

**Scientific and Technical Advisory Committee (STAC) Workshop Series:**

**Improving Modeling and Mitigation Strategies for Poultry Ammonia across the Chesapeake Bay Watershed**

[**Register to receive Zoom Link**](https://us02web.zoom.us/meeting/register/tZYvdOqqrz4tHN0ZEFk0udNuQCjbjKWDnLTR)

9:00 **Welcome**

*Kathy Boomer, Foundation for Food and Agricultural Research, STAC Chair*

9:05 **Workshop Introduction**

 *Joe Wood, Chesapeake Bay Foundation*

*Holly Porter, Delmarva Chicken Association*

9:20 **Presentation Question Task (10 minutes total)**

*Mike Foreman, University of Virginia*

*Annabelle Harvey, Chesapeake Research Consortium, STAC Coordinator*

**JamBoard Test Question**: What has been your “go to” restorative activity during the pandemic?

[**Link 1**](https://jamboard.google.com/d/1Fh6plkQAojSxBGrwnXIiNmFrVgfSixuVb5ZTJVEmFaM/edit?usp=sharing)

[**Link 2**](https://jamboard.google.com/d/1nlvQBeOwxXoJU4mrp3j1JUquYUZcr7HbfnIipNd490Y/edit?usp=sharing)

**Session 1: Approaches to Modeling Ammonia Emissions and Transport**

**Session 1 JamBoard:** [**Link 1**](https://jamboard.google.com/d/1MtL6jrupQdJwIAzrzjJIQdAL-oZZjSOHbCzXntmr4HI/edit?usp=sharing)**,** [**Link 2**](https://jamboard.google.com/d/1ny7wn91nP-KJY7_xAAtLkrVoE_Yo1pO6xu80BqwORxM/edit?usp=sharing)

9:30 **Apportionment of air sources through CMAQ**

*Jesse Bash, EPA*

* What additional questions need to be addressed about this approach?
* What future analyses would be most beneficial?

9:50 **A conceptual model of how air sources fit into Chesapeake Bay Modeling,** *Gary Shenk, USGS*

* What are the challenges with the current framework?
* How might the partnership look to modify?

10:10 **Local Surveys and improving understanding of implementation**

*Mark Dubin, University of Maryland*

*Paul Bredwell, U.S. Poultry and Egg Association*

* How can litter surveys improve our understanding? What other ways might we improve our understanding of management efforts?
* How could these inputs inform our modeling efforts?

10:30 **Debrief the Modeling Questions**

 *Mike Foreman, University of Virginia*

10:35 5-minute Break

**Session 2: Approaches to Ammonia Management**

**Session 2 JamBoard:** [**Link 1**](https://jamboard.google.com/d/17L95BVgp4LcLPUNgldh0y-_ViG4txqxOGQh5jF5ulLc/edit?usp=sharing)**,** [**Link 2**](https://jamboard.google.com/d/1pCWhp39JwZu1awfFur5ot5LDyBsPN95qQxCHUGbp6Hw/edit?usp=sharing)

10:40   **What management strategies influence ammonia transport? What is the relative cost effectiveness? co-benefits?**

*Hong Li, University of Delaware*

*Sanjay Shah, North Carolina State University*

*Eileen Fabian, Penn State University*

* What are key challenges related to implementing these BMPs and how might the partnership address these challenges??
* Are there other co-benefits we are not considering?
* What critical research questions remain?

11:40 **Debrief the management approaches**

 *Mike Foreman, University of Virginia*

11:45 **Schedule of future breakout meetings, Future opportunities for participation**

*Joe Wood, Chesapeake Bay Foundation*

**Next Steps JamBoard:** [**Link 1**](https://jamboard.google.com/d/1QqtkDF5UJMmHJfkm0ud1w7UrsmkHunU0x8I6d4_SAOY/edit?usp=sharing)**,** [**Link 2**](https://jamboard.google.com/d/1gT4wR7vw-vwTaeAKfTZCTvIqCAtU_0D8Sg6_5mGXCgc/edit?usp=sharing)

* What important questions in this space have we not covered; Do you have suggestions for new groups/ focused discussion?
* Do you have suggested resources we should review?

Future meetings will take a deep dive into these issues, including but not limited to the following.

[**Please complete this form to attend one or more of these sessions**.](https://forms.gle/oJHg799ZQtueFcFX8)

* What are the key decisions points related to this issue? Is the partnership supporting these decision points? How might they?
* Historic Cost-Share Investments. What informed current decisions making about investment? Are there opportunities to enhance investment?
* CMAQ apportionment deep dive: How can these new results inform out bay modeling/bay restorations efforts? What questions are there about the approach?
* How much ammonia reaches freshwater portions of the watershed? Any implications?
* Litter Surveys, what do they show, should the bay partnership support this tool, if so, How?
* What is the effectiveness of BMPs at mitigating ammonia? How have these historically been modeled? Cost-effectiveness of ammonia influencing BMPs? co-benefits? carbon, bird health, etc.

12:00 **Adjourn**