



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.

Update on Poultry Science during the COVID-19 situation:

- ***After an extended Spring Break, March 16-20, all classes went online for the duration of the Spring semester.***
- ***Critical staff began rotating on campus and eventually forwarded all phones to cell phones and began working remotely to the extent possible.***
- ***Essential farm research support staff were divided into shifts, working separately and without contact between the shifts and with remote supervision.***
- ***Critical research was allowed to continue, with new research postponed for now.***
- ***Faculty and staff are meeting weekly to discuss departmental topics and touch base on strategies for going forward in uncertain times.***

Some specific activities:

- ***Dr. Beck*** participated in a Microsoft Teams meeting with other CALS/CFR department heads about options for expanding summer school offerings, April 2
- ***Dr. Tabler*** participated in a Zoom meeting with the Arkansas/Cornell/USDA grant group, April 3
- ***Drs. Wamsley and Beck and Mr. Moon*** participated in a Zoom meeting with Tyson Foods leadership to discuss feed mill renovations, April 7.
- ***Dr. Beck*** participated in the quarterly MS Board of Animal Health meeting via Zoom, April 8.
- ***Dr. Beck*** participated in a Web-Ex meeting with the Board of the Starkville-MSU Symphony, April 9.
- ***Drs. Wamsley and Beck and Mr. Moon*** participated in a Go-To-Meeting conference with WL Port-Land to discuss feed mill renovations, April 14.
- ***Dr. Wells and Mrs. Christensen*** awarded 2021-22 scholarships to incoming and current undergraduate students, April 15.

We wish all of you and your families the best possible health and safety in this difficult time

We are thinking so much of our friends and relatives who suffered damage in the Easter tornados

Cumulative List of Scientific and Extension Publications, 2020

- **Abstracts of Presentations at the IPSF, Atlanta, January 27-28, 2020; these can be accessed at www.ippexpo.org/ispf:**
- **MSSTATE Poultry Science Presentations** were as follows; actual 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, Apri 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.”
- **Tom Tabler**, Jonathan R. Moyle, Shawna Weimer, **Jonathan Moon**, and **Jessica Wells**, “Poultry Farm Insurers Expect Proper Earth Grounding,”
http://extension.msstate.edu/sites/default/files/publications/publications/P3427_web.pdf
 - **Tom Tabler**, “Sprinklers Cooling Benefits in Poultry Houses,”
https://en.engormix.com/MA-poultry-industry/videos/sprinklers-cooling-benefits-poultry-houses-t58106.htm?utm_source=notification&utm_medium=email&utm_campaign=2-1-0&smId=dc221e1c14965e8739bf705a7104cfc5&src_ga=1
 - **Tom Tabler**, “Gangrenous Dermatitis in Broilers,” https://en.engormix.com/MA-poultry-industry/videos/gangrenous-dermatitis-broilers-t58317.htm?utm_source=notification&utm_medium=email&utm_campaign=2-1-0&smId=60481b605de89fd22c3d267a97b6d174&src_ga=1
 - **Tom Tabler**, “Rotary Drum Composting of Poultry Mortalities,”
https://en.engormix.com/MA-poultry-industry/videos/rotary-drum-composting-poultry-mortalities-t58318.htm?utm_source=notification&utm_medium=email&utm_campaign=2-1-0&smId=609cb340ff134465ff7d309e5b1ee7cf&src_ga=1
 - **Tom Tabler**, Yi Liang, **Jonathan Moon**, and **Jessica Wells**, “NAE Production Challenges Poultry Industry on Several Fronts,”
http://extension.msstate.edu/sites/default/files/publications/publications/P3428_web.pdf