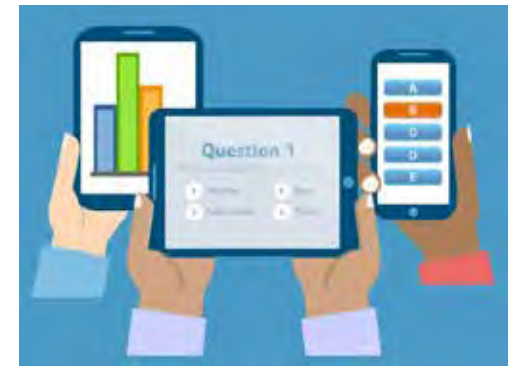


*Welcome*



# Optional Live Poll



Participation is 100% voluntary & anonymous  
Nothing to download onto your device

**Connect to vims\_guest wi-fi (Best option)**

Accept terms & conditions

Register with full name & email address

*Today's Workshop Hosted By*  
**VIMS Center for Coastal Resources Management**  
**CCRM**

Support informed decision-making  
on coastal resource management issues from global to local scales



- § Climate Change & Coastal Resilience
- § Coastal Inventory
- § Marine Debris
- § Modeling
- § Coastal Ecology

[www.vims.edu/ccrm](http://www.vims.edu/ccrm)



# Tidal Wetlands Workshops



Annual meetings for  
Virginia's tidal shoreline  
management community  
*Since 1997*



[CCRM Workshop Web Sites](#)



# 2019 Workshop Partners



*Partially funded by*



# RESILIENT HAMPTON



A city-wide initiative to improve resilience

*“Resilience is the bolstering of a community’s inherent strengths in order to alleviate chronic stresses and enable recovery from extreme events and shocks in ways that make the community even stronger than before.”*

*Just one of many  
coastal Virginia resilience programs  
now in progress*

<https://hampton.gov/3632/Resilient-Hampton>



**RISE**  
Resilience Innovations

[Riseresilience.org](http://Riseresilience.org)

## Governor Northam Announces \$1.5 Million in Funding for RISE Coastal Community Resilience Challenge Winners

Six entrepreneurs will receive funding for innovative resilience-building solutions

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*April 18, 2019 News Release  
Virginia Governor Ralph S. Northam*

*Business innovations for resilience  
now receiving funding support*

# Building Momentum for Coastal Resilience

*May 2, 2019*

*Virginia Institute of Marine Science, Gloucester Point, VA*

## **WORKSHOP OBJECTIVES**

Learn about Coastal Resilience projects at different scales

*Help us understand if projects & tools are useful*

Share ideas about shoreline management and community resilience

Stimulate momentum for Coastal Virginia resilience

*Networking - Collaboration - Leveraging Resources*



# Workshop Agenda

## Building Momentum for Coastal Resilience

Thursday May 2, 2019  
Virginia Institute of Marine Science  
Gloucester Point, VA

### AGENDA

8:00 – 9:00 am *Check-in & Coffee*

9:00 – 10:30 am **COASTAL RESILIENCE PROJECT UPDATES – COMMUNITY SCALE**  
*Watermen's Hall McHugh Auditorium*

#### Workshop Objectives

*Karen Duhring, VIMS Center for Coastal Resources Management*

#### Sea Level Rise Measurements & Forecasts

*Molly Mitchell, VIMS Center for Coastal Resources Management*

#### Natural & Nature-Based Features for Flood Resilience

*Pam Mason, VIMS Center for Coastal Resources Management*

#### Road Flooding & Community Access

*Pamela Braff, VIMS Center for Coastal Resource Management - MARISA*

#### Shoreline Property Owner Perspectives

*Sarah Stafford, William & Mary Public Policy*

10:30 – 10:50 am *20-minute Break*

10:50 – 12:00 pm **COASTAL RESILIENCE PROJECT UPDATES – SHORELINE SCALE**  
*Watermen's Hall McHugh Auditorium*

#### Modeling Tidal Marsh Resilience

*Karinna Nunez, VIMS Center for Coastal Resources Management*

#### Dynamic Living Shoreline Designs for Sea Level Rise

*Donna Bilkovic, VIMS Center for Coastal Resources Management*

#### Shoreline Management Model version 5

*Christine Tomblason, VIMS Center for Coastal Resources Management*

#### Tidal Shoreline Management Policies & Procedures Handbook

*Angela King, Virginia Coastal Policy Center*

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

1:00 – 1:45 pm **COASTAL RESILIENCE PROJECT UPDATES – ENGAGEMENT**  
*Watermen's Hall McHugh Auditorium*

#### Coastal Resilience Collaboratives & Forums

*Michelle Covi, Old Dominion University - Virginia Sea Grant*

#### NGO Initiatives & Citizen Science Projects

*Karen Duhring, VIMS Center for Coastal Resources Management*

#### Coastal Resilience Project Review & Discussion

*Coastal Resilience Project Updates*

Community Scale

Shoreline Scale

*Lunch Break*

Engagement  
Opportunities

# Workshop Agenda

AGENDA <i>continued</i>	
1:45 - 2:00 pm	<b>GENERAL SHORELINE MANAGEMENT PROGRAM UPDATES</b> <i>Watermen's Hall McHugh Auditorium</i>
	Agency & Funding Program Updates 2019 Virginia General Assembly Upcoming Events & Announcements
2:00 - 2:15 pm	<i>Break &amp; transition to Breakout Sessions</i>
2:15 - 3:30 pm	<b>CONCURRENT BREAKOUT SESSIONS</b> <i>See map for locations</i> <i>Choose between 5 stations for two 30-minute sessions</i> <i>Courtesy VIMS shuttles available to move between Watermen's Hall &amp; Boat Basin</i>
2:15 - 2:45 pm	<b>Breakout Session 1</b>
2:45 - 3:00 pm	<i>Transfer between stations</i>
3:00 - 3:30 pm	<b>Breakout Session 2</b>
<b>Stations</b>	<b>VIMS Coastal Resilience</b> <i>Donna Bukovic, Molly Mitchell, Dave Stanhope, Kory Angstadt, Robert Idell</i> <b>VIMS-CCRM</b>
<b>1</b> <i>Teaching Marsh &amp; VIMS Beach</i>	See living shorelines and new improvements at the VIMS Teaching Marsh, including a floating shed, a floating pier, and a green roof, plus learn how diverse coastal habitats support ecosystem resilience at the VIMS Beach.
<b>2</b> <i>Watermen's Hall Auditorium</i>	<b>CCRM Web Portal Demonstrations</b> <i>Christine Tambleson &amp; Tami Rudnicity, VIMS-CCRM</i> Learn about Locality Portals and AdaptVA, including how GIS interactive maps and self-guided decision tools can be used to assist with shoreline management and comprehensive planning.
<b>3</b> <i>Watermen's Hall Classroom A/B</i>	<b>Validating Flood Models with Sensors &amp; Citizen Science</b> <i>Derek Loftis, VIMS-CCRM</i> Learn about StormSense, Tidewatch Map & Catch the King Tide flood mapping citizen science project.
<b>4</b> <i>Davis Hall 1st Floor</i> <i>Owens-Bryant Board Room</i>	<b>Tidal Shoreline Management Policies &amp; Procedures Handbook</b> <i>Pam Mason, VIMS-CCRM, Angela King, VCPC, Clay Bernick, Clay Bernick Environment &amp; Sustainability, LLC</i> Focus group intended for Wetlands Board Members and their staff to discuss content and format for a new regulatory handbook.
<b>5</b> <i>Davis Hall 2nd Floor</i> <i>Room 201</i>	<b>MARISA Climate Resilience Toolbox Project</b> <i>Pamela Bruff, MARISA/Penn State University</i> Learn about a new project and provide feedback to help build a searchable catalog of climate resilience tools by the Mid-Atlantic Regional Integrated Sciences and Assessments (MARISA) program.
3:30 pm	<i>Complete Workshop Evaluations &amp; leave at Registration Table</i> <i>Visit VIMS Gift Shop</i>

## General Shoreline Program Updates

### Concurrent Breakout Sessions

Choose between 5 stations

30-minute sessions repeated twice

Choose 1<sup>st</sup> station for Session 1

Choose 2<sup>nd</sup> station for Session 2

***See Breakout Sessions Handout  
with Map & More Information***

# Also in Your Folder

Additional Resources & Speaker Contacts

Research Poster Session

Related Publications

Workshop Evaluation

Yellow Note Pad

Jot down any questions or comments & turn in at registration table



# Research Poster Session

On display all day

Watermen's Hall Classroom A/B & C

Various research projects highlighted

CCRM

William & Mary

Poster titles & contact information available  
in handout

# After the Workshop

## **Participant List Distribution**

*opt out with Dawn Fleming*

## **Workshop Summary & Presentations**

*posted to a Workshop Web Site*

Please contact presentation author for permission prior to using or reproducing photos or other content

[www.vims.edu/ccrm/outreach/workshops/index.php](http://www.vims.edu/ccrm/outreach/workshops/index.php)

# Let's Try the Live Poll

# Responding with Poll Everywhere

Pollev.com



Web voting



Text voting



# Who are you?

Wetland Board or Planning Commission  
Member

Government Staff

Consultant / Contractor / Permit Agent

Non-Profit / Community Organization

Virginia Master Gardener or Master Naturalist

Concerned Citizen

None of the Above



# Where do you work (most of the time)?

- Eastern Shore **A**
- Northern Virginia **B**
- Northern Neck **C**
- Middle Peninsula **D**
- Peninsula **E**
- Norfolk - Virginia Beach - Chesapeake **F**
- Suffolk - Isle of Wight - Surry - Prince William **G**
- Richmond Metro Area **H**
- Maryland **I**

# How often do you use mapping tools in general?

All the time

Sometimes

Never

# How often do you use Locality Portals?

I use them every day

I use them once in a while

I've heard about them, but  
never used the information

What's a locality portal?

# How engaged are you with Coastal Resilience?

It's my every day job

Consider it while doing my job

Belong to a community organization

Read about it in the news

I'm not engaged at all

Not sure

Thanks for Participating in the Poll

Now let's start the  
Coastal Resilience Project Updates