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, Sukumaran, and Zhang attended the Delmarva Poultry Health and Processing Meeting, Ocean City, MD, October 8-11.
- Mrs. Wells participated in the CALS Fall Preview Day for undeclared incoming students, October 8.
- Dr. Tabler presented a talk, “Biosecurity against Avian Influenza,” at the Perry County Poultry meeting, Runnelstown, MS, October 11.
- Mrs. Christensen, Dr. Tabler, and Dr. Wamsley, assisted by undergrads Victoria Williams, Ashley Ruzicka, Kynan Heath, and Kaylee Cummings, conducted the State Fair Poultry 4-H Chain Show, Jackson, MS, October 12.
- Mrs. Wells participated in the CALS Scholars Recognition Day for high-ACT incoming students, October 15.
- Drs. Tabler and Sadler visited a Peco farm at Sebastopol to do pullet checks and necropsies, October 18.
- Drs. Beck, Sukumaran, Kiess, and Tabler and Mr. Moon participated in the quarterly Industry Processing Advisory Committee meeting in Starkville and on campus to discuss continued upgrades to the MSU poultry processing plant, October 18-19.

Recent Publications:

- Tom Tabler, Jessica Wells and Sue Ann Hubbard (Revised 2018); “Successfully handling hatching eggs,” http://extension.msstate.edu/sites/default/files/publications/information-sheets/IS1638_web.pdf
- Tom Tabler, “Footpad dermatitis a greater concern in chickens grown to older ages,” https://poultryhealthtoday.com/footpad-dermatitis-a-greater-concern-in-chickens-grown-to-older-ages/?utm_source=Poultry+Health+Today+Newsletter&utm_campaign=ce36d7a08c-News you might have missed_PHT 12_19_2017_COPY_01&utm_medium=email&utm_term=0_5ac605299a-ce36d7a08c-315441937

- Homecoming Tailgate Sponsored by BankPlus –

In front of Newell Grissom

Nov. 3, 2018
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. [Link](http://dx.doi.org/10.3382/japr/pfx034)

- F. Dustan Clark, Douglas Aldridge, Tom Tabler, and Jon Moyle, Poultry Farm Winterization Suggestions, Dec. 2017. [Link](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: [Link](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 Â¬ 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 Â¬ 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, 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


**Oral Presentations, Undergraduate:**

• (#31): **M. Fulton, A. Brown, C. McDaniel** and **P. Adhikari**, “Effect of house type and strain on hen-day egg production, egg quality and tibial bone breaking strength in commercial egg-laying hens in the late phase of production.”

• (#162): **J. Sousa, C. Castaneda, O Gutierrez, C. McDaniel** and **A. Kiess**, “In vitro evaluation of six commercially available Bacillus based probiotic supplements and their effects on an antibiotic resistant strain of Clostridium bifermentens.”

**Oral Presentations, Graduate/Faculty:**


  • Note: This presentation received a Graduate Student Award of Excellence for scientific merit and quality of presentation
• (#126): B. Zhang, X. Wang, and Wei Zhai, “Effects of amino acid reduction on growth performance of 6 strains of broilers.”


Presented by B. Zhang

Poster Presentations, Undergraduate:

• (#409P): EH Lovelace, B. Zhang and Wei Zhai, “Effects of dietary amino acid reduction on the meat yield of six strains of broilers.” Presented by B. Zhang


• (#479P): R. Hirai, L. Mejia, C. Coto, J. Caldas, C. McDaniel and K. Wamsley, “The impact of varying starter digestible lysine and energy levels on male Cobb MV x Cobb 500 broiler 42 d growth performance and processing parameters.”


• Gurung, Shailesh, Dima White, Gregory Archer, Dan Zhao, Yuhua Farnell, J. Allen Byrd, E.


