



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** met with personnel at BankPlus to discuss poultry loans through the Small Business Association, Jan. 3.
- **Drs. Sukumaran, Zhang, and Tabler** met with industry personnel to discuss a lighting project, Jan. 6
- **Dr. Tabler** gave an invited presentation, "Poultry Outlook," to the 2020 Agricultural and Rural Outlook Conference, Jan. 7
- **Dr. Tabler** met with Koch Foods personnel to discuss environmental issues, Jan. 8
- **Dr. Beck** participated in the quarterly MS Board of Animal Health and met BankPlus personnel for lunch discussions in Jackson, Jan. 8.
- **Dr. Tabler** visited a Peco breeder farm at Noxapater, Jan 16.
- **Dr. Tabler** visited a Sanderson grower farm at Ellisville, Jan 17.
- **Dr. Beck** participated in an SPSS financials conference call, Jan 20.
- **Dr. Tabler** presented, "Current Issues Impacting the Mississippi Poultry Industry," at the MS Bankers' Association meeting, Jackson, Jan 23.
- **Dr. Tabler** traveled to QC Supply, Waynesboro, and Taylorsville Poultry, Taylorsville, Jan 24.
- **Drs. Beck, Adhikari, Kiess, Peebles, Tabler, Wamsley, Wells, and Zhang; Dr. Nuthalapati;** and 10 students, participated in the *2020 International Poultry Scientific Forum and IPPEXPO* in Atlanta, Jan 27-28;
 - **Dr. Beck**, as Executive Secretary of the Southern Poultry Science Society, oversaw the Forum and the SPSS Business Meeting;
 - **Drs. Adhikari, Wamsley, Zhang, and Nuthalapati** chaired sessions and judged student presentations;
 - **Drs. Tabler and Wamsley** were interviewed by *Poultry Health Today*.
 - **Dr. Wells** supervised the following undergraduate students who participated in the USPoultry College Student Program: **Mason Brock, Danya Brown, Tanner Gallik, Thomas Hedge, Caleb Marshall, Chris Carter, Kelsie Daniels, Krysta Drummond, Josie Gamble, Savannah Stapleton, Richard Lopez, Logan Morris, Ethan Sweatman, Farley Fondren, Logan Leblanc, JT Graves, CJ Hunter**
 - **MSSTATE Presentations** were as follows; journal citations will be available later in the spring:
 - **Tomi Obe**, Rmam Nannapaneni, Wes Schilling, **Li Zhang, Aaron Kiess**, "Mode of persistence and antibiotic resistance of Salmonella isolates from poultry processing equipment."

- **Ishab Poudel, Christopher McDaniel, M. Schilling, Pratima Adhikari,** “Effects of split feeding limestone particle size ratios on egg production, egg quality, and eggshell strength of White Leghorn W-36 hens in the late production phase.”
- **Bo Zhang, Sabin Poudel, Linan Jia, Wei Zhai,** “Effects of dietary amino acid and metabolizable energy reduction on growth performance and economic return of Ross 708 broilers.”
- **Andrew Brown, Jason Lee, Kelley Wamsley,** “Determining the digestible isoleucine requirement of Ross x Ross 708 male broilers from 0 to 18 days of age.”
- **Linan Jia, Sabin Poudel, Wei Zhai,** “Eimeria challenge and feed additives affected broiler woody breast incidence.”
- **Courtney Ennis, Curran Gehring, Mike Bedford, Craig Wyatt, Kelley Wamsley,** “Response of Ross x Ross 708 male broilers fed varying phytase enzyme and activity during d 0-14.”
- **Saman Fatemi, Katie Elliott, Abdulmohsen Alqhtani, Ayoub Amousstaaid, Abiodun Bello, April Levy, David Peebles,** “Improvement in the performance and inflammatory responses of Ross 708 broilers when injected in ovo with various forms of vitamin D₃.”
 - **NOTE: This presentation received a Certificate of Excellence for scientific merit and quality of presentation.**
- **Tianmin Li, Sadie White, Nikhil Nuthalapati, Anura Sukumaran, Aaron Kiess, Li Zhang,** “The prevalence and antimicrobial resistance properties of Campylobacter in Mississippi poultry.”
- **Sadie White, Tianmin Li, Sabin Poudel, Aaron Kiess, Li Zhang,** “Comparison of four bacterial DNA extraction methods in poultry litter and fecal sample.”
 - **NOTE: This presentation received an Undergraduate Certificate of Participation.**
- **Courtney Fancher, Hudson Thames, Alyssa Easterling, Alexis Dillender, Nikhil Nuthalapati, Li Zhang, Aaron Kiess, Thu Dinh, Anuraj Sukumaran,** “Influence of season and age of flock on the virulence gene profiles of Escherichia coli isolates from “no antibiotics ever” commercial broiler farms and their antibiotic susceptibility.
- **Milan Sharma, Dima White, Woo Kim, Pratima Adhikari,** “Effects of housing environment and laying hen strain on tibia and femur bone properties.”
 - **NOTE: This presentation received a Certificate of Excellence for scientific merit and quality of presentation.**
- **Milan Sharma, Li Zhang, Aaron Kiess, Pratima Adhikari,** “Housing environment and laying hen strain impacts on cloacal microbiology and incidence of avian pathogenic Escherichia coli (APEC) in the late phase of production.”
- **Courtney Ennis, Curran Gehring, Mike Bedford, Craig Wyatt, Kelley Wamsley,** “Effects of varying phytase enzyme and total activity on phytate degradation and nutrient digestibility of young male Ross x Ross 708 broilers.”
- **Abdulmohsen Alqhtani, Saman Fatemi, Katie Elliott, Ayoub Mousstaaid, Abiodun Bello, April Levy, David Peebles,** “Increased breast meat yield of Ross

709 broilers in response to the in ovo injection of various forms of vitamin D₃.”

- **Sabin Poudel, Wei Zhai**, “Effects of riboflavin and *Bacillus subtilis* on blood components of male broiler with or without coccidial challenge.”
- **Carley Rhoads, Courtney Ennis, Andrew Brown, Pratima Adhikari, Tom Tabler, A. Elzind, Kelley Wamsley**, “Assessment of novel water treatment equipment (H2Oelite) on broiler performance, tibia ash and mineral digestibility.”
 - **NOTE: This presentation received an Undergraduate Certificate of Participation.**
- **Jonathan Moon, Jan DuBien, Andrew Brown, Yi Liang, Tom Tabler**, “Water conservation and production benefits of sprinkling broilers.”