

Lab Lines

MARCH 2017

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Dr. Mario Tamburri has been selected to receive a USM Regents Faculty Award for Excellence in Public Service for 2017. The Regents' Faculty Awards Committee will present the award at its April 2017 meeting.

FROM THE DIRECTOR

CBL Faculty working with St. Mary's College of Maryland (SMCM) Math Students in Novel Collaboration

Three CBL faculty (Lyubchich, Miller and Woodland) are working with small teams of senior SMCM math majors as part of the students' capstone experience. SMCM faculty Emek Kose is teaching a project-learning based course in which the students selected among a number of real world problems posed by "clients" (such as the CBL faculty). Over the course of the semester, the students are charged with understanding the client's problem, suggesting potential solutions and where possible providing the recommended solution. The idea is to provide the SMCM students experience with the kind of challenges they may face in future jobs, all the while providing CBL faculty with additional math support. The CBL questions being addressed relate to the stability of predator-prey systems, the statistical properties of stable isotope data, and assessing insurance risk.

RESEARCH & AWARDS

Drs. Genevieve Nesslage and Dong Liang received an award from the University of Southern Mississippi (January 1 through December 31, 2017). The title for this project is: *Design of a Cooperative Winter Pelagic Survey for Atlantic Menhaden in the Mid-Atlantic*.

Drs. Michael Gonsior, Andrew Heyes, and Lora Harris received additional time and funds from U.S. Department of Commerce, NOAA (SG) (February 1, 2017 to January 31, 2018). This project is titled: *Tracking Septic System Performance by using Innovative Mass Spectrometric Approaches and Traditional Nutrient Measures*.

RESEARCH & AWARDS CONT.

Drs. Lora Harris and Jeremy Testa received additional time and funds from U.S. Department of Commerce, NOAA (SG) (February 1, 2017 to January 31, 2018). The title for this project is: *Quantifying Changes, Nutrient Cycling and Nitrogen Removal in an Estuary as a Consequence of Aeration*.

Drs. Genevieve Nessler and Michael Wilberg received additional time and funds from U.S. Department of Commerce, NOAA (SG) (February 1, 2017 to January 31, 2018). The title for this project is: *Development of a Bayesian Approach for Estimating Ecosystem-Based Reference Points for Atlantic Menhaden*.

Dr. Mario Tamburri received additional time and funds from

the Maryland Port Administration (MPA) (the term of the contract remains until January 31, 2018). The title for this project is: *Year 2- Maritime Environmental Resource Center (MERC)*.

Dr. Andrew Heyes received an award from the Maryland Department of the Environment (MDE) (January 1, 2017 to January 31, 2018). The title for this project is: *Monitoring Mercury in Young Fish in Maryland Freshwaters and Estuaries and Potomac River Waters*.

Dr. Helen Bailey received an award from the Chesapeake Bay Trust (CBT) (January 27, 2017 to December 3, 2017). The title for this project is: *Dolphin Watch - Increasing Awareness of Chesapeake Bay Stewardship*.

Drs. Thomas Miller and Carys Mitchelmore received an award from the Maryland Industrial Partnerships Program (MIPS) (February 1, 2017 to January 31, 2018). The title for this project is: *Advancing Oyster Settlement for Aquaculture*.

Dr. Lisa Wainger received additional time and funds from the Maryland Port Administration (MPA) (February 1, 2017 to January 31, 2018). *Analysis of Costs/Risks/Benefits of Harbor Dredging and Development Alternatives*.

Student Awards

Hadley McIntosh received the Horton Hydrology Research Grant from the American Geophysical Union.

SUSTAINABILITY

NEW PERSONNEL & STUDENTS

Helen Bailey has three new Faculty Research Assistants through May 2017:

- Aran Garrod - Faculty Research Assistant
- Amber Fandel - Faculty Research Assistant
- Leila Fouda - Faculty Research Assistant

Helen Cummings will be a part time Librarian. Her hours will be Tuesdays, Wednesdays and Thursdays from 10:00 a.m. to 3:00 p.m.



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and all the fresh air you can breathe! Report your accomplishments
to the Director's Office each month and collect your winnings!

January Winners: Lee Cooper, Jackie Grebmeier & Nancy Kaumeyer

FACILITIES

CBL Facilities – Notice a problem? Office unusually cold/hot? Restroom sink won't turn off? We rely on everyone at CBL to make us aware of concerns immediately so we can check it out and take action. Reporting issues is easy. Dial x253 during business hours or x333 after hours for assistance.

Beaven Hall is still “under construction” and the Business Office remains located in Mansueti. Repairs are underway and we are hoping to have everyone back in their rightful seat by April 4. The emergency exterior repairs to Beaven Hall are scheduled to start in mid-March. Stay tuned for more info as this project continues.

The Mansueti project is in the hands of Procurement for contractor award. This project includes a completely new roof, entirely new HVAC systems including ductwork, new LED lighting throughout the building, new ceilings and some interior modifications.

Improvements to BFL are in the design process now! New LED lighting in the conference rooms & lobby, freshly painted lobby and conference rooms, removal of the bulkhead and column in 1101 as well as NEW technology and audio for 1101 and upgraded screens and controls for 1120. A Bernie Fowler feature will be added to the lobby as well as a staff area upstairs for a fridge and coffee counter. Hopefully, the budget will allow for some much needed new lobby furniture.

Safety Reminder: As the weather becomes warmer the Island becomes a very popular place for visitors walking around campus. Please pay attention to your surroundings. Also, as you arrive/depart campus, please pay close attention to pedestrians crossing Williams Street and Charles Street.

OUTREACH

Visitor Center

The Chesapeake Biological Laboratory Visitor Center is closed for the season. The Visitor Center will be open every day for Calvert & St. Mary's County spring breaks (April 8 – 18, 2017), then will reopen in May for the summer. There will be no Friday Campus Tours until June, however pre-arranged Group Tours are offered throughout the year.

Science for Citizens

The Science for Citizen seminar series is designed to engage members of the Solomons, Calvert, and St Mary's communities in learning about who we are here at CBL, what we do, and why it is important. Spring 2017 seminars are listed below:

- March 28 - DolphinWatch: Dolphins in the Chesapeake Bay
- April 4 - A View into the Secret Lives of Animals on the Swim
- April 11 - A Plastic Ocean Film Screenings
- April 18 - Raising the Grade: Patuxent River & Chesapeake Bay Report Cards
- April 25 - Foraging in the Chesapeake

Learn more about these Science for Citizens seminars at: <http://www.umces.edu/cbl/outreach-seminars>.

WHO'S ON TRAVEL?

Helen Bailey is an invited panelist at the Bureau of Ocean Energy Management's Best Management Practices for Atlantic Offshore Wind Facilities Workshop in Silver Spring, MD.

Carys Mitchelmore presented at the Annual GOMRI Conference in (February 6 - 10).

Chris Rowe presented research at the PIELC meeting in Oregon (March 2 - 4).

Johan Schijf, hosted a special session at the 2017 ASLO Aquatic Sciences Meeting in Oahu, HI (February 25 - March 6).



PUBLICATIONS

Dr. **Johan Schijf** will edit a Research Topic for the journal *Frontiers in Marine Science* titled “REE marine geochemistry in the 21st century: A tribute to the pioneering research of Henry Elderfield (1943-2016).” It is based on a special session of the same title, to be hosted at the ASLO Aquatic Sciences Meeting in Hawai with Karen Johannesson of Tulane University. Proposed manuscript titles and abstracts are due on June 2.

The Research Topic can be accessed through the following link:

<http://journal.frontiersin.org/researchtopic/5915/ree-marine-geochemistry-in-the-21st-century-a-tribute-to-the-pioneering-research-of-henry-elderfield>.

Taniwaki, R.H., Cassiano, C.C., Ferraz, S.B.R, **Filoso, S.**, Camargo, P.B. and Martinelli, L.A. 2017. *Impacts of Converting Low-Intensity Pastureland to High-Intensity Bioenergy Cropland on the Water Quality of Tropical Streams in Brazil*. *Science of The Total Environment* (in press).

Williams, M.R., Bhatt, G., **Filoso, S.** and Yactayo, G. 2017. *Stream Restoration Performance and its Contribution to the Chesapeake Bay TMDL: Challenges Posed by Climate Change in Urban Areas*. *Estuaries and Coasts* (in press).

Testa, J., Clark, J.B., Dennison, W.C., Donovan, E.C., Fisher, A.W., Ni, W., Parker, M., Scavia, D., Spitzer, S.E., Waldrop, A.M., Vargas, C.M.D., Ziegler, G. 2017. *Ecological Forecasting and the Science of Hypoxia in Chesapeake Bay*,” *BioScience* (in press).

Rowe, C., Heyes, A. 2017. *Dietary Accumulation of Inorganic Selenium by a Larval Amphibian (*Hyla chrysoscelis*) and Influence on Accumulation of Background Mercury*. *Bulletin of Environmental Contamination and Toxicology* (in press).

UPCOMING EVENTS

- Blue Crab Climate Change Conference - March 28
- Science for Citizens, BFL 1101 - March 28, 7:00 p.m.
- April 4: UMCES Executive Council

