



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.***

- **Mrs. Wells**, assisted by **Kaela Johnson**, **Kelsey Faulkner**, and **Will Graves**, conducted the Hatch-out Program at 8 classes at Suddeth Elementary School in Starkville, and set up the mobile chicken house, April 17-21.
- **Mr. Moon** and **Tomi Obe**, MS grad student with **Dr. Kiess** (previously with **Dr. Sharma**), participated in the OSHA Training for the Poultry & Meatpacking Industries at the Poultry Research Diagnostic Lab in Pearl conducted by the Georgia Tech University Occupational Safety and Health Program, April 12.
- Dr. Ryn Laster, Cal-Maine Foods, spoke to the Diseases of Poultry lab session, April 19.
- Jimbo Harvey and Steve Langford, Tyson, spoke to the Seminar class, April 20
- **Tomi Obe** participated in the Koch Foods HACCP certification program at Collinsville, AL, courtesy of Koch Foods, April 19-21.

Recent Publications:

- **A. Moore**, R. Nannapaneni, **A. Kiess**, and CS Sharma, 2017. Evaluation of USDA approved antimicrobials on the reduction of Salmonella and Campylobacter in ground chicken frames and their effect on meat quality. Poultry Sci. <http://dx.doi.org/10.3382/ps/pew497>.

MS grad student with **Dr. Kiess** (previously with **Dr. Sharma**), **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, Dorthe 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*

thermal gradients across the shell at the large and equatorial regions of embryonated 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>
- **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>
- Alfred Blanch, Herb Kling, **Aaron Kiess**, “In ovo probiotic injection linked to higher post-hatch performance,” International Hatchery Practice, Vol 31, Number 3, p. 15; please contact us if you’d like a copy.