THE UNIVERSITY OF MARYLAND CENTER FOR ENVIRONMENTAL SCIENCE –
Horn Point Laboratory

NOVEMBER 2021

New Horizons: Resilience, Innovation, Discovery

Michael Roman to step down as UMCES' Horn Point Laboratory Director

After serving 20 years as director of the Horn Point Laboratory of the University of Maryland Center for Environmental Science (UMCES), Professor Mike Roman has announced that he will relinquish the position by the end of the academic year and continue his ocean research as a Horn Point faculty member.

"It has been a great honor and privilege to work with the staff, students and faculty these last 20 years. Horn Point has grown in size, stature and productivity thanks to their hard work and dedication. I am proud of our increased efforts in public outreach, partnerships with other environmental groups on the Eastern Shore and development activities to provide graduate student financial support," said Roman.

A biological oceanographer, Roman's scientific career spans 30 years of research, and his expertise in marine ecology and biological oceanography is recognized nationally and internationally. He joined the University of Maryland Center for Environmental Science in 1981 and has been director of the Horn Point Laboratory since 2001.

"Dr. Roman is an exceptional researcher and colleague who has had an enormous impact on the Horn Point Laboratory and UMCES, particularly in expanding research on coastal resilience and climate change, and important species like oysters " said

University of Maryland Center for Environmental Science President Peter Goodwin. “He has mentored several early career faculty to ensure their success, built a successful philanthropic program, including graduate student endowments, and recruited outstanding faculty.”

The process to select a new director has been initiated. "During the next few months I plan to continue work to increase Horn Point’s grants and contracts, raise private funds to support our graduate students, and after a new director is in place, work with them to assure a smooth transition in leadership," said Roman.

The Horn Point Laboratory, located on more than 800 acres on the banks of the Choptank River on Maryland's Eastern Shore, has advanced society’s understanding of the world’s estuarine and ocean ecosystems. Horn Point scientists are widely respected for their interdisciplinary programs in oceanography, water quality, restoration of seagrasses, marshes and shellfish and for expertise in ecosystem modeling. With ongoing research programs spanning from the estuarine waters of the Chesapeake Bay to the open waters of the world's oceans, Horn Point is a national leader in applying environmental research and discovery to solve society’s most pressing environmental problems.

FACULTY, STUDENTS and STAFF

Podcast with Bill Boicourt: *"The Tide is Shifting"*

As a physical oceanographer, Boicourt’s career has focused on tides and the impacts wind and water flow from land have on them. Listen to Boicourt discuss issues impacting today’s weather and tides with Wayne D. King, host of “The Radical Centrist” podcast. Biological questions such as how do currents affect marine life and weather forecasting have been the motivation behind much of Boicourt’s research.

**Interview starts 9:00 minutes into the podcast.*

PODCAST

Waterfowl Chesapeake "Community in Conservation" Grants Awarded

The Horn Point Laboratory is a recipient of Waterfowl Chesapeake’s 2021 “Community in Conservation” grants. Dr. Judy O’Neil, associate research professor, submitted the grant and will see the project through completion. The $5,000.00 grant, “*Enhancing the Horn Point*

Cove Trail experience: Connecting Students to Nature, Research and Conservation" will provide enhanced wildlife/bird ecology resources of the Choptank River for over 3,000 students, visitors, partner organizations and conservation groups who annually visit HPL's Environmental Education Center. Waterfowl Chesapeake is the conservation effort of the Waterfowl Festival and is supported by funds raised through proceeds from the Waterfowl Festival.

Judy O'Neil and Matt Plutta, of ShoreRivers the other grant recipient, walked the red carpet together at the Festival's opening gala.

MORE

Baltimore Magazine gets the science for their October issue at HPL "*The Mighty Oyster: Maryland's most weird and wonderful seafood..."*

Baltimore Magazine visited the Horn Point Lab to get the inside story on the science of oysters. Editor, Lydia Woolever, spent a day on HPL's campus talking with faculty and students whose research covers oysters, from genetic variability to their enhancement of coastal resilience and marine habitat. Woolever dug into the complexities of producing baby oysters. Read it in the issue's article *"Baby Boom: Inside Maryland's MAD-SCIENCE Oyster Hatchery".* Now a HPL Masters student, Imani Black at the time was a research assistant with Assistant Professor, Matt Gray. Read Imani's story, *"GameChanger",* to learn about her graduate education and the nonprofit she leads, Minorities in Aquaculture. Imani is creating awareness while building opportunity and changing the game of aquaculture.

Explore the full Baltimore Magazine issue, "*The Mighty Oyster: Maryland's most weird and wonderful seafood is in the midst of a major comeback*".

OCTOBER ISSUE

STUDENT SPOTLIGHT:

Nicole Trenholm, PhD student

I grew up in the suburbs of Philadelphia and completed my undergraduate degree at LaSalle University in Environmental Science & Geology. I had a strong inclination to become an oceanographer so there was no question that I needed to become a capable mariner. Sailing quickly became my "*joie de vivre*" after crewing for environmental education tallships. Due to my early NOAA technical and maritime career in the Chesapeake area I feel grateful and home to excel as a doctoral student at Horn Point Laboratory. I also co-established a non-profit Ocean Research Project where I led expeditions to survey microplastic ocean pollution concentration across the Atlantic and Pacific Ocean. In the Arctic I traced the ocean forces that melt Greenland and the Northwest Passage glaciers mostly in conjunction with the NASA Ocean Melting Greenland mission. I could see that increases of glacial meltwater discharge influence the livelihood of the high latitude coastal marine ecosystem. Global impacts from the steady advances in glacial melt include sea level rise, ocean freshening and changes to nutrient availability required for biomass production and healthy fisheries. At Horn Point Lab, my physical, biogeochemical and optical ocean observations along the glaciated coastline will characterize the impacts of increased glacial meltwater discharge on the Earth's oceans. These field observations can lead to the interpretation of the coastal ecosystem response from deglaciation while verifying satellite measurements. I will become an oceanographer in order to best conduct and direct high priority collaborative polar ocean research across ocean research sectors.

PI: Andrea Pain

Foundation: Earth and Ocean Systems

EVENTS: Growing Engagement and Education

Exploring a Career in Marine Science: Maryland STEM Festival

What you would explore if you were a marine scientist?

Horn Point Lab was on-hand at the Maryland STEM event in Cannery Way, Cambridge, on Saturday November 12th giving kids the opportunity to answer this question. Students of all ages explored science,

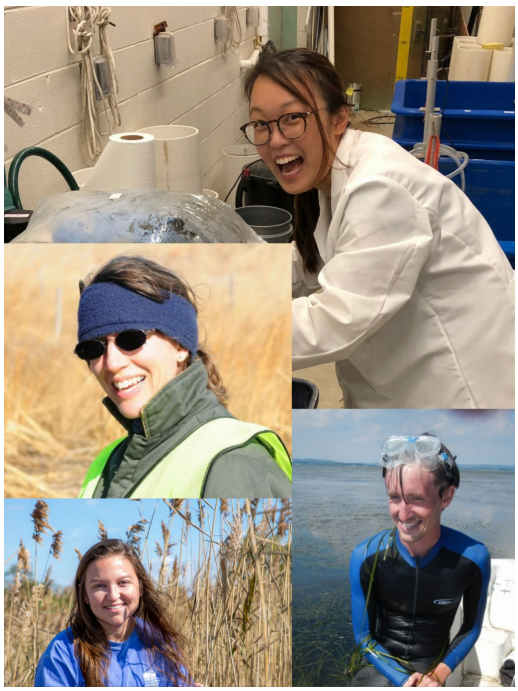
technology, engineering and
mathematics with local businesses, nonprofits and academic programs. HPL provided kids the opportunity to imagine and explore careers in various fields of marine science that study the health of the Chesapeake Bay.

Dive into Science, explore the Bay and beyond

Explore a broad offering of online discussions on science relating to the Chesapeake Bay and the quality of its environment through recordings of seminars presented at the Horn Point Lab.

SEE LISTING HERE

SCIENCE SERVES EVERYONE



Help Support the work of Horn Point Lab

Are you committed to helping solve our environmental challenges? Perhaps you are passionate about educating the next generation of environmental leaders? Do you support science for its contributions to policy and advocacy work? By supporting the Horn Point Lab you can fulfill that purpose.

Even the smallest gift makes meaningful impact!

Visit our **Giving Page** or click on the link below.

Make a Gift

We are grateful for your interest and support for our work, and wish you a

Happy

Thanksgiving!

From *everyone* in the Horn Point Lab community

Located in Cambridge, MD, Horn Point Laboratory is part of the University of Maryland Center for Environmental Science -- a fully-accredited graduate school and research facility conducting environmental research on a variety of ecosystems spanning from the estuarine waters of the Chesapeake Bay to the open waters of the world's oceans. Horn Point is a national leader in applying environmental research and discovery to solve society's most pressing environmental problems.

VISIT OUR WEBSITE

UMCES/HPL remains closed to the public until further notice. We look forward to sharing time with you on campus as soon as it is safe and possible. Until then, please stay safe and follow us on facebook

University of Maryland
CENTER FOR ENVIRONMENTAL SCIENCE
HORN POINT LABORATORY