



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. Adhikari, Kiess, and Zhai** met with personnel from Novus International to discuss research ideas, February 19
- **Dr. Tabler** visited a breeder farm at Kosciusko to take thermal images, Feb. 20
- **Dr. Tabler** attended the MS Legislative Luncheon, Jackson, Feb. 21
- **Drs. Adhikari and Beck** met with USDA to discuss research goals, February 21
- **Dr. Tabler** met with Weeden sprinkler personnel to discuss controller updates, Feb. 22
- **Dr. Tabler** participated in the Coastal R&E Center Producer Advisory Committee meeting in Ellisville, Feb. 27
- **Drs. Adhikari and Beck and Mr. Moon** met with personnel from Cal-Maine Foods to discuss research programs, February 28.
- **Dr. Tabler** participated in the MPA Poultry Management School planning meeting at Pearl, Feb. 28
- **Mrs. Wells** met with a prospective student and his parents, March 1

Kudos to...

- **Chrysta Beck**, featured recently in the Archbold, OH, "Farmland News," as the 2017 recipient of the FFA American Star in Agriscience. Chrysta is a senior poultry science major in an accelerated BS-to-MS degree program under the supervision of **Dr. Kiess**. The article, which unfortunately is not online, is a 4-page documentary of Chrysta's early experiences raising poultry through her research at MSU with **Drs. Kiess and McDaniel** and research technician **Ms. Ballard**. An abbreviated article can be read here: http://www.archboldbuckeye.com/news/2017-11-08/Front_Page/Chickens_Pay_Off_For_Beck_With_FFA_American_Star_I.html

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>