

# Lab Lines

SEPT 2019

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Cover Photo: Leanne Powers and Maddie Lahm demonstrating how to be a scientist to visitors at the Open House.

## DIRECTOR'S VIEW

CBL's 2019 Open House is now behind us. On Saturday, September 7, a beautiful, warm autumn afternoon, we welcomed approximately 900 people to our campus. I want to thank all of you who worked on the day, and the many who labored quietly behind the scenes to make the day such a success. Whether our visitors spent time learning about dolphins, oyster aquaculture, or exothermic reactions, all left knowing who we are, what we do and why it is important. More than one commented to me on the enthusiasm and pride with which faculty, staff and students talked about their work. Your enthusiasm is infectious! I couldn't be prouder than to be part of an institution where all the staff are so passionate about what we do. Judging by the number of young people who visited, and who knew their Bay, I have renewed hope that society will commit to a sustainable future.

## RESEARCH & AWARDS

Congratulations to Hunter Hughes, who was recently notified that he will be a 2020 ASLO LOREX (Limnology & Oceanography Research Exchange) fellow and will spend time in Israel working with Dr. Tali Mas at the University of Haifa.

Chris Rowe gave a lecture to middle school STEM camp participants on climate change and wildlife on July 27.

The final CBL-sponsored Patuxent Research Cruises will take place aboard the R/V Carson on September 24-25th.

## FACILITIES PROJECTS

Beaven Hall 2nd floor renovation is

## WORK ORDERS & RESERVATION FORMS ONLINE

Please use the online forms when requesting meeting space, vehicles and apartments/dorms or when submitting a request for work to be completed. <http://www.umces.edu/cbl-forms>

almost complete. Stop by and check out the new space! The computer lab has moved to the newly renovated space with sit/stand desks and a great view to get your mind thinking creatively.

## GREEN CAMPUS IMPROVEMENT

The newly renovated Beaven Hall 2nd floor includes solid bamboo flooring, LED lighting, freshly painted with low-VOC paint, the addition of a restroom with water saving fixtures and a hand dryer. Also included is water bottle filling station! The newly installed ductwork will provide a constant comfortable temperature in the area.

The BFL lighting upgrade project received a SMECO Sustainability rebate in the amount of \$15,285! This project is estimated to have a cost avoidance of over \$8,000 annually which includes energy consumption, bulb replacement and maintenance costs.

## HUMAN RESOURCES INFORMATION

UMCES has transitioned over to Workday, the new employee benefits platform. New employees are registering for benefits using the new system, and existing employees will be registering for 2020 benefits using the new system, as well as using the system now to make changes when life-events occur. The Human Resource campus reps will no longer have access to your

benefits.

Tuition remission forms will NO longer be on paper! The new electronic system has been successfully implemented and all remission requests will be routed electronically beginning with the fall 2019 semester. More details on this will follow.

New ethics training laws have gone into effect in Maryland. For most employees, training will now be required, not just a form completed. Details on this will be rolled-out soon.

A new sexual harassment training law was passed in October 2018 which require all employees to attend an in-person 2-hour training every 2 years and all new employees attend in-person training within six months of hire.

1095-C - As a reminder, once again the feds have indicated that you do not have to wait to do your personal taxes until you receive this form. And, they have extended the deadline for employees to send the form to employees to March 2nd. UMCES is on target for meeting that deadline.

# Outreach Activities

## Science for Citizens Seminar Series

The Chesapeake Biological Laboratory is excited to welcome distinguished alumni back to our campus for the upcoming Science for Citizens seminar series. Members of the public are invited to join us for free public seminars on the following Tuesday evenings from 7:00pm – 8:00pm:

- September 24th - Integration of Habitat Mapping & Acoustic Technologies to Advance Ecosystem Based Management, presented by Dr. Mark Monaco
- October 1st - Are PFAS the Environmental Contaminant issue of our times? Presented by Dr. Chris Salice
- October 8th - Seafood swapping: What is it and what can we do about it? Presented by Dr. Kim Warner
- October 15th – Sea turtle conservation in the Western Hemisphere, presented by Veronica Caceres
- October 22nd - Flame Retardants: Friend or Foe? Presented by Dr. Heather Stapleton

Learn more about the Science for Citizens Seminar Series at: <https://www.umces.edu/cbl/science-citizens>

## Visitor Center & Tours

The Chesapeake Biological Laboratory Visitor Center has transitioned to its fall schedule, with hours of operation from 9:30am – 4:30pm every Friday, Saturday, and Sunday. Learn more at: <https://www.umces.edu/cbl/visitor-center>.

## Community Events

The Chesapeake Biological Laboratory will have outreach displays at the following community events: Volunteers will be needed to help at several upcoming community events. As a reminder, featuring your research and volunteering at these events can help build out the broader impact components of your grant reports.

The [Patuxent River Appreciation Day](#) (PRAD) on Saturday, October 12th from 10:00am – 7:00pm at Calvert Marine Museum.

The [U.S. Oyster Festival](#) on Saturday, October 19th from 10:00am – 6:00pm and on Sunday, October 20th from 11:00am – 6:00pm. This event will be held at the St. Mary's County Fairground in Leonardtown.

## Development Activity and Data

We're gearing up for another Giving Tuesday event the week after Thanksgiving. The donor who offered the challenge last year to match his \$10,000 donation is not able to do that again this year. Dr. Tom Miller, other faculty and CBL alumni are going to give \$10,000 to challenge donors to match it. As of last week, \$6,000 has been pledged. If you would like to help us with the first \$10,000, contact [Jeane Wharton jwharton@umces.edu](mailto:Jeane.Wharton@umces.edu) or Dr. Miller.

## Travel

Hali Kilbourne and Hunter Hughes had a successful field expedition in the Florida Keys this past August. The weather cooperated, so they finished with their seawater Sr/Ca sampling in record time and had some time to participate in the coral spawning/propagation efforts going on just after the full moon. They stayed up late, plastic cups ready to catch gametes, with staff and volunteers of the Florida Aquarium, Keys Marine Lab, and the Coral Restoration Foundation. The goal is to facilitate fertilization and settling of the endangered *Acropora cervicornis* and *Acropora palmata* that are now so rare in the Keys that successful reproduction in the wild is rare.

Laura Lapham started her sabbatical in Gif-sur-Yvette, France, at Le Laboratoire des Sciences du Climat et l'Environnement (LSCE). She will be working with Dr. Christophe Rabouille on a variety of things related to methane in the aquatic environment, but specifically focused on learning new modeling techniques. If you happen to be in Paris for a meeting, let her know, she's close to the city center.

Jeremy Testa will attend the International Alliance to Combat Ocean Acidification Workshop Coast to Coast State Convening: Regional Impacts of Ocean Acidification and State-Led Efforts to Respond in Brooklyn, New York on September 26-27.

Dave Secor participated in a workshop on NYC Storm Surge Barrier science at the Hudson River Foundation on September 13.

Ben Frey will be in Woods Hole this semester participating in the NERTO (NOAA Experimental Research and Training Opportunity) Program, designed to introduce graduate students to the challenges that NOAA government scientists face in applying best science to practical issues of conservation and stewardship. Ben will be working under the mentorship of Drs. Anne Richards and Eric Robillard in evaluating the accuracy and precision of ageing methodologies for monkfish and black sea bass, two valuable fished species in New England waters. While there, he will participate in a 3-week leg of the NOAA Northeast Fall Bottom Trawl Survey, which supplies key assessment information for scores of living resources. Bon voyage.



## SAFETY CHECKLIST FOR LABORATORY USERS

Please read the following questions and think carefully about your answers.

1. Do you wash your hands before leaving the laboratory?
2. Do you wear appropriate attire in the laboratory (lab coat, safety goggles, gloves, shoes)?
3. Are the appropriate hazard signs and emergency numbers posted on the outside of the laboratory door?
4. Are all containers in your lab properly labeled? Do you know how to interpret these labels?
5. Do you know where to find Safety Data Sheets (SDSs) for all chemicals used in your laboratory?
6. Are the chemicals in your lab properly stored?
7. Have you been instructed in the proper use and handling of the chemicals in your laboratory?
8. Have you been instructed in the location and use of safety devices (safety showers, eye washes, laboratory hoods, etc.) in your laboratory?
9. Are you aware of emergency procedures in the event of a chemical exposure, spill, fire or explosion?
10. Do you know how to properly segregate and dispose of chemicals you will use?
11. Are all mechanical engineering controls (e.g., fume hoods) operating properly?
12. Do you know who to notify if working in a laboratory alone after normal hours?
13. Have you attended laboratory specific training provided by your Laboratory Supervisor?
14. Do you know where your laboratory Standard Operating Procedures (SOP) are stored and how to use them?
15. Are you familiar with the protocol you are following? Do you feel comfortable performing the procedure without additional information or demonstration?

If you answered NO to any of these questions, read this laboratory safety guide and if you still have questions, see your laboratory supervisor.

This checklist is excerpted from the General Laboratory Standard Operating Guidelines and Procedures which is available on the p drive. P:\safety\plans & policies\laboratory policies.

# Publications

Akcora, CG., Gel, YR., Kantarcioglu, M., Lyubchich, V., Thuraisingham B. 2019. GraphBoot: quantifying uncertainty in node feature learning on large networks. Transactions on Knowledge and Data Engineering. <https://doi.org/10.1109/TKDE.2019.2925355>. [UMCES Contribution No. 5643]

Burke Watson, E., Haaf, L., Raper, K., Reilly, E. Removal of Positive Elevation Bias of Digital Elevation Models for Sea-Level Rise Planning. Data 2019, 4, 46. <https://doi.org/10.3390/data4010046>. [UMCES Contribution No. 5636]

Glandon, H., Kilbourne, K., Miller, T. (2019) Winter is (not) coming: Warming temperatures will affect the overwinter behavior and survival of blue crab. PLoS ONE 14(7): e0219555. <https://doi.org/10.1371/journal.pone.0219555>. [UMCES Contribution No. 5644]

M.C. Garvin, J. Schijf, S.R. Kaufman, C. Konow, D. Liang, A.E. Nigra, N.H. Stracker, R.J. Whelan, G.C. Wiles. 2019. A survey of trace metal burdens in increment cores from eastern cottonwood (*Populus deltoides*) across a childhood cancer cluster, Sandusky County, OH, USA. <https://doi.org/10.1016/j.chemosphere.2019.124528>. [UMCES Contribution No. 5651]

Shen, C., Testa, J. M., Ni, W., Cai, W.-J., Li, M., & Kemp, W. M. (2019). Ecosystem metabolism and carbon balance in Chesapeake Bay: A 30-year analysis using a coupled hydrodynamic-biogeochemical model. Journal of Geophysical Research. Oceans, 124. <https://doi.org/10.1029/2019JC015296>. [UMCES Contribution No. 5703]

Wright, D., Mitchelmore, C., Place, A., Williams, E., and Orano-Dawson, C. 2019. Genomic and Microscopic Analysis of Ballast Water 3 in the Great Lakes region. <https://doi.org/10.3390/app9122441> [UMCES Contribution No. 5641]

## UPCOMING EVENTS: FACULTY SEMINARS FALL 2019

- **SEPTEMBER 18** Dr. Jon Cohen, University of Delaware. *Pollution in the plankton: Delaware Bay microplastics and Arctic Polar Night light*
- **OCTOBER 2** Dr. Mary Beth Decker, Yale University. *Bering Sea Jellyfish Blooms: Ecosystem Impacts of Jellyfish Population Fluctuations*
- **OCTOBER 9** Dr. Jay Peterson, NOAA Fisheries - Climate. *Moving towards climate-informed fisheries management*
- **OCTOBER 16** Dr. Rene Boiteau, Oregon State University. *Organometallic Speciation*
- **OCTOBER 23** Dr. Heather Stapleton, Duke University. *Flame Retardants*
- **OCTOBER 30** Dr. Asim Dey, Princeton University. *TBD*
- **NOVEMBER 6** Dr. Martha Buckley, George Mason University. *North Atlantic Circulation and Climate*
- **NOVEMBER 13** Dr. Kevin C. Weng, VIMS. *Plasticity and adaptation: migratory coastal fishes under climate change*
- **NOVEMBER 20** Dr. Emily Cohen, UMCES Appalachian Laboratory. *TBD*
- **DECEMBER 4** Dr. Sarah Latchney, St. Mary's College. *TBD*

