



Brief...and Interesting

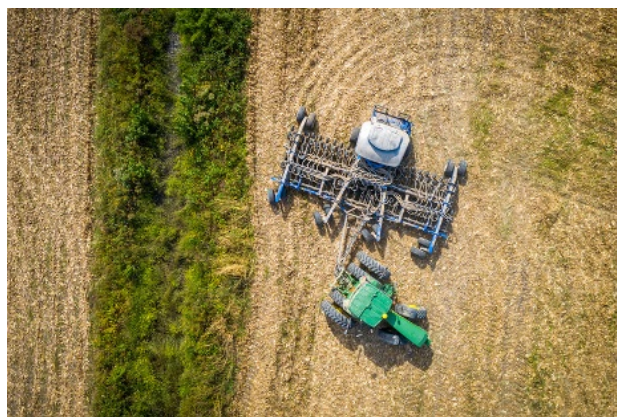
News from the Horn Point Laboratory

New Horizons: Resilience, Innovation, Discovery

ADDRESSING THE HEART OF THE MATTER: HUGHES CENTER FUNDS RESEARCH FOR HORN POINT FACULTY

The Harry R. Hughes Center for Agro-Ecology has funded two projects led by faculty at the Horn Point Lab (HPL); **Matt Gray**, **Greg Silsbe** and **Matt Houser**. HPL faculty and other project collaborators will lend insight into pressing Chesapeake issues; generating reliable oyster production to enhance economic growth in aquaculture and understanding factors that can help farmers turn challenges into opportunities with climate change.

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THE MOVEMENT OF PLASTICS IN THE CHOPTANK; HORN POINT SCIENTISTS SET TO STUDY

Microplastics are found everywhere. But what happens to the pieces that flow through rivers closer to home — or are trapped in

marshes and washed up on shorelines along the way?

Two Horn Point faculty, **William Nardin** and **Jamie Pierson**, are asking this question through a two-year research project kicking off this year with grant funding from the

NOAA's Marine Debris Project.

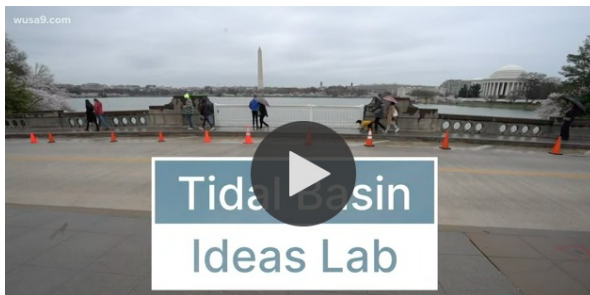
The Choptank river is the site for data collection. Are marshes and grass beds possibly catch basins for microplastics? Pierson, a biological oceanographer, explained the project. "We're looking at how microplastics flow through the system and how they're affected by the system. As the river is flowing, what happens when [microplastics] move past these marshes? How is that different from what happens in the middle of the channel?" The Bay Journal dives into this project and the importance of harnessing this data.

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FACULTY, STUDENTS and STAFF

FROM THE SCIENTISTS PERSPECTIVE: MANAGING REAL IMPACTS FOR SEA LEVEL RISE AND CLIMATE CHANGE

The Talbot Spy Editor Dave Wheelan sat down with **Elizabeth North**, HPL associate professor to discuss her research towards capturing carbon and rebuilding reefs.



Blossoms and Climate Change. WUSA TV9'S Kaitlyn McGrath talks with **William Nardin**, HPL assistant professor and member of the **Tidal Basin Ideas Lab**, and Mike Litterst, Ranger with the National Park Service. For over a century, more than a million people have flocked

to the Tidal Basin every year to see the cherry blossoms, but climate change is threatening the blooms.

"Forecasting Our Future", WBAL-TV 11 Jayne Miller talks with **Mike Roman**, HPL Director, **Dave Nemazie**, UMCES Chief of Staff, and Dorchester County farmer Paul Jackson. Rising sea levels are already impacting Maryland, and it's expected to worsen over the next two decades.

- Story covered in second video link, "Rising sea levels, erosion expected to worsen in Maryland"



OPENING YOUNG MINDS TO CAREER POSSIBILITIES IN MARINE SCIENCE

Ten students from the Horn Point Lab visited Cambridge South Dorchester High School to share their stories of how they came to pursue a career in marine science. Talking with science classes in grades 9-12, HPL students shared their wide array of scientific interests and how they hope to have a positive impact with their careers.

Photo: Brendan Campbell, PhD student at Horn Point, shares his research about creating innovative tools to assist aquaculture farmers.

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HORN POINT GRADUATE NAMED DIRECTOR OF NOAA'S OXFORD COOPERATIVE LAB

After nearly 20 years as a team leader at the Oxford Cooperative Laboratory, NOAA's National Centers for Coastal Ocean Science recently announced **Dr. John Jacobs** as the new Director. Jacob's research has evolved to address coastal pathogens in recreational waters and shellfish. John is dedicated to

developing the next generation of scientists and continuously works with Horn Point Lab and other academic institutions as a research advisor and mentor for Graduate students.

EARTH DAY: LENDING A HAND TO CLEAN UP AND SHARING NATURE'S BEAUTY WITH KIDS

Mother Nature was in all her glory Friday in Cambridge to celebrate Earth Day. Members of Horn Point's community donned florescent vests and hit the roads leading to the Horn Point Lab. Blue sky above, spring green

grass and water filled ditches below. Once empty bags were filled with trash collected roadside. Even a couch was hauled away! Horn Point Lab is now a better place for our family of foxes to frolic.



Families enjoyed eARTh Day at the



Academy Art Museum (AAM). The Diatom, beautiful, single-celled algae, were the creative inspiration for the day's fun. Children created their own diatoms, hanging them to create dynamic mobiles. "Cellphies" were taken and printed on stickers for the kids to take home. Horn Point student **Ben Malmgren**, and faculty research assistant **Ben Gregory** joined AAM's Youth Director, Constance Del Nero, engaging attendees with the beauty of nature - one cell at a time.

SCIENCE IS FUN & SERVES EVERYONE!

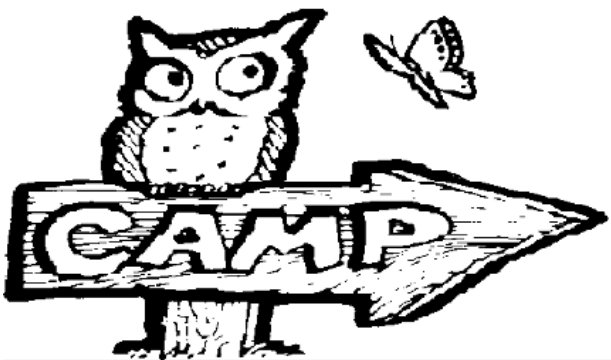
TOURS TO BEGIN AGAIN AT HORN POINT - JOIN US!

After being closed for 2 summers, Horn Point Lab is thrilled to be able to welcome the public to explore our science. Walk the Horn Point campus and learn about physical oceanography, eDNA, water quality, coastal resilience, oysters in the Atlantic Coast's largest hatchery and more!

These 90 minute walking tours are **FREE** and open to the public. Tours are best suited for people 10 years and older.

Tours take place **every Tuesday at 10:00 am**, starting Tuesday, May 31 to Labor day.

For details, contact the outreach coordinator at 410-221-8383 or hpltours@umces.edu.



SUMMER FUN FOR KIDS! TOADFISH ADVENTURES

A fabulous experience returns for kids this summer at Horn Point. Canoeing, fishing/seining, marsh mucking, extreme wading, field games, arts and crafts, oyster hatchery tours, oyster tonging,

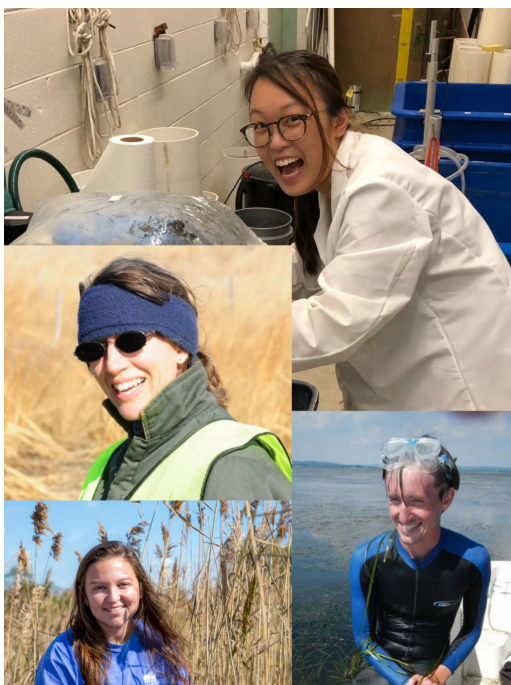
nautical knot tying, scavenger hunt, tie-dye, geocache/map & compass, Native American studies, oyster dissection, hiking, and shell bagging/oyster cage building. Plus on Wednesday night participants will enjoy a cookout, campfire, s'mores!

Rising 1st graders to 9 year olds week of **August 8-12**

Students 10-14 years old week of **August 15-19**

Cost is \$250 per session and will include t-shirt and daily snacks. Pack your lunch and join the fun! (sessions limited to 20)

To learn more and register, email Bryan Gomes, HPL Environmental Education Specialist, at bgomes@umces.edu.



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

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



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