



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.

- **The Poultry Science Department** hosted administrators from the Nebraska College of Technical Agriculture, who visited MSU to finalize a curriculum MOU to allow students from Nebraska to spend a semester here as part of their Associates Degree with a concentration in Poultry Science. This program was designed to help NCTA in their mission to develop a workforce in support of the growing poultry industry in Nebraska. The MSU Provost and the CALS Dean participated in the signing on Feb 7. Grad student **Mark Lemons** and undergrads **Chrysta Beck, Jason Sousa, Bryce Holloman** and **Ethan Dehart** participated in discussions with the visitors and in the farm tour.
- **Drs. Adhikari, Beck, Sadler** and **Tablet** attended the MPA Poultry Health Seminar at CVM's Diagnostic Lab in Pearl, and **Dr. Adhikari** presented a talk, "Dietary interventions to reduce Salmonella in poultry," Feb. 14
- **Drs. Tablet** and **Beck** and **Mrs. Wells** attended the North Mississippi Research & Extension Center's Producer Advisory Council meeting in Verona, Feb. 15.
- The Processing Advisory Committee met in Starkville with **Drs. Kiess, Tablet** and **Beck** and **Mr. Moon** to evaluate upgrade status in the department's processing plant and to discuss next steps, Feb. 15-16.
- **Mrs. Wells** conducted the Hatch-out Program for classes at Henderson Ward School in Starkville, Feb. 12-16.
- **Mrs. Wells** and other faculty participated in the Academic Insights program for admitted students and their families and hosted ~25 for lunch in Hill Poultry Science, Feb. 17. Undergrad Ambassadors **Kelsey Faulkner, Will Graves, and Chrysta Beck;** and undergrad majors **Bryce Holloman, Justin Presley, and Danya Brown** assisted by driving vans and interacting with the prospective students.

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>