



## 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. Beck, Adhikari, Kiess, McDaniel, Peebles, Tabler, Wamsley and Zhai and Mrs. Starkey** attended the International Poultry Scientific Forum, Atlanta, Jan 29 – Feb 1.
  - **Drs. Adhikari, Kiess, Peebles, and Tabler** served as judges of student presentations.
  - **Drs. Wamsley and Zhai** served as session moderators for Metabolism & Nutrition
  - **Dr. Beck** served as Executive Secretary of the Southern Poultry Science Society and coordinated the International Poultry Scientific Forum and the SPSS Business Meeting.
  - **Mrs. Starkey** assisted with the SPSS registration table and business meeting.
- **Mrs. Wells, Mrs. Starkey, and Mrs. Christensen and Dr. Wamsley** brought 19 undergraduates to Atlanta to participate in the USPoultry's College Career Program for interviews with poultry companies and staffed the MSSTATE University booth, Jan 30 – Feb. 1.
- ***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

***Recent Publications:***

- **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>

***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)