



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. Beck** participated in the annual Animal/Dairy/Poultry Science Department Heads meeting in Washington, DC, with representatives of major funding agencies, Feb. 24-26.
- **Dr. Tabler** attended the Extension PAC meeting for the Coastal R&E Center in Biloxi, Feb. 27.
- **Dr. Sukumaran** participated in a conference call with Sterilex to discuss research ideas, Feb. 27
- **Drs. Adhikari** and **Kiess** participated in a meeting with Synexis to discuss research ideas, Feb. 28.
- **Drs. Zhang, Sukumaran, and Tabler** participated in a meeting with Paul Jamerson to discuss research ideas, Mar 2.
- **Dr. Tabler** attended a PAACO training even with Peco Foods, Mar 3.
- **Dr. Beck** participated in the CALS Joint Advisory Board dinner at the M Club, Mar 5.
- **The Department** hosted Poultry Science Advisory Board members (Steve McLaurin, Sherman Miller, Ryn Laster, Kenny Williamson, Mark Leggett) in Hill Poultry Science, Mar 6.

Congratulations to...

- **Milan Sharma**, MS graduate student with **Dr. Adhikari**, on the successful defense of his thesis research, March 3.
- **Steve McLaurin**, poultry science alumnus, on being honored as the 2020 Poultry Science Distinguished Fellow at the CALS Joint Advisory Board Meeting, March 5-6.

Recent Publications:

- **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

Save the Date
for our 74th 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
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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 Mousstaid**, Abiodun Bello, Apri Levy, **David Peebles**, “Increased 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.”