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. Wells** hosted the State 4-H Cook-out competition at Hill Poultry Science, July 8; **Dr. Elliott** and **Mrs. Starkey** assisted with judging.
- **Dr. Wells** conducted the South Mississippi 4-H Project Achievement Days, in Ellisville, July 9.
- **Dr. Beck** hosted the Processing Advisory Committee at dinner in Starkville, July 11 and a working session in the processing plant, with **Mr. Moon** and **Dr. Tabler**, July 12.
- **Dr. Tabler** was recently re-certified as PAACO (Professional Animal Auditor Certification Organization) auditor.
- The following students presented research at the Summer Student Science Symposium, July 11:
  - Lauren Lindsey (BioSci undergrad with **Dr. Peebles**)
  - **Abdul Alqhtani** (grad student with **Dr. Peebles**)
  - Tianmin Li (grad student with **Dr. Zhang**)
  - Mercedes Smith (ADS undergrad with **Dr. Sukumaran**)
  - **Tori Williams** (PO undergrad with **Dr. Adhikari**)
  - Tomi Obe (grad student with **Dr. Kiess**)
- **Dr. Tabler** participated in a MSFBF Young Farmers & Ranchers Committee roundtable discussion, July 12.

**Congratulations to...**

- **Abdul Alqhtani**, on the successful completion of his doctoral preliminary examination, June 2019
Cumulative List of Scientific and Extension Publications, 2019

- **Abstracts of Presentations at the IPSF, Atlanta, February 11-12, 2019; these can be accessed at [www.ippexpo.org/ipsf](http://www.ippexpo.org/ipsf):**
  - Chrysta Beck*, Christopher McDaniel, Kelley Wamsley, G. Pharr, Aaron Kiess, "In ovo injection of probiotic bacteria and its influence on the broiler immune system during a coccidia challenge"
  - Abdulmohsen Alqhtani*, Scott Branton, Jeff Evans, Katie Elliott, David Peeples, "The effects of in ovo administration of 6/85 Mycoplasma gallisepticum vaccine on layer chicken embryo hatchability and early post-hatch performance"
  - Andrew Brown*, Mark Lemons, Christopher McDaniel, Joseph Moritz, Kelley Wamsley, "Determining the average particle size (APS) consumed between two broiler strains (S) receiving diets varying in feed form (FF) and feed quality (FQ) and the subsequent impact on starter performance (0-6 and 0-18 d)"
  - Courtney Ennis*, Mark Jackson, Omar Gutierrez, Staci Cantley, Kelley Wamsley, "Effects of superbiodosing phytase and use of carbohydrase enzymes in low energy diets on 56 day male broiler performance and processing"
  - Milan Sharma*, Carlos Domenech, Pratima Adhikari, "Effect of feeding pronutrient (Alquernat Nebsui L) on hen day egg production, egg quality and small intestine histomorphology of laying hens. ‘
  - Bo Zhang*, Wei Zhai, “Effects of riboflavin on growth performance, processing yield, and internal organ development of Ross 708 male broilers”
  - Saman Fatemi*, Katie Elliot, Abiodun Bello, Bradley Turner, Haijun Zhang, Edgar Peebles, “Effects of the in ovo injection of vitamin D3 and 25-hydroxyvitamin D3 on immunity and small intestine morphology in broilers fed commercial or calcium and phosphorous-restricted diets”
  - Rosana Hirai*, Leonel Mejia, Cesar Coto, Justina Caldas, Christopher McDaniel, Kelley Wamsley, “Impact of feeding varying grower digestible lysine and energy levels to female Cobb MV × Cobb 500 broilers on 42-day growth performance and processing yield”
  - Katie Elliott*, Scott Branton, Jeffrey Evans, Edgar Peebles, “Early chick immunity after in ovo vaccination of F strain Mycoplasma gallisepticum and the influence of sex on the response to the vaccination”
  - Josie Gamble*, Claudia Castaneda, Kelley Wamsley, Christopher McDaniel, Aaron Kiess, “In ovo injected Bacillus subtilis probiotic serotypes alter broiler hatchability and intestinal microflora”
  - Lauren Lindsey*, Katie Elliott, Seyed Fatemi, Peter Ishola, Patrick Gerard, Edgar Peebles, “Incubational and embryonic temperature relationships in Ross 708 broiler hatching eggs”

- Xi Wang Yuhua Z Farnell Aaron S Kiess E David Peebles Kelley G S Wamsley Wei Zhai, 2019. “Effects of *Bacillus subtilis* and coccidial vaccination on cecal microbial diversity and composition of *Eimeria*-challenged male broilers,”


**NOTE:** This manuscript is an Editor’s Choice for the current issue of *Poultry Science*!


**Tom Tabler,** “Cooling chickens with sprinklers has multiple benefits,”. https://poultryhealthtoday.com/cooling-chickens-with-sprinklers-has-multiple-benefits/?utm_source=Poultry+Health+Today+Newsletter&utm_campaign=b10fef64dc-AAAP_antimicrobial_stewardship_PHT_1_8_2018_COPY_0&utm_medium=email&utm_term=0_5ac605299a-b10fef64dc-315441937

**Tom Tabler,** Margaret Khaitsa, and **Jessica Wells,** “Smallholder farmer constraints to village chicken production.”. http://extension.msstate.edu/sites/default/files/publications/publications/p3315.


• **Peebles, E. David**, 2019. Presenter and panelist for “Jumpstarting the Development of the Chick” live editorial webinar. Webinar was broadcast 8:30-10:00 AM on Tuesday, March 5, 2019 to approximately 200 listeners. The editorial webinar was an online Feed (FeedNavigator) production by William Reed Business Media, Le Belem-355 rue Vendemiera, 34000 Montpellier, France. The webinar was sponsored by DuPont Industrial Biosciences. https://www.feednavigator.com/Events/Jumpstarting-the-Development-of-the-Chick

- **166-REDUCTION OF SALMONELLA IN PORK TRIMMINGS**
- **180-EFFECTS OF ELECTROSTATIC SPRAY AND NATURAL ANTIOXIDANTS ON CHEMICAL QUALITY OF GRASS- FINISHED BEEF STRIPS STEAKS**
  https://meatscience.org/docs/default-source/default-document-library/abstract-by-number.pdf?sfvrsn=ac1b15cc_0


- **RA Hirai**, L. Meija, C. Coto, J. Caldas, **CD McDaniel** and **KGS Wamsley**, 2019, “Evaluating the response of Cobb MV x Cobb 500 broilers to varying amino acid density regimens for a small bird program,” [japr](https://doi.org/10.3382/japr/pfz055)