



## 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.***

- **Mrs. Wells**, assisted by **Courtney Fancher**, supervised 4-H Project Achievement Days for the SE Region, July 10, and for the SW Region, July 11.
- **Mrs. Wells** met with personnel at the MS Commission of Ag and Commerce to discuss the Poultry Chain at the Dixie Nationals in 2019, July 10.
- **Dr. Tabler** gave a departmental update to the MS Farm Bureau Federation's Young Farmers and Ranchers summer meeting at Stoneville, July 13.
- **Dr. Tabler** visited a Wayne Farms grower at Mt. Olive to collect water samples, July 20.

### ***Recent Publication:***

- **Xi Wang Aaron S Kiess E David Peebles Kelley G S Wamsley Wei Zhai**, , 2018. Effects of *Bacillus subtilis* and zinc on the growth performance, internal organ development, and intestinal morphology of male broilers with or without subclinical coccidia challenge. Poultry Sci., <https://academic.oup.com/ps/advance-article-abstract/doi/10.3382/ps/pey262/5045361?redirectedFrom=fulltext>

### ***Congratulations to the following students for receiving travel award to attend the upcoming Poultry Science Association meetings in San Antonio, July 22-27:***

- Jones-Hamilton Undergraduate Travel Award from the Poultry Science Association:
  - **Ty Fulton**, MS graduate student with **Dr. Adhikari**
- International Paper Travel Award from the MS Poultry Association
  - **Tomi Obe**, PhD graduate student with **Dr. Kiess**
  - **Saman Fatemi**, PhD graduate student with **Dr. Peebles**
- BankPlus Travel Award from the MS Poultry Association
  - **Abdul Alqtani**, PhD graduate student with **Dr. Kiess**

### ***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](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, 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>
- **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](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](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](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)