



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. Kiess and Beck**, assisted by **Mr. Moon** and **Tomi Obe** (PhD grad student with **Dr. Kiess**) hosted the Processing Advisory Group for meetings and processing plant upgrade progress, June 21-22.
- **Mrs. Wells** held orientation sessions for incoming students, June 19, 21, 26, 27, and 29.
- **Mrs. Christensen** oversaw the North MS 4-H Cook-out Contest at Winona, June 26.
- **Mrs. Wells** oversaw the South MS 4-H Cook-out Contest at Hattiesburg, June 27.
- **Drs. Tabler and Beck** met with the MS Commissioner of Agriculture and Commerce to discuss response protocols for Avian Influenza; and **Dr. Beck** led a driving tour of the Poultry Research Center, June 28.
- **Mrs. Wells** conducted the State 4-H Cook-out Contest at Hill Poultry Science, July 2.
- **Dr. Beck** participated in a Zoom meeting of the University of Nebraska-Lincoln Poultry Team, July 2.
- **Dr. Tabler**, accompanied by **Dr. Zhang**, visited the Durham Company in Forest, July 2.
- **Dr. Tabler**, accompanied by **Dr. Zhang** and **Andrew Brown** (MS grad student with **Dr. Wamsley**) visited a Peco breeder farm at Noxapater, July 3.

Welcome to...

- **Dr. Li Zhang**, who joined our faculty as a Research Assistant Professor, July 1, 2018.

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 IPSE, Atlanta, GA, Jan 29**
 - **Katie Elliott**, Scott Branton, Jeffrey Evans, Spencer Leigh, Elizabeth Kim, Hammed 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***, Hammed 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>
- **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>
- **Tom Tabler**, **Jessica Wells** and Nikki Jefcoat, "Infectious Bursal Disease (Gumboro) in Backyard Chickens," Publication 3211 (**POD-04-18**) http://extension.msstate.edu/sites/default/files/publications/publications/P3211_web.pdf
- **Tom Tabler**, Jonathan R. Moyle, F. Dustan Clark, Yi Liang, and **Jessica Wells**, "Setback Distances for Poultry Houses," Publication 3209 (POD-03-18). http://extension.msstate.edu/sites/default/files/publications/publications/P3209_web.pdf
- **Tom Tabler**, "Practice Makes Perfect – Backyard biosecurity critical to flock health," <http://www.chickenwhisperermagazine.com/articles/practice-makes-perfect->

[backyard-biosecurity-critical-flock-health](#). April 2, 2018

- **Tom Tabler**, “Proper water pressure, volume essential to good flock performance,” <http://www.thepoultrysite.com/articles/3787/proper-water-pressure-volume-essential-to-good-flock-performance/>. April 3, 2018.
- **R. Ramachandran**, M. Nascimento dos Santos, H.M. Parker, and **C.D. McDaniel**, Parental sex effect of parthenogenesis on progeny production and performance of Chinese Painted Quail (*Coturnix chinensis*); *Theriogenology*, Volume 118, 15 September 2018, Pages 96-102; <https://www.sciencedirect.com/science/article/pii/S0093691X18302474>
- **R. Ramachandran**, M. Nascimento dos Santos, H.M. Parker, and **C.D. McDaniel**, Roles of the sire and dam quail in egg, yolk, albumen, and shell weight alterations due to the parthenogenetic trait. *Theriogenology*, Volume 118, 15 September 2018, Pages 103–109; <https://www.sciencedirect.com/science/article/pii/S0093691X18302462>
- News release featuring **Dr. Tabler** written by Bonnie Coblentz, MSU-ES, on keeping backyard chickens safe: <http://extension.msstate.edu/news/feature-story/2018/use-precautions-keep-backyard-chickens-safe>
- **Tom Tabler**, “Proper water pressure, volume essential to good flock performance,” https://poultryhealthtoday.com/proper-water-pressure-volume-essential-to-good-flock-performance/?utm_source=Poultry+Health+Today+Newsletter&utm_campaign=f38c6acf08-News+you+might+have+missed+PHT+12+19+2017+COPY+01&utm_medium=email&utm_term=0_5ac605299a-f38c6acf08-315442097