



York River Research Symposium

March 30, 2016, Virginia Institute of Marine Science, Gloucester Point, VA

Agenda

8:30 am – Welcome, Sandra Erdle, Coastal Training Program Coordinator, Chesapeake Bay National Estuarine Research Reserve (CBNERR)

8:35 am – **Sentinel for Ecosystem Change: The York River Estuary.** William Reay, Director, CBNERR

8:50 am - **The Chesapeake Bay Sentinel Site Cooperative: A regional collaborative network to monitor sea level change impacts and build coastal resilience.** Sarah Wilkins

9:05 am – Stakeholder input / interactive questions

Harmful Algal Blooms

9:15 - **Harmful algal blooms in the lower York River: Emerging patterns and impacts on oysters.** Kimberly S. Reece, Ryan B. Carnegie, Thomas M. Harris, William M. Jones III, Patrice L. Mason, Sarah K. D. Pease, Gail P. Scott, Juliette L. Smith, Wolfgang K. Vogelbein

9:30 am - ***Alexandrium monilatum* in the lower Chesapeake Bay: cyst distribution and potential health impacts on adult oysters.** Sarah K. D. Pease, Wolfgang K. Vogelbein, Kimberly S. Reece

9:45 – 10:15 am – **BREAK (visit posters)**

10:15 am - **Emergence of *Alexandrium monilatum* in the Lower York River: Impacts on Aquatic Organisms.** Wolfgang K. Vogelbein, Thomas M. Harris, Juliette Smith, Patrice Mason, William Jones and Kimberly S. Reece

10:30 am - **Temporal dynamics of York River microbiomes.** B. Song, W. Jones, E. Miles, B. Neikirk, G. Scott, and K. Reece

Physical and Chemical Science

10:45 am - **What Controls Bed Erodibility in Muddy, Partially-Mixed Estuaries? Insights from the York River, Virginia.** Carl T Friedrichs, Grace M Cartwright, Patrick J Dickhudt, Kelsey A Fall, and Lindsey M Kraatz

11:00 am - **Examining spring-neap cycle variation in bed erodibility in the York River estuary, VA: a numerical study.** Danielle R. N. Tarpley, Courtney K. Harris, Carl T. Friedrichs

11:15 am - **Influence of suspended particle properties on optical properties and resultant water clarity along a partially-mixed estuary, York River, Virginia, USA.** Kelsey A. Fall, Carl T. Friedrichs, Grace M. Cartwright, and David G. Bowers

11:30 am - High-Resolution Sub-Grid Inundation Modeling and Forecasting along the York River Estuary. Jon Derek Loftis

11:45 am - Novel pathways to dinitrogen via metal-mediated anaerobic ammonium oxidation. Julie L. Krask, Aaron J. Beck

12:00 noon - Carbon Dynamics at the Marsh-Estuarine Interface. Amanda L. J. Knobloch, Elizabeth A. Canuel, Mark J. Brush, Patrick J. Neale, Maria Tzortziou, and William G. Reay

12:15 – 1:15 pm – LUNCH (on your own) – visit posters

Habitat Vulnerability

1:15 pm - Assessing changes in seagrass species dominance and habitat services after a die-off event in the York River, VA. Erin Shields, Kenneth Moore, Emily French, and Bongkeun Song

1:30 pm - Understanding Coastal Habitat Vulnerability to Sea Level Rise Impacts to Inform Resource Management Efforts. Scott Lerberg, William G. Reay, Alex Demeo

1:45 pm - A Dendrological Assessment of Loblolly Pine (*Pinus taeda*) Along a Salinity Gradient Within Four Tidal Wetland Sites Along the York River Estuary, VA. Robert Atkinson, Brittany Bowen

2:00 pm - Competition between marsh erosion and forest retreat drives 150 years of wetland change inferred from historical maps of the Chesapeake Bay. Nathalie W. Schieder, David C. Walters, Matthew L. Kirwan

Fisheries and Wildlife Science

2:15 pm - Assessing the Sustainability of Virginia's Commercial Snapping Turtle Harvest. John (J. D.) Kleopfer, Benjamin Colteaux

2:30 – 2:45 pm - BREAK (visit posters)

2:45 pm - Birds of a feather flock together? Exploring population structure and introgression in the king-clapper rail complex. Stephanie S. Coster, Amy B. Welsh, Gary Costanzo, Jeff Cooper, Sergio Harding, James T. Anderson, Todd E. Katzne

3:00 pm - Larval fish assemblage dynamic in York River estuary. Cindy Marin Martinez and Eric J. Hilton

Archeological Studies

3:15 pm - York River Stewardship Project: Yorktown Shipwrecks Survey. Michael Steen

3:30 – 3:45 pm – wrap up and dismissal