

# ENVIRONMENTAL INSIGHTS

NEWS FROM THE UNIVERSITY OF MARYLAND CENTER FOR ENVIRONMENTAL SCIENCE



## **SCIENCE AT SEA: Find out what it's like to be aboard a research cruise in the middle of the Atlantic Ocean**

"I was just 55 miles from the nearest land, but it felt as though it could have been hundreds of miles away. The opportunity to join 15 scientists for six days off the coast of Bermuda gave me a great perspective on how important the world's oceans are to our planet."

Follow along on a scientific mission to better understand the ocean's role in maintaining our climate.

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**Chesapeake Biological Laboratory Open House**  
September 7, 1-5 p.m.  
Solomons Island, free

Discover the world of science at the Chesapeake Biological Laboratory's annual Open House. This public event provides a "behind-the-scenes" view of exciting research and features demonstrations and exhibits for all ages. Exhibits and hands-on activities include an aquatic animal touch tank, liquid nitrogen chemistry demonstrations, dockside tours of the research vessel *Rachel Carson*, piloting an underwater robot, a scientist selfie station, and more!

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## IMET summer internship program aims to deepen diversity in marine science

In a meeting room at the Institute of Marine and Environmental Technology (IMET) in the beginning of August, eleven students stood in front of mentors, peers, and family to give presentations on what they did this summer. It ranged from research projects on using spent grain from breweries to prevent toxic algal blooms to converting fish waste from recirculating aquaculture systems into biofuel. This was the capstone of the annual summer undergraduate internship created to support increased diversity in STEM fields.

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## Eric Davidson named American Geophysical Union Fellow

Professor Eric Davidson has been named a 2019 Fellow of the American Geophysical Union (AGU). AGU Fellows are recognized for their scientific eminence in the Earth and space sciences and outstanding achievements in advancing and communicating science. [MORE](#)



## SCIENCE IN ACTION: Ancient fossil pollen offers clues to climate change

Scientists are hoping to unlock the mysteries of climate change by studying pollen thousands of years old. Matt Fitzpatrick and David Nelson explain how digging in the mud in western Maryland will help them understand how the future may look.

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**NEXT GENERATION: Dylan Tallie on how changes in land cover**

## might impact birds

"I am creating a species distribution model for a couple of different species of birds within and surrounding the C & O Canal National Park. My model is trying to understand how changes in forest configuration and land cover would affect the distribution of sensitive bird species like the cerulean warbler, golden winged-warbler, and wood thrush....I hope to help inform resource managers on decisions regarding land protection and forest management."

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## Scientists build living breakwater to help mitigate rising seas

Matt Gray and William Nardin are building and testing out the first living breakwater in Maryland to see how creating an offshore reef teeming with oysters could help stabilize shorelines around the Chesapeake Bay.

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## UMCES IN THE NEWS

[What satellite imagery tells us about the Amazon rain forest fires \(New York Times\)](#)

[Warmer water temperatures could lead to more productive crab season \(WJZ-TV Baltimore\)](#)

[Scientist's map explains climate change \(Wired\)](#)

[Scientists search for best way to restore oysters in Chesapeake Bay \(Wall Street Journal\)](#)

Blues in the Bay (National Wildlife Magazine)

Scientists test beer byproduct to prevent algae blooms (Baltimore Sun)

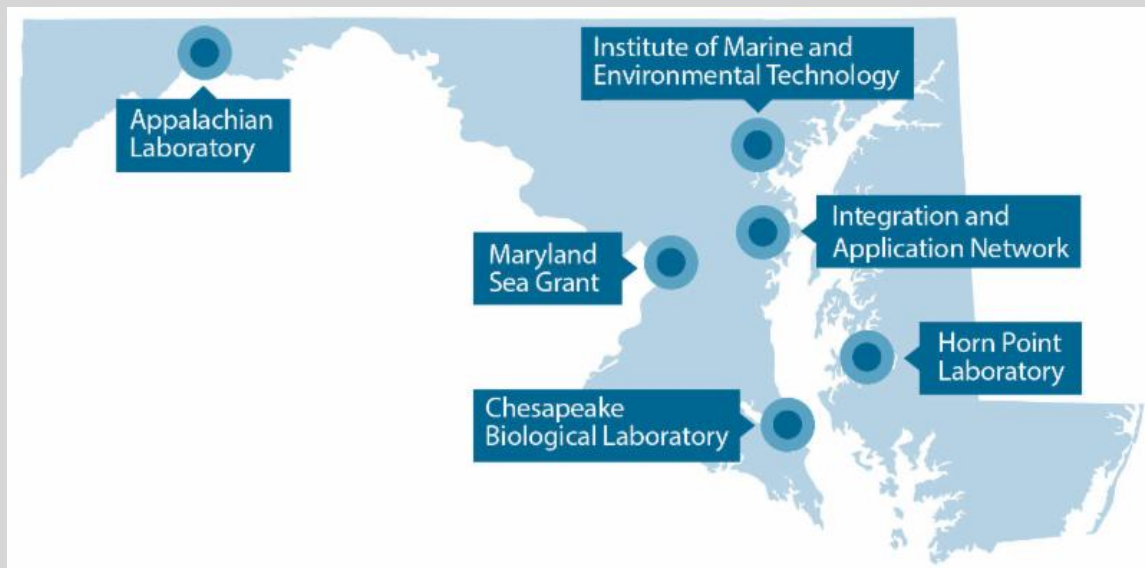
Maryland's first ever man-made shoreline reef (WBOC-TV)

Maryland oysters are having a bad year, and here's why (Delmarva Daily Times)

Years of data suggest ecosystem shifts in Northern Bering Sea (KTOO Public Media-Alaska)

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