



Livestock & Poultry Environmental Learning Center News

Connecting Experts With Those Advising Animal Producers

July 2011

<http://www.extension.org/animal+manure+management>

Looking Forward to the July Webcast

Live From the North American Manure Expo

We will live broadcast some of the educational sessions from the North American [Manure Expo](#) to be held in Norfolk, Nebraska on July 20, 2011. The planned broadcasts are:

- 8:00 am (central) "Using and Setting Up a Center Pivot For Sprinkler Irrigation of Manure"
- 1:00 pm (central) "Is Manure Stockpiling an Environmental Risk?"
- 2:30 pm (central) "Winter Application of Manure on Frozen Soils, Lessons Learned from Wisconsin Discovery Farms"



We hope to record and archive several more presentations as well as record many of the outdoor demonstrations. Look for those videos in future newsletters!

To access the live webcasts, go to <http://breeze.unl.edu/lpe>. Note the different meeting room than our usual one! Select the "enter as guest" option and type your name in the provided box. You can test your ability to connect to the system at any time by visiting

http://breeze.unl.edu/common/help/en/support/meeting_test.htm.

What Is Going On In the LPE Learning Center?

LPELC Award, Air & Climate Courses



LPELC Award. The Livestock and Poultry Environmental Learning Center was named Outstanding Community of Practice during the eXtension National CoP Workshop on June 29, 2011. Thanks to all of our outstanding team members and partners for their contributions. [More...](#)

Air & Climate Courses. Several online courses developed by USDA's Natural Resource Conservation Service (NRCS) are the recipient of a "Blue Ribbon Award" given to outstanding educational products by the American Society of Agricultural and Biological Engineers (ASABE). In addition to an introductory course, you can follow tracks in air quality, energy and climate change. These courses are accessible through the LPELC website. [More...](#)

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National Resources

National Academies Press, Correction,

National Academies Press. The National Academies Press recently announced that it is making PDF versions of its publications available for free download from its website. These scientific publications represent a great deal of accumulated effort by experts in many different fields. [More...](#)



Correction: Air Quality Paper. *Last month, the link to this paper was moved shortly after the newsletter was released. If you missed it, here is a corrected link.* The Council for Agricultural Science and Technology (CAST) recently released an issue paper “Air Issues Associated with Animal Agriculture: A North American Perspective”. This paper examines each species, different air emissions of interest, and summarizes research available in each of these areas. [More...](#)

Spotlight On:

FPPC Summit, Air Mitigation Spreadsheet Project, Sidedressing Manure, Wallabies & Methane, E coli in sediment



FPPC Summit. Building on a successful technology exchange last year, FPPC intensifies its focus on the nutrient challenge of the Midwest region. This Technology Summit will be held in Des Moines, Iowa July 14-15. The theme of this year's symposium will focus on “Strategies to Increase Yields and Revenue on the Farm Using Nitrogen Capture and Renewable Energy Technologies”. Farm Pilot will update participants on results of their technology pilot projects and discuss the importance of recent developments impacting animal agriculture. [More...](#)

Air Mitigation Spreadsheet Project. Bill Lazarus, extension economist at the University of Minnesota, is working on a spreadsheet decision tool that will compare the costs and benefits of various air quality mitigation treatments for livestock operations. The effort is being supported under the USDA-NIFA project “Mitigation Monitoring and Microbial Assessment of Gas-Phase Biofilters and Extension Outreach” directed by Kevin Janni, University of Minnesota agricultural engineer. The spreadsheet is intended to assist the operator of a livestock or poultry operation to calculate the cost of installing and operating one or more technologies to treat odors and gases that could be emitted from various parts of the facility. The technologies included in the spreadsheet so far are biofilters, manure storage covers, and vegetative environmental buffers, with more to be added as the engineering and cost parameters become available. The benefits of such technologies are often nebulous, but will be included to the extent possible. The first and foremost benefit of air quality mitigation may be where new facility or

expansion gets built and generates income, where otherwise odor concerns in nearby communities might have stopped it. Other potential benefits could be shorter driveways and utility lines along with less interference with crop machinery if the facility can be located in the corner rather than in the interior of the property. Dr. Lazarus would welcome collaboration or suggestions about technologies to include, how to model the costs and benefits, or any other thoughts on the model. w lazarus@umn.edu or (612)625-8150.

Sidedressing Manure. "Will we be sidedressing manure in the future?" is a question asked by this article from Michigan State and Ohio State extension staff. [More...](#) See a related LPELC webcast by Glen Arnold of Ohio State [Webcast...](#)

Wallabies & Methane. The unique gut bacteria of the Tammar wallaby means that this animal only produces one-fifth the methane of ruminants when equalized to account for digestible food intake. This bacteria is going to be studied further for possible application to reducing methane emissions from farm livestock. [More...](#)

E. coli & Sediment. Research by the USDA's Agricultural Research Service has shown that Escherichia coli bacteria, an indicator organism used to measure fecal contamination of water, can persist for long periods of time in the sediments, much longer than in the surface water. [More...](#)

For even more news from the world of manure management, check out the LPELC [newsroom](#)

Events and Announcements

Manure Expo, Conservation Tour, Composting Demo

Manure Expo. The North American Manure Expo is only two weeks away! Come visit Norfolk, Nebraska on July 20, 2011 to experience the latest in manure application technology. There will be educational sessions, equipment displays, demonstrations, and continuing education opportunities. Check out the program at <http://manureexpo.com>



Conservation Tour. Critical watershed concerns - such as increasing amounts of dissolved phosphorus - in Ohio's Maumee River and Lake Erie require broad discussion and collaborative efforts. Join the Conservation In Action Tour to meet producers and partners implementing innovative conservation practices and discuss agriculture's contributions to water quality solutions. [More...](#)

Composting Demo. A composting demonstration day will be held at the Dickinson Research Extension Center in Dickinson, North Dakota. August 16 starting at 9:30 am (mountain) [More...](#)

Have your state/regional/national event added to our [calendar of events](#). Send them to Jill at jheemstra@unl.edu.

The LPE Learning Center is a community of practice within the National eXtension Initiative | Room 6 ACB | Lincoln | NE | 68583-0918

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