



## *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!

### *Faculty and Staff Travel and Activities:*

- **Dr. Tabler** visited a Koch grower in Carthage, Jan. 12, to discuss water issues; and Sanderson Farms in Laurel, Jan. 13.
- **Dr. Tabler** visited a Sanderson grower in McComb Jan 20 for a breeder check, and a Peco grower in Sebastopol for a breeder check on Jan 22.
- **Dr. Beck** attended the annual Poultry, Animal, & Dairy Science Department Heads meeting in San Antonio and served as Secretary to the Southern Academic Council's review of multi-state research projects, Feb. 3-4.
- **Dr. Tabler** met with Peco Management at Sebastopol to discuss modifications to the MSU commercial houses, Feb. 5.
- The following faculty and staff members attended the *International Poultry Scientific Forum and International Production and Processing Expo* in Atlanta, Jan. 25-30;
  - Contributions were as follows (all abstracts can be accessed at [www.southernpoultrysciencesociety.org](http://www.southernpoultrysciencesociety.org) and then click on link to *View Abstracts*):
  - **Dr. Peebles:**
    - 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**
  - **Dr. Parker:** Chaired Physiology Section, judged student papers, and presented the following research:
    - Parental sex effect of parthenogenesis on hatchability of Chinese Painted quail **Holly Parker**, **Aaron Kiess**, **Chris McDaniel**
  - **Dr. Wamsley:** Chaired Metabolism & Nutrition I Section and judged student papers
  - **Dr. Tabler:** Presented the following research:
    - Nutrient analysis of Mississippi broiler litter **Tom Tabler**, Ashli Brown, Gale Hagood, **Morgan Farnell**, **Chris McDaniel**, Jon Kilgore
  - **Dr. Farnell:** Judged student papers and staffed Poultry Science Booth.
  - **Mrs. Wells:** Judged student papers, escorted undergraduates for the College Student Interview Program, and staffed Poultry Science Booth.
  - **Drs. Kiess and McDaniel:** Co-authored student research papers.

- **Dr. Beck:** served as Executive Secretary for the IPSF and co-authored the following research:
  - 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**

### ***Student Participation in the International Poultry Scientific Forum and IPPEXPO:***

- Also attending were grad students **Ben Sellers, Cam Cardenas, Yemi Olojede, Katie Collins, Raj Sukumaran, Janak Dhakal, Bayo Sokale, Xianjiang Wen, Rosana Hirai, Melissa Triplett and Xi Wang** and undergrads/interns **Courtney Wade, Jared Chandler, Juliana Hirai, Priscila Zorzetto**, all of whom presented oral or poster talks, as follows:
  - 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.**

- The following undergraduates participated in the USPoultry Undergraduate College Program and interviewed for internships and/or positions: **Ben Bishop, Gil Odom, Danelle Moffett, Shanise Rouser, Jared Chandler, Charlotte Chesnut, Carlton Coleman, Dana Dittoe, Marcus Hill, Kathryn Lott, Layton Luther, Julie Myers, Holli Nutt, Shakyra Smith, Courtney Wade, Twain Womack.**
  - **Twain** entered a Show Floor social media Selfie contest and as the “Selfie King,” won a \$50 gift card for his entries!

***Congratulations and Farewell:***

- **Donnie Zumwalt** retired from Poultry Science Jan. 31 after 27 years, first as student and later as staff member, most recently serving as Research Program Coordinator. We wish him well in his future endeavors!

***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 27<sup>th</sup> 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! RSVP’s 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 10<sup>th</sup>; 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” a pie in the face. Feel free to donate to the cause by adding money to the faculty member of your choice!

