



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** collected litter samples in Magee, July 15, 16, and 17; and visited farms in Prentiss, Collins, and Mize, July 18.
- **Poultry Science Association Annual Meeting, Corpus Christi, TX, July 14-18:**
 - Attending/Presenting:
 - **Drs. Peebles, Zhai, McDaniel, Kiess, Wamsley, Sharma, M. Farnell, Y. Farnell, Liu, Beck; Grad Students T. Oliveira, X. Wang, R. Sellers, C. Cardenas, M. Triplett, A. Sukumaran, D. Nair**
 - Chairing Sessions:
 - **Drs. Wamsley, Zhai, Kiess (Posters)**
 - Judging Student Presentation:
 - **Drs. Y. Farnell, Peebles, Wamsley, Zhai**
 - Editorial Boards:
 - **Drs. Peebles (JAPR) and Beck (PS)**
 - Foundation Board:
 - **Dr. Beck**
 - Program Committee
 - **Dr. M. Farnell**

Congratulations to....

- **Ben Sellers**, M.S. grad student with **Dr. Wamsley**, who received a *Graduate Student Award of Excellence* for his paper, entitled, Feed form and liquid application method effects on feed augering segregation. **R. B. Sellers**^{*1}, **J. Boney**², **C. McDaniel**¹, **J. S. Moritz**², **K. G. S. Wamsley**¹, ¹Mississippi State University, Mississippi State, MS, ²West Virginia University, Morgantown, WV.
- **Tiago Oliveira**, visiting Ph.D. student from Brazil with **Dr. Peebles**, who received a *Graduate Student Award of Excellence* for his poster, entitled, The effects of different enzyme complexes on nutrient digestibility and performance in female broilers. **T. F. B. Oliveira**^{*1,2}, **L. V. Teixeira**¹, **D. E. Peebles**², **A. G. Bertechini**¹, ¹Universidade federal de Lavras, Lavras, MG, Brazil, ²Mississippi State University, Starkville, MS.

Recent Publications:

- **Y. Liang, G.T. Tabler, T.A. Costello, I.L. Berry, S.E. Watkins, Y.V. Thaxton**, 2014. Cooling broiler chickens by surface wetting: Indoor thermal environment, water usage, and bird performance. *ASABE*, Vol 30(2): 249-258.
<http://dx.doi.org/10.13031/aea.30.10103> (for the abstract only); for a copy of the full manuscript, please contact **Dr. Tabler** (ttabler@poultry.msstate.edu)

- **Poultry Science Abstracts 2014:** <http://m.poultryscience.org/Search.aspx> and then search by author name:
 - # 357P The effects of different enzyme complexes on nutrient digestibility, performance, and processing yield in male broilers. L. V. Teixeira¹, **T. F. B. Oliveira**^{*1,2}, **D. E. Peebles**², A. G. Bertechini¹, ¹Universidade federal de Lavras, Brazil, ²Mississippi State University
 - # 358P The effects of different enzyme complexes on nutrient digestibility and performance in female broilers. **T. F. B. Oliveira**^{*1,2}, L. V. Teixeira¹, **D. E. Peebles**², A. G. Bertechini¹, ¹Universidade federal de Lavras, Brazil, ²Mississippi State University
 - # 482P Effects of dietary lysine and methionine supplementation on serum metabolites, hormones, and their relationship with the growth performance of male broilers. **W. Zhai**^{*1}, **E. D. Peebles**¹, **X. Wang**¹, Y. Mercier², ¹Mississippi State University, ²Adisseo France
 - # 131 Effects of dietary lysine and methionine supplementation on the breast meat quality of male broilers. **W. Zhai**^{*1}, M. W. Schilling¹, **E. D. Peebles**¹, Y. Mercier², ¹Mississippi State University, ²Adisseo France
 - # 132 Cost effectiveness of supplemental dietary lysine and methionine for meat yield in male broilers. **W. Zhai**^{*1}, **E. D. Peebles**¹, Y. Mercier², ¹Mississippi State University, ²Adisseo France
 - # 179 Comparative effects of in ovo versus subcutaneous vaccination and pre-placement holding time on early post-hatch broiler chick quality. **E. D. Peebles**^{*1}, T. M. Barbosa², T. S. Cummings², J. Dickson², **S. K. Womack**¹, ¹Department of Poultry Science, Mississippi State University, ²Zoetis, Research Triangle Park, NC.
 - # 49 Effects of commercially available antibiotic alternatives on 0- to 41-d-old male broiler chicken growth performance. **X. Wang**^{*1}, **K. Wamsley**¹, **A. Kiess**¹, **W. Zhai**¹, ¹Mississippi State University
 - # 52 Effects of various antibiotics, anticoccidials, and antibiotic alternative products on gut characteristics and performance using broilers given a 10x live coccidiosis vaccine. **C. Cardenas**^{*1}, **W. Zhai**¹, **K. Wamsley**¹, ¹Mississippi State University
 - # 286P Effects of the raising model on carcass traits and muscle nutrition composition in Landaise geese. **A. Liu**^{*1,2}, J. Zhang¹, J. Liu¹, W. Xi¹, X. Qiu¹, H. Ma¹, **W. Zhai**², ¹Southwest University, Chongqing, China, ²Mississippi State University
 - # 386P Evaluating the impact of dietary mannan-oligosaccharides (MOS) on broiler performance and intestinal microflora. R. A. Silva^{*1}, H. M. Yakout¹, **W. Zhai**¹, **M. B. Farnell**¹, C. S. Sharma¹, **C. D. McDaniel**¹, **A. S. Kiess**¹, ¹Mississippi State University
 - # 482P Effects of dietary lysine and methionine supplementation on serum metabolites, hormones, and their relationship with the growth performance of male broilers. **W. Zhai**^{*1}, **E. D. Peebles**¹, **X. Wang**¹, Y. Mercier², ¹Mississippi State University, ²Adisseo France
 - # 67 Feed form and liquid application method effects on feed augering segregation. **R. B. Sellers**^{*1}, J. Boney², **C. McDaniel**¹, J. S. Moritz², **K. G. S. Wamsley**¹, ¹Mississippi State University, ²West Virginia University
 - # 83 Evaluating the effect of de Man, Rogosa, Sharpe medium and byproducts of Lactobacillus acidophilus on rooster sperm quality. **M. D. Triplett**^{*1}, **C. D. McDaniel**¹, **A. S. Kiess**¹, ¹Mississippi State University
 - # 295P Use of a compressed air foam system to rapidly clean and disinfect a broiler hatchery. V. S. Godoy^{*1}, C. H. Chisholm¹, **A. S. Kiess**¹, **Y. Z. Farnell**¹, **G. T. Tabler**¹, **C. D. McDaniel**¹, **M. B. Farnell**¹, ¹Mississippi State University
 - # 97 Evaluation of compatibility of Salmonella lytic bacteriophage with different antimicrobials and their combinations on reduction of Salmonella in vitro and on chicken breast fillets. **A. T. Sukumaran**^{*1}, **C. S. Sharma**¹, ¹Mississippi State University
 - # 99 Antimicrobial efficacy of carvacrol against Salmonella, Campylobacter, and lactic acid bacteria on turkey breast cutlets stored under modified-atmosphere packaging. **D. V. T. Nair**^{*1}, **C. S. Sharma**¹, ¹Mississippi State University
 - # 264 Prevalence, serotypes, and antibiotic-resistant phenotypes of Salmonella enterica isolates in retail poultry products. **C. S. Sharma**^{*1}, **A. Ates**¹, ¹Mississippi State University

Running Cumulative List of Scientific and Extension Publications, 2014

- **Tom Tabler**, F. Dustan Clark, Jonathan R. Moyle, Yi Liang, **Jessica Wells**, and **Morgan Farnell**, “Windrow Composting Broiler Litter between Flocks,” <http://msucares.com/pubs/publications/p2818.pdf>.
- C.L. Williams, **G.T. Tabler** and S.E. Watkins, 2013. Comparison of broiler flock daily water consumption and water-to-feed ratios for flocks grown in 1991, 2000-2001, and 2010-2011. *J Appl Poultry Research*, 22:934-941. <http://dx.doi.org/10.3382/japr.2013-00767>
- Abstracts from the 2014 IPSF: <http://www.ippexpo.org/ipsf/docs/2014%20IPSF%20Abstracts.pdf>
 - M6 Detection of parthenogenesis in mated quail hens and its impact on fertilization
Priscila Santa Rosa*, **Holly Parker**, **Aaron Kiess**, **Chris McDaniel**
 - M9 Physiological responses of broiler hatchlings to commercial in ovo coccidiosis vaccine administered on days 18.5 and 19.0 of incubation
Adebayo Sokale*, **E. David Peebles**, **Wei Zhai**, Timothy S. Cummings, Christopher . J. Williams
 - M24 Apparent ileal amino acid digestibility (AIAAD) of various animal by-product blends (ABB) in broilers aged 21 and 42 d of age
Cameron Cardenas*, Elizabeth Kim, Bob Hill, **Kelley Wamsley**
 - M36 Effects of limestone particle size in pullet diets on hen performance, bone mineral density and keel bone deformities in aviaries or conventional cages
Pamela Eusebio-Balcazar*, **Mary Beck**, Sheila Purdum
 - M48 Antimicrobial activity of carvacrol against Salmonella on turkey breast cutlets packaged under modified atmosphere
Divek V. T. Nair*, **Chander Shekhar Sharma**
 - M66 Effects of diet type and nutrient density from day 8 to 21 on bone morphology, breaking strength, and mineral density in male broilers
Xi Wang*, **E. David Peebles**, Mark Bricka, **Wei Zhai**
 - T137 Effects of dietary lysine and methionine supplementation on growth performance and meat yield of male broilers
Wei Zhai*, **E. David Peebles**, Wes Schilling, Yves Mercier
 - P205 Effects of the in ovo injection of 25-hydroxycholecalciferol on the yolk characteristics of embryonated broiler hatching eggs
Nayara Pelici*, **Wei Zhai**, **Sharon Womack**, **E. David Peebles**
 - P206 Effects of the in ovo injection of 25-hydroxycholecalciferol on serum calcium and phosphorous concentrations in broiler embryos
Midian Nascimento*, **Wei Zhai**, **Sharon Womack**, **E. David Peebles**
 - P211 Effects of the raising model on semen quality and fertility of male Sichuan White Geese
Anfang Liu*, Mingjun Chen, Jing Zhang, Wang Xi, Jie Liu, Xia Qiu, Hongpeng Ma, Wei Zhai
 - P212 Effects of single nucleotide polymorphism of H-FABP gene on carcass traits in Sichuan White Geese
Anfang Liu*, Shukai Yuan, Jing Zhang, Jie Liu, Xia Qiu, Hongpeng Ma
 - P235 The effect of varying the inclusion of two different anticoccidials into a commercial diet on D0-49 Ross 708 bird performance
Rosana Hirai*, Timothy Cummings, **Kelley Wamsley**
 - P241 Dietary Alterations with Live Coccidiosis Vaccine (LCV) Response and D0-46 Ross 708 Broiler Performance
Robert Sellers*, **Wei Zhai**, Carla Price, Phil Stayer, **Tom Tabler**, **Kelley Wamsley**.
- **Tom Tabler**, **Morgan Farnell**, **Jessica Wells**, **Haitham Yakout**, and Yi Liang, “Controlling Rodents on the Poultry Farm,” <http://msucares.com/pubs/publications/p2824.pdf>
- **Tom Tabler**, news release on litter sampling: <http://msucares.com/news/releases/14/nr20>.

- **Tom Tabler**, F. Dustan Clark, Jonathan R. Moyle, **Morgan Farnell**, and **Jessica Wells**, “Managing Manure from the Backyard Flock,” <http://msucares.com/pubs/infosheets/is1973.pdf>
- **H. M. Parker**, **A. S. Kiess**, **P. Santa Rosa**, and **C. D. McDaniel**, 2014. Selection for the parthenogenetic trait in Chinese Painted Quail (*Coturnix chinensis*) affects hatchability parameters. Poultry Science 93(3): 664-672 <http://dx.doi.org/10.3382/ps.2013-03527>
- **Tom Tabler**, Dustan Clark, Jonathan R. Moyle, **Jessica Wells**, and **Morgan Farnell**, “Composting Manure from Small Poultry Flocks,” <http://msucares.com/pubs/infosheets/is1975.pdf>
- **News Release - Tabler and Farnell:** <http://www.wcvi.com/wordpress/okolona-poultry-farmer-learns-from-msu>
- **Tom Tabler**, F. Dustan Clark, Jonathan R. Moyle, **Morgan Farnell**, and **Jessica Wells**, “Deep Pectoral Myopathy (Green Muscle Disease) in Broilers,” <http://msucares.com/pubs/infosheets/is1976.pdf>.4
- Liu, X., J.A. Byrd, **M. Farnell**, and C.A. Ruiz-Feria, 2014. Arginine and vitamin E improve the immune response after a Salmonella challenge in broiler chicks, Poultry Sci. 93:882-890. <http://dx.doi.org/10.3382/ps.2013-03723>.
- **Tom Tabler**, **Morgan Farnell** and **Jessica Wells**, “Poultry Water Line Sanitation,” <http://msucares.com/pubs/publications/p2839.pdf>.
- Jonathan Moyle, Jennifer Rhodes, Brigid McCrea, **Tom Tabler**, and Dustan Clark, “Rodent Control on Small Poultry Farms,” www.poultry.msstate.edu/pdf/extension/rodents.pdf.