



## 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**