



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** met with poultry growers to discuss water quality issues, June 27.
- **Drs. Wamsley, Tabler, and Beck, and Mr. Moon,** met with personnel from Wayne Farms to discuss a research trial, June 27.
- **Dr. Tabler** traveled to Mendenhall to take thermal images on a Sanderson broiler farm, June 28
- **Drs. Kiess and Beck** met with MAFES administration to discuss funding options for research facilities, June 28.
- **Dr. Tabler** attended the MPA Grower Advisory Committee meeting in Magee, June 29.
- **Mrs. Wells** held freshman and transfer orientation sessions, June 26, 27.
- **Mrs. Wells,** assisted by MS (**Tabler**) grad student **Kaela Pritchett** and undergrad major **Will Graves,** conducted the North and South 4-H poultry cooking competitions, June 27, 28
- **The Poultry Science Department** hosted a retirement potluck luncheon and reception for **Ms. Yvonne Wooten,** who retired June 30 after 23+ years of service to Mississippi State.
- **Drs. Beck and Tabler** attended the MS Board of Animal Health meeting and met with personnel from BankPlus in Jackson, July 5
- **Dr. Tabler** visited Peco Foods in Sebastopol to conduct pullet check, July 6
- **Drs. Wamsley and Tabler** met with representatives of a water treatment company to discuss potential research trials, July 7

Congratulations and best wishes to...

- **Justin Baer,** Poultry Science work study student, on the occasion of his marriage, June 26.

Congratulations and welcome to...

- **Mrs. Laikyn Starkey,** who became the Poultry Science Business Manager I on July 1.
- **Mrs. Tannah Christensen,** who was promoted to Program Coordinator on July 1.
- Little Mr. Michael Li, son of **Xi Wang** (PhD grad student with **Dr. Zhai**) and Tongyi (Tony) Li, born July 4, 2017, at 6lb 11oz and 19.5".

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