



*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, Peebles, Sadler, Tabler, Wamsley and Zhai**, met with personnel from Sanderson Farms to discuss upcoming research efforts, June 5.
- **Drs. Tabler and Sadler** necropsied breeder hens for Mar-Jac, June 5.
- **Dr. Tabler** met with representatives from Ecodrum Composters to discuss composter management strategies, June 6.
- **Dr. Tabler** traveled to Bogota, Colombia, to present two talks at the XXXIII International Poultry Seminar, June 7-9
  - "Mortality Composting and Litter Management"
  - "Managing Hatchery Waste in the United States."

***Recent Publication:***

- **Tom Tabler and Jessica Wells**, "Economic Impact of Mississippi's Poultry Industry,"  
<http://extension.msstate.edu/sites/default/files/publications/publications/p3048.pdf>

### 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 Wamsley, 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 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.
  - **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>.