



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. Tabler** visited a Sanderson Farms Grower at Tylertown to assess management issues, Feb 2 and March 11.
- **Dr. Tabler** assessed farms for BankPlus at Louin (Feb. 4), Mt Olive (Feb. 8), Wesson (Feb 22), and Seminary (March 9).
- **Drs. Beck** and **Tabler** met with Peco Foods personnel to discuss sustainability assessments, March 8.
- **Dr. Wells** visited Sanderson Farms Corporate Offices to discuss student recruitment issues and support, March 12
- **Dr. Tabler** visited a Mar-Jac Farm in Waynesboro to assess tornado damage, March 18
- **Dr. Tabler** visited a Mar-Jac Farm in Richton to assess weight and feed conversion, March 24
- **Dr. Beck** participated in the Academic Department Heads Executive Council virtual meeting, March 26
- **Drs. Kiess, Wamsley, Tabler** and **Beck** met with a representative of AHPharma, Inc., to discuss various research options, March 29
- **Dr. Beck** participated in a Poultry Science Association Foundation Zoom meeting, March 30.

Kudos and Congratulations to...

- **Courtney Fancher**, MS grad student with **Dr. Sukumaran**, on the successful defense of her Master's thesis, March 12.

Congratulations and Best Wishes to...

- **Richard Hill**, on his retirement after 15 years as a member of the Poultry Farm Research Crew, April 1.

Recent Publications...

- **Tom Tabler**, "Cooling Poultry Flocks During Hot Weather," <https://m.info.boehringer-ingelheim.ca/webApp/TheFeedMar2021#colleague-commentary>
- Xiao Yang, Yang Zhao, Hairong Qi, and **Tom Tabler**, "Characterizing sounds of different sources in a commercial broiler house," *Animals* 2021, <https://doi.org/10.3390/ani11030916>

Cumulative List of Scientific and Extension Publications, 2021

- **Claudia D. Castañeda**, Dana K. Dittoe, **Kelley G.S. Wamsley**, **Christopher D. McDaniel**, Alfred Blanch, Dorthe Sandvang, **Aaron S. Kiess**, “In ovo inoculation of an Enterococcus faecium-based product to enhance broiler hatchability, live performance, and intestinal morphology,” Poultry Sci., 2020; Vol. 99:11:6163-6172. <https://doi.org/10.1016/j.psj.2020.08.002>
- Pratik Parajuli, Yang Zhao, **Tom Tabler**, “Evaluating avoidance distance and fleeing speed of broilers exposed to aerial systems,” 2020 Int. J. Agric & Biol Eng. Vol 13:6:34 <https://ijabe.org/index.php/ijabe/article/view/5591/pdf>
- Yi Liang and **G. Tom Tabler**, “Litter management for broiler production,” U of Arkansas Extension, <https://www.uaex.edu/publications/pdf/FSA1098.pdf>

Recent Publications and Media...

Abstracts presented at the 2021 Virtual IPSF (abstracts can be found at

https://poultryscience.org/files/galleries/2021_IPSF_Abstracts.pdf

- **Hudson Thames**^{*GS}, Courtney Fancher, Mary Gates Colvin, Mika McAnally, Emily Tucker, Nikhil Nuthalapati, Li Zhang, Aaron Kiess, Thu Dinh, **Anuraj Sukumaran**, “Prevalence of Salmonella, Campylobacter, and spoilage bacteria on broiler meat at different stages of commercial poultry processing,”
- **Courtney Fancher**^{*GS}, **Hudson Thames**, Mary Gates Colvin, Li Zhang, Nikhil Nuthalapati, Aaron Kiess, **Anuraj Sukumaran**, “Prevalence of Clostridium perfringens in no antibiotics ever broiler farms in Mississippi”
- **Sabin Poudel**^{*1GS}, Sadie White², Tianmin Li¹, Xue Zhang², Aaron Kiess¹, Li Zhang¹, “Comparison of DNA extraction methods in poultry litter and fecal samples to identify pathogenic bacteria using real-time PCR
- **Jonathan Moon**^{*1GS}, Jan DuBien¹, Reshma Ramachandran¹, Yi Liang², Tom Tabler¹, “Effect of sprinkling on water conservation, house environment, and broiler performance
- **Ishab Poudel**^{*GS}, Aaron Kiess, Mary Beck, Pratima Adhikari, “The effects of monochromatic light on the growth, egg production, egg quality, behavior, and hormone concentration of Hy-Line® W-36 laying hens
- **Victoria Williams**^{*1GS}, Kelley Wamsley¹, Kevin Roberson², Pratima Adhikari¹, “Effects of varying protein/amino acid level of diets with or without protease on 30-50 wk layer performance and egg production parameters
- Ayoub Mousstaid^{*1GS}, William Miller², Katie Elliott¹, Saman Fatemi¹, Abdulmohsen Alqhtani¹, E. David Peebles, “Effects of the in ovo and dietary administration of L-ascorbic acid (L-AA) on the concentrations of L-AA in the eyes and nitric oxide in the serum of Ross 708 broilers
- **Andrew Brown**^{*1GS}, Jason Lee², Kelley Wamsley, “Determining the optimal digestible isoleucine to lysine ratio in Ross x Ross 708 male broilers from 14 to 28 days of age
- **Sabin Poudel**^{*1}, Tianmin Li¹, Mark Arick², Chuan Hsu², **Aaron Kiess**¹, Li Zhang¹, “Comparative whole-genome analysis of Campylobacter jejuni strains isolated from retail Chicken in Mississippi”
- **Saman Fatemi**^{*1}, Katie Elliott¹, April Levy², Abdulmohsen Alqhtani¹, **Ayoub Mousstaid**¹, David Peebles, “Negative impact of a disproportionately high level of dietary 25-hydroxyvitamin D3 on the performance and meat yield of Ross 708 broilers
- **Tianmin Li**^{*1GS}, **Anuraj Theradiyil Sukumaran**¹, Wen-Hsing Cheng², **Aaron Kiess**¹, Li Zhang, “Phenotypic and genotypic antimicrobial resistance characteristics of avian pathogenic Escherichia coli isolated from broilers
- **Reshma Ramachandran**^{*}, Chuan-Yu Hsu, **Anuraj Theradiyil Sukumaran**, Li Zhang, “Validation of probe-based multiplex real-time PCR assays for the rapid and accurate detection of avian pathogenic Escherichia coli
- **Nathaniel Miller**^{*1UG}, **Ayoub Mousstaid**¹, Barr Oakes¹, Seyed Fatemi¹, Abdulmohsen Alqhtani¹, Katie Elliott¹, William Miller², Patrick Gerard³, E. Peebles, “The effects of supplementary in ovo and dietary vitamin C on broiler performance through 2 weeks posthatch”