Shoreline Best Practice Case Studies
Thursday June 14, 2018
Virginia Institute of Marine Science
Gloucester Point, VA

PLANNED AGENDA

8:00 – 9:00 am   *Check-in & Coffee*

9:00 – 10:30 am   *CASE STUDY REVIEWS*   *Watermen's Hall auditorium*

Workshop Objectives *Karen Duhring, VIMS Center for Coastal Resources Management*

Living Shoreline Ecology Case Studies
Molly Mitchell, VIMS Center for Coastal Resources Management

Residential-Scale Case Studies: Examples from River Star Homes
Barbara Gavin, River Star Homes Program Manager, Elizabeth River Project

Urban Estuary Restoration: Restoration of multiple habitats to provide great habitat quality
Joe Rieger, Deputy Director of Restoration, Elizabeth River Project

Nature-Based Features for Coastal Resilience: Quantifying Wave Dissipation
Maura Boswell, P.E. Old Dominion University & Virginia Sea Grant Graduate Research Fellow

10:30 – 10:50 am *20-minute Break*

10:50 – 12:00 pm *CASE STUDY REVIEWS (continued)*   *Watermen's Hall auditorium*

Shoreline Management BMP Verification for Chesapeake Bay TMDL Credits
Aaron Wendt, VA Department of Conservation & Recreation – Shoreline Erosion Advisory Service

Case Study Best Practices Review
Moderated by Karen Duhring, VIMS Center for Coastal Resources Management

12:00 – 1:00 pm   *LUNCH included for registered participants*

1:00 – 1:45 pm   *SHORELINE PROGRAM UPDATES*   *Watermen's Hall auditorium*

VMRC Group 1 & Group 2 Living Shoreline General Permits

Funding Support Programs Update

2018 Virginia General Assembly Update

Other Tidal Shoreline News & Announcements

1:45 – 2:00 pm   *Break & transition to Indoor & Outdoor Sessions*

PLANNED AGENDA *continued*

2:00 – 3:15 pm   *CONCURRENT INDOOR & OUTDOOR SESSIONS See map for locations*

Choose between 5 stations for 30-minute sessions
VIMS cart shuttles available to move between stations

2:00 – 2:30 pm   **Indoor - Outdoor Session 1**

2:30 – 2:45 pm   *Transfer between stations*

2:45 – 3:15 pm   **Indoor - Outdoor Session 2**

1 **VIMS Offshore Breakwaters & Beach Nourishment Case Study**
Scott Hardaway, VIMS Shoreline Studies Program & Bruce Pfirrmann, DCR-SEAS

Preferred features in beach nourishment and offshore breakwater projects are demonstrated, including a wide, dynamic beach created with suitable sand, a stable planted dune area, and stable breakwater structures. This case study also illustrates how a bulkhead shoreline was converted to a nature-based feature & how submerged aquatic vegetation (SAV) can affect project designs.

2 **VIMS Teaching Marsh Case Study** *Christine Tombleson & Julie Bradshaw, VIMS-CCRM*

Preferred features in living shoreline marshes are demonstrated at the Teaching Marsh. These features include wide planted marshes with both low and high marsh, gradual slopes, a low-profile marsh sill, salt- & flood-tolerant native plants in the riparian buffer, and an oyster restoration reef. The co-benefits of multiple habitats located in close proximity are also illustrated.

3 **Drone Demonstration** *Kory Angstadt, VIMS-CCRM*

Learn how a Mavic Pro drone is being used for CCRM shoreline & wetlands research, including the steps required to create a flight plan, capture still & video images, collect elevation data, and the process of converting all of the collected images and data into meaningful analyses.

4 **Hands-On Shoreline Management Tools** *Technology Classroom, Watermen's Hall*
Molly Mitchell & Tamia Rudnicky, VIMS-CCRM

This station provides an opportunity to learn about and practice using GIS mapping tools at individual computer stations. After a short introduction to various tools, CCRM staff will be present to provide guidance and answer questions while you practice using the tools. Please don't bring food or drinks into this computer classroom.

5 **Wetlands Board e-Handbook** *Owens-Bryant Board Room, Davis Hall*
Pamela Mason, VIMS-CCRM & Clay Bernick, Clay Bernick Environment & Sustainability, LLC

This session will introduce a proposed e-Handbook for Wetlands Boards explaining what it is and what should be included. Participants will be asked about what contents are most needed to support best practice policies and efficient programs.

3:15 - 3:30 pm   *Complete Workshop Evaluations & leave at Registration Table*
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