

Lab Lines

DEC 2019

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CHRISTMAS PARTY DECORATIONS



NICK HALL C.B.L. DEC. 3, 1941

DIRECTOR'S VIEW

As we look to holidays with family and friends, it is also good to reflect on what we have achieved at CBL over the last year. Several things stand out to me: student leadership, staff excellence and research impact. CBL students have demonstrated tremendous leadership this year – organizing lunchtime presentations for the entire campus on mental health, sponsoring the community painting project that will shortly be hung in Truitt and advocating for student interests at CBL, UMCES and in MEES. CBL staff continue to outperform. Our facilities team make this a tremendous place to work, a place to which I am always proud to welcome our guests. Our administrative team continues to perform minor miracles everyday getting proposals submitted, expenses processed and supplies ordered. All of our researchers continue to enhance CBL's reputation. We have been awarded highly competitive grants, and have published more than 80 papers on the Chesapeake Bay, on fisheries management and on geochemistry. Our researchers continue to provide service at the local, state, national and international level – informing policy decisions with accurate, impactful scientific advice. We have indeed stayed true to our founding creed – primus inter pares.

I thank all of you for your contributions to CBL in 2019 – for making it the place that it is, a welcoming and exciting place to work. I know you will join me in making 2020 even more memorable as we strive to become more diverse, inclusive and impactful.

Cheers, Tom

PUBLICATIONS

WOODLAND, R.J., F.Y. Warry; Y. Zhu, R. Mac Nally, P. Reich, G. Jenkins, D. Brehm, P.L.M. Cook, 2019. The role of benthic habitat structure and riverine connectivity in controlling the spatial distribution and ecology of estuarine fish. *Marine Ecology Progress Series* 630:197-214. <https://doi.org/10.3354/meps13116> [UMCES Contribution No. 5724]

Khider, D., Emile-Geay, J., McKay, N. P., Gil, Y., Garijo, D., Ratnakar, V., et al. (2019). PaCTS 1.0: Acrowdsourced reporting standard for paleoclimate data. *Paleoceanography and paleoclimatology*, 34, 1570-1596. <https://doi.org/10.1029/2019PA003632> [UMCES Contribution No. 5704]

POWERS, L. C., Hertkorn, N., McDonald, N., Schmitt-Kopplin, P., Del Vecchio, R., Blough, N. V., & GONSIOR, M. (2019). Sargassum sp. act as a large regional source of marine dissolved organic carbon and polyphenols. *Global Biogeochemical Cycles*, 33. <https://doi.org/10.1029/2019GB006225> [UMCES Contribution No. 5718]

*Fun Fact - It was also selected for an Eos spotlight. <https://eos.org/research-spotlights/sunlight-stimulates-brown-algae-to-release-organic-carbon>

TRAVEL & AWARDS

Hadley McIntosh Marcek will be giving a talk at the 2019 American Geophysical Union Fall Meeting in San Francisco, CA on December 11th and participating as a panelist in a Town Hall for AGU student and early career section representatives.

Christopher Rowe gave an outreach seminar titled, "Wildlife in the Anthropocene" at the American Chestnut Land Trust on November 18th.

Mike Wilberg is traveled to Capetown, South Africa between December 2-6 for their [International Stock Assessment Workshop](#).

Vyacheslav Lyubchich presented results on improving epidemiological forecasts (influenza and zika viruses) in a poster titled "Complementing the power of deep learning with novel predictors and statistical model fusion" at the Bayesian Statistics Conference in Gold Coast, Australia. He also participated in the Data Science and Social Good Symposium and launch of the QUT Centre for Data Science -- both in Brisbane, Australia.

Lisa Wainger attended the Agriculture and Environmental Law Conference on November 14th. She presented a talk

titled "Nutrient Credit Trading Opportunities in Maryland" discussing how trading can reduce the costs of restoring aquatic habitat in the Chesapeake Bay and how an active trading market could expand oyster aquaculture in Maryland. Her talk was noted in the agricultural community [press](#) and a [fact sheet](#) was produced.

Outreach Activities



VISITOR CENTERS & TOURS

For the Solomons Island Christmas Walk, the Visitor Center was open with extended hours, light snacks, hot chocolate, and a great view of the Lighted Boat Parade!

The Visitor Center will now be closed for the winter season. Learn more about the Visitor Center at: <https://www.umces.edu/cbl/visitor-center>.

SOCIAL MEDIA

Did you know that the Chesapeake Biological Laboratory has social media accounts? Follow us on Twitter at @CBLOutreach and on Facebook at www.facebook.com/ChesapeakeBioLab/.

STUDENT VIDEO FILMING

Student videos featuring Nicole Barbour, Annalise Conway, Alex Fireman, and Jerelle Jesse are being edited. These 2-3 minute videos, explaining who these individuals are, what they are researching, and why that research is important, will be featured in the CBL Visitor Center and online next year.

Development



The Southern Maryland Recreational Fishing Organization (SMRFO) made a donation recently to CBL to support field and laboratory work in fisheries research and management. The mission of the SMRFO is to “provide a unified voice to preserve and protect the fisheries resources, the rights of recreational fishermen, the health of the Chesapeake Bay and the opportunity to support activities that enhance the overall marine environment.” CBL Director and Professor, Dr. Tom Miller attended a recent meeting of the organization to accept the donation.

Last month, also, members of the Chesapeake Garden Club toured CBL and made a donation in support of intern and mentoring programs with undergraduate students in Science, Technology, Engineering, and Math (STEM) courses.



The Giving Tuesday effort is in full swing this month. Giving Tuesday, celebrated the Tuesday after Thanksgiving, is a global initiative to encourage charitable giving. CBL closed out this past Giving Tuesday with \$17,500 in donations. Thank you to those here on campus who helped make it such a great success! Donations to CBL may be by check or online <https://www.givecampus.com/campaigns/2969/donations/new> Contact Jeane Wharton jwharton@umces.edu or Dr. Miller for more information.

#GIVING TUESDAY™

MEDICAL EMERGENCIES

Take the SDS of the chemical that caused the injury to the Emergency Room if possible. Know where eyewash stations, emergency showers, and first aid kits are located for your work area. Emergency procedures may include:

- Flushing eyes with water for 15 minutes in case of chemical contact.
- Washing skin with soap and water, and removing contaminated clothing;
- Moving to fresh air if a person has been inhaling hazardous dust, fumes, or vapor
- Getting emergency medical assistance if a person has swallowed a hazardous chemical. There are no general first aid measures for swallowing – vomiting may cause more harm, diluting with water may increase the risk. Call 911 or the Poison Hotline (1-800-222-1222) and have the appropriate SDS available.

Chemicals on Skin or Clothing

- Flush with water for no less than 15 minutes (except for Hydrofluoric Acid, Flammable solids or >10% phenol). For larger contamination the safety shower should be used. Do not waste time because of modesty. Remove all contaminated clothing or jewelry.
- Solvents such as paints, varnishes, lacquers, adhesives, glues, and degreasing/cleaning agents, and in the production of dyes, polymers, plastics, textiles, printing inks, agricultural products, and pharmaceuticals are capable of dissolving or dispersing one or more other substances dissolved in them. Do not use solvents to wash skin. Solvents remove the natural protective oils from the skin and can cause irritation, inflammation and the absorption of toxics into your body.
- For flammable solids on skin, first brush off as much as possible, then flush with water for at least 15 minutes. Read the SDS and make sure the flammable solid is not reactive with water before you rinse.
- For hydrofluoric acid rinse with water for at least 15 minutes.
- For phenol concentrations >10%, flush with water for 15 minutes or until the affected area turns from white to pink.
- In all cases of severe contamination seek medical attention.

Inhalation

- Close containers, move to fresh air.
- If symptoms such as headaches, nose or throat irritation, dizziness, or drowsiness persist, seek medical attention. Explain what chemicals you were using and if possible take the appropriate SDS with you.

Ingestion

- Call 911 or the Poison Control Center (1-800-222-1222).
- Do not induce vomiting unless directed to do so by a healthcare provider.

Injection

- Wash area with soap and water and seek medical attention, if necessary.

Excerpted from Hazard Communication Right to Know OSHA 29 CFR 1910.1200 COMAR 09.12.33 This document is available on the p drive in the Safety folder under plans and policies.

