

Journal Publications 2000-2008

Eileen Wheeler

- **Wheeler, E.F.** G. Vasdal, A. Flø and K.E. Bøe. 2008. Static space requirements for piglet creep area as influenced by radiant temperature. *Transactions of the ASABE* 51(1): 271-278.
- Topper, P.A., **E.F. Wheeler**, J.S. Zajaczkowski, R.S. Gates, H. Xin, Y. Liang, and K.D. Casey. 2008. Ammonia emissions from two empty broiler houses with built-up litter. *Transactions of the ASABE*, 51 (1): 219-225.
- Green, A. R., R. S. Gates, L. M. Lawrence and **E. F. Wheeler**. 2008. Continuous recording reliability analysis of three monitoring systems for house core body temperature. *Computers and Electronics in Agriculture* 61: 88-95.
- Patterson, P. H., Adrizal, R. M. Hulet, R. M. Bates, D. A. Despot, **E. F. Wheeler**, P. A. Topper. 2008. The potential for plants to trap emissions from farms with laying hens: 1. Ammonia. *Journal of Applied Poultry Research* 17:54-63.
- Casey, K. D., R. S. Gates, **E. F. Wheeler**, H. Xin, Y. Liang, A. J. Pescatore, and M. J. Ford. 2008. On-farm fan performance: Implications for ventilation and operating cost. *Journal of Applied Poultry Research* 17(2): 283-295.
- Blanes-Vidal, V., P.A. Topper and **E.F. Wheeler**. 2007. Validation of ammonia emissions from dairy cow manure estimated with a non-steady state, recirculation flux chamber with whole building emissions. *Transactions of the ASABE* 50(2): 633-640.
- **Wheeler, E.F.**, P.A. Topper, R.E. Graves and M.A. Bruns. 2007. Odor reduction performance of constructed wetland treating diluted swine manure. *Applied Engineering in Agriculture* 23(5):621-630.
- R.S. Gates, K.D. Casey, **E.F. Wheeler**, H. Xin and A.J. Pescatore. 2007. U.S. broiler housing ammonia emissions inventory. *Atmospheric Environment*: 42(14):3342-3350
- Pawar, S.R., J.M. Cimbala, **E.F. Wheeler** and D.V. Lindberg. 2007. Analysis of poultry house ventilation using computation fluid dynamics. *Transactions of the ASABE* 50(4):1373-1382.
- **Wheeler, E.F.**, K.D. Casey, R.S. Gates, H. Xin, J.L. Zajaczkowski, P.A. Topper, Y. Liang and A.J. Pescatore. 2006. Ammonia emissions from twelve USA broiler chicken houses. *Transactions of ASABE* 49(5):1495-1512.
- **Wheeler, E.F.**, N.K. Diehl, J.L. Zajaczkowski and D. Brown. 2006. Particulate matter characterization in equestrian riding arenas. *Transactions of ASABE* 49(5):1529-1538.
- Sabeh, N.C., **E.F. Wheeler**, P.H. Heinemann, and D.M. Beyer. 2006. Environmental conditions within small-scale *Agaricus bisporus* mushroom production rooms. *Applied Engineering in Agriculture* 22(6):907-917.
- Gay, S.W., **E. F. Wheeler**, J. L. Zajaczkowski, and P. A. Topper. 2006. Ammonia emissions from U.S. tom turkey grow out and brooder houses under cold weather mechanical ventilation. *Applied Engineering in Agriculture* 22(1):127-134.
- Mathieu, J., Linker, R., Levine, L., Albright, L., Both, A.J., Spanswick, R., Wheeler, R., **Wheeler, E.**, deVilliers, D., Langhans, R. 2006. Evaluation of the Nicolet Model for Simulation of Short-term Hydroponic Lettuce Growth and Nitrate Uptake. *Biosystems Engineering* 95(3):323-337.

- Liang, Y., H. Xin, **E.F. Wheeler**, R. S. Gates, H. Li, J.S. Zajaczkowski, P. Topper, K.D. Casey, B.R. Behrends, D.J. Burnham and F.J. Zajaczkowski. 2005. Ammonia emissions from U.S. laying hen houses in Iowa and Pennsylvania. *Transactions of ASAE* 48(5):1927-1941.
- Sabeh, N.C., **E.F. Wheeler**, D.M. Beyer and P.H. Heinemann. 2005. Environmental control strategies in *Agaricus bisporus* production rooms and their effects on mushroom quality. *Mushroom News* 53(1):6-12.
- Govere, E. M., M. Tonegawa, M.A.Bruns, **E. F. Wheeler**, P. H. Heinemann, K. B. Kephart and J. Dec. 2005. Deodorization of swine manure using minced horseradish roots and peroxides. *J. Agriculture, Food and Chemistry*. 53, 4880-4889
- Gates, R.S., H. Xin, K.D. Casey, Y. Liang, **E. F. Wheeler**. 2005. Method for Measuring Ammonia Emission from Poultry Houses. *Journal of Applied Poultry Research* 14(3):622-634.
- Liang, Y, H. Xin H. Li, R.S. Gates, **E.F. Wheeler** and K.D. Casey. 2005. Effect of measurement interval on estimation of ammonia emission rates for layer houses. *Transactions of ASAE*: 49(1): 183-186.
- Gates, R.S., K.D. Casey, H. Xin, **E.F. Wheeler** and J.D. Simmons. 2004. Fan assessment and numeration system (FANS) design and calibration specifications. *Transactions ASAE*: 47(5):1709-1715.
- Li, H., H. Xin, Y. Liang, R.S. Gates, **E.F. Wheeler**, and A.J. Heber. 2004. Comparison of direct vs. indirect ventilation rate determinations in layer barns using manure belts. *Transactions of the ASAE*: 48(1):367-372,
- **Wheeler, E. F.**, J. L. Zajaczkowski, N. C. Sabeh. 2003. Field evaluation of temperature and velocity uniformity in tunnel and conventional ventilation broiler houses. *Applied Engineering in Agriculture* 19(3):367-377.
- **Wheeler, E.F.**, J.L. Zajaczkowski and R.E. Graves. 2003. Effect of solar shielding on portable datalogger temperature readings. *Journal of Applied Engineering in Agriculture* 19(4):473-481
- Gay, S.W., **E.F. Wheeler** and K.B. Kephart. 2001. Reliability of odor offensiveness quantification using the refined cloth swatch olfactometric technique. *Transactions of ASAE* 44(6)1895-1900.
- **Wheeler, E. F.**, J. L. Smith, R. W. J. Weiss, R. M. Hulet. 2000. Temperature stratification and fuel use during winter conditions in three Pennsylvania broiler houses. *Journal of Applied Poultry Research* 9(4):551-563.
- **Wheeler, E. F.**, R. W. J. Weiss and E. Weidenboerner. 2000. Evaluation of instrumentation for the measurement of aerial ammonia in poultry housing *Journal of Applied Poultry Research* 9(4):443-452.
- Wilson, L. L., J. L. Smith, D.L. Smith, D. L. Swanson, T. R. Drake, D. R. Wolfgang, and **E. F. Wheeler**. 2000. Characteristics of veal calves upon arrival at 28 and 84 days and the end of the production cycle. *Journal of Dairy Science* 83(4):843-854.
- Wood, S. L., **E. F. Wheeler** and R. D. Berghage. 2000. Removal of dimethyl disulfide and p-cresol from swine facility wastewater using constructed wetlands. *Transactions of ASAE* 43(4):973-979.