



## 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** and **Mr. Moon** participated in a conference call on sprinklers, March 12.
- **Dr. Beck** participated in a conference call with the Starkville-MSU Symphony Board, March 16
- **Dr. Beck** participated in a Microsoft Teams online meeting with the CALS/CFR Deans and Department Heads, March 17.
- **Drs. Wamsley** and **Beck** and **Mr. Moon** participated in a Zoom conference with 20 members of the newly formed Feed Mill Advisory Board, all working remotely, to discuss requirements and timeline for moving the planned renovation ahead, March 19.

#### *Congratulations to...*

- **Tomi Obe**, Ph.D. grad student with **Dr. Kiess**, who successfully defended her dissertation, March 11.
- **Claudia Castañeda**, Ph.D. grad student with **Dr. Kiess**, who successfully defended her dissertation, March 18.

#### *Recent Publications:*

- **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](http://extension.msstate.edu/sites/default/files/publications/publications/P3428_web.pdf)

*Our annual Crawfish Boil has been postponed, of course, because of the current situation with COVID-19; we will reschedule when we can.*

*All MSU classes are online only from now through the end of the semester; faculty have been working diligently to make the materials both available and as meaningful as possible in this new environment.*

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

**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](http://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 D<sub>3</sub>.”
    - **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 Mousstaid**, 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 D<sub>3</sub>.”
  - **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 (H<sub>2</sub>Oelite) 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](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](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](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](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)