



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. Wamsley, Tabler and Beck and Mr. Moon**, met with a Cumberland representative to discuss potential renovations to the breeder house, March 29.
- **Dr. Tabler** visited a new broiler farm at Waynesboro to collect water samples, March 26.
- **Mrs. Wells** conducted the Hatch-out Program at Caledonia Elementary School, March 26-30.
- **Dr. Tabler** attended the MPA Grower Advisory Committee meeting at Magee, March 27.
- **Dr. Tabler and Mr. Moon** met with a representative of Phibro Animal Health, including a research farm tour, March 29.
- **Mrs. Wells** and other faculty hosted students from Jones Jr. College, including a farm tour and lunch, March 27.
- **Dr. Beck** participated in the MS Board of Animal Health quarterly board meeting in Jackson, April 4.
- **Dr. Tabler** met with a representative of Insul-Pro to discuss options for insulating buildings on both parts of our farm, April 5.
- **Dr. Wamsley and Mrs. Wells** took the poultry judging team to Baton Rouge, LA, to participate in the USPoultry & Egg collegiate judging competition at LSU, April 4-7. Students participating are **Jason Sousa, Bryce Hollomon, Miranda Taylor, and Rebecca Sloan**.
- **Faculty, staff, and students** conducted the state FFA poultry judging contest in Hill Poultry Science, April 6.

Recent Publications:

- **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_w_e_b.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_w_e_b.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.

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 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>