

# Crisfield Ditch Drainage and Maintenance

June 22, 2024

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## Learn About Ditch Maintenance

**Saturday, June 22, 2024**  
from 10:00 a.m. to 12:00 p.m. ET

**Location:** TidalHealth Alice B. Tawes Nursing and Rehabilitation Center - (201 Hall Highway, Crisfield, Maryland 21817)



For registration and more information, please go to:

<https://www.surveymonkey.com/r/EPAJune22>



Join speakers from the City of Crisfield, Somerset County, and Eastern Shore Regional GIS Cooperative for an in-person seminar and Q&A session on ditch maintenance.



Can't attend this session but want to get involved?  
Apply to the Crisfield Resilience Academy today!

[epa.gov/gcx/crisfield-resilience-academy](https://epa.gov/gcx/crisfield-resilience-academy)

Join us for a free  
public learning  
session:



Learn about ditch drainage systems and how they work.



Explore how ditch drainage systems protect Crisfield from flooding.



Discover ways to maintain ditches and keep these systems functioning.

Questions? Contact Us  
[beacon@salisbury.edu](mailto: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

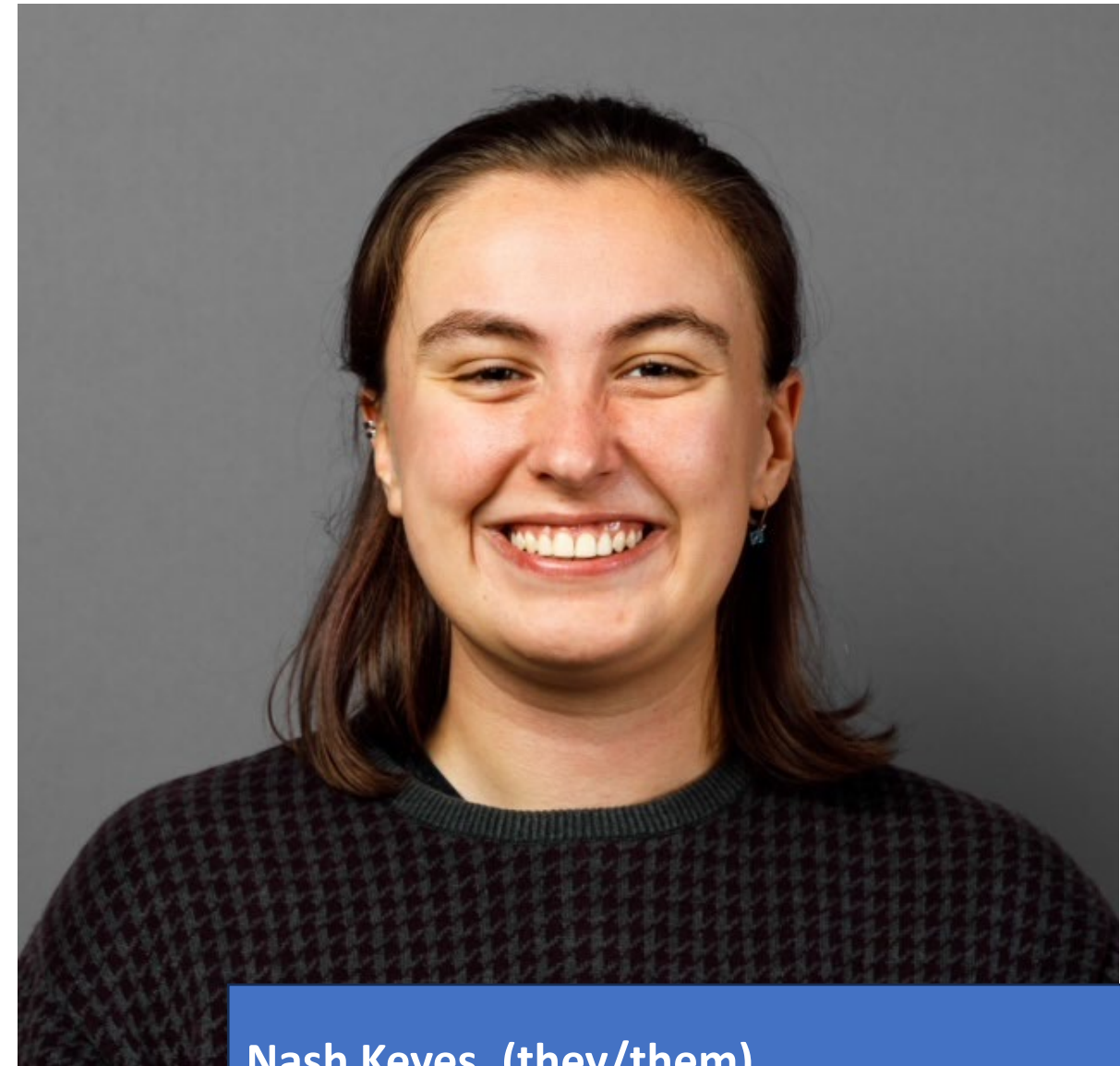




# Today's speakers



**Mary Buffington (she/her)**  
Project Manager, Eastern Shore Research GIS  
Cooperative (ESRGC)



**Nash Keyes, (they/them)**  
ORISE Fellow, CRWU Initiative,  
Office of Water, U.S. EPA HQ



# Mary Buffington

- **Project Manager, Eastern Shore Regional GIS Cooperative (ESRGC)**
- **Responsibilities include project design, setup, oversight, and quality control of ESRGC projects**
- **Designed and taught the Spatial Database Design online course (GEOG 550) for the Masters in GIS degree at Salisbury University**
- **Serves as the Maryland State Geographic Information Committee's Emerging Professionals Working Group, and vice-chair of the City of Salisbury's Bicycle & Pedestrian Advisory Committee**
- **Coordinates the heated waffles vs. pancakes debate for the ESRGC**
- **B.S., Geography, Salisbury University (2007), M.S., GIS Management (2012), and GIS Professional certification (2022)**
- **Member, Eastern Shore Running Club**





## Nash Keyes

- **Oak Ridge Institute for Science and Education (ORISE) Fellow**
- **Works with the Creating Resilient Water Utilities (CRWU) Initiative team, U.S. Environmental Protection Agency (EPA) Headquarters**
- **Work focuses on environmental justice, geographic information systems, and communications for CRWU's technical assistance program**
- **B.A., Applied Mathematics (Climate Science concentration), Yale University (2021)**
- **Outside of work, enjoys woodworking and community organizing in Washington, DC**

# Panel Discussion

- Mary Buffington
  - Project Manager, Eastern Shore Regional GIS Cooperative
- Nash Keyes
  - ORISE Fellow, CRWU Initiative, Office of Water, U.S. EPA HQ
- Darlene Taylor
  - Crisfield Mayor
- Charles Cavanaugh
  - Director, Somerset County (MD) Solid Waste, Drainage, & Maintenance Departments



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