

# GUIDE TO EXPERTS

University of Maryland Center for Environmental Science

2024

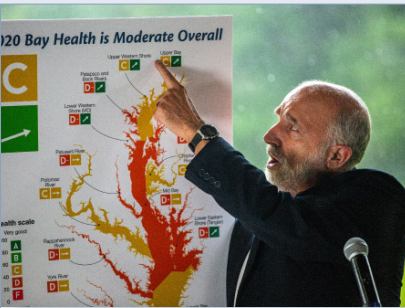
# HARNESSING THE POWER OF SCIENCE to transform the way society understands and manages the environment

A globally eminent research and graduate institution focused on advancing scientific knowledge of the environment, the **University of Maryland Center for Environmental Science** provides sound advice to help state and national leaders and prepares future scientists to meet the global challenges of the 21st century.



## RESEARCH

We work across disciplines and in diverse settings—from the Appalachian Mountains to the Arctic—seeking solutions that improve people’s lives and sustain the natural world.



## PUBLIC SERVICE

As trusted scientific advisors, our faculty provide unbiased research to inform management decisions and public policy on pressing environmental issues in our communities and around the world.



## EDUCATION

Our renowned faculty train the next generation of environmental leaders as part of the University System of Maryland’s nationally ranked graduate program in marine and environmental science.



## POPULAR TOPICS

### CHESAPEAKE BAY RESTORATION

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“What you do with coastline management has huge implications in terms of how the tides and storm surge in Chesapeake Bay respond to sea-level rise. Climate change is real; sea-level rise is happening. We have to understand it and plan for it right now.”

—Oceanographer Ming Li, co-author of “Sea-level rise projections for Maryland”



“Maybe we’ll see higher production of some things like blue crabs, but we may see diminished production of fish that don’t do so well in warmer waters, such as striped bass, perch and black sea bass.”

—Fisheries expert Dave Secor on the impact of climate change on the commercial fishery in

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“Within the lifetime of children living today, the climate of many regions is projected to change from the familiar to conditions unlike those experienced in the same place by perhaps any generation. .”

—Matt Fitzpatrick created the Future Urban Climates app

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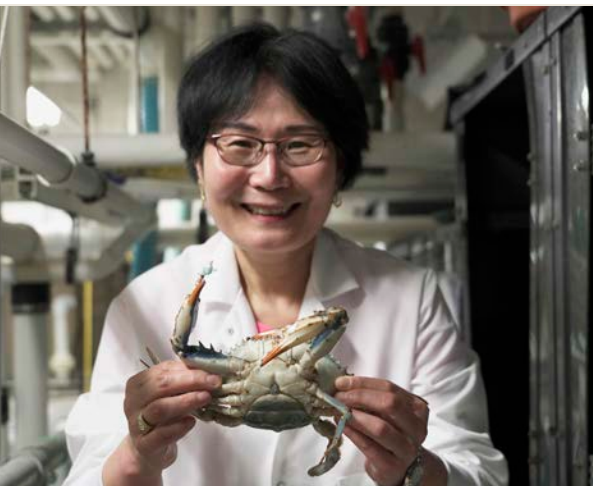
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“Decoding the blue crab genome enables us to decode the factors providing resiliency of the blue crab to climate change and disease in the Chesapeake Bay and beyond.”

— Biochemist Sook Chung led the effort to sequence the genome of blue crab

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“Sampling a single river, you need a net, crew, permit; it can be expensive. The eDNA approach is an alternative where you just take a water sample, and you get an idea of the abundance of fish.”

—Louis Plough on using DNA to track fish in area waterways



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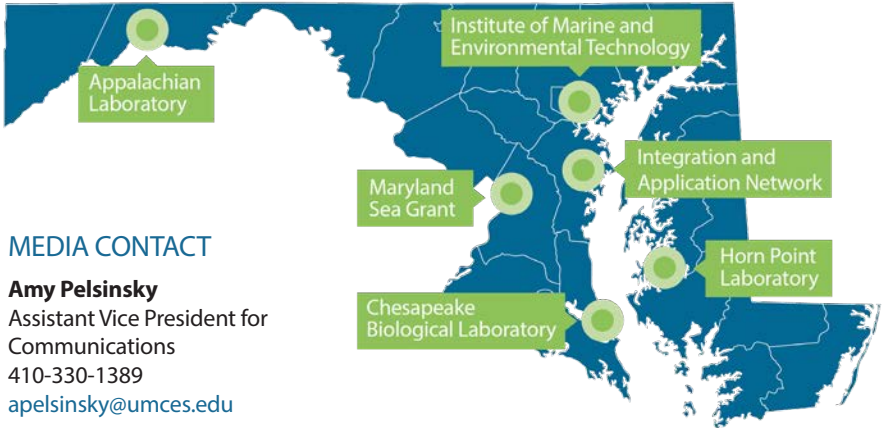
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