



## *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**<sup>1</sup>, P. Y. Hester<sup>2</sup>, P. D. Gerard<sup>3</sup>, and **E. D. Peebles**\*<sup>1</sup>, “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.” <sup>1</sup>Mississippi State University, <sup>2</sup>Purdue University, <sup>3</sup>Clemson University.
- S. Iselt<sup>1</sup>, J. Lee<sup>1</sup>, **M. Farnell**<sup>1</sup>, R. Latham<sup>1</sup>, K. Naehrer<sup>2</sup>, U. Hofstetter<sup>2</sup>, R. Beltran<sup>2</sup>, G. Schatzmayr<sup>2</sup>, and D. Caldwell\* “Effects of feeding diets naturally contaminated with deoxynivalenol (DON), aflatoxin B<sub>1</sub>(AFB<sub>1</sub>), and/or fumonisin (FUM) in layers on internal egg quality measurements<sup>1</sup>,” <sup>1</sup>Texas A&M University, <sup>2</sup>Biomin, Herzogenburg, Austria.
- S. Iselt<sup>1</sup>, J. Lee<sup>1</sup>, **M. Farnell**<sup>1</sup>, R. Latham<sup>1</sup>, K. Naehrer<sup>2</sup>, U. Hofstetter<sup>2</sup>, R. Beltran<sup>2</sup>, G. Schatzmayr<sup>2</sup>, and D. Caldwell\*<sup>1</sup>, “Effects of feeding diets naturally contaminated with deoxynivalenol (DON), aflatoxin B<sub>1</sub>(AFB<sub>1</sub>), and/or fumonisin (FUM) in layers on external egg quality measurements.” <sup>1</sup>Texas A&M University, <sup>2</sup>Biomin, Herzogenburg, Austria.
- M. Osman<sup>1</sup>, **H. M. Yakout**\*<sup>1</sup>, H. Motawe<sup>2</sup>, W. Farouk<sup>2</sup>, and **G. T. Tabler**<sup>3</sup> “Marjoram as a phytobiotic in broiler diets, effects on performance, immunity and slaughter traits.” <sup>1</sup>Alexandria University, Egypt, <sup>2</sup>Agriculture Research Center, Egypt, <sup>3</sup>Mississippi State University,
- E. J. Kim\*<sup>1</sup>, **K. G. S. Wamsley**<sup>2</sup>, J. L. Purswell<sup>1</sup>, and S. L. Branton<sup>1</sup>, “The apparent metabolizable energy of broiler diets supplemented with a biosurfactant and carbohydrase.” <sup>1</sup>USDA-ARS, Mississippi State, <sup>2</sup>Mississippi State University.

- **R. Jacob**\*<sup>1</sup>, S. L. Branton<sup>2</sup>, and **E. D. Peebles**<sup>1</sup>, 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. <sup>1</sup>Mississippi State University, <sup>2</sup>USDA-ARS, Mississippi State.
- A. M. Corey\*<sup>1</sup>, **K. G. S. Wamsley**<sup>2</sup>, T. S. Winowiski<sup>3</sup>, and J. S. Moritz<sup>1</sup> “The effect of calcium lignosulfonate, mixer-added fat, and feed form on true amino acid digestibility and digesta viscosity,” <sup>1</sup>West Virginia University, <sup>2</sup>Mississippi State University, <sup>3</sup>LignoTech, Rothschild, WI.
- E. Fowlkes\*<sup>1</sup>, D. Caldwell<sup>1</sup>, J. Byrd<sup>2</sup>, J. Lee<sup>1</sup>, C. Hinojosa-Garza<sup>1</sup>, M. Ross<sup>1</sup>, S. Iselt<sup>1</sup>, R. Latham<sup>1</sup>, J. Garcia<sup>1</sup>, L. Froebel<sup>1</sup>, D. Caldwell<sup>2</sup>, and **M. Farnell**<sup>1</sup> “Cleaning and disinfection of broiler transport coops with peracetic acid and alkaline based cleaners,” <sup>1</sup>Texas A&M University, <sup>2</sup>USDA-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\*<sup>1</sup>, S. Mart<sup>1</sup>, and **C. S. Sharma**<sup>2</sup>, “The reduction of *Salmonella* Typhimurium on chicken broiler skin utilizing sodium metasilicate in prechill and postchill applications.” <sup>1</sup>University of Florida, <sup>2</sup>Mississippi 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**\*<sup>1</sup>, **E. D. Peebles**<sup>1</sup>, **W. Zhai**<sup>1</sup>, L. M. Pote<sup>1</sup>, and C. J. Williams<sup>2</sup>, “Post hatch performance and oocyst shedding pattern in broiler embryos vaccinated with in ovo coccidiosis vaccine,” <sup>1</sup>Mississippi State University, <sup>2</sup>Zoetis, 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\*<sup>1</sup>, **K. G. S. Wamsley**<sup>1</sup>, A. Evans<sup>2</sup>, J. S. Moritz<sup>2</sup>, and A. Corzo<sup>1</sup>, “Effects of varying conditioning temperature and fat application on a broiler finisher diet. <sup>1</sup>Mississippi State University, <sup>2</sup>West 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-Balcazar<sup>1</sup>, A. Steiner<sup>1</sup>, **M. Beck**<sup>2</sup>, and S. Purdum<sup>1</sup>, “Effect of dietary Ca and P levels on bone health and eggshell quality of laying hens housed in floor pens or cages.” <sup>1</sup>University of Nebraska-Lincoln; <sup>2</sup>Mississippi State University.
- A. Steiner<sup>1</sup>, P.E. Eusebio-Balcazar<sup>1</sup>, **M. Beck**<sup>2</sup>, and S. Purdum<sup>1</sup>, “Effect of dietary Ca and P levels on bone health and eggshell quality of laying hens housed in floor pens or cages.” <sup>1</sup>University of Nebraska-Lincoln; <sup>2</sup>Mississippi State University.