

Supporting Coastal Community Resilience through Natural Infrastructure

June 1, 2024

Disclaimer: The views expressed in this presentation are those of the author(s) and do not necessarily represent the views or policies of the U.S. Environmental Protection Agency.

Learn About Living Shorelines

Saturday, June 1, 2024
from 10:00 a.m. to 12:00 p.m. ET

📍 **Location:** Crisfield Library,
100 Collins St, Crisfield, MD 21817



To register, please scan code or go to
surveymonkey.com/r/7H32WCW



Join speakers from the Maryland Department of Natural Resources and Tetra Tech for an **in-person seminar and Q&A session** on how living shorelines can help:

- Reduce Erosion
- Mitigate Flooding Impacts
- Protect Against Property Damage

Join us for a free
public learning
session on the
benefits of nature:



Learn about living shorelines and how they work.



Explore what it takes to create, fund, and successfully implement a living shoreline.



Discover successful examples of living shorelines in Maryland.



Can't attend this session but still want to get involved?

Apply to the Crisfield Resilience Academy!

epa.gov/gcx/crisfield-resilience-academy

Questions? Contact Us

beacon@salisbury.edu

+1 410-546-6001

Goals of research with Crisfield:

- Investigate **natural infrastructure** strategies like saltmarshes or living breakwaters for addressing **coastal resilience issues** in and around Crisfield
- Assess **economic, social and environmental co-benefits** of natural infrastructure strategies
- **Co-develop information** with the community that is useful for decision making about Crisfield's future
- Help increase **community awareness** about resilience and environmental issues and **community capacity** to help address them



Today's speakers



**Vamsi Sridharan, PhD, M. ASCE,
Senior Environmental Scientist, Tetra Tech, Inc.**



**Nicole Carlozo,
Section Chief, Waterfront & Resource Planning,
Maryland Department of Natural Resources**



Vamsi Sridharan, PhD, M. ASCE

- **Project manager and water resources management innovator at Tetra Tech, Inc., a leading provider of consulting and engineering services in water, environment and sustainable infrastructure**
- **18 years of experience studying and modeling the water resources and ecology of complex surface water ecosystems**
- **Works to help coastal communities manage water pollution, and shoreline and property damage threats from the water**
- **Develops recommendations for nature-based and engineered approaches to shoreline protection around the United States**
- **Authored 10+ peer-reviewed research articles and multiple technical reports for agencies such as NMFS, USGS, USACE, EPA, and other clients**
- **PhD in Environmental Fluid Mechanics, Stanford University**



Nicole Carlozo, MEM

- **Section Chief for Waterfront & Resource Planning at the Maryland Department of Natural Resources (DNR)**
- **11+ years at DNR on diverse topics including community resilience, restoration, and data integration**
- **Manages the state's Resiliency through Restoration Initiative, a restoration program focused on addressing flooding and erosion.**
- **BA, Biology & English, St. Mary's College of Maryland, MEM, Coastal Environmental Management, Duke University**



THE U.S. ENVIRONMENTAL PROTECTION AGENCY
INVITES YOU TO APPLY FOR THE



CRISFIELD RESILIENCE ACADEMY

APPLICATIONS NOW OPEN FOR CRISFIELD-AREA RESIDENTS INTERESTED IN
THIS ENVIRONMENTAL EDUCATION OPPORTUNITY

ELIGIBILITY & REQUIREMENTS

- >>>> RESIDENT OF CRISFIELD, MARYLAND OR SURROUNDING AREA
- >>>> AGED 15-99+ YEARS OLD
- >>>> HAVE AN INTEREST IN THE ENVIRONMENT
- >>>> CAN BE IN-PERSON FOR TRAINING SESSIONS IN CRISFIELD
 - > SIX SATURDAY SESSIONS IN FALL 2024
 - > CRISFIELD SESSIONS APPROXIMATELY 2 HOURS EACH
 - > INCLUDING COMPLETION OF SURVEYS

ACADEMY MEMBERS WILL BE ELIGIBLE TO RECEIVE A STIPEND
OF UP TO \$300 FOR PARTICIPATION IN THE ACTIVITIES ABOVE

Questions? Contact Us

hartley.jenna@epa.gov +1 919-541-2154 beacon@salisbury.edu +1 410-546-6001



Please go to
<https://www.epa.gov/gcx/crisfield-resilience-academy>
to learn more and to apply today!



THE CRISFIELD RESILIENCE ACADEMY IS HOSTED BY THE INTEGRATED CLIMATE SCIENCES DIVISION (ICSD), WHICH IS IN THE CENTER FOR PUBLIC HEALTH & ENVIRONMENTAL ASSESSMENT (CPHEA) WITHIN THE OFFICE OF RESEARCH & DEVELOPMENT (ORD) AT THE U.S. ENVIRONMENTAL PROTECTION AGENCY

Session topics:

- Session 1: Resilience
 - Saturday, Sept. 7, 2024
- Session 2: Crisfield's ditch drainage system
 - Saturday, Sept. 28, 2024
- Session 3: Flood warning systems
 - Saturday, Oct. 5, 2024
- Session 4: Nature-based solutions
 - Saturday, October 19, 2024
- Session 5: Coastal Tourism and Recreation
 - Saturday, November 2, 2024
- Session 6: Crisfield Resilience Academy Celebration!
 - Saturday, November 16, 2024