

STAC

Lag-time Workshop Proposal

Organizing committee

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What's the issue – the time between action and results can be very long for actions aimed at reducing the flux of nitrogen, phosphorus or sediment to the Bay

- Ground water transport**
- Soil processes**
- Stream bed sinks**
- Reservoirs**
- Floodplains**
- Vegetation**

Explore these science questions:

- New conceptual models**
- New measurement methods**
- Are there mathematical models that can be used? Are they ready for “prime time”?**

Explore these policy questions:

- How to convey these lag phenomena to the public and public officials?**
- How to consider lag times in pollutant trading systems?**
- What are the implications for accountability?**
- How to deal with the reality of lag times in a regulatory context where the model ignores lag times?**

Topical organization of workshop:

- Lags associated with cycle of erosion and deposition of sediment (including attached N and P)**
- Lags associated with cycling and transport through vegetation, soil & groundwater**
- Social, economic, legal, and perceptual issues**
- New paradigms for modeling**

What the workshop will not cover:

- Critique of existing Chesapeake Bay Watershed Model**
- Evaluation of lag-time issues within the Bay itself (bottom sediment, aquatic plant and animal population responses)**

Potential speakers

- **Erosion and deposition:**
 - **Jim Pizzuto (U. Delaware)**
 - **Margaret Palmer (U. Maryland)**
 - **Karin Prestegard (U. Maryland)**
 - **Cully Hession (Virginia Tech)**
- **Dissolved material**
 - **JK Bohlke (USGS)**
 - **Ken Staver (U. Maryland)**
 - **Ward Sanford (USGS)**
 - **Don Meals (Vermont consultant)**

Potential speakers (continued)

- **Social Science:**
 - **Jim Shortle (Penn State)**
- **Conceptual models**
 - **Dick Smith (USGS)**
 - **Claire Welty (UMBC)**
 - **Chris Duffy (Penn State)**

Plan

- **Invitation only – 40 to 50 people**
- **2 days in September**
- **Annapolis area**
- **Produce white paper and 5-page executive summary in 90 days)**
- **Budget request \$7,500**