



“Legacy” Sediment, Riparian Corridors, and Total Maximum Daily Loads

A Scientific and Technical Advisory Committee (STAC) Workshop

April 24-25, 2017

Workshop Location: Westin Annapolis, 100 Westgate Circle, Annapolis MD 21401
http://www.chesapeake.org/stac/workshop.php?activity_id=276

This STAC workshop will be structured around panel discussions on each of three themes as outlined below, with four-five experts on the panel who will be asked to address specific questions and cite key evidence (~10 minutes per panelist). These will be followed by Q&A and group discussion. Following all panels, individuals designated as “synthesizers” will come up with discussion points to summarize or respond to the panel. Panelists will be asked to prepare notes with reference citations that can be used by the steering committee in preparing the workshop proceedings.

DAY 1:

9:30 – 10:00 am Sign-In and Coffee (provided)
10:00 – 10:30 am Welcome, Introductions, Overview of workshop Objectives and
 Outcomes – *Andy Miller, UMBC*

Theme A: State of the Science

10:30 – 12:00 pm **A1 Panelists:** *Allan James (University of South Carolina), Sean Smith (University of Maine), Dorothy Merritts (Franklin and Marshall), Greg Noe (USGS)*

- How should legacy sediment be defined in the context of the Chesapeake Bay management effort?
- What is the importance of legacy sediments compared to other sediment sources affecting Bay conditions?
- To what extent do legacy sediments provide an important source of nutrient contributions by comparison with other sources?

12:00 – 12:45 pm Lunch (provided)

12:45 – 2:15 pm **A2 Panelists:** *Jim Pizzuto (University of Delaware), Cliff Hupp (USGS, retired), Allen Gellis (USGS), Karl Wegmann (North Carolina State University)*

- How do the distribution, characteristics and relative magnitude of legacy sediment vary with watershed scale or geographic location?
- To what extent are lag times for sediment delivery and intermediate floodplain storage processes relevant to our assessment of the problem?

2:15 pm Break

Theme B: Mitigation Approaches and Assessment of their Effectiveness

2:30 – 3:45 pm **B1 Panelists:** *Art Parola (Stream Institute, University of Louisville), Solange Filoso (University of Maryland Center for Environmental Science), Drew Altland (RK&K), Tess Thompson (Virginia Tech)*

- What do we know about the engineering reliability and water-quality effectiveness of practices designed to mitigate the potential downstream impacts of legacy sediment at the watershed scale?

3:45 pm Break

4:00 – 5:15 pm **B2 Panelists:** *Don Weller (Smithsonian Environmental Research Center), Bern Sweeney (Stroud Water Research Center), Peter Kleinman (USDA-ARS), Kathy Boomer (The Nature Conservancy)*

- What do we know about the relative effectiveness at the watershed scale of practices designed to retain or prevent mobilization of sediment and associated nutrients from sources other than legacy sediment?

5:30 pm Adjourn Day 1

DAY 2:

8:30 – 9:00 am Light breakfast (provided)

9:00 – 9:30 am Recap Day 1

Theme C: Management, Policy, and Decision-making

9:30 – 12:00 pm **Panelists:** *Kevin Smith (Maryland Department of Natural Resources), Stu Schwartz (UMBC), Erik Michelson (Anne Arundel County Dept. of Public Works), Gary Shenk (USGS/CBPO), Ryan Cole (MD State Highway Administration), Denise Clearwater (Maryland Department of the Environment)*

- How do we decide on the appropriate combination of controls from Theme B (both in design and number) to reduce impacts on Chesapeake Bay?
- What are costs and constraints that influence ability to implement practices?
- What additional information do managers need to inform their choices?

12:00 – 12:45 pm Lunch (provided)

Panel Synthesis

12:45 – 1:30 pm	Theme A Panel Response and Discussion – A1 Synthesizers: <i>Mike Langland (USGS), Andy Miller (UMBC), Bob Walter (Franklin and Marshall)</i> A2 Synthesizers: <i>John Brakebill (USGS), Katie Skalak (USGS), Dorothy Merritts (Franklin and Marshall)</i>
1:30 – 2:15 pm	Theme B Panel Response and Discussion – B1 Synthesizers: <i>Scott Lowe (McCormick Taylor), Mike Trumbauer (Biohabitats, Inc.), Sean Smith (University of Maine), Jeff Hartranft (PA Department of Environmental Protection)</i> B2 Synthesizers: <i>Karen Prestegard (University of Maryland), Matt Baker (UMBC), Tom Schueler (Center for Stormwater Protection)</i>
2:15 – 3:00 pm	Theme C Panel Response and Discussion – C Synthesizers: <i>Ann Swanson (Chesapeake Bay Commission), Lisa Wainger (University of Maryland Center for Environmental Science), Dave Goerman (PA Department of Environmental Protection)</i>
3:00 – 3:30 pm	Concluding Thoughts and Next Steps
3:30 pm	Adjourn