



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!

Faculty and Staff Travel and Activities:

- **Drs. Tabler and Farnell** spoke at the MPA Grower Meeting, Magee, Dec. 10.
- **Drs. Beck, Tabler and Farnell** participated in the MPA Board of Directors meeting in Pearl, Dec. 17.

Balance Sheet for 2013

As we approach the end of the year and depart for the holiday season, I want you to know how much I appreciate the dedication, teamwork, camaraderie, and accomplishments that you've made happen this year. I also want to wish each of you and your families a joyous, safe, and well-deserved holiday break.

In reflecting on the past year and as a recap of our last faculty meeting, I thought we ought to take a look at our most significant achievements and progress. Thanks for help with this are extended to all Poultry Science faculty, staff, and students, who have truly pulled together; MSU; USDA-PRC; MPA and industry partners and colleagues; and many others – we couldn't have done all this alone!

<i>Improvements initiated/achieved</i>	<i>Status</i>
* New faculty position (Dr. Farnell)	Accomplished
* Three staff positions reclassified and aligned with actual work expectations	Accomplished
* Two international visiting scientists	Accomplished
* 133% increase over 2012 in grad student numbers	Accomplished
* Acquisition of 2 new departmental vehicles (Fed. Surplus/ Extension) (>40k miles clocked on Extension vehicles In 2013!)	Accomplished
* 50% increase in counties and 30% increase in 4-H'ers participating in the Poultry Chain Project	Accomplished
* 2+2 Articulation Agreement with JCJC signed by Presidents Keenum and Smith	Accomplished
* Old faculty offices in Hill Annex refurbished for grad students	Accomplished
* Old labs in Hill Annex cleaned out and old stuff discarded	Accomplished
* Extension storage spaces overhauled and made functional	Accomplished
* Biotech space created in old Micro lab	Accomplished
* Nutrition laboratory suite in Hill created and refitted	Accomplished
* Library space in Hill cleaned out and converted to storage	80% Finished
* Commercial houses retrofitted and upgraded	Accomplished
* Rooster precision feeding facility created and outfitted with	

a surgical suite, floor pens, and cages	Accomplished
* Digestibility research unit created and outfitted with cages	Accomplished
* Dorm renovated for farm crew break room, on-farm lab, and necropsy room	50% Finished
* Judging facilities	
Live bird house painted, outfitted	Accomplished
RTC and egg grading facility	50% Finished
* Voluntary industry contribution proposal	Initiated
* Acquisition of chiller for processing plant	In progress
* Fence repair at poultry farm	Accomplished
* Electronic biosecurity gate	Final hook-up in progress

Challenges for 2014

In looking ahead to next year, we need to think inside and outside the box about how we might better meet our mission for the people we serve. As always, there will be funding challenges to maintain and enhance the good things we do and we will continue to work with external and internal collaborators to identify funding and other opportunities.

Best wishes to everyone for a wonderful and safe holiday season. Thank you for another successful semester and thank you for all you do for the Department, MSU, and Mississippi.

An idea suggested by one of our industry partners is to include in each issue of **Friday Notes** a cumulative list of all publications for the year; here is the list of articles included in the 2013 Notes:

Running Cumulative List of Scientific and Extension Publications, 2013

- **E.D. Peebles**, M.R. Burnham, S.L. Branton and P.D. Gerard, 2012. An F-Strain *Mycoplasma gallisepticum* inoculation at twelve weeks of age does not modify the effects of fasting during lay on the blood characteristics of commercial egg laying hens. International J of Poultry Science 11 (10): 611-615. <http://www.pjbs.org/ijps/fin2248.pdf>
- **E.D. Peebles**, M.R. Burnham, S.L. Branton, K.O. Willeford and P.D. Gerard, 2012. Effects of F-Strain *Mycoplasma gallisepticum* inoculation at twelve weeks of age on serum vitellogenin concentrations in commercial egg laying hens. International Journal of Poultry Science 11 (10): 654-657. <http://www.pjbs.org/ijps/fin2291.pdf>
- **A.S. Kiess** et al., 2012. A standardized cage measurement system: A versatile tool for calculating usable cage space. J. Appl. Poultry Res., 21(3):657-668. <http://japr.fass.org/content/21/3/657.full>
- **Dr. Tom Tabler, Jessica Wells, and Dr. Wei Zhai**, "Farmers, chickens, and West Nile Virus," <http://msucares.com/pubs/publications/p2753.pdf>.
- **Dr. Tom Tabler, Jessica Wells, and Dr. Wei Zhai**, "Water quality critical to broiler performance," <http://msucares.com/pubs/publications/p2754.pdf>.
- **Dr. Tom Tabler, Kenneth LaFleur, Jessica Wells, and Dr. Wei Zhai**, "Maintaining Compliance with Mississippi's Dry Litter Poultry General Permit," <http://msucares.com/pubs/publications/p2764.pdf>.
- K.N. Eberle, J.D. Davis, J.P. Purswell, **H.M. Parker, C.D. McDaniel and A.S. Kiess**, 2013. Prevalence of *Campylobacter* in New Broiler Houses, a One Year Study of Newly Constructed Broiler Houses for the Prevalence of *Campylobacter*. Intl. J. Poultry Sci. 12: 29-36. <http://www.pjbs.org/ijps/fin2326.pdf>
- **Dr. Tom Tabler, Jessica Wells, and Dr. Wei Zhai**, "Chickens Do Not Receive Growth Hormones: So Why all the Confusion?" <http://msucares.com/pubs/publications/p2767.pdf>
- **Dr. Tom Tabler, Jessica Wells, Dr. Wei Zhai, Dr. Haitham Yakout, and Dr. Yi Liang**, "What Causes Footpad Dermatitis in Poultry?" <http://msucares.com/pubs/publications/p2767.pdf>
- C.N. Obi, **H.M. Parker**, A. Corzo, and **C.D. McDaniel**, 2013. Evaluation of feeding different digestible lysine intake levels on semen characteristics and body weight of broiler breeders during pre-peak and peak production. International J. of Poultry Scie. 12(2):64-71.
- **Dr. Tom Tabler, Dr. Yi Liang, Dr. Haitham Yakout, Jessica Wells, and Dr. Wei Zhai**, "Intestinal health and necrotic enteritis in broilers," <http://msucares.com/pubs/publications/p2771.pdf>
- **C. S. Sharma, A. Ates**, P. Joseph, R. Nannapaneni, and **A. Kiess**. 2013. Reduction of *Salmonella* in skinless chicken breast fillets by lauric arginate surface application. *Poult Sci* 92:1419 -1424; doi:10.3382/ps.2012-02837
- **Ademola Oladunjoye**, Kamlesh A. Soni, Ramakrishna Nannapaneni, M. Wes Schilling, Juan L. Silva, Benjy Mikel, R. Hartford Bailey, Barakat S. M. Mahmoud, and **Chander Shekhar Sharma**. 2013. Synergistic activity

- between lauric arginate and carvacrol in reducing Salmonella in ground turkey. *Poult Sci* 92:1357-1365; doi:10.3382/ps.2012-02620
- **Dr. Tom Tabler, Dr. Yi Liang, Dr. Haitham Yakout, Jessica Wells, and Dr. Wei Zhai**, “Evaporative Cooling Systems: How and Why They Work,” <http://msucares.com/pubs/publications/p2774.pdf>.
 - **Chander Shekhar Sharma, Amanda Ates, Poulson Joseph, Kamlesh A. Soni, M. Wes Schilling and Aaron Kiess**. 2013. Evaluation of antimicrobial effects of lauric arginate on reduction of Salmonella spp. in ground chicken *International Journal of Food Science & Technology*. Article first published online: 13 MAR 2013 | DOI: 10.1111/ijfs.12103; Link: <http://onlinelibrary.wiley.com/doi/10.1111/ijfs.12103/abstract>
 - **Dr. Tom Tabler, Jessica Wells, and Dr. Haitham Yakout**, “Summer is Coming – Prepare Broiler Houses Now,” <http://msucares.com/pubs/publications/p2778.pdf>.
 - **Dr. Tom Tabler, Dr. Haitham Yakout, and Jessica Wells**, “Spring and Fall Broiler Production Presents Challenges,” <http://msucares.com/pubs/publications/p2780.pdf>.
 - **Dr. Tom Tabler, Dr. Chris McDaniel, Jessica Wells, and Dr. Haitham Yakout**, “Broiler Breeder Management is No Easy Task,” <http://msucares.com/pubs/publications/p2783.pdf>.
 - Liang, Yi, M.T. Kidd, S.E. Watkins and **G.T. Tabler**, 2013. Effect of commercial broiler house retrofit: A 4-year study of live performance. *J. Appl. Poult. Res.* 22:211-216. <Http://dx.doi.org/10.3382/japr.2012-00601>
 - **Abstracts** from the 2013 *Poultry Science* and *International Poultry Scientific Forum* meetings: <http://www.poultryscience.org/abstracts.asp?autotry=true&ULnotkn=true>
 - **Dr. Tom Tabler, Dr. Haitham Yakout and Jessica Wells**, “Northern Fowl Mite Management,” <http://msucares.com/pubs/publications/p2800.pdf>.
 - **Tom Tabler, Morgan Farnell, Jessica Wells, and Haitham Yakout**, “Phosphorus, phytase, and poultry litter,” <http://msucares.com/pubs/publications/p2805.pdf>
 - **Tom Tabler, F. Dustan Clark, Jonathan Moyle, Morgan Farnell, Jessica Wells, Haitham Yakout**, “Minimum Ventilation can Challenge Broiler Growers,” <http://msucares.com/pubs/publications/p2804.pdf>