



*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. Tabler** visited a Koch grower at Kosiusko to take thermal images of poultry house walls, May 18.
- **Drs. Tabler, Kiess, and Zhai** met with personnel of Matrix Nutrition, LLC, to discuss research projects, May 19.
- **Mrs. Wells**, assisted by **Mrs. Christensen, Kaela Pritchett** (MS grad student with **Dr. Tabler**) and undergrad **Will Graves**, conducted Hatch-out programs in 15 classrooms in Greenville, MS, May 15-19.

***Get better quickly wishes to...***

- **Rosana Hirai**, MS grad student with **Dr. Wamsley**, who fractured her fibula recently.
- The father of **Mohit Bansal** (MS grad student with **Dr. Kiess**) who is seriously ill in India.

***Condolences to...***

- **Saman Fatemi**, PhD grad student with **Dr. Peebles**, on the death of his father in Iran recently.

### ***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, 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.
- **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>.