

SCIENCE & TECHNICAL ADVISORY COMMITTEE



DELAWARE CENTER FOR THE
INLAND BAYS
Research. Educate. Restore.

DATE & TIME: February 1, 2019 -- 9:00 a.m. to 12:30 p.m.

LOCATION: DNREC Lewes Field Facility, end of Pilottown Road, Lewes

Meeting called by: Scott Andres, Chair

MEETING AGENDA

Call to order, STAC announcements Scott Andres

CIB announcements Marianne Walch

Water Quality Modeling in Delaware's Inland Bays: Lessons Learned..Damien Brady, Univ. of ME

Discussion of previous efforts to model the Inland Bays, with focus on what aspects of a new model will be necessary to incorporate.

The Importance of water quality and eutrophication models in understanding the causes of improving and degrading water quality Dominic DiToro, Univ. of DE

Examples will be presented to illustrate where an available model provided the cause of an unexpected algal bloom, and where the lack of a model led to the failure of a clean up effort. The use of models in interpreting water quality survey data and evaluating the impact of loading increases and reductions will be discussed.

Benthic biogeochemistry in shallow coastal ecosystems:
Lessons learned from East Coast estuariesJeffrey Cornwell, UMCES

The cycling of nutrients and oxygen in shallow coastal ecosystems has a strong benthic component, with considerable amounts of retention/recycling via benthic photosynthesis, nutrient deposition/burial, and recycling back to the water column. Using examples from coastal Maryland and Delaware, as well as studies in New York and Florida, processes that control benthic nutrient cycling will be discussed in the context of Delaware's Coastal Bays.

Developing a Terrestrial and Management Model..... Olivia Devereux, KCI Technologies
& Mark Nardi, USGS

This presentation will show how the use of a terrestrial and management model. We will walk through the questions that can be answered using this modeling approach including identifying pollutant sources. We will also discuss how these results carry down to an estuarine model

Panel discussion

New Business

Adjourn

2019 STAC MEETING DATES: February 1, May 10, July 26, November 1