



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**, accompanied by his MS grad student, **Kaela Pritchett**, visited a Koch broiler farm at Carthage to assess lighting programs, June 13
- **Dr. Tabler** met with personnel from Ecodrum Composting to discuss composting trainings, June 14
- **Dr. Tabler**, accompanied by Dr. Yang Zhao (ABE), visited a Koch breeder farm at Kosiusko to take thermal images of insulation, June 15
- **Mrs Wells** conducted freshman and transfer orientations for incoming students. June 13-14, and 16
- **Mrs. Wells** met with personnel from Sanderson Farms about their recruiting program; **Dr. Wamsley**, **Ms. Wooten**, and **Mrs. Christensen** joined them for lunch, June 14
- Grad students **Mark Lemons** (PhD with **Dr. Wamsley**), **Kaela Pritchett** (MS with **Dr. Tabler**) and undergrad **Will Graves** conducted the 4-H Northeast Achievement Days at Itawamba, June 16.
- **Mrs. Wells** held freshman orientations June 20, 23
- **Drs. Beck** and **Tabler** made presentations on poultry at MSU and avian influenza to members of the American Farm Bureau Federation, June 21
- **Dr. Beck** led a riding tour of the Poultry Research Farm for members of the MS Farm Bureau Commodity summer meeting, June 21
- **Dr. Tabler** gave a tour of the Poultry Science commercial houses to a 9-member group from Tajikistan, June 23.
- **Dr. Tabler** visited a Sanderson broiler farm at Mendenhall to take thermal camera images, June 22
- **Dr. Tabler**, accompanied by his MS grad student, **Kaela Pritchett**, visited a Peco farm at Noxapater to take samples, June 23
- **Drs. Beck** and **Kiess** and grad students **Tomi Obe** and **Dana Dittoe** met with Koch Foods QA personnel to discuss processing options, June 23.
- **Jonathan Moon**, Coordinator of Poultry Operations, participated in the annual MAFES Supervisory Conference at Biloxi, June 21-23.

Welcome back to....

- **Tom Tuck**, member of the poultry science farm crew, from two months deployment in the Mojave Desert, CA, June 22

Welcome to...

- **Justin Baer**, chemical engineering major, who recently began working as the poultry science front office student worker

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