



## *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. Sharma** and **Zhai** served as judges for the MSU graduate student symposium held in McCool Hall, Saturday, March 22. **Dr. Sharma's** three graduate students presented in a different session, as follows:
  - **Janak Dhakal:** Reduction of *Salmonella* in vitro and on chicken and turkey breast fillets by the application of bacteriophage.
  - **Divek V.T. Nair:** Antimicrobial activity of carvacrol against *Salmonella*, *Campylobacter* and spoilage micro flora on turkey breast cutlets packaged under modified atmosphere
  - **Anuraj Sukumaran:** Evaluation of compatibility of *Salmonella* lytic bacteriophage with antimicrobials of different modes of action and their synergistic combinations on reduction of *Salmonella* spp. *in vitro*.
- **The Poultry Science faculty and staff** cooked chicken and catered the annual CALS/MAFES spring awards luncheon in Bost Extension Building, March 26.
- **Drs. Tabler** and **Farnell** traveled to Sanderson Farms at McComb to weigh birds and assess paw scores, March 27.
- **Mrs. Wells** took hatching eggs to Potts Camp High School and to Aiken Village Pre-school for biology lessons March 24-28; **Holli Nutt**, junior poultry science major from Morton, MS, assisted with the Aiken Village lesson.

### *Congratulations to:*

- **Katelyn Jackson**, junior poultry science major from Flowood, MS, for her recent election as National Treasurer of the American Pre-veterinary Medicine Association at their 2014 annual symposium at Iowa State University, March 21. More information can be read at [http://www.reflector-online.com/news/article\\_aa7f4cde-b600-11e3-8fc4-001a4bcf6878.html](http://www.reflector-online.com/news/article_aa7f4cde-b600-11e3-8fc4-001a4bcf6878.html).

### *Graduate Seminar:*

- **Divek V.T. Nair** and **Janak Dhakal** presented seminars on their research progress, Friday March 28.

### *Invitation:*

- **Annual Crawfish Boil:** April 11, Hill Poultry Science, 3:30-until... It's the Friday of Super Bulldog Weekend, so plan to attend to tailgate before the 6:30pm baseball game against Ole Miss! If you think you might be able to attend, please let us know for planning purposes! If you decide at the last minute to attend, please just come on - you're all welcome!

### ***Running Cumulative List of Scientific and Extension Publications, 2014***

- **Tom Tabler**, F. Dustan Clark, Jonathan R. Moyle, Yi Liang, **Jessica Wells**, and **Morgan Farnell**, “Windrow Composting Broiler Litter between Flocks,” <http://msucares.com/pubs/publications/p2818.pdf>.
- C.L. Williams, **G.T. Tabler** and S.E. Watkins, 2013. Comparison of broiler flock daily water consumption and water-to-feed ratios for flocks grown in 1991, 2000-2001, and 2010-2011. *J Appl Poultry Research*, 22:934-941. <http://dx.doi.org/10.3382/japr.2013-00767>
- Abstracts from the 2014 IPSF: <http://www.ippexpo.org/ipsf/docs/2014%20IPSF%20Abstracts.pdf>
  - M6 Detection of parthenogenesis in mated quail hens and its impact on fertilization  
**Priscila Santa Rosa\***, **Holly Parker**, **Aaron Kiess**, **Chris McDaniel**
  - M9 Physiological responses of broiler hatchlings to commercial in ovo coccidiosis vaccine administered on days 18.5 and 19.0 of incubation  
**Adebayo Sokale\***, **E. David Peebles**, **Wei Zhai**, Timothy S. Cummings, Christopher J. Williams
  - M24 Apparent ileal amino acid digestibility (AIAAD) of various animal by-product blends (ABB) in broilers aged 21 and 42 d of age  
**Cameron Cardenas\***, Elizabeth Kim, Bob Hill, **Kelley Wamsley**
  - M36 Effects of limestone particle size in pullet diets on hen performance, bone mineral density and keel bone deformities in aviaries or conventional cages  
Pamela Eusebio-Balcazar\*, **Mary Beck**, Sheila Purdum
  - M48 Antimicrobial activity of carvacrol against Salmonella on turkey breast cutlets packaged under modified atmosphere  
**Divek V. T. Nair\***, **Chander Shekhar Sharma**
  - M66 Effects of diet type and nutrient density from day 8 to 21 on bone morphology, breaking strength, and mineral density in male broilers  
**Xi Wang\***, **E. David Peebles**, Mark Bricka, **Wei Zhai**
  - T137 Effects of dietary lysine and methionine supplementation on growth performance and meat yield of male broilers  
**Wei Zhai\***, **E. David Peebles**, Wes Schilling, Yves Mercier
  - P205 Effects of the in ovo injection of 25-hydroxylcholecalciferol on the yolk characteristics of embryonated broiler hatching eggs  
**Nayara Pelici\***, **Wei Zhai**, **Sharon Womack**, **E. David Peebles**
  - P206 Effects of the in ovo injection of 25-hydroxylcholecalciferol on serum calcium and phosphorous concentrations in broiler embryos  
**Midian Nascimento\***, **Wei Zhai**, **Sharon Womack**, **E. David Peebles**
  - P211 Effects of the raising model on semen quality and fertility of male Sichuan White Geese  
**Anfang Liu\***, Mingjun Chen, Jing Zhang, Wang Xi, Jie Liu, Xia Qiu, Hongpeng Ma, Wei Zhai
  - P212 Effects of single nucleotide polymorphism of H-FABP gene on carcass traits in Sichuan White Geese  
**Anfang Liu\***, Shukai Yuan, Jing Zhang, Jie Liu, Xia Qiu, Hongpeng Ma
  - P235 The effect of varying the inclusion of two different anticoccidials into a commercial diet on D0-49 Ross 708 bird performance  
**Rosana Hirai\***, Timothy Cummings, **Kelley Wamsley**
  - P241 Dietary Alterations with Live Coccidiosis Vaccine (LCV) Response and D0-46 Ross 708 Broiler Performance  
**Robert Sellers\***, **Wei Zhai**, Carla Price, Phil Stayer, **Tom Tabler**, **Kelley Wamsley**.
- **Tom Tabler**, **Morgan Farnell**, **Jessica Wells**, **Haitham Yakout**, and Yi Liang, “Controlling Rodents on the Poultry Farm,” <http://msucares.com/pubs/publications/p2824.pdf>
- **Tom Tabler**, news release on litter sampling: <http://msucares.com/news/releases/14/nr20>.

- **Tom Tabler**, F. Dustan Clark, Jonathan R. Moyle, **Morgan Farnell**, and **Jessica Wells**, “Managing Manure from the Backyard Flock,” <http://msucares.com/pubs/infosheets/is1973.pdf>
- **H. M. Parker**, **A. S. Kiess**, **P. Santa Rosa**, and **C. D. McDaniel**, 2014. Selection for the parthenogenetic trait in Chinese Painted Quail (*Coturnix chinensis*) affects hatchability parameters. Poultry Science 93(3): 664-672  
<http://dx.doi:10.3382/ps.2013-03527>
- **Tom Tabler**, Dustan Clark, Jonathan R. Moyle, **Jessica Wells**, and **Morgan Farnell**, “Composting Manure from Small Poultry Flocks,” <http://msucares.com/pubs/infosheets/is1975.pdf>
- **News Release - Tabler and Farnell:**  
<http://www.wcbi.com/wordpress/okolona-poultry-farmer-learns-from-msu>