



Controlling Ammonia and Air Emissions in Poultry Facilities

December 17, 2010

2:30 p.m. (eastern), 1:30 p.m. (central), 12:30 p.m. (mountain), 11:30 a.m. (pacific)

Interested in knowing more about air emissions from poultry operations and why there is growing interest in reducing ammonia emission? What are current ammonia mitigation options at poultry facilities? What promising options are being developed? Join us for a webinar aimed to address these questions as we explore ammonia mitigation options in broiler chicken and laying hen housing systems. Ammonia emission originates from the bird manure so presentations will focus on both pre-and post-manure-excretion strategies. Strategies will include diet manipulation and feed or water additives as well as reducing ammonia generation and/or emission from the facility. Manure additives, vegetative buffers, biofilters and exhaust air scrubbers are some of the featured options. Where available, economic data will be emphasized. *An application for continuing education credit for Certified Crop Advisors (CCAs) and members of the American Registry of Professional Animal Scientists (ARPAS) will be submitted.*



Dr. Eileen Wheeler is a professor of agricultural engineering at the Pennsylvania State University. She has integrated research and extension programs that focus on air quality in animal housing, air emissions from animal agriculture, environmental impacts on animals, and constructed wetlands for agricultural waste treatment. Her educational programs include topics such as better livestock housing, greenhouse environment, horse stable engineering and ventilation principles. She received her Ph.D. in Agricultural and Biological Engineering from Cornell University. Phone: (814) 865-3552; Email efw2@psu.edu

Dr. Hongwei Xin is a professor in the Department of Agricultural and Biosystems Engineering at Iowa State University with an adjunct appointment in the Department of Animal Science. Dr. Xin is Director of the National Egg Industry Center. His research and extension programs focus on a) air quality issues relative to animal (particularly poultry) feeding operations with special emphasis on quantification, modeling and mitigation of air emissions; and b) impacts of housing and management practices on animal (particularly poultry) welfare-behavior-health, production efficiency and sustainability. Dr. Xin received his Ph.D. from the University of Nebraska. Phone: (515) 294-4240; Email: hxin@iastate.edu



Dr. Robert T. Burns is now an assistant dean at the University of Tennessee. Prior to this, he was a professor at Iowa State University, where his research focused on animal waste management and included work on anaerobic digestion, solids separation, phosphorus recovery, and air emissions monitoring and mitigation from animal production facilities. He was also a faculty member at the University of Tennessee for nine years where he served as the Water Quality and Waste Management Specialist for the Tennessee Agricultural Extension Service. Dr. Burns received his Ph.D in Civil Engineering from the University of Tennessee. Phone: (865) 974-7112; Email: rburns@utk.edu

Join the Discussion

Before or after the webcast, ask questions, post comments, upload photos, or share you experiences with these topics by going to <http://animalag.ning.com>. Click on "discussion" to start, contribute, or follow discussions.

How Do I Participate?

On the day of the webcast, go to http://www.extension.org/pages/Live_Webcast_Information to download the speakers' presentations and connect to the virtual meeting room. First-time viewers should also follow the steps at: http://www.extension.org/pages/How_Do_I_Participate_in_a_Webcast%3F.

Links For More Information:

* LPE Curriculum www.extension.org/pages/Livestock_and_Poultry_Environmental_Stewardship_Curriculum_Lessons

* Mitigating Air Emissions from Animal Feeding Operations Conference

www.ag.iastate.edu/wastemgmt/Mitigation_Conference_proceedings/Conference%20Proceedings.htm

The LPE Learning Center is a project dedicated to the vision that individuals involved in public policy issues, animal production, and delivery of technical services for confined animal systems should have on-demand access to the nation's best science-based resources. See our website at: <http://www.extension.org/animal+manure+management>.