



Improving Modeling and Mitigation Strategies for Poultry Ammonia Emissions Across the Chesapeake Bay Watershed: A Virtual STAC Workshop

Day 1: November 19, 2021

Objective: This meeting is to provide a high-level overview of ammonia emissions and loads, how we deal them, and a review of the key questions to be addressed.

Agenda Overview

- 8:45 Zoom will open up
9:00 Introduction to the workshop—*Joe Wood (CBF), Kathy Boomer (FFAR, STAC)*

Session 1: Approaches to modeling ammonia emissions and transport

- 9:30 Apportionment of air sources through CMAQ—*Jesse Bash (EPA)*
9:50 Conceptual model of how air sources fit into Chesapeake Bay Modeling—*Gary Shenk (USGS)*
10:10 Tracking litter amendment use through surveys—*Mark Dubin (UMD), Paul Bredwell (US Poultry and Egg Association)*

Session 2: Management Approaches

- 10:30 What Management Strategies influence ammonia transport? What is the relative Cost Effectiveness? Co-benefits?—*Hong Li (UDel), Sanjay Shah (NCSU), Eileen Fabian (PSU)*
11:30 Schedule of future breakout meetings and opportunities for participation-- *Joe Wood (CBF)*
12:00 Adjourn

Following Day 1 of the Workshop, smaller subgroups will meet to address specific questions. Draft questions include, but are not limited to the following:

- How can new CMAQ results influence out bay modeling effort?
- Litter Surveys, What do they Show, how can the bay partnership support this tool?
- Meeting to discuss cost-effectiveness across BMPs. Which efforts stand out as the most cost effective?
- Meet to discuss co-benefits of various controls
- Meet with NRCS and State Cost-share offices to discuss implementation on ammonia practices. What informed current decisions making about investment? Are there opportunities to enhance investment?
- What role does ammonia deposition have upon freshwater portions of the watershed?