



## 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.*

- **Drs. Tabler and Sadler, Mr. Moon, and Farley Fondren** attended the MS Poultry Health Seminar in Jackson, Feb. 12.
- **Dr. Beck** participated in a conference call with folks from the processing advisory board to discuss an industry-based seminar for CALS students in April, Feb. 14.
- **Dr. Wells** hosted our annual Academic Insight luncheon for admitted but not yet confirmed students, Feb. 15. Also participating were **Drs. Adhikar, Sukumaran, Tabler, Wamsley, Zhang, and Ramachandran**, and undergrads **Alexandra Hovan, Josie Gamble, Shelby Cole, Kelsie Daniels, Marissa Powell, Peyton Taylor, and Elizabeth Usery**.
- **Drs. Wamsley and Tabler** participated in a conference call with a company to discuss biofilm mitigation, Feb. 17
- **Drs. Wamsley and Beck and Mr. Moon** participated in a conference call with WL Port-Land to discuss the upcoming Feed Mill Advisory Board meeting in Nashville, Feb. 18.
- **Dr. Beck** attended the Nebraska Poultry Industries annual convention and participated on a panel to discuss educational opportunities for poultry workforce development in Columbus, NE, Feb. 18-19.
- **Dr. Tabler and Mr. Moon** attended the North MS R&E Center Producer Advisory Council meeting in Verona, where **Mr. Moon** also presented his research poster on sprinklers in broiler production scenarios, Feb. 20.
- **Dr. Tabler** visited a Sanderson Farms grower in Magnolia, MS, to discuss water quality issues, Feb. 21.

### *Save the Date*

*for our 74<sup>th</sup> Annual Super Bulldog Weekend  
CRAWFISH BOIL*

*Thursday, April 9, 2020*

*3:00-6:00pm (in time for baseball vs. Ole Miss!)*

*Behind Hill Poultry Science*

### *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.”