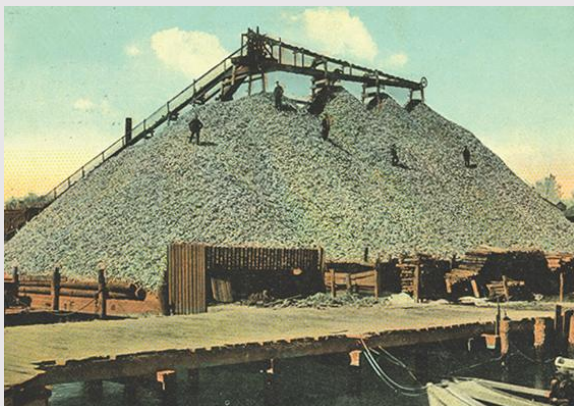


# ENVIRONMENTAL INSIGHTS

NEWS FROM THE UNIVERSITY OF MARYLAND CENTER FOR ENVIRONMENTAL SCIENCE

## Tune in to virtual seminars with environmental scientists

Every day is Earth Day at UMCES! Check out how you can hear directly from experts on the environment during a series of online lectures with our world-renowned scientists this month. All seminars are free with advance registration.



### Depleting the Immense Protein Factory that was Chesapeake Bay April 6, 7-8 p.m.

Ecologist and author of "Shifting Baselines in the Chesapeake Bay" **Vic Kennedy** will use eyewitness reports by early colonists, newspaper articles, and management reports from the 1800s to describe a Chesapeake Bay that we can now only imagine. [REGISTER](#)



### What's in Our Water? A Chemical Perspective

April 13, 7-8 p.m.

We use chemicals in our daily lives, but which ones end up in a local stream or the Chesapeake Bay? Environmental chemist **Michael Gonsior** gives an overview of the invisible chemical world that defines our local waters. [REGISTER](#)

### Stream Restoration: Is it Helping Our Streams and the Chesapeake Bay?

April 20, 7-8 p.m.

Watershed scientist **Solange Filoso** has monitored restored streams in Maryland for



over a decade. She will share her assessment of restoration effectiveness and discuss the importance of monitoring data to policy and management decisions. [REGISTER](#)



### Changing Weather, Changing Farms

April 27, 7-8 p.m.

Environmental economist **Lisa Wainger** will describe adaptations that farmers are making to improve crop growth under changing weather, and how these changes are likely to prevent harm to water quality.

[REGISTER](#)



### Global Change and Wildland Fire

April 28, 11 a.m.- noon

Wildfire expert **Mark Cochrane** discusses climate change, human dimensions of land-cover change, and the potential for sustainable development. [REGISTER](#)

## Xin Zhang receives prestigious NSF CAREER Award to understand nitrogen pollution reduction in Chesapeake Bay watershed

The National Science Foundation (NSF) awarded Assistant Professor **Xin Zhang** a Faculty Early Career Development Program (CAREER) Award to lead a five-year collaborative research program to help understand how to align the interest and action of various stakeholders in the agro-food system with nitrogen pollution reduction in the watershed. The goal is help inform decision-making for sustainable nitrogen use and effective ecosystem management in the Chesapeake Bay and estuaries around the world.

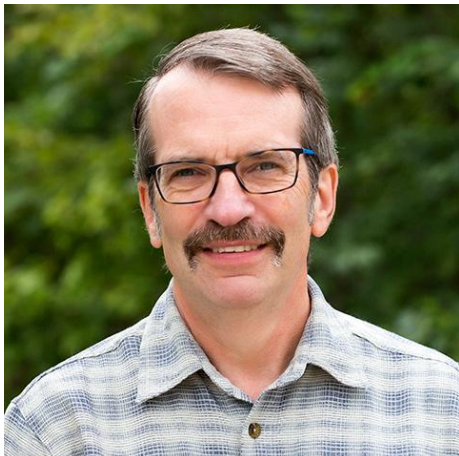


“Managing nitrogen is fundamental, yet challenging, for sustainable development,” said Zhang. “Nitrogen plays a critical role in boosting agriculture productivity but it has adverse impacts on the environment.”

[MORE](#)

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## Eric Davidson named Jefferson Science Fellow



Professor and UMCES' Appalachian Laboratory Director **Eric A. Davidson**, an international leader in global nitrogen cycle research, has been named a Jefferson Science Fellow.

Beginning August 2021, he will spend a year as a science advisor to the Bureau of Oceans and International Environmental and Scientific Affairs, Office of Environmental Quality in Washington, D.C. Davidson is an ecologist, soil scientist, and biogeochemist whose research career has focused on how human changes to the land affect carbon and nitrogen in soil, water, and air. The Jefferson Science Fellows program serves to engage the

American academic science, technology, engineering, and medical communities in U.S. foreign policy and international development.

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**NOTEWORTHY** Environmental toxicologist **Carys Mitchelmore** was appointed to a National Academies committee to review the state of science on use of sunscreen ingredients and their impact on aquatic environments.

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## UMCES IN THE NEWS

[Night moves \(Audobon\)](#)

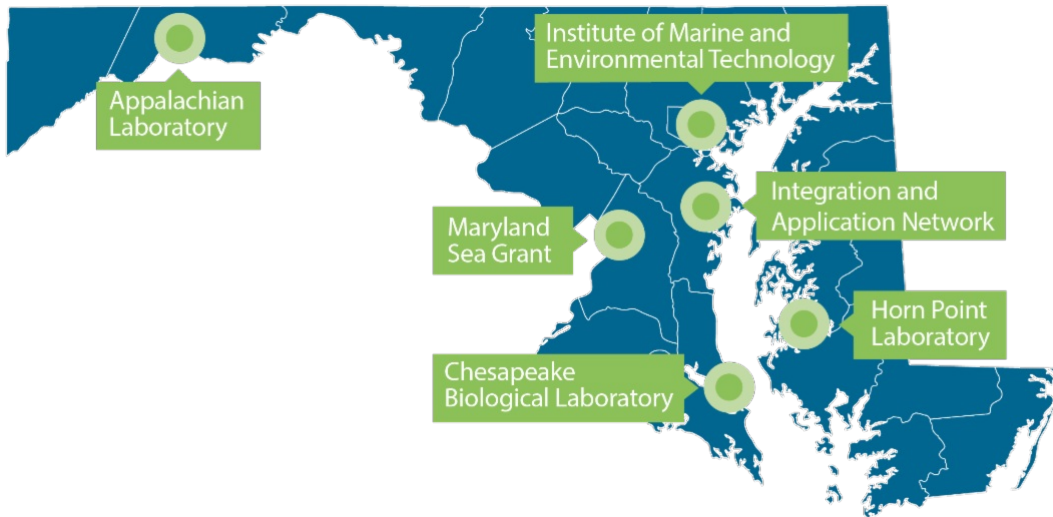
[Small particles, big problems? \(Chesapeake Quarterly\)](#)

[Reforested area rival mature forests in securing water, study finds \(South Africa Today\)](#)

[Chemists warn toxic air pollutants from fossil fuels "multiply" in sunlight \(SciTechDaily\)](#)

[Women in STEM: Stories of resilience, spirit, and success \(PLOS blog\)](#)

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