



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. Beck and Tabler, Mr. Moon**, and undergrad major **Cameron Sanders** met with personnel from Peco Foods to discuss bird performance, March 13.
- **Dr. Tabler** visited a Sanderson grower at Monticello to discuss well water treatment options, March 15.
- **Mrs. Wells** and **Dr. Tabler** participated in a 4-H Poultry training for Franklin County, Meadville, MS, March 19.
- **Drs. Wamsley** and **Beck** participated in an MPA Scholarship Committee meeting, March 19.
- **Dr. Beck** participated on a review team to provide a 6-year review of the Department of Poultry Science at Auburn University, March 20-22.
- **Dr. Tabler** participated in a CERT team meeting on campus, March 22.
- The Department participated in an Active Shooter training session, March 23.
- **Mrs. Wells** conducted the Hatch-out Program at Vardamen Elementary School, March 19-23.

Recent Publication:

- **Reshma Ramachandran** and **CD McDaniel**, Parthogenesis in birds: A review. Reproduction, The Journal of the Society for Reproduction and Fertility. Advance Publication. 19 March 2018. <http://dx.doi.org/10.1530/REP-17-0728>;
<http://www.reproduction-online.org/content/early/2018/03/19/REP-17-0728.full.pdf+html>

Save the Date

***Poultry Science Annual Crawfish Boil
Friday, April 20, 3-6 p.m.
Super Bulldog Weekend, MSU Baseball v Arkansas, 6:30pm
Hill Poultry Science Bldg, Mississippi State***



Cumulative List of Scientific and Extension Publications, 2018

New at end of 2017:

- **DK Dittoe, CD McDaniel, T. Tabler and AS Kiess**, 2017. Windrowing poultry litter after a broiler house has been sprinkled with water. J of Appl. Poult. Res. <http://dx.doi.org/10.3382/japr/pfx034>
- F. Dustan Clark, Douglas Aldridge, **Tom Tabler**, and Jon Moyle, Poultry Farm Winterization Suggestions, Dec. 2017. https://poultry-science.uark.edu/_resources/PDFs/AvianAdvice_December2017.pdf
- **Abstracts of the following presentations at the International Poultry Scientific Forum, Atlanta, GA, Jan 29-30 are available at:**
<http://www.ippexpo.org/ipsf/docs/IPSF-Abstract-Book.pdf>
 - **Undergraduate Student Presentations at IPSF, Atlanta, GA, Jan 29**
 - **Tiffani Allen***, **Aaron Kiess**, **Christopher McDaniel** Broiler hatchability following in ovo injection of *Lactobacillus animalis* or *Bacillus licheniformis*
 - **Chrysta Beck***, **Kelley Wamsley**, **Christopher McDaniel**, **Aaron Kiess** 21 day broiler performance after in ovo injection of individual or multiple probiotic bacteria
 - **Graduate Student Presentations at IPSF, Atlanta, GA, Jan 29**
 - **Reshma Ramachandran***, **Christopher McDaniel**, Live pigeon pox virus increases parthenogenesis of in vitro cultured Chinese painted quail eggs
 - **Reshma Ramachandran***, Midian Nascimento dos Santos, **Christopher McDaniel** Live pigeon pox virus vaccination increases parthenogen size in virgin Chinese painted quail (*Coturnix chinensis*)
 - **Andrew Brown***, Omar Gutierrez, **Mark Lemons**, Staci Loop, **Kelley Wamsley** Effects of energy density and enzyme inclusion strategy on 0-60 d Ross x Ross 708 male broiler performance, foot pad dermatitis, woody breast severity, and breast yield.
 - **Courtney Ennis***, **Kelley Wamsley** Growth performance and amino acid digestibility coefficients of broilers fed vegetarian versus conventional diets reared in a research and commercial setting during a 62 day grow-out
 - **Note: Courtney received an Award of Excellence for scientific content and quality of presentation for her poster presentation.**
 - **Rosana Hirai***, Leonel Mejia, Cesar Coto, Justina Caldas, **Christopher McDaniel**, **Kelley Wamsley** Determining the digestible lysine requirement of Cobb MV Å~ Cobb 500 male broilers during the first fourteen days of age
 - **Rosana Hirai***, Leonel Mejia, Cesar Coto, Justina Caldas, **Christopher McDaniel**, **Kelley Wamsley** The impact of feeding varying starter digestible lysine levels to Cobb MV Å~ Cobb 500 male broilers on growth performance and processing yields
 - **Saman Fatemi***, **Katie Collins Elliott**, Abiodun Bello, **Oluwaseun Durojaye**, Haijun Zhang, Bradley Turner, **E. David Peebles** Effects of in ovo-injected vitamin D3 sources on eggshell temperature and the early post-hatch performance of Ross 708 broilers
 - **Seyed Fatemi***, Haijun Zhang, **Katie Elliott**, **Oluwaseun Durojaye**, **E. David Peebles** Effects of in ovo injection of L-ascorbic acid on early

growth performance and systemic antioxidant capacity in broiler chickens

- **Abdulmohsen Alqhtani***, Tomi Obe, Christopher McDaniel, Aaron Kiess Identifying new antimicrobials that may improve broiler litter quality
- **Bo Zhang***, Kacey O'Donnell, Xi Wang, Wei Zhai Effects of antibiotics and probiotic additives on the intestinal morphology of d 28 male broilers
- **Kacey O'Donnell***, Wei Zhai Effects of Eimeria challenges and dietary additives on mortality and growth performance of broilers
 - *Note: Kacey received an Award of Excellence for scientific content and quality of presentation for her oral presentation*
- **Claudia Castaneda***, Dana Dittoe, Kelley Wamsley, Christopher McDaniel, Alfred Blanch, Dorthe Sandvang, Aaron Kiess Discovering the optimal concentration of Gallipro Hatch® that enhances broiler hatchability and live performance
- **Dana Dittoe***, Claudia Castaneda, Kelley Wamsley, Chris McDaniel, Alfred Blanch, Dorthe Sandvang, Aaron Kiess Changes to the gastrointestinal tract and yolk sac of broilers previously in ovo injected with different concentrations of Gallipro Hatch®
- **Faculty Presentations at IPSF, Atlanta, GA, Jan 29**
 - **Katie Elliott**, Scott Branton, Jeffrey Evans, Spencer Leigh, Elizabeth Kim, Hamed Olanrewaju, Gregory Pharr, Sharon Heins-Miller, Donald McIntyre, Hillary Pavlidis, **Edgar Peebles*** Production and humoral immune effects of dietary Original XPC in layer pullets challenged with Mycoplasma gallisepticum
 - **E. Peebles***, Hamed Olanrewaju, Scott Branton, Jeffrey Evans, Spencer Leigh, Elizabeth Kim, Gregory Pharr, **Katie Elliott** Blood variables of commercial egg-laying pullets following a field-strain Mycoplasma gallisepticum challenge
- **MN dos Santos, R Ramachandran, AS Kiess, KGS Wamsley, CD McDaniel, 2018.** Impact of in vitro inoculation and dietary supplementation with Bacillus subtilis on sperm quality of aged White Leghorn roosters, J. of Appl. Poult. Res.
<https://doi.org/10.3382/japr/pfx072>