



Friday Notes from *MSSTATE Poultry Science*

Friday Notes – to keep you informed about noteworthy news from Poultry Science at Mississippi State...and let us hear from you as well!

Beginning with this issue of the Notes, MPA has requested that we include updates from other poultry units at Mississippi State, so watch for those.

Poultry Science Department News:

Faculty and Staff Travel and Activities:

- **Drs. Beck, Tabler, and Sharma** participated in the MPA Research/Education/Mississippi Poultry Management School Committee meeting in Pearl, Feb. 10 to plan the Management School program.
 - **The Poultry Management School** will be held May 12-13 in CVM at MSSTATE.
- **Mrs. Wells and Drs. Tabler and Farnell** cooked chicken Saturday, Feb. 14, and along with undergrads **Will Stuart, Charlotte Chesnut, Holli Nutt, Shakyra Smith, Ashlea Mae Watkins, Katie Roper**, served 720 plates at the Madison Ridgeland Run 4 Rotary fundraiser for Special Olympics.
- **Dr. Tabler** visited Peco Farms in Sebastopol to do gut checks and discuss LED lighting issues, Feb. 16.
- **Mrs. Wells** participated in the Jones County H.S. District Career Fair in Laurel, Feb. 20

Interview for Research Coordinator/Extension Associate:

- **Poultry Science Faculty and Staff** participated in 2 day-long interviews with candidate for the Research Coordinator position, Feb 17 and 19.

Poultry Science Club News:

- **Zoetis Reach Teach Learn Video Competition – Please Vote Starting Monday!!**
 - **The P.S. Club** (with officers **Holli Nutt** (President), **Charlotte Chesnut** (VP), **Shakyra Smith** (Secretary), **Josh Striplin** (Treas), **Ashlea Mae Watkins** (Historian), and other club members including **Dana Dittoe**, who organized MSU students from Creswell Dorm, has made a video, *Spreading the Truth Serum*, dispelling myths about poultry production to compete for a \$10,000 Zoetis scholarship against four other poultry clubs around the country. Voting is from Feb. 23-March 5. Number of votes per person is unlimited.
 - The video can be seen at <http://youtu.be/Ae0TR-BLmls>.
 - Please go to the link below beginning Monday to cast your votes for our club's video:
[!https://www.facebook.com/ZoetisPoultry/app_234952240031629](https://www.facebook.com/ZoetisPoultry/app_234952240031629)
 - **Ashlee Mae Watkins** and **Holli Nutt** assisted **Mrs. Wells** with her poultry break-out project and spoke to two classes on poultry production at the CLC Learning Center, Feb. 13.

- **The P.S. Club** is selling t-shirts for their Spring fundraiser. Colors are Berry, Sea foam, and Pepper in short (\$15) and long (\$20) sleeve and Paprika in short sleeve. The shirt will be Comfort Color brand with “Clucks Unlimited” on the back; orders can be placed with Tannah Christensen in the Poultry Science Department front office (t.christensen@msstate.edu):



Recent Publications and Noteworthy News:

- The January issue (Vol. 10, Number 4) of *Landmarks Magazine*, published by the Division of Agriculture, Forestry and Vet Medicine, contains two articles about the Poultry Science Department at <http://www.dafvm.msstate.edu/landmarks/15/jan2015.pdf> :
 - P. 14, “Poultry Teaching, Research, Extension, and Diagnostics The MSU Department of Poultry Science supports Mississippi’s top agricultural commodity.”
 - P. 18, “Parchman Poultry MSU Extension poultry specialists are addressing a growing fly and mosquito problem at the Mississippi State Penitentiary.”

Tom Tabler, Ashli Brown, Gale Hagood, **Morgan Farnell**, **Chris McDaniel**, and Jon Kilgore, “Nutrient Content in Mississippi Broiler Litter” (study funded by the Mississippi Farm Bureau Federation); <http://msucares.com/pubs/publications/p2878.pdf>.

Mark your calendars and save the dates!!

- **March 27 – Annual Poultry Science Spring Function Crawfish Boil:** we’ll plan to start serving around 3:00pm on Friday the 27th ahead of the 6:30 Auburn baseball game (and triple-header weekend). Hope to see all friends and alumni at Hill Poultry Science that afternoon! RSVPs welcome but not necessary!
- **April 10 – MSU’s Relay for Life:** our *Poultry Science Club* is participating in raising money for this great event that starts at noon on Friday the 10th; their goal is to raise at least \$1000.00 and one method of fundraising they are going to do is by setting up donation pots in the Poultry Science Department main office for each faculty member. The faculty member with the most money raised by the Spring Function date (March 27) will “win” getting a pie in the face. Feel free to donate to the cause by adding money to the faculty member of your choice (currently **Dr. Wamsley** is in the lead!).

USDA-ARS Poultry Research Unit (PRU) News:

Scientist Activities:

- **Dr. Purswell** presented talks in the Poultry Session during Delaware Ag Week, Harrington, DE, Jan.16:
 - “The Future of Hot Weather Poultry Ventilation”
 - “Broiler House Shutter Options.”
- **Drs. Purswell** and **Branton** participated in the MPA Research/Education/Mississippi Poultry Management School Committee meeting in Pearl on Feb. 10, 2015.

- **Drs. Purswell and Branton** visited a Cal-Maine farm in Mendenhall to collect samples to evaluate efficacy of a recently patented automated whole hose vaccination system developed at the PRU, Feb. 19.
- **Dr. Leigh** spoke to an 8th grade science class at Armstrong Middle School on the PRU research programs, the Agricultural Research Service, and microbiology, Jan. 21.
- **Dr. Evans** visited two Cal-Maine Foods, Inc., facilities to conduct Mycoplasma gallisepticum-related investigations, Jan. 5 & 12 and Feb. 9 & 17.
- **USDA-ARS abstracts** presented at the International Poultry Scientific Forum, Atlanta, GA, Jan. 26-27 (www.southernpoultrysciencesociety.org then click on link to abstracts):
 - Effect of air velocity on laying hen performance and egg quality. Joseph Purswell, Scott Branton, Brian Luck, and Jeremiah Davis.
 - Methodology to compare radiant heater efficiency using spatial modeling. John Linhoss, Jeremiah Davis, and Joseph Purswell.
 - John Linhoss won a graduate student certificate of excellence award for this poster and received a cash award of \$500. John is a graduate student in the Agricultural and Biological Engineering Department at MSU.

Running Cumulative List of Scientific and Extension Publications, 2015

2015 International Poultry Scientific Forum and International Production and Processing Expo Abstracts: (www.southernpoultrysciencesociety.org)

- Comparative effects of in ovo versus subcutaneous vaccination and pre-placement holding time on post-hatch broiler performance **E. David Peebles**, Taylor Barbosa, Timothy Cummings, John Dickson, **Sharon Womack**
- Use of histomorphometric area measurements for determination of intestinal villus/crypt ratios in broiler chickens: comparisons to routine linear methods and documentation of age-associated intestinal changes Floyd Wilson, Timothy Cummings, Taylor Barbosa, Chris Williams, John Dickson, Amanda Lawrence, **David Peebles**,
- Effects of the in ovo injection of organic zinc, manganese, and copper on the hatchability and bone parameters of broiler hatchlings Tiago Oliveira, Elizabeth Kim, Anna Caixeta, **E. David Peebles**
- Parental sex effect of parthenogenesis on hatchability of Chinese Painted quail **Holly Parker, Aaron Kiess, Chris McDaniel**
- Nutrient analysis of Mississippi broiler litter **Tom Tabler**, Ashli Brown, Gale Hagood, **Morgan Farnell, Chris McDaniel**, Jon Kilgore
- Effect of pullet limestone particle size on performance and bone health of pullets and laying hens raised in deep litter systems Pamela Eusebio-Balcazar, Sheila Purdum, Kathryn Hanford, **Mary Beck**
- Effects of in ovo injection of Inovocox EM1 vaccine and turn-out times on broiler performance **Adebayo Sokale, E. David Peebles**, Christopher Williams.
- Both Bifidobacterium animalis and its metabolites impact broiler breeder sperm motility **Melissa Triplett, Christopher McDaniel, Aaron Kiess**.
- Effect of sub-lethal oxidative stress of chlorine on biofilm forming ability of various Salmonella strains **Janak Dhakal, Chander Sharma**
- Liquid application method (LAM), feed form (FF) and feed pan location effects on D28-56 Ross x Ross 708 male broiler performance and processing characteristics **Robert B Sellers**, John Boney, **Chris McDaniel**, Joseph S. Moritz, **Kelley G. S. Wamsley**
 - **Ben Sellers won a graduate student certificate of excellence award for this presentation and received a cash award of \$500.**
- Effects of varying coccidiosis control and inclusions of algal beta-1,3-glucan (ABG) on D0-59 Ross x Ross 708 male broiler performance and processing **Cameron Cardenas, Wei Zhai**, Robert Levine, **Kelley Wamsley**
- Effects of commercially available antibiotic alternatives on 0 to 41 d male broiler chicken intestinal morphology and microflora **Xi Wang, Yuhua Farnell, Aaron Kiess, Kelley Wamsley, Wei Zhai**
- Relationship among feed form, behavior and welfare, and growth performance using male broilers **Xianjiang Wen**, A.F. Liu, **M.M. Beck, K.G.S. Wamsley, B. Sellers, X. Wang, W. Zhai**
- Strain and feed form (FF) effects on D28-49 male broiler performance and D43 and 50 processing characteristics **Robert B. Sellers**, Paul B. Tillman, Joseph S. Moritz, **Kelley G. S. Wamsley**
- Parental sex effect of parthenogenesis on egg weight in mated Chinese Painted quail. **Courtney Wade, Holly Parker, Aaron Kiess, Chris McDaniel**
- Impact of oral Lactobacillus gavage on seminal and cloacal Lactobacillus concentrations in roosters **Juliana Hirai, Melissa Triplett, Christopher McDaniel, Aaron Kiess**
- Reduction of Salmonella on chicken skin by the sequential application of chemical treatments and Salmonella lytic bacteriophage preparation **Anuraj Theradiyil Sukumaran*GS, Chander Shekhar Sharma**
- Relationships of eggshell, air cell, and cloacal temperatures of embryonated broiler hatching eggs during incubation. **Opeyemi Olojede, Katie Collins, Sharon Womack, Patrick Gerard, David Peebles**
- Effect of in ovo injection of F-strain Mycoplasma gallisepticum on the survivability of commercial layer embryos and chicks. **Katie Collins**, Scott Branton, Jeff Evans, **Sharon Womack, E. David Peebles**
- Commercially available mastic gum derived feed additive effects on zone of inhibition testing and phosphorus sparing using D3-21 male chick performance/tibia ash. **Jared Chandler, Aaron Kiess, Kelley Wamsley**

- *Jared Chandler won a Don R. Sloan Undergraduate Research Award for this presentation and received a cash award of \$500.*
- Effects of commercially available *Bacillus subtilis* or *B. licheniformis*-based probiotics used alone or in combination with an antibiotic on 0-64 d broiler performance and processing. **Priscila Zorzetto, Wei Zhai, David Harrington, Aaron Kiess, Kelley Wamsley.**