JULY 2021



Research Highlights: Resilience, Innovation and Predictions

The Blue Crab Genome is Successfully Sequenced

Collaboration between HPL
Associate Professor Louis Plough
and IMET Professor J. Sook Chung
and Research Assistant Professor
Tsvetan Bachvaroff has led to the
successful sequencing of the blue
crab's genome. Plough's role was to
make sure all of the genetic pieces
in the genome are in the right place



and the right number. Understanding the genetic makeup of the blue crab equips scientists to answer important questions about reproductive success and adaptation to climate change.

Build or Retreat: Putting a price tag on the impacts of Climate Change



HPL <u>Professor Ming Li</u> sums up the importance of addressing the impacts of climate change on coastal communities, "We have to think big," Li said. "If you just have a Band-Aid solution, it's not going to work." Li who heads the <u>Coastlines and People</u> (<u>CoPe</u>) <u>Research Coordination</u>
<u>Network</u> says, "Moreover, the risks are growing. Last year, five hurricanes

hit the US Gulf Coast, one with sustained winds up to 150 mph. There's scientific consensus that climate change will cause greater numbers of these

monster Atlantic hurricanes." Li and other global experts look at Houston as they grapple with the issue of build or retreat.

READ STORY IN WIRED

Setting the Record Straight on Carbon Dioxide

Professor Emeritus Tom Malone applies his expertise in a Spy Op-Ed explaining the relationship between increasing CO2 in the earth's atmosphere and global warming. Tom also sets the record straight on climate change vs. global warming. **READ OP-ED**



FACULTY, STUDENT and ALUMNI









Morgan Ross

Pinky Liau

Lynda Bell

Miles Bolton

UMCES/HPL

CONGRATULATIONS GRADUATES 2020-2021!

Horn Point Laboratory Students Shine at UMCES Virtual Commencement Ceremony

"Take a look at those around you. You are the future. You are our experts," said **U.S. Senator Ben Cardin**, keynote speaker at the University of Maryland Center for Environmental Science's Commencement ceremony. "Thank you, UMCES! I know that we are in good hands with this new round of distinguished graduates and professionals."



Ratcliffe Environmental Entrepreneurship Fellowship (REEF) program. Catherine was

Entrepreneurship" award at the final pitch presentation where each of the students skillfully articulated their business vision in short

presentations to a panel of entrepreneurs and investors. Through workshops with local entrepreneurs, lessons on important topics such as intellectual property and customer discovery, and a final pitch competition, students cultivate leadership and business skills to transition technologies from the lab

of her research.

READ ANNA'S STORYMAP



Scholarships Provide Opportunities for Students to Broaden Horizons

The Mid-Shore chapter of Izaak Walton League of America (IWLA) warmly welcomed scholarship recipients for 2020 and 2021 at their annual summer barbecue. Paulina Huanca and Anna Windle were 2020 recipients and Sophia Ahn and Carol Kim are 2021 recipients. All are PhD



students. The \$2,000 scholarships offer the opportunity for students to expand their research by taking intensive courses relating to their work, traveling to conferences to present and network, and purchase equipment to further their research. We are extremely grateful for the Mid-Shore Chapter's generous support of two HPL students annually and their

commitment to the next generation of environmental leaders.

Pictured here, Sophia Ahn, Anna Windle and Paulina Huanca. (Carol Kim was unable to attend) **READ MORE**

Out and ABOUT: HPL Faculty sharing their knowledge

Art and Science come together to enhance Cambridge's Streetscape.

Saturday, June 12 a new mural was unveiled in Cambridge. Located above Chesapeake College's building at 418 Race Street, the mural inspires the community to consider the rich diversity of marine life in the Chesapeake Bay and the benefits we all receive from it.

The UMCES - Horn Point Lab was invited to share its scientific knowledge to assist in creating a vision and storyboard for the new



mural. Faculty members <u>Jamie Pierson</u> and <u>Victoria Coles</u> and graduate student <u>Lisa Ziegler</u> provided plant, flora and fauna suggestions to the artists <u>Red Swan</u>, a woman owned, Baltimore-based mural studio. HPL assisted with creating the storyboard located on the College's building on Race Street. **READ MORE**

Sharing Scientific Knowledge to Advance Innovation



Matt Gray, Jeff Cornwell, Imani Black (founder of Minorities in Aquaculture and incoming HPL student) were panelists for the Chesapeake Oyster Science Symposium held June 3. A gathering of early career professionals, graduate students, researchers, restoration experts, and aquaculturalists, the Symposium

focused on emerging science and innovative approaches to advance the

oyster population of Chesapeake Bay.

EVENTS: Growing Engagement and Education







CBS This Morning Visit to HPL Oyster Hatchery to Air Saturday!

Gorgeous sunrise, check! Planting vessel full of spat-on-shell destined for the Tred Avon River, check! Successful oyster spawn, check! CBS News crew on site to capture it all, check!

The <u>Oyster Recovery Partnership</u> and the <u>HPL Oyster Hatchery</u> had a blast shooting the upcoming CBS this Morning with <u>Skyler Henry</u>.

Tune in Saturday, July 10 at 8;00 am on CBS morningWJZ-Baltimore or WBOC- Salisbury

Save the Date to Celebrate! Beverly and Richard Tilghman are the 2021 Chesapeake Champion for the Environment



SAVE THE DATE

Horn Point Laboratory

Chesapeake Champion for the Environment Award Reception





Thursday, September 30, 2021 Cocktail Reception 5-7 pm Tidewater Inn, Easton, MD



Details to follow Carin Starr 410-221-8408 cstarr@umces.edu

Give Now

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





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