Lab Lines

AUGUST 2018

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CBL Open House

September 8, 2018
1:00 p.m. to 5:00 p.m.

Discover the world of science on Solomons Island at the Chesapeake Biological Laboratory's third annual Open House! This free, public event provides a "behind-the-scenes" view of exciting CBL's research and features demonstrations and exhibits for all ages.

Photo: Sarah Brzezinski

RESEARCH & AWARDS

Dr. Helen Bailey received an award from the Department of Natural Resources (Maryland Energy Administration), June 13, 2018 to June 30, 2019. The title for this project is: *Year 4/5 Marine Mammal Passive Acoustic Monitoring Study.*

Drs. Genevieve Nesslage and Slava Lyubchich received an award from the National Oceanic Administration Association, July 1, 2018 to June 30, 2019. The title for this project is: *Evaluating the Effect of Environmental Factors on Golden Tilefish Catch Per Unit Effort and Assessment Accuracy.*

Dr. Thomas Miller received additional time and funds from the National Oceanic Administration Association (Maryland Sea Grant), August 1, 2017 to July 31, 2019. The title for this project is: *Impact of Misspecification of Spatical Structure of Assessment and Stock on Reliability of Reference Points.*

OUTREACH

Visitor Center & Campus Tours

Renovation activities to help CBL preserve the historic Solomons House and improve the energy efficiency of building operations are underway. Please refer to the CBL website for updates and revisions to Visitor Center hours of operation and campus tour offerings: https://www.umces.edu/cbl/visitor-center

Please join the CBL community in welcoming our new Visitor Center volunteers Ken Mowbray, Eleanor Ritchie, Harry Feigleson, Anne Mychalus, Brenda Hollweger, and Maria Fields.

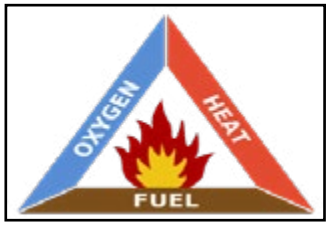
Upcoming Community Events

Volunteers will be needed to assist with a CBL Outreach booth at the following upcoming community events:

- Saturday and Sunday, October 6-7 from 10:00am – 5:00pm -- Patuxent River Appreciation Days at the Calvert Marine Museum https://www.calvertmarinemuseum.com/311/PRAD
- Saturday, October 20th from 10:00am – 6:00pm & Sunday, October 21st from 11:00am – 6:00pm - U.S. Oyster Festival at St. Mary's County Fairgrounds https://usoysterfest.com/

SAFETY CORNER BY CHERYL CLARK

The Fire Triangle



The fire triangle illustrates the three components that are necessary for the creation and maintenance of a fire. By removing one of the legs of this triangle, a fire can be prevented or extinguished.

Oxygen - helps support the process for a fire to occur. It literally helps the fire to breathe. This is why small fires can be put out by simply covering with sand or dirt or smothering it with a blanket. This will cut off the oxygen supply and extinguish the fire.

Heat - is needed to get the material to ignition temperature. This can be provided by matches, lighters, lightning or electricity. Ignition sources in the lab include hot plates, heating mantles, bunsen burners and other pieces of equipment that could cause a spark.

Fuel - is the food for the fire.

In order for these three components not to exist in the lab it is important to remember:

- Keep fuel sources to a minimum. Flammable chemicals are not the only fuel in the lab. Large quantities of paper, such as journals, notebooks and records should not be stored in the laboratory.
- Be sure to segregate incompatible chemicals. All flammables should be stored in a flammables cabinet, refrigerator or freezer. Be sure oxidizers, such as nitric acid and peroxides, are stored separately from other chemicals.
- Keep chemical vapors to a minimum in the laboratory by working in a fume hood or well ventilated area and if necessary, reducing the temperature of the chemical (e.g. ice bath, chillers).
- Be sure to clean up all spills imediately.
- Keep ignition sources as far from flammables as possible. Never use flammables over an open flame.
- Containers used for discharging flammables should be grounded to reduce static electricity.

Note: It is not your job to fight a fire. You need to leave the building to go to your assigned meeting place, pull the fire alarms as you go and dial 911. Only people with fire extinguisher training are allowed to use the extinguishers.

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

PUBLICATIONS

Neeley, A.R., Harris, L.A., Frey, K.E. 2018. *Unraveling Phytoplankton Community Dynamics in the Northern Chukchi Sea Under Sea-Ice-Covered and Sea-Ice-Free Conditions*. Geophysical Research Letters.

Gonsior, M. 2018. *FT-ICR MS and Orbitrap Mass Spectrometry Approaches in Environmental Chemistry*. Elsevier book chapter: Fundamentals and Applications of Fourier Transform Mass Spectrometry.

Schijf, J. and Garvin, M.C. (2018). *Validation and Application of a New Microwave-Digestion/ICP-MS Method for the Analysis of Trace Metals in Tree Increment Cores.* Geochemical Journal 52, 347-358 (Open Access).

H.J.W., De Baar, Bruland, K.W., **Schijf, J.** (2018). *Low Cerium Among the Dissolved Rare Earch Elements in the Central North Pacific Ocean.* Geochimica et Cosmochimica Acta 236, 5-40.

WHO'S ON TRAVEL

Dr. Hali Kilbourne traveled to Miami, FL to present a talk at the 2018 International AMOC Science meeting.

The Secor Lab Group traveled to Ocean City, MD to tag black sea bass, collect and retain individuals for sampling, and deploy acoustic receivers as a part of a project related to offshore wind development.

Dr. Michael Gonsior traveled to Durham, NH with PI collaborators and attended the Gordon Conference in Organic Geochemistry in Holderness, NH.

Dr. Viacheslav Lyubchich traveled to Mexico City, MEX to participate in the TIES 2018 conference.

Dr. Johan Schijf will travel to Boston, MA to give an oral presentation at the 2018 Goldschmidt Meeting.

HUMAN RESOURCES

Welcome to CBL...

Timo Arula - General Assistant with Dr. Lisa Wainger

UPCOMING EVENTS

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