

David W. Hastings

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Education

Ph.D., University of Washington, Oceanography	1990-94
M.S., University of Washington, Oceanography	1981-85
B.S., Princeton University, Chemistry, <i>cum laude</i>	1974-79

Professional Interests

Marine geochemical indicators of climate change; Paleoceanography/Paleoclimatology; Determination of microplastics in marine environment; Education regarding policy solutions to prevent worst impacts of climate change.

Professional Experience

Professor, Marine Science and Chemistry Department, Eckerd College	2012- 2019
Guest Investigator, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts	Summer 2007-2019
Visiting Professor, Department of Geology, University of Florida	2017-2018
Scholar in Residence, Climate Solutions, Seattle, WA	May 2013
Associate Professor, Marine Science and Chemistry Department, Eckerd College	2004-2012
Visiting Scholar, Department of Earth Sciences, Boston University	2006-2007
Assistant Professor, Marine Science and Chemistry Department, Eckerd College	2000-2004
Research Associate, Earth and Ocean Sciences, University of British Columbia	1995-1999
Graduate Research and Teaching Assistant, School of Oceanography, University of Washington	1990-1994
Oceanographer III, School of Oceanography, University of Washington	1987-1990
Graduate Research and Teaching Assistant, School of Oceanography, University of Washington	1981-1985
Researcher, Environmental Geochemistry, Battelle Laboratories, Columbus, Ohio	1979-1980

Awards and Honors

Awarded [*The Lloyd Chapin Award for Excellence in Scholarship*](#), Eckerd College, May 2015.
STEM Catalyst Collaborative Partnerships Award for initiatives on the Gulf Oil First Responder Team.
Awarded by ARCS Foundation Tampa Bay, February 9, 2013.
Awarded [*The Robert A. Staub Distinguished Teacher Award*](#), Eckerd College, May 2012.
Voted *Best Professor of the Year* by Eckerd College student body, May 2004.
Sigma Xi, Doctoral Dissertation Award, 1995.
University of Washington Interdisciplinary Research Program fellowship, 1990.
University of Washington Egvedt fellowship, 1982.
Chemistry departmental honors, Princeton University, 1979.

Courses Taught (at Eckerd College)

Global Environmental Change; (Honors) Climate Change Science; Chemical and Physical Oceanography; Climate Change: Past and Present; Marine Geochemistry; Paleoceanography; Marine Geochemical Tracers; General Chemistry; Western Heritage in a Global Context; Quest for Meaning, Introduction to Marine Science.

Select Publications (*indicates undergraduate student under my supervision)

- McEachern, K., H. Alegria, A.L. Kalagher*, C. Hansen*, S. Morrison*, D.W. Hastings. (2019) *Microplastics in Tampa Bay, FL: Abundance and Variability in Estuarine Waters and Sediments*. *Marine Pollution Bulletin*. <https://doi.org/10.1016/j.marpolbul.2019.07.068>
- Hastings, DW, PT Schwing, GR Brooks, RA Larson, T Bartlett*, JL Morford, T Roeder*, KA Quinn, I Romero, DJ Hollander. (2016) *Changes in sediment redox conditions following the BP DWH Blowout event*. *Deep Sea Research II*:167-178, special volume: *The Gulf of Mexico Ecosystem: Before, During, and After the Macondo blowout*. <http://dx.doi.org/10.1016/j.dsr2.2014.12.009>
- Williams, C., B. Flower, and D.W. Hastings. (2012) *Seasonal Laurentide Ice Sheet Melting During the Mystery Interval*. *Geology*, 40: doi:10.1130/G33279.1.
- Hastings, D. W. (2011) *Understanding the Carbon Cycle: A Jigsaw Approach*. This activity was extensively reviewed for inclusion in Climate Literacy and Energy Awareness Network's collection of educational resources. <http://serc.carleton.edu/NAGTWorkshops/climatechange/activities/15162.html>.
- Williams, C., B. P. Flower, D. W. Hastings, T. P. Guilderson, K. A. Quinn, and E. A. Goddard (2010). *Deglacial abrupt climate change in the Atlantic Warm Pool: A Gulf of Mexico perspective*. *Paleoceanography*, 25: PA4221, doi: 10.1029/2010PA001928.
- Flower, B. P., C. Williams, H.W. Hill, and D. W. Hastings. (2011) *Laurentide Ice Sheet meltwater and the Atlantic meridional overturning circulation during the last glacial cycle*. *Abrupt Climate Change: Mechanisms, Patterns, and Impacts*. AGU Geophysical Monograph, 2010BK001016.
- Cronin, T. D., D. W. Hastings, and others (2007). *Sea Level Rise in Tampa Bay*. *EOS* 88(10).
- Flower, B. P., D. W. Hastings, H. W. Hill and T. M. Quinn (2004). *Phasing of deglacial warming and Laurentide ice sheet meltwater in the Gulf of Mexico*. *Geology*, 32(7): 597-600.
- Hastings, D. W., A. Russell and S. Emerson. (1998). *Foraminiferal magnesium in G. sacculifer as a paleotemperature proxy*. *Paleoceanography*, 13:161-169.

I have been the invited speaker at numerous public events; some examples over the past five years:

- *Tampa's Vulnerabilities in Facing Climate Change*. Hosted by Café con Tampa. July 13, 2018
- *Ground Zero: The Impact of Climate Change on Florida's Coastal Cities*. Pasco Hernando State College. April 11, 2018.
- *Climate Change Science*. Invited talk: Understanding Climate and Health in Florida - A Focus on Vulnerable Communities. 2018 Cobb Institute Health Disparities Symposium, USF. January 27, 2018.
- *Climate Science and Solutions*. Workshop on Effective Climate Communication funded by Union of Concerned Scientists. December 21, 2017. Bradenton, FL.
- *Climate Change in Florida: Now for the Good News*. Boyd Hill Nature Preserve Natural History Speaker series. St Petersburg, FL. November 14, 2017
- *Climate Change – Real or Fake?* Invited speaker: Willis Leadership Lecture, Shorecrest Preparatory School. St Petersburg, FL November 11, 2017.
- *Climate Science and Solutions: Local Impacts and Regional Solutions*. Sarasota Climate Justice Coalition, Ringling College of Art and Design. November 2, 2017.
- Different Voices, Same Message: Building diversity in meetings with legislators. Webinar panel on how to build effective diverse delegations. Union of Concerned Scientists, July 18, 2017.
- *Climate Science and Solutions: Is it too late for Florida?* OLLI at Eckerd College, Feb. 10, 2017
- *Environmental Justice For All: An Interactive Experience*. October 20, 2016. Eckerd College
- 2Scientists Blog on Climate Change in the oceans: Seas of Change. Podcast (45 minutes) on climate change science and the oceans. <https://2scientists.org/podcast/sea>
- *Climate Change Science: Local Impacts and Florida Solutions*. Keynote speaker: Florida Gulf Coast Audubon Academy. April 23, 2016
- *China's Energy Future: Global climate challenges, national, and local solutions*. Keynote speaker. ASIANetwork Annual Meeting, St Petersburg, FL. March 6, 2016

- Keynote at Climate Education Workshop offered by the [Gulf of Mexico Climate Outreach Community of Practice](#) and [NOAA Climate Stewards Education Program](#), St Pete Beach, FL. May 17, 2015.
- *Climate Change: What does the future hold?* Keynote speaker for [Florida Marine Science Educators Association](#) annual conference. May 2, 2015.
- *Tales from a warming planet: Climate change and the politics of science*. Environmental & Sustainability Studies Program, Western Michigan University. March 27, 2015.