.

Tom Pantano (P T M ’83), Broiler Manager at the Tyson Foods, Inc., New Holland, PA complex, addresses the Vegetative Buffer Field Day attendees as part of a panel discussion at the Oley Valley Fair Centre.

Dean’s Industry Tour Group Visits Kreider Farms Egg Complex (Manheim, PA)

One of the stops on the College of Agricultural Sciences Spring Dean’s Tour was Kreider Farms’ egg complex on April 28, 2010. There, alumnus Ed Hoffman (P T M ’95) led a tour of the 1.3 million bird facility for Dean Bruce McPherson and other College officials. Jim Shirk (E R M ’93) helped with arrangements and also participated in the tour.
Iraqi Agricultural Delegation Visits the Poultry Education and Research Center

At the request of the U.S. State Department, Penn State hosted a group of Iraqis from the agriculture sector on October 30, 2009, as part of the U.S. government rebuilding effort. The College of Agricultural Sciences was the only university site that the International Visit Leadership Program delegation visited during their two-week itinerary in the U.S. The purpose of the visit was to allow the Iraqi farmers to see new technology at work, while introducing them to ways in which a representative democracy uses its political institutions to support agricultural interests. Extension Specialist Paul Patterson (above, right) met with the group and led the tour of PERC.

Department Again Awarded Student Recruitment Funds from the U.S. Poultry & Egg Association

For the seventh consecutive year, the Penn State Department of Poultry Science was successful in winning funding from the Poultry Science Education Fund Grants Program. The purpose of this competitive program, sponsored by the U.S. Poultry & Egg Association (USPEA), is to support recruiting activities at colleges and universities with poultry science programs but without degree-granting Poultry Science Departments. Educational institutions can apply for up to $7,000 of support per year, and PSU was awarded $5,500 for 2009-10. Since 2000, the Poultry Science Department has received over $65,000 for undergraduate recruiting from the USPEA’s Harold E. Ford Foundation. Funds have been used to: (1) increase our visibility in student recruiting; (2) increase the number of departmental visits by potential students and their families; (3) help support industry tours by Poultry Science Club members; (4) expand 4-H, FFA, and other poultry youth programming; and (5) assist our intercollegiate poultry judging teams in meeting the costs associated with participating in two annual national contests.

James L. Adams (right), President and Chief Executive Officer of Wenger’s Feed Mill, Inc., USPEA Board Member, and PSU alumnus (P T M ’80), presents Poultry Science Department Head Bob Elkin with a check from the USPEA to support student recruitment.
Meeting Notes

Pennsylvania Poultry Sales and Service Conference & 81st NECAD Overview

For the third consecutive year, the Pennsylvania Poultry Sales and Service Conference was held jointly with the Northeastern Conference on Avian Diseases (NECAD), on September 17-18, 2009, at the Holiday Inn Harrisburg/Hershey, Grantville, PA. Two-hundred ten attendees from 19 states, Canada, and The Netherlands, heard presentations on a wide variety of topics by nationally-known speakers. Subjects covered during the morning’s General Session on the first day were: “Ohio’s commitment to animal welfare and consumer choice” (Jim Chakeres, Ohio Poultry Association); “Political ‘Meddling Disease’ hurts European Union poultry industry, but how infectious is it?” (Wiebe van der Sluis, former editor of World Poultry); “Update on poultry meat and egg markets and ingredient prices” (Stacey Edwards, Agri Stats); “Critical components of brooding management: Platinum Brooding” (Stewart Ritchie, Canadian Poultry Consultants); and “Water quality: Trends and corrections” (Tom McCarty, Penn State Cooperative Extension). The afternoon was devoted to a NECAD Symposium on Pathogen Evolution. Attendees heard excellent presentations entitled: “Modern meets classics – employment of modern technology helps the finding of new viruses” (Dr. Egbert Mundt, University of Georgia); “Evolutionary genomics of Marek’s Disease virus” (Dr. Stephen Spatz, Southeast Poultry Research Laboratory); “Biological and pharmaceutical coccidiosis controls” (Dr. Steve Fitz-Coy, Intervet/Schering-Plough Animal Health); and “The use of recombinant vaccines” (Keith Honegger, Intervet/Schering-Plough Animal Health). The session concluded with a panel discussion.

Separate broiler, egg/layer, and turkey break-out sessions were held on the conference's second day. Broiler topics included: “Windrowing and composting litter between flocks” (Bud Malone, Malone Poultry Consulting); “Spinal abscesses” (Dr. Patty Dunn, Penn State Animal Diagnostic Lab; Dr. Eric Gingerich, University of Pennsylvania); “Economics and market cycles of the broiler industry” (Stacey Edwards, Agri Stats); “Fostering good working relationships with growers” (Chuck Nye, Empire Kosher); and “Panel: Spotlight on equipment – new and improved” (Cumberland, Valco, Chore-Time, and Hershey Equipment Company). The egg/layer program included: “Clock genes and their impact on hens and eggs” (Dr. Paul Bartell, Penn State); “Water quality and hen performance” (Dr. Joe Hess, Auburn University); “Infectious diseases and egg quality” (Dr. Darrell Trampel, Iowa State University); “Penn State hen study updates” (Dr. Paul Patterson, Penn State); “The U.S. egg industry trends and concerns” (Bill Bradley, CCF Brands); and “FAST Eggs Plan” (Dr. Darrell Trampel, Iowa State University). Topics discussed at the turkey session included: “Ceiling vents for turkey production” (Jim Karsnitz, Cumberland); “Ornithobacterium infection (ORT) in turkeys” (Dr. Bill Pierson, Virginia Tech); “Animal welfare audits” (Christy Puffenbarger, Aviagen Turkeys); “Clostridial dermatitis/cellulitis” (Megan Lighty, Virginia Tech); “Composting turkey litter” (Bud Malone, Malone Poultry Consulting); “Water quality” (Dr. Joe Hess, Auburn University); and “Improved turkey production practices from around the country” (John Menges, Hybrid Turkeys). The NECAD meeting was chaired by Dr. Bill Pierson from Virginia Tech, and a NECAD Scientific Session was held concurrently with the layer, broiler, and turkey break-out sessions on the second day of the conference.

The 2010 Pennsylvania Poultry Sales and Service Conference will again be held in conjunction with NECAD on September 22-23. This year’s venue is The Penn Stater Conference Center Hotel, State College, PA. For additional information, please visit http://poultryextension.psu.edu/SalesandService.html. The registration deadline is September 10, 2010.
2010 Pennsylvania Game Breeders and Hunting Preserves Conference Highlights

The 2010 Pennsylvania Game Breeders and Hunting Preserves Conference was held at the Ramada Inn in State College, PA, on February 21-23. Following a welcome by John Delp (Wolfe’s Gamebird Hatchery and President, PA Game Breeders Association), 74 registrants from seven states heard presentations from an outstanding group of individuals from industry, government, and academia. Among the topics discussed on the morning of the first day were: “PennAg Industries and legislative updates” (Duff George); “North American Gamebird Association (NAGA) legislative update” (Ladd Johnson); “Premier driven shooting in America” (Lars Magnusson, Blixt & Company); “Improving gut health in gamebirds” (Dr. Robert Owen, Alpharma); “Successful small-scale gamebird operations” (Bernadette Gilliland, Hidden Valley Pheasantry); “Making multiple use and more value out of grass and production crops” (Paul Craig, Penn State Cooperative Extension); “How to conduct a duck hunt” (Ladd Johnson, NAGA); “Medicating gamebirds” (Todd Laudenslager, Mahantongo Game Farms); “Economics of gamebird production” (Troy Laudenslager); “Dog events” (Eric Gilliland, Warriors Mark Wingshooting Lodge & Kennels); and “Wildlife damage management” (Travis Bowman, USDA – Wildlife Services). Topics discussed on the following day included: “Brooder and flight pen construction” (Jim Domire, PA Game Commission); “Neurologic diseases of gamebirds” (Dr. Patty Dunn, Penn State Animal Diagnostic Laboratory); “By-product ingredients in gamebird diets” (Dr. Paul Patterson, Penn State); “Brooding for gamebirds” (Mike Martz, Martz’s Game Farm); “Multiple uses of switch grasses” (Dr. Marvin Hall, Penn State); and “AI update” (Dr. Eva Pendleton, Penn State Animal Diagnostic Laboratory). In addition to an exhibitor display and presentations, the banquet included an entertaining and engaging talk by Lou Moore from Penn State, who discussed “Feed versus Fuel.”

Next year’s meeting is scheduled for February 27-March 1, 2011, at the Ramada Inn (State College, PA). For more information, please contact Dr. Mike Hulet (814-863-8934; mrh4@psu.edu) or visit the PA Game Breeders Association website: http://pagamebird.psu.edu/Default.html.

Record Attendance at 2010 Mid-Atlantic Nutrition Conference

The 8th annual Mid-Atlantic Nutrition Conference (MANC), which is jointly sponsored by seven universities (University of Maryland, University of Delaware, The Pennsylvania State University, University of Pennsylvania, Rutgers University, Virginia Tech, and West Virginia University), two feed organizations (the Mid-Atlantic Feed Industry Council and the American Feed Industry Association), and the USDA, was held at the Crowne Plaza North Baltimore (Timonium, MD), on March 24-25, 2010. Attendance for the two-day program was the highest since the former Maryland Nutrition Conference transitioned to the MANC in 2003, with 274 registrants from 26 states, Washington, D.C., Canada, Norway, Spain, and the United Kingdom. Approximately 59% of the registrants were from the animal, feed, and allied industries; with academic institutions, government agencies, individual producers, and practicing veterinarians accounting for the rest of the attendees. The primary species interests (% of registrants) were poultry (33), dairy (35), and equine (32) and the central theme of the conference was “Feeding for the Future.”

The General Session began with a welcome from Dr. Tom Sims of the University of Delaware, followed by a discussion of “Animal agriculture following the passage of Proposition Two in California” by Debbie Murdock of the Pacific Egg and Poultry Association. Mike
Baumgarner (Ohio Farm Bureau) then discussed “Animal agriculture following the passage of Issue One in Ohio.” The morning session ended with a presentation by Dr. Tom Lenz on “The unwanted horse in the U.S.,” followed by a panel discussion. The afternoon Technical Symposium was sponsored by Danisco Animal Nutrition and consisted of three concurrent sessions (poultry, equine, and dairy). The poultry presentations were entitled: “Enzyme supplementation and efficacy with diverse feedstuffs” (Dr. Ed Moran, Auburn University); “How much phytase?” (Dr. Peter Plumstead, Danisco Animal Nutrition); “Avian enteric challenges in commercial production” (Dr. Don Ritter, Mountaire); and “DFMS – Function in poultry diets” (Dr. Greg Siragusa, Danisco USA).

The conference’s second day consisted of concurrent sessions in poultry, dairy, and equine nutrition. The poultry topics centered on “Production strategies and feeding opportunities for pellets of high quality” (Dr. Joe Moritz, West Virginia University); “Quality control considerations in commercial feed manufacture” (Dr. Nancy Buchanan, Pennfield Corporation); “Inclusion effects of DDGS in poultry production and feed milling” (Dr. Alex Corzo, Mississippi State University); “Diet composition and processing adjustments to cover the bird’s need for structural components” (Dr. Birger Svihus, Norwegian University of Life Sciences); “Effects of enzyme supplementation on intestinal environment and poultry performance” (Dr. Mike Persia, Iowa State University); “Broiler lighting programs, an underestimated management technique” (Dr. Henry Classen, University of Saskatchewan); and “Nonlinear responses of broilers to dietary energy and protein” (Dr. Martin Zuidhof, University of Alberta). The 9th MANC will be held at the same venue on March 23-24, 2011. For more information, please visit the conference website at http://manc.umd.edu.

PSU Poultry Science Club Garners National Awards at the 2010 College Student Program in Atlanta

The Penn State Poultry Science Club won several awards at the College Student Program at the International Poultry Exposition (IPE) in Atlanta, GA, on January 27, 2010. Penn State won the Best Scrapbook Award for the 11th consecutive year and was the runner-up to Texas A&M University for the Club of the Year Award. The Penn State Poultry Science Club has been named Club of the Year four times in the past eight years.

Poultry & Avian Science minor and senior Animal Sciences major Hannah Atkins (Lewistown, PA) received the 1st place Frank Perdue Student of the Year Award along with a $1,000 cash prize. Jim Perdue (left), son of the late Frank Perdue and chairman of Perdue Farms, Inc., presented the award to Hannah. Hannah graduated this past May and is now a student at the Texas A&M University College of Veterinary Medicine & Biomedical Sciences in College Station, TX.
Dan T. Cathy (left), president and chief operating officer of Chick-fil-A, Inc., was the featured speaker at the College Student Program, which is sponsored by the U.S. Poultry & Egg Association (USPEA). His take-home message to the students was that in business, it is essential for employees to create value and establish a good name for themselves through...“understanding history, being enthusiastic, making good decisions, creating substance, staying current, and embracing change while conducting business with honor, integrity, and respect.” Approximately 300 students from 24 universities attended the program, and many participated in interviews for internships and jobs with the more than 60 participating industry and allied firms. Phil Clauer and Dirk Wise are the Penn State Club’s co-advisors.

The IPE is the networking hub of the world for the poultry industry, with every segment represented. The International Feed Expo, sponsored by the American Feed Industry Association, is also co-located at IPE. In addition to featuring educational sessions, almost 1,000 exhibits covered more than 16 acres of display area in the Georgia World Congress Center with every conceivable product and service used by the industry. The 62nd annual IPE welcomed 18,896 attendees, including 15,030 from 48 states plus the District of Columbia and Puerto Rico, and a total of 3,866 international visitors. Next year’s IPE will be held on January 26-28, 2011, in Atlanta, GA. For more information, visit the exposition’s website at http://www.ipe11.org.

Hannah Atkins Garners Recognition for Stellar Undergraduate Career

Hannah M. Atkins, who graduated in May with a B.S. in Animal Sciences and a minor in Poultry & Avian Science, was named as the 2010 College of Agricultural Sciences Outstanding Senior and 2010 Ag Council Woman of the Year this past spring. She also received the 2010 Frank Perdue Student of the Year Award from the USPEA (see page 10) and spoke on behalf of all student recipients at the College’s Scholarship and Awards Banquet on October 12, 2009 (below).

Hannah, who is from Lewistown, PA, began her full-time studies at Penn State University Park in Fall 2006. She had an outstanding academic record complemented by numerous extracurricular activities centered on poultry and took advantage of the many opportunities available in the Department and College. She served as the treasurer of the Penn State Poultry Science Club in 2007-08 and as the Club’s president in 2008-09 and 2009-10. In 2007-08, she was selected as the Pennsylvania Poultry Ambassador, where she served as an official spokesperson for Pennsylvania’s poultry industry. In Spring 2009, Hannah was a member of the Penn State Intercollegiate Poultry Judging Team that finished 2nd at the national contest at Louisiana State University. She had the 6th highest overall individual score of the contest.

In keeping with her career goal of becoming an avian veterinarian, Hannah undertook externships at Merck Laboratories (West Point, PA), the Penn State Animal Disease Diagnostic Laboratory (ADDL), and at a small animal...
veterinary hospital. In 2008-09, Ms. Atkins was a Poultry Research Assistant at the ADDL and worked under the Direction of Dr. Patty Dunn on field sample collection, parasite (Brachyspira spp.) detection, and avian influenza surveillance.

Last summer, Hannah served as a Technical Assistant in the laboratory of Dr. Sanjay Reddy at the Texas A&M University College of Veterinary Medicine & Biomedical Sciences, where she assisted with the evaluation of Marek’s Disease vaccine and helped Dr. Reddy with the organization and content update of his course in poultry diseases (VTPB 334). Hannah is continuing her education at College Station, TX, where she is a first year veterinary student at Texas A&M University.

Allison Bardella (AN SC major, Jamestown, PA), James Lowe, Jr. (AN SC major, Cherry Tree, PA), and Hannah Atkins (AN SC major, Lewistown, PA). Detwiler had the 5th highest individual score in the Breed Selection and Carcass Quality Division and was the 5th highest overall individual in the contest, while Lowe, Jr. had the 5th highest individual score in the Egg Production and Quality Division and was the 12th highest overall individual. Atkins and Bardella finished 13th and 17th, respectively, out of 35 participants. The team placed 3rd in the Breed Selection & Carcass Quality Division and 3rd in the Egg Production & Quality Division.

PSU Intercollegiate Poultry Judging Team Places Third and Second at Two National Contests in 2009-10

The Penn State Intercollegiate Poultry Judging Team had another excellent year, placing third overall behind Texas A&M University and the University of Arkansas at the 44th National Poultry Judging Contest in Fayetteville, AR (November 10-11, 2009) and second at the 63rd U.S. Poultry & Egg Association (USPEA) National Poultry Judging Contest in Baton Rouge, LA (April 14-17, 2010).

Co-coached by Phil Clauer and Dirk Wise, the PSU team finished ahead of 6 other schools at the Arkansas contest and consisted of Ayla Detwiler (A E E major, Three Springs, PA), Allison Bardella (AN SC major, Jamestown, PA), James Lowe, Jr. (AN SC major, Cherry Tree, PA), and Hannah Atkins (AN SC major, Lewistown, PA). Detwiler had the 5th highest individual score in the Breed Selection and Carcass Quality Division and was the 5th highest overall individual in the contest, while Lowe, Jr. had the 5th highest individual score in the Egg Production and Quality Division and was the 12th highest overall individual. Atkins and Bardella finished 13th and 17th, respectively, out of 35 participants. The team placed 3rd in the Breed Selection & Carcass Quality Division and 3rd in the Egg Production & Quality Division.

Ten teams competed in the spring contest at Louisiana State University. Penn State placed 1st in Production, 3rd in Breed Selection, and 3rd in Market Products, and brought home a school-record 8 trophies. Team members were Andrew Pullen (AN SC major, Salfordville, PA), Jacob Haagen (AN SC major, Howard, PA), Krista Moser (A E E major, Philadelphia, PA), and Russell Phenicie (AG SC major, Mercersburg, PA). Haagen placed 1st in the Production Division and had the 2nd highest overall individual score in the contest, with Pullen, Phenicie, and Moser finishing 6th, 11th, and 25th, respectively, out of 40 participants.
National Collegiate Poultry Judging Contest Second Place Team (Spring 2010). *From left:* Jacob Haagen, Russell Phenicie, Krista Moser, and Andrew Pullen. *Back row:* Phil Clauer (coach).

Each year, students prepare for the competition through a rigorous training program and by enrolling in AN SC 421 (*Poultry Evaluation and Selection*) and AN SC 426 (*Advanced Judging and Selection*), co-taught by Phil Clauer and Dirk Wise.

Wise Awarded NPFDA Scholarship

The National Poultry Food and Distributors Association (NPFDA) recently announced that one of their four national competitive scholarships has been awarded to Philip D. Wise, a junior Agricultural Sciences major from Spring Mills, PA. Mr. Wise, who began his full-time studies at Penn State in Fall 2008, is the son of Dirk Wise, Poultry Education and Research Center Manager. Philip has an outstanding academic record complemented by numerous extracurricular activities centered on poultry. He was elected Vice President and Scrapbook Chair of the nationally-recognized Penn State Poultry Science Club for the upcoming academic year, and he recently completed an internship as a Service Technician for Sullivan Poultry and Eastern Poultry in central Pennsylvania.

Established in 1979, the goal of the NPFDA Scholarship Foundation ([http://www.npfda.org](http://www.npfda.org)) is to help build “people resources” for the poultry and food industries by providing scholarships to students pursuing an education in all fields related to the poultry industry. NPFDA is committed to not only helping students achieve their degrees, but also assisting those who they perceive have the potential to become effective industry leaders of the future. To date, the Foundation has awarded over $150,000 in scholarships to many outstanding students.

Undergraduate Student Wins Award for Poster Presentation

Jessica Verpeut, who conducted independent research under the direction of Poultry Science Assistant Professor Paul Bartell, won the first-place award in the Health and Life Sciences category for her poster presentation at the 25th Undergraduate Research Exhibition, held in the HUB-Robeson Center on April 7, 2010. Her poster was entitled: “The Use of Adiponectin as an Indicator of Fat Stores in a Migratory Bird”, and the project was jointly funded by the College of Agricultural Sciences Undergraduate Education Office and the Department of Poultry Science. In addition to a certificate, Jessica received a cash prize for winning poster. She graduated from Penn State this past May with degrees in Animal Sciences and Psychology and is currently working on an M.S. degree in the Department of Animal Sciences at Rutgers University.
Poultry Science Club Members Volunteer at the 2010 White House Easter Egg Roll

On April 5, 2010, five PSU Poultry Science Club members and Club Co-Advisor Dirk Wise joined more than 1,200 other volunteers at the White House Easter Egg Roll. A tradition since 1878, an estimated 30,000 children and adults took part in the event, which was held on the White House lawn. Club members received hats and aprons with the official White House Easter Egg Roll logo from the American Egg Board, which promoted health and wellness. The volunteers made and distributed egg salad sandwiches, dressed up as and assisted various costumed characters around the grounds, and rolled posters which were distributed to the attendees.

Youth Poultry 101

Forty-seven students and their youth leaders attended the 3rd annual Poultry Youth 101 at PERC on May 1, 2010. The program consisted of numerous poultry presentations and hands-on exercises.
Fall Industry Trip: Poultry Science Club Visits the Tyson Foods, Inc., New Holland (PA) complex on October 23, 2009

Highlights of the 20th Annual Poultry Science Club Awards Banquet

The 20th Annual Penn State Poultry Science Club Awards Banquet was held on April 30, 2010, at Celebration Hall in State College, PA. Approximately 65 students, friends, parents, alumni, faculty, and staff attended. The evening began with a social hour followed by a silent auction. This was the 6th consecutive year that the silent auction was held, and the proceeds (approximately $800) were again donated to Heifer International (http://www.heifer.org), a non-profit organization whose goal is to help end world hunger and poverty through self-reliance and sustainability. Through the Club's purchase of “flocks of hope,” a combination of chickens, turkeys, and ducks will be distributed to needy families in Third World countries to provide them with food and a source of future income.

Club President Hannah Atkins welcomed the attendees and Bob Elkin, Poultry Science Department Head, introduced the industry representatives and PSU faculty and staff in attendance. Following dinner, Ms. Atkins then introduced Gene Krout, who was the Honored Guest for the evening. Gene, who retired in 2010, was the Group Leader at PERC (see page 3).

Philip Wise was named the Most Active New Club Member and Hannah Atkins swept the other three awards: Most Active Club Member, the Highest Grade Point Average by a Club Member in the Poultry & Avian Science Minor, and the Poultry Science Affiliate Program Group (APG)'s Most Outstanding Club Member. The latter was presented to Hannah by APG president Andy Bradford (AN SC ’96) from Alpharma, Inc. Members of the 2009-10 Poultry Judging Team were also recognized and presented with coats, and the new club officers for 2010-11 were introduced. The evening concluded with Dirk Wise’s traditional “Year in Review” PowerPoint presentation, followed by closing remarks from the Club Co-Advisor Phil Clauer.

New Poultry Science Club officers for 2010-11 (left to right): President Jimmy Lowe, Jr., Community Service Chair/Social and Banquet Chair Jacob Haagen, Vice President and Scrapbook Chair Philip Wise, and Treasurer Russell Phenicie.
Poultry Science Study Tour to the Netherlands
(see http://poultry.cas.psu.edu/PDF%20files/Study_Tour_Netherlands_March2010.pdf)
Wageningen University ● Lagerway Hatchery ● HatchTech ● Broiler Farm
Processing Plant (Meyn) ● Vencomatic ● ‘Patio’ Facility ● Aviary (‘RED-L’)

![Image of people in protective clothing discussing]

![Image of chicks in crates]

![Image of people in protective clothing at a facility]

![Image of interior of a poultry farm]

![Image of laying hens at a poultry farm]

![Image of automated equipment at a poultry processing plant]
March 5-13, 2010
(see http://poultry.cas.psu.edu/PDF%20files/Study_Tour_Netherlands_March2010.pdf)

Hoge Veluwe National Park • Amsterdam • Kinderdijk • Delft • Volendam • Edam
Afsluitdijk • Harlingen • Bourtange • Groesbeek • Nijmegen • Aalsmeer • Utrecht • Gouda
<table>
<thead>
<tr>
<th>Scholarship or Award</th>
<th>Donor/Donor Representative</th>
<th>Spendable Amount ($)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Undergraduate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The James L. Adams Annual Scholarship in Poultry Science</td>
<td>James Adams</td>
<td>1,000</td>
</tr>
<tr>
<td>Adams County Poultry Association, Inc., Scholarship</td>
<td>Darlene Resh</td>
<td>1,888</td>
</tr>
<tr>
<td>Glenn O. Bressler Memorial Award</td>
<td>Department of Poultry Science</td>
<td>10,267</td>
</tr>
<tr>
<td>Clauer Family Annual Award in Poultry Science</td>
<td>Phillip and Vickie Clauer</td>
<td>1,000</td>
</tr>
<tr>
<td>Jay Irwin/Lancaster County Poultry Association Scholarship</td>
<td>PennAg Poultry Council</td>
<td>1,000</td>
</tr>
<tr>
<td>Dr. David C. Kradel Memorial Award</td>
<td>PennAg Poultry Council</td>
<td>1,500</td>
</tr>
<tr>
<td>Frederick “Fritz” Leuschner Memorial Scholarship in Agricultural Sciences</td>
<td>Mr. and Mrs. Frederick E. Leuschner</td>
<td>2,281</td>
</tr>
<tr>
<td>PennAg Poultry Council Scholarship in Poultry Science</td>
<td>PennAg Poultry Council</td>
<td>3,000</td>
</tr>
<tr>
<td>Pennsylvania Poultry Industry Alliance Scholarship</td>
<td>Andrew Bradford</td>
<td>1,100</td>
</tr>
<tr>
<td>William and Edward Powers Poultry Science Grant Fund</td>
<td>Department of Poultry Science</td>
<td>995</td>
</tr>
<tr>
<td>John H. Schwartz Memorial Scholarship</td>
<td>PennAg Poultry Council</td>
<td>1,000</td>
</tr>
<tr>
<td>Raymond E. and Frances B. Sperry Scholarship</td>
<td>Frances B. Sperry</td>
<td>1,616</td>
</tr>
<tr>
<td>Merrill P. and Adeline B. Tait Memorial Scholarship</td>
<td>Mr. and Mrs. Donald B. Tait</td>
<td>1,773</td>
</tr>
<tr>
<td>Wenger’s Feed Mill Incorporated Annual Scholarship in Agricultural Sciences</td>
<td>Jamie H. Rowley</td>
<td>5,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>33,420</td>
</tr>
<tr>
<td><strong>Graduate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herbert S. Siegel Graduate Student Fund</td>
<td>Dr. Herbert S. Siegel</td>
<td>2,478</td>
</tr>
<tr>
<td>William Bowers, Jr., Graduate Endowment in Poultry Science</td>
<td>William Bowers, III</td>
<td>3,951</td>
</tr>
<tr>
<td>Kenneth and Mary Goodwin Fund for the Support of Research in Avian Biology</td>
<td>Martha L. Goodwin</td>
<td>2,200</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>8,629</td>
</tr>
</tbody>
</table>

*Undergraduate awards were made to 17 students on the basis of merit (GPA), Poultry Science Club involvement, enrollment in the Poultry & Avian Science Minor, participation in intercollegiate judging, internships and other work experience, and need. The amount awarded per student ranged from $500 to $4,300, with an average of $1,966. Graduate awards will be made to the 5 current students to support travel to attend professional meetings and assist them with research costs and/or support services.

§For the 2009-10 academic year, the College of Agricultural Sciences awarded a total of $1,875,364 to 700 students. Poultry Science scholarships and awards were included in that figure.
2009 Alumni & Friends Reunion: Great Meal and Fellowship! (But it Poured and PSU Lost)

The 10th Annual Poultry Science Alumni & Friends Reunion (AFR) was held on September 26, 2009, in a warm, dry tent adjacent to the Snider Ag Arena. For the first time since the AFR's inception in 2000, the weather was miserable. The skies opened up at mid-afternoon, and the rain didn’t stop. But the spirits of 129 alumni, friends, students, staff, and faculty members weren’t dampened as they enjoyed the pre-game socializing followed by a Poultry Science Department update by Bob Elkin, an Affiliate Program Group (APG) update by Andy Long (P T M ’93), and another outstanding barbecued chicken dinner prepared by Poultry Education & Research Center Manager and Head Chef Dirk Wise. Following dinner, many of the attendees slogged their way over to Beaver Stadium and witnessed a sloppy 21-10 loss to the Iowa Hawkeyes. The PSU highlight of the game occurred on the first play from scrimmage, when quarterback Darryl Clark play-faked and threw a 50-yard strike to Chaz Powell, who ran it in for a 79-yard touchdown. The Lions kicked a field goal and held a 10-5 halftime lead, but the second half was a disaster, as Iowa scored 16 unanswered points, all in the 4th quarter.

We hope that you will join us for this year’s Poultry Science Alumni & Friends Reunion, when the Michigan Wolverines visit PSU on October 30, 2010. This year we’ll be inside the Snider Ag Arena, where it will again be warm and dry. (See pages 21-22 for information and a registration form.)
Poultry Science Affiliate Program Group (APG) Update from President Andy Bradford

Hello everyone and greetings from the Poultry Science APG! We have had another busy and exciting year. As an organization, we have made many efforts to help support and promote the Poultry Science Department. Here is a year in review of our activities.

2009 Poultry Tailgate: Another great success put together by Dr. Bob Elkin and his staff. The APG was glad to participate and help promote the department and is looking forward to seeing you at this year’s tailgate on October 30th.

Poultry Science Club Award: Congratulations to Hannah Atkins for being selected as the 3rd annual winner of the Poultry Science APG’s Most Outstanding Club Member Award. Hannah exemplifies what the award and the APG stand for – hard work and dedication to the poultry industry. Way to go, Hannah!

Visit with Dean McPheron: The APG initiated a letter signing campaign in June 2010 to demonstrate the solidarity that the industry has in Pennsylvania and to show support for the Poultry Science Department. The letter, which was hand delivered to Dr. Bruce McPheron, Dean, College of Agricultural Sciences, outlined the positive effects that the Poultry Science Department has on the industry not only in Pennsylvania but around the Northeast. Over fifty (50) signatures were attached to the letter. Penn State, like so many other universities, is facing very difficult financial times and the APG felt this would be a good opportunity to showcase what the Poultry Science Department means to the industry. The APG would like to thank Dean McPheron for his time and wish him the best as he makes his decisions as to the future of the College. Special thanks are also extended to Jim Shirk for his assistance.

John Schwartz Memorial Golf Outing: John was a founding member of the APG and had an unwavering dedication to the poultry industry in Pennsylvania. This year’s outing is scheduled for Tuesday, September 14, 2010, and will be held at Dauphin Highlands Golf Course in Harrisburg, PA. For more information or to register for the event, please call the PennAg Industries Association office at (717) 651-5920.

APG Membership: If you would like to join or renew your membership to the Poultry Science APG, please send a note with your name, address, phone numbers (work, home, cell), email address, PSU graduation year, degree, and major (if applicable), along with a check for $20 to: Rick Roenigk, York Ag Products, P. O. Box 327, York, PA 17405-0327. Just a reminder that you do NOT need to be an alumnus/alumna of Penn State to join the Poultry Science APG.

Members paying their dues by September 30, 2010, will automatically qualify for a drawing for two free PSU-Michigan football tickets.

APG Officers Needed: The Poultry Science APG is also seeking individuals interested in serving on the Board of Directors. If you wish to join the Board, please contact Andy Bradford at andy.bradford@alpharma.com.

APG Officers for the remainder of 2010 are:

- **President** - Andy Bradford, Alpharma Animal Health, LLC.
- **Treasurer** - Rich Roenigk, York Ag Products, Inc.
- **CAAS Representative** - Roxanne Molnar, broiler producer
**The Plans**

We’ll have a brief update of departmental activities and special guest recognition by Bob Elkin, Poultry Science Department Head. An update of the activities of the Poultry Science Affiliate Program Group (APG) will also be provided. Following a chicken BBQ buffet meal, we will adjourn to attend the PSU-Michigan football game.

**What Should I Wear?**

Dress casually, as you would for the football game.

**Football Tickets**

Tickets are available to our group at the rate of $64.00 per ticket. These are chair-back seats (as opposed to bench seats), and our group will be seated in the South Upper Deck.

**Registration Deadline**

Tailgate meal and football ticket orders must be received by **Friday, October 1**.

**Hotel Accommodations**

We presently have two hotel rooms available for this event on a first-come, first-served basis. The rooms will need to be reserved for both October 29 and 30 at a price of $300 per room per night plus occupancy tax based on single or double occupancy. In this regard, please contact Cheryl Markley by telephone (814-863-2101) or e-mail (clr1@psu.edu) by **Friday, September 24** if you are interested in reserving a room.

**Parking**

We have a limited number of reserved parking spaces near the Ag Arena that will be available on a first-come, first-served basis. Please check the appropriate box on the registration form to request a parking space.

**Accessibility For Special Needs**

If you have special dietary needs, physical challenges or need other assistance to participate in the reunion activities, note those on your registration form and someone from our office will contact you to make the necessary arrangements.

**Game Time**

The kick-off time for this nationally televised game will be 8:00 p.m.

**What If I Have Other Questions?**

Please call the Poultry Science Department at 814-865-3411.

---

**SCHEDULE OF REUNION ACTIVITIES**

**SATURDAY, OCTOBER 30, 2010**

The event will be held **inside the Ag Arena** (at the intersection of Park Avenue and Fox Hollow Road).

- **4:00 – 4:45 p.m.** Check-in and Visiting
- **4:45 p.m.** Welcome and Department and APG Updates
- **5:15 – 6:30 p.m.** Chicken BBQ Meal and Social Time
- **8:00 p.m.** Penn State vs. Michigan at Beaver Stadium
PSU Class Year & Name: __________________________ Major (if applicable): __________

Address: __________________________

City/State/Zip: __________________________

Company/Organization: _________________________________________________________

Home Phone: ( ) __________ Work Phone: ( ) __________

Cell Phone: ( ) __________ E-mail: __________________________

☐ Yes, I would like Ag Arena Parking (first-come, first-served)

Special Football Seating Needs: ____Wheelchair ____Companion

Dietary or Other Special Needs (please explain): __________________________

(Someone from the Poultry Science Office will phone with details of arrangements.)

Name(s) as you wish them to appear on name badges (please print or type):

__________________________________________________

__________________________________________________

<table>
<thead>
<tr>
<th>ACTIVITY (OCTOBER 30)</th>
<th>QUANTITY</th>
<th>PRICE</th>
<th>AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Football Tickets (chair back seats)*</td>
<td></td>
<td>$ 64.00</td>
<td></td>
</tr>
<tr>
<td>Penn State vs. Michigan</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tailgate Chicken BBQ Dinner</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adult</td>
<td></td>
<td>$ 16.00</td>
<td></td>
</tr>
<tr>
<td>Child (5-12 years old)</td>
<td></td>
<td>$ 8.00</td>
<td></td>
</tr>
<tr>
<td>Order Total</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Football ticket orders will be processed only for those making meal reservations.

NOTES: All persons, regardless of age, must have a ticket to enter Beaver Stadium. You will receive written confirmation of your registration. All tickets will be distributed at the registration table inside the Snider Ag Arena on game day.

MAKE CHECKS PAYABLE TO “Penn State University” AND DETACH AND MAIL THIS FORM TO:

Cheryl Markley, Department of Poultry Science, Penn State University
213 Henning Building, University Park, PA 16802-3501
(Tel: 814-863-2101; Fax: 814-865-5691; E-mail: clr1@psu.edu)

TAILGATE DINNER/FOOTBALL TICKET ORDER RESERVATIONS MUST BE RECEIVED BY

***OCTOBER 1, 2010***
HOW TO CONTACT US

Department of Poultry Science:
The Pennsylvania State University
213 Henning Building
University Park, PA 16802-3501
Tel: (814) 865-3411 Fax: (814) 865-5691
Website: http://poultry.cas.psu.edu

Poultry Education & Research Center:
Dirk Wise, Manager
Tower Road, University Park, PA 16802
Tel: (814) 863-0510 Fax: (814) 865-5691
E-mail: dfw3@psu.edu

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Office</th>
<th>Tel (A.C. 814)</th>
<th>E-mail (@psu.edu)</th>
<th>Area of Expertise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul A. Bartell</td>
<td>205 Henning</td>
<td>867-2365</td>
<td>pab43</td>
<td>Avian Biology/Circadian Rhythms</td>
</tr>
<tr>
<td>Phillip J. Clauer</td>
<td>225 Henning</td>
<td>863-8960</td>
<td>pclauer</td>
<td>4-H Youth and Specialty Poultry</td>
</tr>
<tr>
<td>Francisco J. Diaz</td>
<td>206 Henning</td>
<td>865-1499</td>
<td>fjd10</td>
<td>Reproductive Biology</td>
</tr>
<tr>
<td>Robert G. Elkin</td>
<td>214 Henning</td>
<td>863-2102</td>
<td>relkin</td>
<td>Nutritional Biochemistry</td>
</tr>
<tr>
<td>R. Michael Hulet</td>
<td>222 Henning</td>
<td>863-8934</td>
<td>mrh4</td>
<td>Meat Bird Reproduction and Management</td>
</tr>
<tr>
<td>Alan L. Johnson</td>
<td>227 Henning</td>
<td>867-3203</td>
<td>alj14</td>
<td>Ovarian Biology</td>
</tr>
<tr>
<td>Roland M. Leach, Jr.</td>
<td>208 Henning</td>
<td>865-5082</td>
<td>lnr</td>
<td>Nutrition/Skeletal Biology</td>
</tr>
<tr>
<td>Paul H. Patterson</td>
<td>223 Henning</td>
<td>865-3414</td>
<td>php1</td>
<td>Environmental Management and Egg Science</td>
</tr>
<tr>
<td>Ramesh Ramachandran</td>
<td>211 Henning</td>
<td>865-5202</td>
<td>RameshR</td>
<td>Neuroendocrine Regulation of Female Reproduction</td>
</tr>
<tr>
<td>Regina Vasilatos-Younken</td>
<td>203 Henning</td>
<td>865-4642</td>
<td>rxv</td>
<td>Metabolic Endocrinology</td>
</tr>
</tbody>
</table>

If you have any comments or suggestions about this or future issues of PS Update, please contact Dr. Elkin.

Editor and Designer: Robert G. Elkin

This publication is available in alternative media on request.

The Pennsylvania State University is committed to the policy that all persons shall have equal access to programs, facilities, admission, and employment without regard to personal characteristics not related to ability, performance, or qualifications as determined by University policy or by state or federal authorities. It is the policy of the University to maintain an academic and work environment free of discrimination, including harassment. The Pennsylvania State University prohibits discrimination and harassment against any person because of age, ancestry, color, disability or handicap, national origin, race, religious creed, sex, sexual orientation, gender identity, or veteran status. Discrimination or harassment against faculty, staff, or students will not be tolerated at The Pennsylvania State University. Direct all inquiries regarding the nondiscrimination policy to the Affirmative Action Director, The Pennsylvania State University, 328 Boucke Building, University Park, PA 16802-5901; Tel 814-865-4700/V, 814-863-1150/TTY.

© The Pennsylvania State University 2010