

# Lab Lines

NOVEMBER 2018

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## GIVING TUESDAY CHALLENGE



An anonymous donor and long-term friend and supporter of CBL has come forward to offer a matching challenge grant of up to \$10,000. When you donate between now and December 15, a contribution of equal value comes from the donor and effectively doubles the impact of your giving. Your donation will be matched dollar for dollar up to \$10,000. That's \$20,000 to support future environmental leaders completing their graduate work at CBL.

We'll have a formal launch of the match challenge campaign on Giving Tuesday, November 27. An email appeal will go to current and potential donors. Giving Tuesday is a national movement created to build awareness about nonprofits and charities. Giving Tuesday is a great time to fill the heart rather than the shopping cart.

If you have questions or would like to contribute to the campaign, contact Jeane at [jwharton@umces.edu](mailto:jwharton@umces.edu).

## RESEARCH & AWARDS

**D**r. David Secor received an award from the Canada Department of Fisheries and Ocean, October 3, 2018 to March 31, 2019. The title for this project is: *Isotope Analysis of Otoliths*.

Dr. Jackie Grebmeier received additional funds from the US Department of Commerce, National Oceanic and Atmospheric Administration, April 1, 2017 to March 31, 2019. The title for this project is: *The Distributed Biological Observatory (DBO) Northern Chukchi Integrated Study (NCIS): Hydrography, Sediment, and Macrofaunal Population Dynamics*.

Dr. Andrew Heyes received an award from the Maryland Department of the Environment, October 3, 2018 to September 30, 2019. The title for this project is: *Monitoring Mercury in Young of the Year Fish in Maryland Freshwaters and Estuaries 2018*.

**D**rs. Lora Harris and Jeremy Testa received additional funds from the Calvert County Commissioners, July 1, 2017 to June 30, 2019. The title for this project is: *Calvert County Tidal Creeks Water Quality Study 2017-2019*.

Dr. Lora Harris was invited to give a couple of talks to other institutions. The first talk was a public lecture given at St. Mary's College Natural Sciences and Math Colloquium located in St. Mary's City, MD. The title : *Tales from a Coastal Ecologist Working at the County Scale*. **Abstract:** Ecologists working in estuaries and coastal ecosystems have long embraced research questions that target societal needs. Perhaps because of this close relationship between our research and communities, we frequently collaborate with local, state, and federal agencies and organizations to provide science-based advisory services for the management of coastal waters. The fate of this applied research might be in restoration actions, policies, or as leverage into basic scientific discovery. Dr. Lora Harris will discuss the legacy and impact of applied research in the coastal realm, while also providing anecdotes from her own work in community and place-based research in the Chesapeake Bay, Puerto Rico, and Rhode Island. This public lecture will provide a window into understanding how science happens in the coastal ecosystems so many of us care about. The audience will gain insights into how discovery and creativity can flow from addressing real world problems we face in our tidal creeks, wetlands, streams, and lagoons.

The second public lecture was given for the UNC Coastal Studies Institute in Wanchese, NC. The title: *Science on the Sound* is a part of a short visiting scholar program that Dr. Harris was invited to participate in. **Abstract:** The history of human development is strongly coupled to our advances in managing water supplies, especially in how we

have treated wastewater. With rapid coastal urbanization over the past 100+ years, changes in the quantity and treatment of our waste has had a profound impact on the quality of coastal receiving waters and ecosystems. Dr. Harris will share the story of this history in the United States, and describe how policy changes and technological improvements in wastewater engineering are now targeting restoration and remediation of these ecosystems. She will also describe new environmental forensic approaches for tracking wastewater pollution in an effort to understand its impact on estuaries and lagoons.



Dr. Mario Tamburri traveled to San Francisco to perform IWCC testing in Alameda, CA.

Dr. Jeremy Testa traveled to Baltimore, MD to attend and present at the American Water Resources Association Annual Meeting.

Drs. Jenny Nessler and Michael Wilberg traveled to present research findings at Menhaden ASMFC meeting in Arlington, VA.

## PUBLICATIONS

Bankovits, D., Pohlman, J.W., Ganju, N.K., Iliffe, T.M., Lowell, N., Roth, E., Sylva, S.P., Emmert, J.A., **Lapham, L.L.** In press. *Hydrologic Controls of Methane Dynamics in Karst Subterranean Estuaries*. *Global Biogeochemical Cycles*.

## Upcoming Facilities Projects

Beaven Hall 2nd floor renovations are underway. The contractor is scheduled to begin on November 5 and we should have the area up and in operation by March 1, 2019. This will include new conference and collaboration spaces as well as an open computer lab area. We will be completely renovating the space to bring it up to current requirements. The finishes will include bamboo flooring, LED lighting, painting with low-VOC paint, the addition of a restroom and water bottle filling station and all new HVAC ductwork.

Work Orders and Reservation forms are online. Please use the online forms when requesting meeting space, vehicles, apartments/dorms, or when submitting a request for work to be completed. This streamlines the process and insures that the request is reviewed. Online forms link: <http://www.umces.edu/cbl-forms>.

Please remember! If you have a critical issue, please call 410-326-7333 and report the situation for immediate response.

## OUTREACH

The CBL Visitor Center will be open from 9:30 to 4:30 pm on Friday's, Saturday's, and Sunday's from November through December 9th. If you would like to purchase CBL logo merchandise for the holiday season, please plan to make your purchases ahead of Sunday, December 9. The final day for Visitor Center operations for calendar year 2018 is December 9. Learn more about the CBL Visitor Center at <https://www.umces.edu/cbl/visitor-center>.

## National Fire Protection Association (NFPA) 704

The NFPA diamond label was developed for emergency personnel to quickly and easily identify any risks posed by hazardous materials when responding to a fire or a spill. It helps firefighters determine what procedures to follow, what equipment to use and what precautions to take upon arrival to the emergency. Responders are trained to read and understand these labels very quickly.



The NFPA diamond is composed of four smaller diamonds that are each color coded. Blue – health, red – fire, yellow- reactivity or instability and white – special hazards.

Hazards are numbered from 0-4 with 0 being the least hazardous to 4 being a severe hazard. The higher the number the more precautions and protective equipment is needed.

Labels should be placed outside buildings, on doors and on vehicles.

**Red** – flammability – 0 – will not burn.

- 1 – Needs to be preheated for ignition; flashpoint > 200 °F.
- 2 – Must be moderately heated for ignition; flashpoint between 100° F and 200° F.
- 3 – Flashpoint between 73° F and 100 ° F.
- 4 – Extremely flammable. Flashpoint below 73° F.

**Blue** – health- 0 – normal material.

- 1 – Slightly hazardous. May cause irritation.
- 2 – Hazardous. Exposure may cause incapacitation and possibly injury if not treated.
- 3 – Exposure could cause injury even if treated
- 4 – Exposure may cause death.

**Yellow** – reactivity or stability – 0 – stable.

- 1 – May detonate. May become unstable at elevated temperatures and pressures. May be mildly water reactive.
- 2 – Violent chemical change. Unstable, but will not detonate. May form explosives with water.
- 3 – Shock and heat may detonate.
- 4 – Readily detonates.

**White** – special hazard – OX – oxidizer

**W** – no water

SA – simple asphyxiant

These are the only authorized symbols for the white diamond. Other symbols- such as “corrosive” or “toxic” - are taken into account in the other diamonds.

Excerpted from:

*Hazard Communication Right to Know* OSHA 29 CFR 1910.1200 COMAR 09.12.33

National Research Council. (2011) *Prudent Practices in the Laboratory*. Washington, D.C.: National Academies Press.

**J**ust as important as notifying HR when a new person will begin employment at CBL is notifying HR when someone is departing. Please remember to schedule an exit appointment with HR when a member of your team is leaving or graduating. This is a critical step in the process.

Timesheets – these need to be completed every pay period by everyone receiving compensation from the state of Maryland. And, approval of employees in your area is equally important. A calendar alarm works great for this routine task. Thank you for helping us remain compliant (and employees paid on time)

Open Enrollment!! Tis the season. Please stop by Beaven Hall to pick up your packet and be sure to make any necessary changes by the deadline. A summary sheet will be sent to you following your selections to verify everything went through correctly.

## Welcome to CBL....

Amanda Shick - General Assistant  
Supervisor: Dr. Mario Tamburri



## UPCOMING EVENTS



**Enjoy your break November 22 - 25, 2018**

The Solomons Island Christmas Walk will be held on December 7 and 8, 2018. Learn more at <http://solomonsmaryland.com/events/signature-events/solomons-christmas-walk/>. The Visitor Center will be open for extended evening hours.

**CBL's Holiday Party/Luncheon will be held December 14 at 1:00 p.m.**

**Holiday Recess December 25 - January 1, 2019**

