



## 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.*

- **PO Faculty and Staff** have been meeting weekly via Zoom to discuss ongoing strategies for coping during the COVID-19 situation and have also met weekly via Zoom for a more informal and relaxed social hour.
- **Drs. Beck, Tabler, and Wells** and **Mrs. Christensen** participated in a Zoom Extension COVID-19 meeting, May 1.
- **The Department** hosted a virtual Senior Social to honor and recognize our graduating students, May 1. The following with their post-graduation plans were recognized in the virtual send-off:
  - **Shelby Cole** - graduate school
  - **Malik Davis** - Sanderson Farms
  - **Josie Gamble** - MSU CVM with focus on poultry medicine
  - **John Tyler "JT" Graves** - Cal-Maine Foods
  - **Heath Grimes** - family business
  - **Alexa Harrison** - seeking employment in the poultry industry
  - **Alexandra Hovan** - UGA CVM
  - **Marissa Powell** - graduate school in poultry science with **Dr. Wells**
  - **Neil Smith** - Cal-Maine foods
  - **Christian Stanley** - graduate school
  - **Peyton Taylor** - graduate school in poultry science with **Dr. Wells**
  - **Alexis Turnipseed** - graduate school at MSU
  - **Elizabeth Usery** - Ross University CVM
  - **Ember West** - MSU CVM with focus on avian medicine
  - **Stone Whitener** - not reported
  - **Milan Sharma** - MS with **Dr. Adhikari** - PhD program, poultry nutrition, UGA

#### *Recent Publications and Media:*

- **Tom Tabler**, Helping growers navigate the NAE maze;  
<https://www.dpichicken.org/media/docs/TIMELY-TOPICS-March-2020.pdf>
- **Drs. Wells** and **Tabler**, Mississippi State Chicken Chat;  
[https://www.youtube.com/channel/UChdrpk7h2meKontdypmRniQ?view\\_as=subscriber](https://www.youtube.com/channel/UChdrpk7h2meKontdypmRniQ?view_as=subscriber)
- **Tom Tabler**, Yi Liang, Jonathan R. Moyle, Shawna L. Weimer, **Jonathan Moon**, and **Jessica Wells**, "Characteristics of Successful Poultry Growers,"  
[http://extension.msstate.edu/sites/default/files/publications/publications/P3446\\_web.pdf](http://extension.msstate.edu/sites/default/files/publications/publications/P3446_web.pdf)
- Jonathan Moyle, Maegan Perdue, **Dr. Tom Tabler**, Dr. Shawna Weimer, Jennifer Rhodes, "Hatching Eggs at Home,"

<https://extension.umd.edu/learn/publications/hatching-eggs-home>

- **Tom Tabler**, Jonathan R. Moyle, Shawna L. Weimer, **Jonathan Moon**, and **Jessica Wells**, “Backyard Chickens and COVID-19,” [http://extension.msstate.edu/sites/default/files/publications/publications/P3447\\_web.pdf](http://extension.msstate.edu/sites/default/files/publications/publications/P3447_web.pdf)
- **NewsRelease on Easter Tornadoes from MSU Extension**, <https://www.wattagnet.com/articles/40055-tornadoes-hit-least-90-mississippi-poultry-houses>
- **Tom Tabler**, Natalie Armour, **Jonathan Moon**, and **Jessica Wells**, “Infectious Bronchitis in Commercial Chickens,” [http://extension.msstate.edu/sites/default/files/publications/publications/P3449\\_web.pdf](http://extension.msstate.edu/sites/default/files/publications/publications/P3449_web.pdf)

**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 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 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)
- **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)