Chesapeake Bay Program
Science. Restoration. Partnership.

Integrated Trends Analysis Team (ITAT)

Wednesday, January 22nd, 2025

10:00 AM – 11:00 AM

Join by Webinar (Microsoft Teams)

Meeting Link

Meeting Number: 258 013 106 426

Password: i4ip9q

Or join by phone

Conference Line: +1 469-208-1525

Access code: 292973256#

Meeting Materials: Link

This meeting will be recorded for internal use only to assure the accuracy of meeting notes.

Closed Captioning will be available for this meeting. To turn on the closed captioning, click on the 3 ellipses (More actions), then click on "Turn on live captions" (preview).

AGENDA

10:00 – 10:05 AM *Welcome – Breck Sullivan (U.S. Geological Survey, USGS) and Kaylyn Gootman (Environmental Protection Agency, EPA)*

Announcements:

- Scientific and Technical Advisory Committee (STAC) Sponsored Workshop Proposals due ***COB February 10, 2025***.

Upcoming Conferences, Meetings, Workshops and Webinars:

- 14th National Monitoring Conference – March 10-12, 2025, Green Bay, Wisconsin.
- The 35th Annual Environment Virginia Symposium – April 8-10, 2025, Lexington, VA.

10:05 – 10:35 AM *Physical and Biological Controls on Diel Dissolved Oxygen and Water Quality Dynamics along the Potomac River Continuum: from Non-tidal to Tidal Waters*

Presenter(s): *Weston Slaughter (University of Maryland, College Park)*

Description: This research investigates the longitudinal gradients and drivers of dissolved oxygen (DO) and other water quality parameters in the Potomac and Anacostia watersheds, spanning over 200 km from freshwater to tidal zones. Using high-frequency sensors, routine sampling, and longitudinal monitoring, it reveals significant seasonal patterns and relationships, offering insights into biogeochemical processes and advancing remote sensing applications for sub-daily DO estimation.

10:35 - 11:00 AM *Relating Management Practice Implementation and Modeled Load Reductions in the Chesapeake Bay Watershed*

Presenter(s): *Helen Golimowski and Olivia Devereux (Devereux Consulting)*

> *Description: The Chesapeake Bay watershed's restoration efforts under the Total Maximum Daily Load (TMDL) plan are hindered by insufficient actions to reduce nonpoint nutrient sources, with unexpected variations in nutrient loading rates despite best management practice (BMP) implementation. Using data from the Chesapeake Assessment Scenario Tool (CAST), this study identifies geographic and sector-specific opportunities for water quality improvement, revealing that nutrient application changes and modeling assumptions significantly influence outcomes, particularly for agricultural nitrogen, and provides insights for refining future strategies.*

11:00 AM Adjourn

Next Meeting: Wednesday February 26th, 2025, from 10 AM – 12 PM