

Workshop and Field Day: Mitigating Ammonia Emissions from Poultry Facilities for Fertilizers

September 26, 2012

Liberty Township Community Center
New Day Farms, LLC



Purpose

This workshop is organized to provide poultry producers and professionals with a systematic approach to managing ammonia emissions in poultry production. The most effective and innovative technologies for nitrogen conservation and recovery of NH_3 emissions, including diet modification, manure additives, manure composting, and wet scrubbing of ammonia emissions, will be introduced. The manure composting and ammonia wet scrubbing technologies are very promising to minimize environmental impacts of poultry production and create valuable products of solid and liquid nitrogen fertilizer.

Ammonia (NH_3) emissions have become a significant environmental and public concern as it impacts human health, the ecosystem, and promotes the formation of small aerosol particles ($\text{PM}_{2.5}$) which is a human health hazard. The increased public concerns and air quality regulations make animal producers subject to regulator enforcement of NH_3 emissions. In addition, as the price for nitrogen fertilizer increases there are concerns about the availability and price of nitrogen fertilizer for farming.

It is important to control NH_3 emission on the farm as well as conserve nitrogen from food animal production facilities, especially poultry facilities. Ammonia recovery and nitrogen conservation will provide an opportunity for producers to enhance farm profitability and improve environmental quality.

Agenda

8:30 am Registration and continental breakfast

9:30 am Overview of NH_3 mitigation BMPs and BATs (Dr. Lingying Zhao, The Ohio State University)

Using diet modification and manure additives to reduce ammonia emission (Dr. Wendy Powers, Michigan State University)

A manure additive to reduce NH_3 emissions from poultry facilities (Richard Riddle, Pelican Solutions and Michael Bralkowski, GFS)

New Day manure composting facilities for nitrogen conservation (Steve Bliesner, New Day Farms, LLC)

Noon Lunch (provided)

1:00 pm Formulating enhanced efficiency fertilizers (John Moriarty, Nutrients Plus, LLC)

OSU acid spray wet scrubber to recover NH_3 emissions for nitrogen fertilizer (Lara Jane Hadlocon and Dr. Zhao, The Ohio State University)

2:40 pm Demonstration of OSU NH_3 wet scrubber (Lara Jane Hadlocon and Dr. Zhao)

Tour of manure composting facilities of New Day Farms (Steve Bliesner and Mark Meyer)

4:00 pm Have a safe trip home!

Who should attend

- Poultry and Livestock Producers
- OSUE Educators and Field Specialists
- Agricultural Agency Professionals
- Environmental Consultants

Continue Education Credits

Engineer attendees of this workshop can earn 4.5 Ohio PE CPD hours.

Certified Livestock Manager (CLM) attendees of this workshop can earn 4.5 continuing education credits.

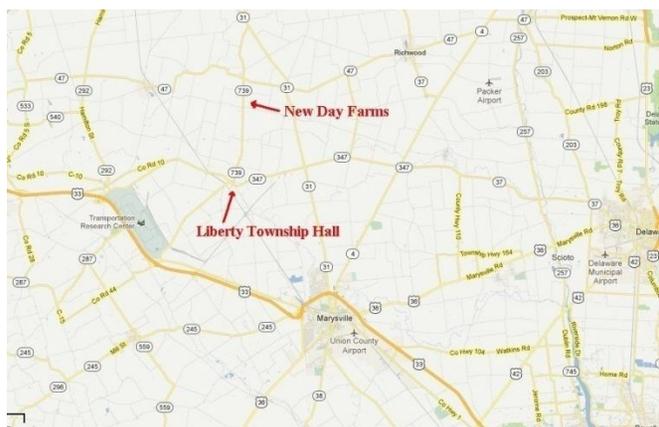
Workshop Location

Liberty Township Community Center,
 21463 Main Street
 Raymond, OH 43067
 Phone: (937) 246-0264
libertytownshipunionco.com/contact.html



Field Day Location

New Day Farms LLC
 27322 Ohio State Route 739
 Raymond, OH
 Phone: (937) 358-2114



Sponsors



Thank you for your support!

Program Questions

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 Keith L. Smith, Associate Vice President for Agricultural Administration and Director, Ohio State University Extension
 TDD No. 800-589-8292 (Ohio only) or 614-292-1868

(Registration fees cover materials, meals, and breaks)

Name / Organization _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____ Email _____

Registration Fee \$35 _____ or \$45 after Sep. 20th _____

Charfield payment: Org _____ Fund _____ Acct _____

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Make checks payable to:
 The Ohio State University/FABE

Return this form and your payment to:
 Amanda Meddles
 The Ohio State University
 590 Woody Hayes Drive
 Columbus, Ohio 43210

Registration questions:
 Please contact:
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