



## 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** and **Dr. McDaniel** hosted 75 AP Biology high school students from Union County for lectures on avian reproduction and tours of the poultry farm, March 10.
- **Drs. Beck, Kiess, Tabler, Wamsley** and **Zhai** attended the 1<sup>st</sup> USPOULTRY Symposium at the Pirassununga Campus of the Universidade da São Paulo, March 14 & 15, as guests of the Department of Animal Science (Faculty of Animal Science and Food Engineering) and the Department of Nutrition and Animal Production (Faculty of Veterinary Medicine and Animal Science). The invited talks were as follows:
  - **Dr. Beck:** "Enriched environments for laying hens: welfare implications"
  - **Dr. Kiess:** "In ovo pre/probiotics: a new piece to the antibiotic puzzle?"
  - **Dr. Tabler:** "Mortality composting and litter management"
  - **Dr. Wamsley:** "Impact of feed form and phase of growth on broiler performance"
  - **Dr. Zhai:** "Effect of antibiotic alternatives on growth performance and gut health of broilers under coccidiosis challenge"

### ***Save the Date!***

***Poultry Science Annual Crawfish Boil...March 24!***



### **2017 MSU Poultry Science Crawfish Boil**

**Date:** Friday, March 24<sup>th</sup>

**Time:** 3:00 pm

*MSU Baseball game begins at 6:30 pm at Dudy-Noble Field*

**Location:** Hill Poultry Science Building parking lot

Come join us for great fun and fellowship!  
We hope to see you there!



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### ***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**), for winning 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**), for winning 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."