

University of Maryland Center for Environmental Science

EXPERTS GUIDE



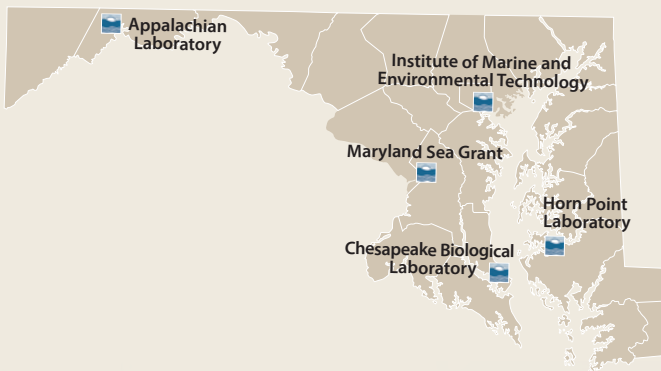
Innovation for a better future



University of Maryland
CENTER FOR ENVIRONMENTAL SCIENCE

University of Maryland Center for Environmental Science

The University of Maryland Center for Environmental Science is the premier research and educational institution working to understand and manage our world's natural resources. Our scientists pursue solutions to environmental challenges in the Chesapeake Bay and around the world from a network of laboratories across the state.



LEADERSHIP

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Areas of expertise: Marine and estuarine ecology, marine pollution, national and international marine policy

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TOPICS BY EXPERTISE

AIR QUALITY

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COAL ASH—**Christopher Rowe**, Associate Professor (CBL): Impacts of sublethal exposure to pollution, ecotoxicology of coal ash, bioenergetics of aquatic animals

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ALGAE BLOOMS

Judy O'Neil, Research Associate Professor (HPL): Cyanobacteria ecophysiology and plankton trophodynamics

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Diane Stoecker, Professor (HPL): Physiological ecology and feeding biology of planktonic protists, polar and subpolar microzooplankton and algae

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TOXIC BLOOMS—**Allen Place**, Professor (IMET): Molecular mechanisms that permit organisms to adapt to unique diets, molecular basis of sex determination, pfiisteria, toxic algae blooms

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“Nutrient and sediment pollution carried by stormwater are important factors in Chesapeake Bay health. It’s not the rain that affects the report card scores. It is what the rain carries.” —Bill Dennison

ALTERNATIVE ENERGY

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BIOFUEL—**Yantao Li**, Assistant Professor (IMET): Algal molecular biology and biochemistry, engineering of biofuels and bioproducts, algal biotechnology
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WIND ENERGY—**Helen Bailey**, Research Assistant Professor (CBL): Movement and habitat use of marine animals, predator-prey interactions, impacts of offshore energy
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CHESAPEAKE BAY RESTORATION

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“We’re trying to predict when the storm comes in, which area will be flooded, which street will be flooded on a very fine scale. This will help emergency responder managers and people in the area of the predicted flooding make better choices as the storm nears.” —Ming Li

CLIMATE CHANGE

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ARCTIC RESPONSE—

Lee Cooper, Research Professor (CBL): Stable and radioisotope composition of organic materials in coastal waters, high latitude oceanography

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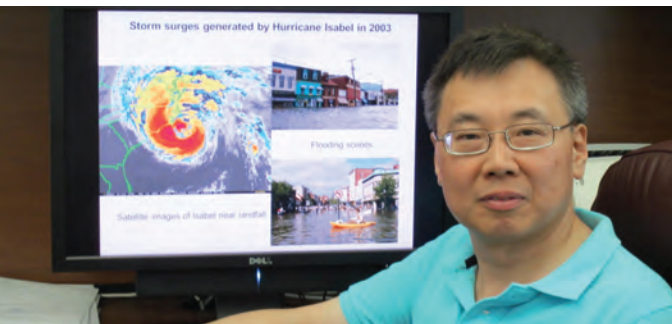
BIOLOGICAL INVASIONS/SPECIES MODELING —

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COASTAL STUDIES

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CRABS

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SOFT SHELL CRAB DISEASE—**Eric Schott**, Research Assistant Professor (IMET): Molecular detection and characterization of aquatic invertebrates pathogens and viruses, soft-shell crabs
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REPRODUCTION—**J. Sook Chung**, Associate Professor (IMET): crustacean physiology of molting, growth, reproduction, sex differentiation and stress responses
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ENVIRONMENTAL EDUCATION

K-12—**William t**, Vice President for Science Applications and Professor: ecology of marine plants, assessing ecosystem health
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“We’re using satellite data to find out the growth rate of trees. If trees are growing faster, than they are taking more carbon out of the atmosphere. That’s a good thing for global warming.”—Andrew Elmore

K-12—**Laura Murray**, Research Professor (HPL): Ecology of marine and estuarine wetland communities, research experiences for environmental education
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K-12—**Cathlyn Stylinki**, Senior Agent (AL): Lifelong science learning, links between teacher education and practice, evaluation of science education programs
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MADE CLEAR (Maryland Delaware Climate Change Education Assessment and Research)—
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FORESTS/ECOLOGY/LAND USE

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INVASIVE SPECIES

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BALLAST WATER/GREEN SHIP TECHNOLOGIES—
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JELLYFISH

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METHANE CYCLING

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MARINE LIFE

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MARINE MICROBIOLOGY

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NUTRIENT CYCLING

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NUTRIENT POLLUTION/DEAD ZONES

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“Male crabs do a beautiful mating dance. He has to dance for her and show her he has good genes. He stands on tiptoe, spreads his claws and waves them like a fan.”—Sook Chung

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“The digital age has transformed so much of the science we do. Some fish stay put and others don’t—it turns out it’s very common. It just hasn’t been fully appreciated for marine fish. Now we see them—with tracking and telemetry.”—Dave Secor

OYSTERS

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SEAGRASSES

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SEA LEVEL RISE

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BROOK TROUT—**Robert Hilderbrand**, Associate Professor (AL): Ecology, conservation biology, watershed, and stream habitat restoration, dynamic watershed modeling
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MOUNTAINTOP MINING—**Margaret Palmer**, Professor (CBL): Stream community and ecosystem ecology, restoration ecology
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WILDLIFE CONNECTIVITY

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“Underwater robot gliders will be deployed as storms approach the Atlantic Coast. The gliders will relay water temperatures back to hurricane forecasters to improve storm predictions.”—Bill Boicourt

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“Invasive species is an enormous problem. It can change habitats and cause crashes of fisheries. The biggest transporter is ships—ballast water or what’s growing on the side. Our job is to test ballast water treatment systems on ships to see how reliable they are.”—Mario Tamburri

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“As the number and size of offshore wind developments increases, there is a growing need to consider the consequences on marine species. It is essential to identify where whales, dolphins and other species occur to help avoid adverse impacts.”

—Helen Bailey

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