

Lab Lines

DIRECTOR'S VIEW

MAY 2021

IN THIS ISSUE:

DIRECTOR'S VIEW	1
DEVELOPMENT/SAFETY CORNER	2
IN CASE YOU MISSED IT	3
OUTREACH/PUBLICATIONS	4

Jeane Wharton will be leaving us at the end of this month to take up a new opportunity working with a trade association in New York - akin to the work Jeane did before joining us. We wish her well in her new endeavors.

But it is also appropriate to reflect on the changes that have occurred in our development program over the last four years. When Jeane joined, our annual fund raising averaged in the low thousands. All of our support was from individual donors. We received no support from philanthropic foundations. We received no support from corporate donors. In fact, it was debatable that my decision to hire a leader of development was shortsighted – it would cost us more in salaries than we would raise in contributions. Yet, in the four years Jeane has been with us, the landscape has changed fundamentally. We now raise an annual average in the hundreds of thousands – substantially more than our costs. We receive larger and more numerous gifts from individual donors. We receive financial gifts and gifts in kind from private foundations. And, we regularly receive donations from corporate foundations. Jeane and I believe we are on the verge of two substantial donations that will further enhance our development program. Some research programs have benefitted more than others. After all, dolphins are cuter than oysters. Yet, Jeane has worked hard to spread donations as broadly as possible. Donors have supported the travel of students to national and international meetings. Donors have paid for pieces of equipment to support work on dolphins (of course), and turtles (also cute), but also striped bass. Donors have also paid for new work vests on the Carson. All in all, the development program Jeane leaves is fundamentally stronger and better than the outlines of the one she inherited. We owe her a heartfelt vote of thanks.



Development Activity: Jeane Wharton

UMCES development and communications staff meet frequently by phone and Zoom with Vice President for Strategic Initiatives Stuart Clarke. Development staff has had extensive online training with the Ellucian Advance database, the large database hosted by the University System of Maryland Foundation. The Foundation supports UMCES and 12 other smaller University System of Maryland institutions. It is our 501c3 entity for grant application and donor charity giving purposes.

We stay in contact with CBL leadership, staff and faculty – and with donors/prospective donors - through emails, texts and phone calls. On the phone or by email, donors praise the Science for Citizens presentations now available on Zoom. Thank you, Tom, Sarah and all the great CBL presenters! The average attendance has been higher than the in-person event, with attendees from all over the US and a few global attendees. Depending on return to campus timing, the Science for Citizens series hopes to return to the Bernie Fowler venue, and an online livestream may be part of the “hybrid” outreach and education effort.

We’re beginning to develop more accurate lists of CBL alumni, and one way we are connecting with them is on Linked In. <https://www.linkedin.com/in/cbl-development-6416b9200/> Thank you, Renee Arnold, for help in beginning our alumni list!

In the first quarter of 2021, Wharton was able to connect individual donors with Faculty Wish List items, including \$2,500 for a fisheries student, \$3,000 for equipment for “investigating new sustainable sources of rare earth elements,” and a \$10,000 donation for research of terrapins and sea turtles.



Dr. Secor’s lab, and student Ben Frey, were recipients of \$2,500 in Faculty Wish List funds from an individual donor to support fisheries research.

Safety Corner: Cheryl Clark

LABELLING ON SECONDARY CONTAINERS

Please remember that if a chemical is moved from its original container to a secondary container, the secondary container must be labelled with the four components shown below, even if it is temporary. (A secondary container is defined as any container holding a product which is not the original container supplied by the manufacturer). These components can be copied from the original label or from Section 2 of the chemical’s Safety Data Sheet. If you have more than one chemical in a container, label it for the most hazardous chemical. You can copy and paste the GHS pictograms into a Word document from the internet to have on hand when you need them and you will also be able to size them to the container. If the container is too small for all of the info, you can make a tag to put the GHS pictograms on it. You can also buy GHS labels and pictograms online for dedicated secondary containers and make copies of them for any temporary containers. If you have any questions, please feel free to contact me – x458 or cclark@umces.edu

Secondary Container Label for an Acetone Container used in a Lab or a Shop

1. Identifier --->
2. Signal Word --->
3. Hazard Statement --->
4. Pictogram --->



This image is from the Hazard Communication Right to Know OSHA 29 CFR 1910.1200 COMAR 09.12.33 located in the p drive – safety>plans&policies>RTK training docs.

In Case You Missed It!

Dolphins are back in the Chesapeake Bay! The Chesapeake DolphinWatch project has been receiving regular reports of dolphin sightings over the last couple of weeks. Check out our updates on our website (www.umces.edu/dolphinwatch) and Facebook page (<https://www.facebook.com/ChesapeakeDolphinWatch>).

An analysis of the dolphin sightings by 2019 REU and current CBL M.S. student Lauren Rodriguez, “Spatial and temporal variation in the occurrence of bottlenose dolphins in the Chesapeake Bay, USA, using citizen science sighting data”, has been accepted for publication in the journal PLoS ONE.



Melissa McCeney via Chesapeake DolphinWatch



Steve Coffman via Chesapeake DolphinWatch

Dr. Carys Mitchelmore has been appointed to the National Academies Committee which is studying the “Environmental Impact of Currently Marketed Sunscreens and Potential Human Impacts of Changes in Sunscreen Usage”. This study will review the state of the science on use of currently marketed sunscreen ingredients, their fate and effects in aquatic environments, and the potential public health implications associated with changes in sunscreen usage. Further details can be found [here](#), including details of meetings in which the public are invited to attend to hear from speakers as the committee gathers their information:

Annaleise Conway a graduate student of Carys Mitchelmore laboratory successfully defended her MSc thesis entitled “Determining the toxicity of the UV filter oxybenzone in the hard coral, *Galaxea fascicularis*” on April 2nd 2021. She conducted laboratory experiments to address concerns raised regarding the toxicity of sunscreen chemicals (UV filters) to corals. This research is part of a larger collaborative effort with the laboratories of Michael Gonsior and Andrew Heyes to investigate the concentrations of UV filters in aquatic systems and together with St. Mary’s College of Maryland and Nova Southeastern University (Dr. Renegar) to determine the toxicity of UV filters on coral species.

Carys Mitchelmore has been invited to participate in the ‘Modernizing Chemical Response to Oil Spills: Ecological Effects Research Forum (CROSERF) Aquatic Toxicity Testing International Forum, specifically in the ‘exposure media preparation’ working group. This forum was initiated in March 2021 and the first working group meetings are planned to start in May 2021.

Reed Brodnik successfully defended his PhD proposal on May 7th. Reed is working on stock structure and population dynamics of Black Sea bass with Tom Miller.

Outreach

Science for Citizens Video Archive

With our video archive, you never have to miss a Science for Citizens seminar. You can find live-quality videos from our past events on our website at: <https://www.umces.edu/cbl/science-citizens-videos>

Watershed Moments

Our Science for Citizens webinar series is over for the spring... but you can still learn about our research! Dr. Helen Bailey will be discussing dolphins in the Chesapeake Bay during UMCES Appalachian Lab's public Watershed Moments Zoom series. Learn more and register at: <https://www.umces.edu/watershed-moments>

Social Media

Did you know that UMCES Chesapeake Biological Laboratory is active on social media?

Help us grow our audiences by following us and sharing our posts!

<https://www.facebook.com/ChesapeakeBioLab>

<https://twitter.com/CBLOutreach>



Visitor Center

Out of an abundance of concern related to the COVID-19 pandemic, the Chesapeake Biological Laboratory Visitor Center will remain closed through at least September 1, 2021.

Publications

Gemery L, Cronin TM, Cooper LW, Dowsett HJ, Grebmeier JM (2021) Biogeography and ecology of Ostracoda in the U.S. northern Bering, Chukchi, and Beaufort Seas. PLoS ONE 16(5): e0251164. <https://doi.org/10.1371/journal.pone.0251164>

Kędra, M. and Grebmeier, J.M. (2021). Ecology of Arctic Shelf and Deep Ocean Benthos. In Arctic Ecology, D.N. Thomas (Ed.). <https://doi.org/10.1002/9781118846582.ch12>.

Jung, J., Cho, K.-H., Park, T., Yoshizawa, E., Lee, Y., Yang, E. J., et al. (2021). Atlantic-origin cold saline water intrusion and shoaling of the nutricline in the Pacific Arctic. Geophysical Research Letters, 48, e2020GL090907. <https://doi.org/10.1029/2020GL090907>

Wassmann, P., Carmack, E.C., Bluhm, B.A., Duarte, C.M., Berge, J., Brown, K., Grebmeier, J.M., Holding, J., Kosobokova, K., Kwok, R., Matrai, P., Agusti, S., Babin, M., Bhatt, U., Eicken, H., Polyakov, I., Rysgaard, S., Huntington, H.P., 2020. Towards a unifying pan-arctic perspective: A conceptual modelling toolkit. Progress in Oceanography 189, 102455.

Feng, Z., Ji, R., Ashjian, C., Zhang, J., Campbell, R., Grebmeier, J.M., 2021. Benthic hotspots on the northern Bering and Chukchi continental shelf: Spatial variability in production regimes and environmental drivers. Progress in Oceanography 191, 102497.

