

EMILY E. BOCKMON, Ph.D.

Assistant Professor,
Department of Chemistry & Biochemistry
California Polytechnic State University, San Luis Obispo, CA
ebockmon@calpoly.edu, (805) 756-1636

EDUCATION

- 2014 Ph.D. Chemical Oceanography, Scripps Institution of Oceanography, UC San Diego
Advisor: Professor Andrew G. Dickson, Marine Physical Laboratory
Dissertation: *Carbon manipulations and measurements for a changing ocean*
- 2012 M.S. Earth Science, Scripps Institution of Oceanography, UC San Diego
- 2008 B.A. Chemistry, Pomona College, Claremont, CA

EMPLOYMENT

Assistant Professor, California Polytechnic State University, San Luis Obispo, 2017–present

Postgraduate Researcher, Scripps Institution of Oceanography, UC San Diego, 2016–2017

Visiting Assistant Professor, Department of Chemistry, Pomona College, 2014–2016

PUBLICATIONS

- L. Kapsenberg, **E.E. Bockmon**, P.J. Bresnahan, K.J. Kroeker, J-P. Gattuso, T.R. Martz. Advancing ocean acidification biology using Durafet® pH electrodes. *Frontiers in Marine Science; Global Change and the Future Ocean*, 4: 321, 2017. doi:10.3389/fmars.2017.00321
- E.E. Bockmon** and A.G. Dickson. An inter-laboratory comparison assessing the quality of seawater carbon dioxide measurements. *Marine Chemistry*, 171: 36–43, 2015. doi:10.1016/j.marchem.2015.02.002
- C.A. Pfister, and 14 others. Detecting the Unexpected: A Research Framework for Ocean Acidification. *Environmental Science & Technology*, 2014. doi:10.1021/es501936p
- M.O. Navarro, **E.E. Bockmon**, C.A. Frieder, J.P. Gonzalez, and L.A. Levin. Environmental pH, O₂ and Capsular Effects on the Geochemical Composition of Statoliths of Embryonic Squid *Doryteuthis opalescens*. *Water*, 6: 2233–2254, 2014. doi:10.3390/w6082233
- E.E. Bockmon** & A.G. Dickson. A seawater filtration method suitable for total dissolved inorganic carbon and pH analyses. *Limnology and Oceanography: Methods*, 12: 191–195, 2014. doi:10.4319/lom.2014.12.191
- C.A. Frieder, J.P. Gonzalez, **E.E. Bockmon**, M.O. Navarro, and L.A. Levin. Can variable pH and low oxygen moderate ocean acidification outcomes for mussel larvae? *Global Change Biology*, 20: 754–764, 2014. doi:10.1111/gcb.12485
- E.E. Bockmon**, C.A. Frieder, M.O. Navarro, L.A. White-Kershek, and A.G. Dickson. Technical Note: Controlled experimental aquarium system for multi-stressor investigation of carbonate chemistry, oxygen saturation, and temperature. *Biogeosciences*, 10, 5967–5975, 2013. doi:10.5194/bg-10-5967-2013

GRANTS AND SUBCONTRACTS

- 2019–2022 “Enhanced Algal Production of CA for Improved Atmospheric Delivery of CO₂ to Ponds.” Subcontract PI with J. Craig Venter Institute and Global Algae Innovations. Department of Energy, Office of Energy Efficiency and Renewable Energy (\$85,016)
- 2019–2021 Morro Bay National Estuary Program for Resiliency Project in FY2020. United States Environmental Protection Agency. MOU (\$23,000)
- 2019–2020 “Isotope probing of microbe-microbe interactions to determine fate of carbon and impacts on climate change.” Subcontract, for Ty Samo. Lawrence Livermore National Laboratory, Nuclear and Chemical Sciences Division (\$47,623)
- 2018–2020 “Investigating the impacts of ocean acidification on natural microbial communities in a nearshore coastal upwelling ecosystem.” Co-PI, with Alexis Pasulka. CSU Council on Ocean Affairs, Science & Technology Grant Development Program (\$19,990)
- 2018–2019 “Variability of Seawater Chemistry in Morro Bay, California: Influences of Carbon Dioxide & Eelgrass.” PI. Research, Scholarly and Creative Activities Grant. (\$17,606)
- 2016 Ocean Carbon & Biogeochemistry Traineeship Grant
- 2015 Wig Teaching Innovation Grant, Pomona College
- 2009 California Sea Grant Graduate Traineeship, Scripps Institution of Oceanography

SERVICE AND AWARDS

- Ongoing Reviewer; Scientific Reports, Frontiers: Marine Science, Proceedings B of the Royal Society, NSF OCE, NOAA OER, Limnol & Oceanography Methods
- 2019–2020 Executive Committee Member, Morro Bay National Estuary Program
- 2018–2021 CSU Council on Ocean Affairs, Science & Technology, Campus Representative
- 2017 Women In Science & Technology Conference Organizer, AWIS, San Diego, CA
- 2014 Outstanding Graduate Student Award Finalist, University of California, San Diego
- 2013 CIRTL Network Second Tier Preparation Fellow, Center for Teaching Development
- 2013 COP 19 United Nations Framework Convention on Climate Change, Warsaw, Poland
- 2010–2013 Women and Minorities in Science Officer, Scripps Institution of Oceanography