



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 Peco farm in Sebastopol July 17 for gut checks and LED light assessments.
- **Dr. Beck** participated in the Poultry Science Association Foundation Board of Trustees meeting July 23 in San Diego, CA.
- **Dr. Peebles** served as Chair of the Resolutions Committee at the Poultry Science Association Business Meeting in San Diego, July 25.

Congratulations!

M. Triplett (PhD student with **Dr. Kiess**) and **Bayo Sokale** (PhD student with **Dr. Peebles**) received graduate student awards for their presentations in San Diego – see notes below. MSU was certainly very well represented at PSA!!

Faculty and Students Presenting () or Coauthors of Papers at the Poultry Science Association Annual Meeting in San Diego, CA, July 22-25:*

- **A. Bello**¹, P. Y. Hester², P. D. Gerard³, and **E. D. Peebles**^{*1}, “Effects of commercial in ovo injection of 25-hydroxycholecalciferol on bone development and mineralization in male and female broilers on d 0, 14, and 28 post-hatch.” ¹Mississippi State University, ²Purdue University, ³Clemson University.
- S. Iselt¹, J. Lee¹, **M. Farnell**¹, R. Latham¹, K. Naehrer², U. Hofstetter², R. Beltran², G. Schatzmayr², and D. Caldwell* “Effects of feeding diets naturally contaminated with deoxynivalenol (DON), aflatoxin B₁(AFB₁), and/or fumonisin (FUM) in layers on internal egg quality measurements¹,” ¹Texas A&M University, ²Biomin, Herzogenburg, Austria.
- S. Iselt¹, J. Lee¹, **M. Farnell**¹, R. Latham¹, K. Naehrer², U. Hofstetter², R. Beltran², G. Schatzmayr², and D. Caldwell*¹, “Effects of feeding diets naturally contaminated with deoxynivalenol (DON), aflatoxin B₁(AFB₁), and/or fumonisin (FUM) in layers on external egg quality measurements.” ¹Texas A&M University, ²Biomin, Herzogenburg, Austria.
- M. Osman¹, **H. M. Yakout**^{*1}, H. Motawe², W. Farouk², and **G. T. Tabler**³ “Marjoram as a phytobiotic in broiler diets, effects on performance, immunity and slaughter traits.” ¹Alexandria University, Egypt, ²Agriculture Research Center, Egypt, ³Mississippi State University,
- E. J. Kim^{*1}, **K. G. S. Wamsley**², J. L. Purswell¹, and S. L. Branton¹, “The apparent metabolizable energy of broiler diets supplemented with a biosurfactant and carbohydrase.” ¹USDA-ARS, Mississippi State, ²Mississippi State University.

- **R. Jacob***¹, S. L. Branton², and **E. D. Peebles**¹, Effects of different pre-lay *Mycoplasma gallisepticum* vaccines in conjunction with an F-strain *M. gallisepticum* challenge overlay on the blood characteristics of commercial layers. ¹Mississippi State University, ²USDA-ARS, Mississippi State.
- A. M. Corey*¹, **K. G. S. Wamsley**², T. S. Winowiski³, and J. S. Moritz¹ “The effect of calcium lignosulfonate, mixer-added fat, and feed form on true amino acid digestibility and digesta viscosity,” ¹West Virginia University, ²Mississippi State University, ³LignoTech, Rothschild, WI.
- E. Fowlkes*¹, D. Caldwell¹, J. Byrd², J. Lee¹, C. Hinojosa-Garza¹, M. Ross¹, S. Iselt¹, R. Latham¹, J. Garcia¹, L. Froebel¹, D. Caldwell², and **M. Farnell**¹ “Cleaning and disinfection of broiler transport coops with peracetic acid and alkaline based cleaners,” ¹Texas A&M University, ²USDA-ARS, College Station.
- **D. V. T. Nair*** and **C. S. Sharma**, “Reduction of *Salmonella* on turkey breast cutlets by plant-derived molecules—carvacrol, eugenol and *trans*-cinnamaldehyde.” Mississippi State University.
- S. K. Williams*¹, S. Mart¹, and **C. S. Sharma**², “The reduction of *Salmonella* Typhimurium on chicken broiler skin utilizing sodium metasilicate in prechill and postchill applications.” ¹University of Florida, ²Mississippi State University.
- **X. Wang***, **E. D. Peebles**, T. W. Morgan, R. L. Harkess, and **W. Zhai**, “Effects of diet type and nutrient density on small intestine morphology in broiler chicks from day 8 to 21 post-hatch, Mississippi State University.
- **A. O. Sokale***¹, **E. D. Peebles**¹, **W. Zhai**¹, L. M. Pote¹, and C. J. Williams², “Post hatch performance and oocyst shedding pattern in broiler embryos vaccinated with in ovo coccidiosis vaccine,” ¹Mississippi State University, ²Zoetis, NC.
 - **This presentation was recognized with a grad student award of excellence.**
- **W. Zhai***, **E. D. Peebles**, **C. D. Zumwalt**, L. Mejia, and A. Corzo, “Effects of dietary amino acid density and metabolizable energy level on the **performance and meat yield of summer-reared Cobb × Cobb 700** broilers. Mississippi State University.
- R. E. Loar*¹, **K. G. S. Wamsley**¹, A. Evans², J. S. Moritz², and A. Corzo¹, “Effects of varying conditioning temperature and fat application on a broiler finisher diet. ¹Mississippi State University, ²West Virginia University.
- **M. Triplett***, **H. Parker**, **C. McDaniel**, and **A. Kiess**, “Influence of six different intestinal bacteria on turkey sperm motility in vitro,” Mississippi State University.
 - **This presentation was recognized with a grad student award of excellence and the Aviagen Communication Award for Turkey Research**
- P.E. Eusebio-Balcazar¹, A. Steiner¹, **M. Beck**², and S. Purdum¹, “Effect of dietary Ca and P levels on bone health and eggshell quality of laying hens housed in floor pens or cages.” ¹University of Nebraska-Lincoln; ²Mississippi State University.
- A. Steiner¹, P.E. Eusebio-Balcazar¹, **M. Beck**², and S. Purdum¹, “Effect of dietary Ca and P levels on bone health and eggshell quality of laying hens housed in floor pens or cages.” ¹University of Nebraska-Lincoln; ²Mississippi State University.