

Lab Lines

MARCH 2019

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PlasticWatch Project

Over eight million tons of plastic end up in the ocean every year which can harm or even kill marine animals. Drs. Helen Bailey, Carys Mitchelmore, and Michael Gonsior, with Outreach Coordinator Sarah Brzezinski and PhD student Nicole Barbour, are working with the local community in Solomons, Maryland, to reduce the use of single-use plastics and raise awareness about the issue of plastic pollution in a project called “PlasticWatch”. This project consists of working with six restaurants, three of which are testing biodegradable or reusable alternatives to plastic straws and take-out containers (Lotus Kitchen, The Pier and CD Café), and the other three restaurants are providing information on their plastic use for comparison (Ruddy Duck Brewery and Grill, Island Hideaway and Stoney’s Kingfisher). We are also working with Calvert County to install three public signs on Solomons Boardwalk describing plastic pollution and what you can do to help reduce it. More information on the project and a survey that you can complete is available on our website: www.umces.edu/plasticwatch. Everyone can make a difference!

RESEARCH & AWARDS

Dr. Vyacheslav Lyubchich received an award from the National Oceanic Atmospheric Administration (MD Sea Grant), February 1, 2019 to November 30, 2020. The title for this project is: *The Development and Dissemination of Casual Inference for Observational Socio-Environmental Data*.

Dr. Lisa Wainger received an award for additional funds from the Maryland Port Administration, February 1, 2018 to January 31, 2023. The title for this project is: *Economic Studies of Harbor Dredging, Operations and Future Development*.

Dr. Mario Tamburri received additional funds from the Maryland Port Administration, January 1, 2018 to December 31, 2023. The title for this project is: *Environmental Studies MERC*.

Dr. Mario Tamburri received an award from the California State Lands Commission, May 1, 2018 to April 30, 2019. The title for this project is: *Chemical Analyses for the Evaluation of Ship In-Water Cleaning and Capture*.

RESEARCH & AWARDS CNTD.

Dr. Jackie Grebmeier received additional funds from the National Oceanic Atmospheric Administration (University of Alaska Fairbanks), November 1, 2014 to October 31, 2019. The title for this project is: *Integrating Ocean Observing System (IOOS)*.

FACULTY AWARDS

Dr. Michael Wilberg was awarded the 2018 Excellence in Fisheries Education Award by the Tidewater Chapter of the American Fisheries Society.

STUDENT AWARDS

Chelsea Wegner was awarded the Excellence in Poster Presentation at the Ph.D. Level at the 2019 Alaska Marine Science Symposium, Anchorage, AK.

OUTREACH

Visitor Center & Tours

The Chesapeake Biological Laboratory Visitor Center is currently closed for the winter season. Despite renovation activities and closures, 3,483 guests came to the Visitor Center in 2018.

Group tours of CBL can be arranged throughout the year by contacting the Outreach Coordinator. Learn more at: <https://www.umces.edu/cbl/visitor-center>.

Volunteer Appreciation Luncheon

In 2018, 36 Visitor Center Docents volunteered 941 hours of service. Six lab volunteers contributed an additional 580 hours of service to CBL. To thank these individuals for their valuable contributions to the CBL community, an annual Volunteer Appreciation Luncheon will be hosted on Monday, April 1st from about 12:00pm - 1:30pm.

2019 CBL Open House

Open House was a great success in 2018, with 848 attendees and great press coverage. Save the Date of Saturday, September 7 for the 2019 event!

DEVELOPMENT

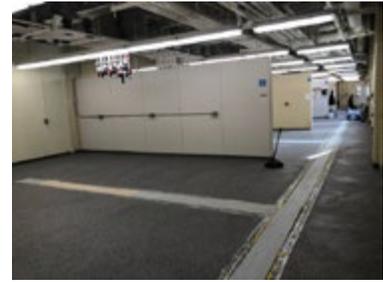
Science for Citizens

Science for Citizens seminars begin Tuesday night, March 26 at 7:00 p.m. as Dr. Lora Harris speaks on Diversifying the Geosciences: Lessons in Culture, Inclusion and Community Engagement. The events are well attended. An average of 96 attended each of the five Spring seminars. Science for Citizens seminars again have corporate sponsors: PNC Banks, Southern Maryland Toyota and TEAM Hyundai.

Facilities Projects

Beaven Hall 2nd floor renovation is almost complete. Stop by and check out the new space! The computer lab (formerly located in Nice Hall) will be moving to the newly renovated space with sit/stand desks and a great view to get your mind thinking creatively.

The Cronin seawater lab area flooring project is complete! This will eliminate the ponding of water in the back corners of the lab areas and provide a safer floor surface.



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 of \$15,285! This project is estimated to have a cost savings of over \$8,000 annually which includes energy consumption, bulb replacement and maintenance costs.

Work Orders and Reservation forms are 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>

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

HUMAN RESOURCES

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.

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.

GHS Pictograms

The Hazard Communication Standard requires pictograms on chemical labels to warn users of the hazards to which they may be exposed. Each pictogram consists of a symbol on a white background framed within a red border that is pointed down. Each of these represents a specific hazard. There are nine pictograms. Four of these pictograms depict physical hazards (oxidizers, flammables, explosives and compressed gas), three are health hazards (toxic, human health and irritant), one is both a physical and a health hazard (corrosive) and one environmental hazard (this one is not mandatory).

There should be a poster of these in your laboratory and you should be able to recognize these symbols on sight. If you do not have one of these posters, please contact me – x458.



Shen, C., Testa, J.M., Li, M., Cai, W.-J., Waldbusser, G.G., Ni, W., Cornwell, J. Brodeur, J., Su, J. 2019. *Controls on carbonate system dynamics in a coastal plaine estuary: A modeling study.* Journal of Geophysical Research: Biogeosciences, 124. <https://doi.org/10.1029/2018JG004802>. [UMCES Contribution No. 5549].

Brodeur, J. R., Su, J., Chen, B., Xu, Y.-Y., Hussain, N., Scaboo, K.M., Zhang, Y., **Testa, J.**, and Cai, W.-J. 2019. *Chesapeake Bay inorganic carbon: spatial distribution and seasonal variability.* Frontiers in Marine Science - Coastal Ocean Processes. [UMCES Contribution No. 5571].

Hoover, A.L., Liang, D., Alfaro-Shigueto, J., Mangel, J.C., Miller, P.I., Morreale, S.J., **Bailey, H.**, and Shillinger, G.L. 2019. *Predicting residence time using a continuous-time discrete-space model of leatherback turtle satellite telemetry data.* Ecosphere 00(00):e02644.10.1002/ecs2.2644. [UMCES Contribution No. 5604].

Lyubchich, V., Newlands, N.K., Ghahari, A., Mahdi, T., and Gel, Y.R. 2019. *Insurance risk assessment in the face of climate change: integrating data science and statistics.* WIRES Computational Statistics. [UMCES Contribution No. 5570].

Pickart, R., Nobre, L., Arrigo, K., Ashjian, C., Berchok, C., **Cooper, L., Grebmeier, J.,** Hartwell, I., He, J., Itoh, M., Kikuchi, T., Nishino, S., Vagle, S. 2019. *Seasonal to mesocale variability of water masses and atmospheric conditions in Barrow Canyon, Chukchi Sea.* [UMCES Contribution No. 5569].

Itakura, H., **Arai, K.,** Kaifu, K., Shirai, K., Yoneta, A., Miyake, Y., **Secor, D.,** Kimura, S. 2019. Distribution of wild and stocked Japanese eels in the lower reaches of the Tone River catchment revealed by otolith stable-isotope ratios. [UMCES Contribution No. 5563].

Dr. Michael Wilberg participated in the International Whaling Commission meeting in Tokyo, Japan.

Dr. Carys Mitchelmore participated in the Environmental Contaminants and Sea Turtles workshop at the College of Charleston, Grice Marine Laboratory, Charleston, SC.

Dr. Carys Mitchelmore helped lead a workshop at the Gulf of Mexico Oil Spill and Ecosystem (GoMoses) Science Conference.

Dr. Carys Mitchelmore was invited to give a presentation on the State of the Science on *Sunscreens (UV-filters) in Coral Reef Environments* at the Key West City Commission meeting in Key West, FL.

Drs. Lee Cooper and Jacqueline Grebmeier, and student, Chelsea Wegner will be traveling to Lucca, Italy to present a poster at the upcoming Polar Marine Science Gordon Research Conference. The title for this presentation is: *Detecting sympagic versus pelagic carbon sources in Pacific walrus diets using Highly Branched Isoprenoid Lipid Biomarkers.*

Dr. Carys Mitchelmore was invited to give a presentation at the 2019 American Academy of Dermatology Annual Meeting Advisory Board (AADD) concerning the state of the science regarding the impact of sunscreens to corals in Washington, D.C.

Drs. Jeremy Testa and Lora Harris traveled to San Juan, Puerto Rico to attend the ASLO Aquatic Sciences meeting.

Dr. David Secor traveled to Poughkeepsie, NY to present a striped bass research presentation at NY State AFS meeting.

Dr. Michael Wilberg and Marvin Mace, CBL, Assistant Reserach Scientist, traveled to Tidewater AFS annual meeting in Salisbury, MD.

Dr. Wainger's lab group traveled to attend and present at the 2019 Center for Natural Resource Economics and Policy conference in New Orleans, LA.



UPCOMING EVENTS

Science for Citizens - Spring 2019

March 26	Lora Harris, Ph.D.
April 2	Laura Lapham, Ph.D.
April 9	Hali Kilbourne, Ph.D.
April 16	Suzan Shahrestani, Ph.D.
April 23	Helen Bailey, Ph.D.

