



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!

Poultry Science Department News: Faculty, Staff, and Student Travel and Activities.

- **Dr. Tabler...**
 - visited 3 Peco farms at Sebastopol to conduct pullet checks, April 5;
 - Met with NRCS and Ecodrum reps in Jackson to discuss mortality management/composter options, April 6;
 - Presented "Water Quantity: Pressure vs. Volume" and staffed booth at the Magnolia Beef and Poultry Expo in Raleigh, April 7;
 - visited Koch broiler breeder farm at Kosciusko to assess insulation performance, April 8;
 - visited Peco broiler farm at Okolona to assess water treatments and LED light performance, April 15.
- **Drs. Tabler and Farnell** met with Bruce Rutledge with MWI Animal Health to discuss new fowl mite treatment product, April 15.
- **Dr. Farnell**, accompanied by grad students **Dima White** and **Shailesh Gurung**, visited Cal-Maine hatchery in Callahan, FL, to assess chick management and collect samples, April 6-8.
- **Mrs. Wells**, assisted by **Mrs. Christensen, Addie Davis, Abby Case**, and **Hannah Abrams**, took incubators and conducted the Hatch-out project at Potts Camp HS, Weir, Ackerman, Aiken Village, Church Hill Elementary, Pathways to Possibilities in the Delta, Methodist Daycare West Point, East Oktibbeha, Eurpora Elementary, and South Delta Elementary, April 4-15.
- **Dr. Wamsley** took the Poultry Science Judging Team to LSU and the 69th USPOULTRY Foundation Ted Cameron National Poultry Judging Contest, April 5-7:
 - Team members: **Kaela Johnson, Brandon Dickenson, Chrysta Beck, Gil Odom**
 - The team placed 6th in Production
 - **Kaela Johnson - 5th high individual in Production**
 - **Brandon Dickinson - 14th high individual in Market Products**
- **Mrs. Wells** hosted the Mississippi State FFA poultry judging contest, April 8.
- **The Poultry Science Department** hosted Bennett Mize, Congressional staffer with Senator Cochran, for a departmental overview and farm tour, April 15.

Thank you to...

Congratulations to...

- Our undergraduate research scholars for their presentations at the Spring Undergraduate Research Symposium, April 15:
 - **Chrysta Beck (Kiess, advisor)**: “Injecting GalliPro Hatch into broiler hatching eggs using commercial in ovo technology and its impact on hatchability and early chick mortality.”
 - **Hannibal Brooks (Wamsley, advisor)**: “Effect of a Bacillus subtilis probiotic inclusion with and without coccidiosis control on d0-14 male Ross x Ross 708 broiler performance.”
 - **Kathryn Lott (McDaniel, advisor)**: “The male and female contribution to parthenogenesis-induced fertility.”
- **Katie Collins**, PhD graduate student with **Dr. Peebles**, for...
 - Successfully defending her dissertation, “*In ovo* vaccination of layer chickens with strain F *Mycoplasma gallisepticum*,” April 1,
 - Receiving the CALS/NACTA 2015-16 Graduate Teaching Award of Merit – PhD Category”
- **Xi Wang**, PhD graduate student with **Dr. Zhai**, for
 - Receiving the MSU PhD Research Assistant of the Year Award;
 - Receiving a World Poultry Congress Travel Grant to Beijing, China, to be held in September, 2016.
- **Mark Lemons**, PhD graduate student with **Dr. Wamsley**, for receiving a Cliff Carpenter \$1,000 travel award to attend the WPC in Beijing, China, in September 2016.

Running Cumulative List of Scientific and Extension Publications, 2016

The following oral talks and posters were presented at the IPSF, Atlanta, GA; * indicates the presenting author and the abstracts may be found at http://www.ippexpo.org/ipsf/docs/2016SPSS_AbstractBook.pdf:

- **M65: Rosana Hirai***, Omar Gutierrez, **Kelley Wamsley, Ana Oliveira**, “Effects of varying phytase inclusion in conjunction with xylanase supplementation on 0-56 d male broiler performance.”
- **M83: Dima White***, Aaron Kiess, Tom Tabler, Chris McDaniel, Yuhua Farnell, Shailesh Gurung, Marcelo Moreira, Dan Zhao, Morgan Farnell, “Application of a commercially available cleaner and disinfectant via a compressed air foam system to decrease aerobic bacteria in pullet and layer houses.”
- **M84: Katie Collins***, Scott Branton, Jeff Evans, **E. David Peebles**, “Evaluation of the potential influence of the disinfection cycle on the efficacy of F-strain Mycoplasma gallisepticum vaccine administered by in ovo injection to layer hatching eggs.”
- **M122: Mark Lemons***, Christopher McDaniel, Joseph Moritz, **Kelley Wamsley**, “Influence of feed form (FF) and diet phase effects on 0-46 d broiler performance.”
- T146: Ivan Alvarado*, **Kelley Wamsley**, Alejandro Banda, “Evaluation of the synergistic effect of the live attenuated infectious bursal disease vaccine 89/03 and a recombinant HVT-IBD against early infectious bursal disease challenge in commercial broilers.”
- **P200: Katherine Lott***, AJ Kawaoku, Holly Parker, Chris McDaniel, “The male and female contribution to parthenogenesis-induced infertility in quail.”
- **P201: AJ Kawaoku***, Katherine Lott, Holly Parker, Chris McDaniel, “Roles of the male and female quail in egg component alterations due to the parthenogenetic trait.”
- **P202: Pedro Mota***, Melissa Triplett, David Peebles, Christopher McDaniel, Aaron Kiess, “Investigating the potential to introduce Lactobacillus acidophilus and Bacillus subtilis to the broiler embryo through commercial in ovo technology.”
- **P204: Edgar Peebles***, Floyd Wilson, Taylor Barbosa, Timothy Cummings, John Dickson, Sharon Womack, “Comparative effects of in ovo versus subcutaneous vaccination and pre-placement holding time on scanning electron micrograph and histomorphometric measurements of small intestinal villus length and villus/crypt ratios in broiler chickens.”
- **P210: Alisha Moore***, Chander Sharma, “Antimicrobial efficacy of acidified lactic acid, propionic acid, and lauric arginate against Salmonella in ground chicken frames.”
- **P318: Ana Beatriz Oliveira***, Wei Zhai, Kelley Wamsley, “Feasibility of using Elusieve processing to improve the nutritional profile of feed ingredients used in commercial poultry diet formulation.”
 - **NOTE: Ana received an Honorable Mention in the Don R. Sloan Undergraduate Research Competition for this presentation and a check for \$250.**

USDA-ARS Poultry Research Unit Publications:

- Abstracts presented at the International Poultry Scientific Forum, Atlanta GA, Jan. 25-26;
http://www.ippexpo.org/ipsf/docs/2016SPSS_AbstractBook.pdf:
 - J.L. Purswell and S.L. Branton. 2016. Performance of an automated whole-house vaccination system.
 - J.E. Linhoss, J.L. Purswell, and J.D. Davis. 2016. Preferences of young chicks for varying radiant fluxes.
 - H. Olanrewaju, Influence of light sources and photoperiod on growth performance and carcass characteristics of heavy broilers at 56 days of age.