



**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. Zhai** and **Tabler** hosted scientists from U. of TN. to discuss their part (\$365k) of a recently awarded ~\$1.2M USDA grant, "Effective alternatives to antibiotics for sustainable production and health in poultry," April 17-18.
- **Mrs. Wells** and **Dr. Beck** met with administrators from Alcorn State to discuss a curricular agreement, April 18.
- **Mrs. Wells** took incubators to elementary schools in Ridgeland (3 classes), Starkville (1 class) and West Point (15 classes) for the Hatch-out Program, April 15-20.

***It's today - April 20!***

***72<sup>nd</sup> Annual Poultry Science Crawfish Boil  
3-6 p.m.***

***Super Bulldog Weekend, MSU Baseball v Arkansas, 6:30pm  
Hill Poultry Science Bldg, Mississippi State***

***Alumni and Friends Welcome!***



***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, 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](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.