



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.

- **Dr. Peebles** presented a talk entitled, "The structure, function, and incubation of the avian egg," to a high school class in Zoology at Mooreville (MS) High School, Mar 28.
- **Dr. Peebles** participated in a seminar by the Center for Teaching and Learning entitled, "Keeping Teaching Fun," March 29
- **Drs. Beck** and **Tabler** participated in the development of the AI flyer (copied in the email) that will be distributed to County agents, Tractor Supplies, and Co-ops around the state, March 27-29.
- **Drs. Peebles** and **Beck**, with **Seun Durojaye** and **Tomi Obe** (PhD and MS grad students with Drs. Peebles and Kiess, respectively) attended the 2017 15th Annual GSA Awards Banquet, March 30. **Seun** and **Tomi** were finalists for the MS Level Graduate Teaching and Research Awards, respectively.
- **Dr. Wamsley**, assisted by **Mrs. Christensen**, **Mrs. Morgan**, **Ms Wooten**, **Mrs. Starkey**, **Dr. Tabler**; grad students **Dana Dittoe**, **Tomi Obe**, **Courtney Ennis**, **Mark Lemons**, **Rosana Hirai**; and undergrads **Kelsey Faulkner**, **Andrew Brown**, **Levy Sasser**, **Abby Case**, **Ashlee Mae Watkins**, **Vivian Purvis**, and **Cale Green**; conducted the State FFA Poultry Judging Competition, with ~53 competitors, at Hill Poultry Science, March 31.
- **Dr. Kiess**, assisted by **Dana Dittoe**, **Claudia Castaneda**, **Chrysta Beck**, and **Kaela Johnson**, conducted an anatomy/physiology necropsy lab session for 34 students from the Pre-Vet Club, March 30
- **Mrs. Wells** traveled to Conroe, TX, to judge the 2017 Montgomery County Fair Poultry Show, March 31-April 1.

Recent Publications:

- **Tom Tabler**, F. Dustan Clark, Jonathan Moyle, Jason R. Barrett, Yi Liang, and **Jessica Wells**, "How Total Farm Water Pressure and Volume Affect Commercial Poultry Production,"
<http://extension.msstate.edu/sites/default/files/publications/publications/p3058.pdf>
- **Tom Tabler** and **Jessica Wells**, "Benefits and Challenges of Reusing Broiler Litter,"
<http://extension.msstate.edu/sites/default/files/publications/publications/p3066.pdf>
- **Tom Tabler** contributed to MSU Feature Story on AI:
<http://extension.msstate.edu/news/feature-story/2017/poultry-growers-urged-follow-biosecurity>

Running Cumulative List of Scientific and Extension Publications, 2017

- **Tom Tabler**, F. Dustan Clark, and **Jessica Wells**, “Choosing the right breed of backyard poultry.”
<http://extension.msstate.edu/sites/default/files/publications/publications/p3036.pdf>

Abstracts presented at the IPSF, Jan 30-Feb 3, 2017; complete abstracts may be found at <http://southernpoultrysciencesociety.org/pdfs/2017AbstractBook.pdf>

- **Tomi Obe**, MS grad student with **Dr. Kiess** (originally with **Dr. Sharma**), won a **Graduate Student Award of Excellence** for her presentation at the IPSF entitled, “Homologous stress adaptation, antibiotic resistance, and biofilm formation of *Salmonella Heidelberg* on different food-contact surfaces following exposure to sub-lethal chlorine concentrations,” **Tomi Obe, Rama Nannapaneni, Chander Sharma**; Jan 31.
- **Mohit Bansal**, MS grad student with **Dr. Kiess** (originally with **Dr. Sharma**), won a **Graduate Student Award of Excellence** for his presentation at the IPSF entitled, “Influence of chlorine induced sub-lethal oxidative stress on homologous stress adaptation and biofilm formation in *Listeria monocytogenes*,” **Mohit Bansal, Rama Nannapaneni, Chris McDaniel, Chander Sharma**; Jan 31.
- **Midian Nascimento dos Santos***GS, **Reshma Ramachandran, Kelley Wamsley, Aaron Kiess, Christopher McDaniel**, “The impact of a dietary yeast fermentation product derived from *Saccharomyces cerevisiae* on semen quality and semen microbiota of aged White Leghorn roosters”; Midian is an MS grad student with **Dr. McDaniel**
- **Reshma Ramachandran***, **Midian Nascimento Dos Santos, Christopher McDaniel**, “Relationship between sperm-egg penetration and the duration of fertility in Chinese painted quail hens (*Coturnix chinensis*); Reshma is a PhD grad student with **Dr. McDaniel**
- **Mary Beck***, **G. Tabler, Kelley Wamsley, Aaron Kiess**, “MSU Poultry Science takes New Zealand!”
- **Oluwaseun Durojaye***, **Katie Elliot, Edgar Peebles**, “Air cell size profile and its relationship to eggshell temperature and water loss in broiler hatching eggs through day 12 of incubation”; Seun is an MS grad student with **Dr. Peebles**.
- **Dana Dittoe***, **Chris McDaniel, Aaron Kiess** “Effects of lactic acid bacteria and organic acids on the concentration of an antibiotic resistant strain of *Salmonella Heidelberg*, in vitro”; Dana is an MS grad student with **Dr. Kiess**
- **Claudia Castaneda***, **Omar Gutierrez, Christopher McDaniel, Aaron Kiess**. “In vitro evaluation of seven commercially available *Bacillus spp* based probiotic supplements and one *Saccharomyces cerevisiae* based prebiotic supplement and their effects on an antibiotic resistant strain of *Salmonella Heidelberg*”; Claudia is an MS grad student with **Dr. Kiess**
- **Kacey O'Donnell***, **Xi Wang, Kelley Wamsly, Aaron Kiess, E. Peebles, Wei Zhai**. “Effects of replacing antibiotics and anticoccidials with probiotics in broiler diets on growth performance “; Kacey is an MS grad student with **Dr. Zhai**
- **Chrysta Beck***, **Pedro Mota, Kelley Wamsley, Christopher McDaniel, Aaron Kiess** “Proving the concept that commercial in ovo delivery of a prebiotic and probiotics can positively impact broiler performance”; Chrysta is an undergrad student working with **Dr. Kiess**
- **Alfred Blanch***, **Line Skjoet-Rasmussen, Elke Brockmann, Jannie Schnabl, Mickael Rouault, Dorte Sandvang, Frank Jin, Aaron Kiess**, “Confirmation of the presence of *Enterococcus faecium* M74 in the gastrointestinal tract of young chicks from eggs inoculated with *GalliPro Hatch*”
- **Oluwaseun Durojaye*** **Edgar Peebles** “Relationships of eggshell thickness to

- broiler hatching eggs*”; Seun is an MS grad student with **Dr. Peebles**
- **Na Dong***, **Xi Wang**, **Wei Zhai** “*Effects of various levels of low-fat distiller’s dried grains with solubles on intestinal developments of broilers from 28 to 54 days of age*”
Dr. Dong is a visiting scientist working **Dr. Zhai**
 - **Edgar Peebles**, Tiago Oliveira, Antonio Bertechini, Elizabeth Kim, Opeyemi Olojede, **Sharon Womack**, Patrick Gerard, “Effects of post-hatch holding time before placement on broiler body temperature during grow-out.”
 - **Tom Tabler**, Jim Watson, Brigid Elchos, and **Jessica Wells**, “Backyard Biosecurity is the Best Defense Against Avian Influenza,”
<http://extension.msstate.edu/sites/default/files/publications/publications/p3059pdf>
 - **Tom Tabler** and **Jessica Wells**, “Avian Influenza 2017: Frequently Asked Questions.”
<http://extension.msstate.edu/sites/default/files/publications/publications/p3060.pdf>