

June 2019

Bay Water Quality



Marsh Restoration



Oyster Restoration



Brief...but Interesting

Highlights from Horn Point Laboratory

- Next gen of science leaders graduates
- Today's environmental leaders from HPL
- Microplastics, understanding their impact
- Upcoming events



HPL PhD recipients and faculty advisers front row left to right: Melanie Jackson, Cindy Palinkas, Emily Russ, Maureen Brooks, and Victoria Coles. Rear left to right: Jeff Cornwell, Larry Sanford, and Blake Clark.

Next Generation of Environmental Science Leaders Graduates

The University of Maryland Center for Environmental Science (UMCES) graduated its 6th class with 4 of the 10 PhD's going to students at the Horn Point Laboratory (HPL). There are a total of 96 Master's and PhD students at the 4 UMCES laboratories across the state and 18 received their degrees at the ceremony. 3 HPL PhD graduates; Melanie Jackson, Emily Russ, and Maureen Brooks are serving a year as [Knauss Fellows](#) impacting federal policy decisions, and Blake Clark is completing his post-doctoral fellowship at NASA studying how climate change will affect carbon exchange. The featured Commencement speaker was Professor [Vicki Arroyo](#), J.D., Executive Director, [Georgetown Climate Center](#) and Assistant Dean for Centers and Institutes at the Georgetown University Law Center.

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Environmental Leaders today set roots at HPL

There many stories to tell about HPL graduates serving as leaders in the environmental arenas of business, policy, and education. Included here is a tiny sample of this impactful group of scientists.



[Deborah Bronk](#), President and CEO of the [Bigelow Laboratory for Ocean Sciences](#). Deborah's fascination with the microscopic organisms and chemicals of the ocean has guided her career. "You can't have a whale if you don't have phytoplankton, and you can't have phytoplankton if you don't have nitrogen," Bronk said. "Whales and dolphins are amazing, but I now know they're not nearly as fascinating as phytoplankton, which essentially control everything that's going on in the ocean."

[Richard R. Arnold II](#), NASA Astronaut Ricky Arnold looks to the camera during his visit to the International Space Station. **What was the most important lesson attributable to your higher education?** The importance of relationships and investing in other people. I am incredibly thankful for the amount of time and energy that the faculty at UMCES invests in their students.



[Rebecca Holyoke](#), Deputy Director of NOAA Office of National Marine Sciences. began her career with NOAA in 2009 as a John A. Knauss marine policy fellow in the



Office of National Marine Sanctuaries and has been a program analyst with the office since 2010. She currently serves as the national advisory council coordinator, ensuring the effective management, operation, and engagement of 15 advisory councils, and as the office's strategic planning coordinator.

Craig Carlson, Vice Chair of the Interdepartmental Graduate Program in Marine Science (IGPMS) and is a member of UCSB's Marine Science Institute. Carbon is central to life in the ocean and climate chemistry, and carbon is at the core of my research. My team studies how carbon cycles through the ocean's environment and organisms. We apply traditional as well as cutting edge molecular techniques to understand these dynamic relationships. The ultimate goal of this research is to establish linkages between microbial community composition and biogeochemical processes.



Microplastics, understanding their impact on oysters and the Chesapeake Bay



Microplastics are ubiquitous and a growing problem. Their impact begins with single celled organisms that mistake the smallest particles for food. These plastics then travel up the food chain. **Christne Knauss**, a PhD student at HPL, focuses her research on how oysters in the Chesapeake Bay are affected by ingesting plastic pollution.

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Upcoming Events

Science Bytes with HPL

Changing Chesapeake: What's in store for the Eastern Shore"

A conversation on Climate Change using data from the past century.
Professor Victoria Coles

July 18, 2019
6:00 to 7:30pm

Piazza Italian Market, 218 N Washington St, Easton, MD 21601
\$25 - per person - includes hors d'oeuvres and a glass of wine or beer
Questions contact Carin Starr to register, 410-221-8408 or cstarr@umces.edu

[Register here](#)

Impacts best management practices have on water quality People Land Water - Review of a 6 year study

A meeting to review 6 years of data gathered to evaluate the impact of best management practices implemented by farmers to improve water quality.

[Learn more](#)

Friday, August 9
1 to 5 pm

Free and open to the public
Caroline County government offices, Denton, MD (403 S. 7th Street, Denton MD 21629)
Questions contact Anne at 410-221-8238 or abgust@umces.edu

[Register here](#)

Save the Date HPL OPEN HOUSE

Saturday, October 12
11 to 4 pm

Free and Open to the public

The best day of the year to learn about the science of the Bay. Everyone at the lab is on deck to explain their research with activities and displays that make science fun and easy to understand

[LEARN MORE](#)

Other Events - connecting science with the environment

Summer Reading

Add to your pile the One Maryland book for 2019

What the Eyes Don't See: A Story of Crisis, Resistance, and Hope in an American City
by Mona Hanna-Attisha

Check out at your local County Library

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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.

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