International Poultry Course at UGA

In January, following the International Production and Processing Expo (IPPE) in Atlanta, the Poultry Science Department faculty welcomed 71 poultry professionals from around the world for the Georgia International Poultry Short Course in Athens. Participants in the course came from the U.S. and 18 other countries. They were engaged in an active 3.5 day program that focused on unwrapping the mysteries of modern poultry meat production. Course topics included U.S. poultry industry structure and economics, nutrition, genetics, broiler breeder management, ventilation, broiler feeder, drinker and lighting systems, incubation, housing, health and disease, environmental management and processing. Poultry Science Extension faculty members Mike Czarick, Brian Kiepper, Brian Fairchild, Casey Ritz and Jeanna Wilson co-coordinated the conference, bringing together an elite group of faculty instructors from Department of Poultry Science and the University’s Poultry Diagnostic Research Center. The next International Poultry Short Course will be offered immediately after the 2014 International Poultry Expo. Program and registration information will be available on our website this fall.
Katie Collins Receives IPSF Award

Katie Collins, MS student under the direction of Dr. Jeanna Wilson, won a Student Research Award at the 2013 International Poultry Scientific Forum. Her award winning poster at the IPSF meeting was titled, “Evaluation of Embryonic Differences between 1950s Broilers and the Modern High Yielding Broiler.” Katie will be enrolling in a PhD program in the Department of Poultry Science at Mississippi State University in the fall.

John Worley Selected as Hill Award Winner

Dr. John Worley was selected as a 2013 recipient of the Walter B. Hill Award for Distinguished Achievement in Service. The Hill Award is the highest honor for service and outreach at the University of Georgia. John’s programs in poultry energy conservation and animal waste management were cited as outstanding examples of how the University’s outreach make a difference in the ability of Georgia farmers to compete in the global marketplace.

Kristen Navara asked to Participate in UGA Writing Fellows Program

Kristen Navara was selected to participate in a year-long UGA program designed to work synergistically with writing initiative programs across the campus in an effort to bring greater attention and emphasis on writing.
Word From the Department Head  

Woo Kyun Kim will join the faculty in August. Woo is an outstanding nutritionist with research interests in bioactive molecules and their effect on nutrient utilization, skeletal formation, intestinal transport, health and performance. As we have had the opportunity to reflect back during this past year on the history of the Department, we realize how fortunate we are to have the legacy of outstanding students, alumni, faculty and staff. On behalf of the Department, I want to thank each one of you who has contributed to the history and success of the Department in the past. And as we start a new chapter in our history, we wish for you every success in the future.

Poultry Science Club Update

Fall 2013 Club Officers
- President: Seth Stowers
- Vice President: Dylan Talley
- Treasurer: Heath Whidden
- Secretary: Mandy Howard
- Ag Hill Representatives: Ross Tew, Michelle Stewart
- Historians: Cody Brown, Sarah Harrison, Ashley Owen

Congratulations to Our Graduates!

Fall 2012
- Jonathan Andrew Morris
- Wade McKinley Powell
- Anna Catherine Savelle

Spring 2013 (Cont’d)
- Jacqueline Elizabeth Johnson
- Bethany Aileen Lightfoot
- Jose A. Portillo
- Matthew David Smith
- Cierra Nichole Walters
- Samantha Arlene Warner
- Kathryn Lynn Burden
- Ashley Gera-Ann Stephens

Alumni Achievements

Chris McDaniel (Ph.D. 1995) wins NOVUS Teaching Award

Jackie Golden (BSA 2002, Ph.D. 2006) wins PSA Early Achievement in Teaching Award

Wayne Kuenzel (Ph.D. 1969) Elected as PSA Fellow

Keep Us Posted!
Let us know about births, marriages, engagements, new jobs, relocations and other achievements in your life!
Email: brianf@uga.edu
This year the Deep South Poultry Conference was held on Wednesday April 17th at the Tifton Campus Conference Center in Tifton, Georgia. The conference had ninety-nine attendees this year with five of the thirteen sponsors displaying on site. The general session covered talks in poultry housing, simplified composting, new regulation guidelines and strategies for Salmonella and Campylobacter control at the farm level and the usual disease update. The broiler session addressed the ongoing problem of dermatitis in broilers, feed withdrawal issues and biosecurity for the broiler producer. The breeder session looked at the rising problem of feather licking in breeder flocks, maximizing egg production up to 65 weeks and spiking for good late fertility. The overall conference evaluation by the attendees was 4.64 out of a possible 5.0.

A special Thank You to the 2013 Deep South Poultry Conference sponsors!

- Ag Georgia Farm Credit
- Merck Animal Health
- Cobb-Vantress
- Merial Select
- Avigen Inc.
- Jones-Hamilton
- Ceva
- Sunbelt Ag Expo
- Hubbard Breeders
- IVESCO LLC
- Sun Coast Shavings
- Lewis Brothers
- ECODRUM

Poultry Science Association Awards

The Poultry Science Department was well represented at the annual meeting of the Poultry Science Association in San Diego, CA.

Mike Czarick received the 2013 Phibro Extension Award. This award is given to a PSA member for conducting an outstanding program of work in the area of poultry extension and outreach.

Kim Wilson awarded a Jones-Hamilton Co. Graduate Student Travel Grant Award and the Student Research Paper Certificates of Excellence. The Jones-Hamilton Co. presents this award to assist poultry science graduate students with travel expenses so that they may attend and present their research findings at the Poultry Science Association’s annual meeting. The Student Research Paper Certificate of Excellence is presented by the Poultry Science Association in recognition of students who have presented high quality research papers at the PSA annual meeting. Ms. Wilson’s paper was given in the Environment & Management Section and was titled “Impact of skip-a-day and every-day feeding programs on the colonization of Salmonella Typhimurium in broiler breeder pullets.”

Brian Kiepper awarded the 2013 PSA Early Achievement Award for Extension. This award is given to recognize the achievements of PSA members in the early stages of their careers in poultry extension.


Recent Faculty Publications

Dr. Nick Dale has created an instructional videos, posted on YouTube, on the ‘Added Hormone Myth’. The video is available in both English and Spanish. To view the video:

In English:   https://www.youtube.com/watch?v=VHBC_yuMF0A
In Spanish: https://www.youtube.com/watch?v=qItLa0buYTs
Poultry Science Alumni Homecoming Tailgate

The Poultry Science Department hosted its annual Alumni Tailgate on November 3, 2012. The Bulldawgs’ opponent that day was Ole Miss and the Dawgs beat them 37-10! The tailgate was held on the patio between the Poultry Science and Food Science Buildings. It was our largest turnout yet and we had alumni from as far back as 1978 attend! Thanks for coming out. We look forward to seeing you all next year!!

2013 CAES Graduate Student Chili Cook-Off

Poultry Science graduate student, Chris Stephens, won second place in the 2013 College of Agricultural and Environmental Sciences Graduate Student Chili Cook-off. Chris was willing to share his award winning recipe with us.

1 lb large white beans, soaked overnight in water, drained
6 cups chicken broth
2 cloves garlic, minced
2 medium onions, chopped (divided)
1 Tbsp olive oil
2 4-ounce cans chopped green chilies
2 tsp ground cumin
1 1/2 tsp dried oregano
1/4 tsp ground cloves
1/4 tsp cayenne pepper*
4 cups diced cooked chicken
3 cups grated Monterey Jack cheese
1 1/2 jalapeno or serrano pepper, chopped (optional) *

1. Combine beans, chicken broth, garlic and half the onions in a large soup pot and bring to a boil. Reduce heat and simmer until beans are very soft, 3 hours or more. Add additional water (or watered-down broth), if necessary.
2. In a skillet, sauté remaining onions in oil until tender. Add chilies and seasonings and mix thoroughly. Add to bean mixture. Add chicken and continue to simmer 1 hour. Check seasoning, add jalapeno or serrano to level of desired hotness.
3. Serve topped with grated cheese.

*Adjust jalapenos and cayenne pepper for desired spiciness
Nineteen students were recognized at the 2013 Poultry Science Banquet as award winners or scholarship recipients. Over 100 students, parents, faculty and staff attended the Banquet held at the Georgia Center for Continuing Educa-

### 2013 Scholarship Winners

- Sarah Harrison
  - Hubbard Foundation Scholarship
- Rachel Harrison
  - Harold Harrison Scholarship
- James Ensley
  - Sanderson Farms Scholarship
- Seth Stowers
  - J.B. Gay Memorial Scholarship
- Matthew Bain
  - Billy Crider Scholarship
- Cody Gibbs
  - Roy & Maye Durr Scholarship
- Dylan Talley
  - Till M. Huston Scholarship
- Renay Gregoire
  - Winston May Scholarship
- Nicholas Crowell
  - W.A. Crider, Sr. Scholarship
- Michelle Stewart
  - Centurion Scholarship
- Cody Brown
  - Tom Arrendale Scholarship
- Heath Whiddon
  - Lee Arrendale Scholarship
- Joshua Steed
  - Joe Hatfield Scholarship
- Ashley Owen
  - Ga Poultry Federation Scholarship

### 2013 Award Winners

- Seth Stowers
  - Outstanding Poultry Science Club Member
- Mandy Howard
  - Rising Star Award
- Dr. Mark Compton
  - Dr. Henry Marks Award

Raven Blocker
- Merka Scholarship
- Ryan Wazniz
- John Shutze Scholarship
- Kimberly Brazis
- Cummickel Scholarship
- Rachel Harrison, Seth Stowers, Matthew Bain, James Ensley, Cody Brown
- Caswell Scholarship
- Kaavya Pandian
- Georgia Egg Commission Scholarship
Current Faculty Research and Extension Projects

These are some of the impact statements submitted by Poultry Science faculty in 2012. To see these or other faculty impact statements in more detail please visit the CAES Impact Statement website. http://www.caes.uga.edu/applications/impactstatements/

Dr. Mark Compton

**Apoptotic Gene Expression:**
Apoptosis is a form of “cellular suicide” in which a physiological signal activates a program of self-destruction. An understanding of the signal transduction pathway that regulates this process and the gene products that execute this cell death response are paramount to scientists' comprehension of apoptosis in multicellular organisms. Efforts in a UGA poultry science laboratory are focused on analyzing the role of a novel gene, cThy28, on cellular function. Recent work using coimmunoprecipitation procedures indicates that this gene product appears to interact with nuclear proteins that are involved in ribosomal RNA biosynthesis. These results suggest that cThy28 gene action may play a functional role the ribosomal biosynthetic pathway.

Dr. John Worley and Mike Czarick

**Agricultural Energy Assessments:**
Rising energy costs have made many energy efficiency measures on farms an economic necessity, yet many farmers have trouble financing these improvements in the current economic downturn. USDA Rural Development administers two programs that can help defray these costs. The REAP (Rural Energy for America Program), which includes grant assistance to encourage the use of alternative fuels and energy conservation on farms, is administered by USDA Rural Development; and EQIP (Environmental Quality Incentives Program) is administered by Natural Resources Conservation Service. Both programs provide assistance through competitive grant programs, but both applications require an energy audit by a professional with expertise in energy conservation. UGA Cooperative Extension engineers in the Poultry Science Department provided the needed energy assessments for 42 poultry farms. They also provided information to other farmers to encourage them to invest in energy conservation upgrades without grant assistance. Total cost of energy efficiency renovations in grant applications amounted to $3.6 million. Annual savings were projected at over $480,000 a year and 22 billion BTU’s of energy. While not all of the grant applications were successful, most of the energy saving upgrades were installed resulting in substantial savings for these farms.

*Continued on page 9*
Due to continued genetic selection for increased growth rate, broiler breeder hens have nearly insatiable appetites. If they were allowed free access to food they would become obese and less reproductively fit. Obesity in broiler breeder flocks is avoided by severely restricting feed intake of a nutrient dense diet during the laying period. Despite the improvements in egg production of broiler breeder hens resulting from feed restriction programs, these hens still have inferior total egg production compared to commercial table egg laying hens and are behaviorally and metabolically stressed. This loss of reproductive efficiency in broiler breeder hens costs US boiler producers billions of dollars each year. So UGA poultry scientists completed research to determine if broiler breeder hens fed a diet supplemented with 0.05 percent crystalline tryptophan would have enhanced reproductive performance and reduced stress as indicated by plasma corticosterone levels. Corticosterone is the major stress hormone produced in birds. Similar to humans, where dietary supplements of tryptophan enhance stress coping and resilience, these results indicate that tryptophan supplementation may alleviate stress associated with restrictive feeding broiler breeder hens and thus improve their welfare.