

KATHERINE A. HOERING

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Department of Marine Chemistry and Geochemistry
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EDUCATION

William Smith College, Geneva, NY. 2010
Bachelor of Science: Geoscience
Bachelor of Arts: Environmental Science

Boston University, Boston, MA. 2009
Study Abroad: Sea Semester (Sea Education Association)

Massachusetts Institute of Technology/Woods Hole Oceanographic Institution, Woods Hole, MA. 2011
Audit: Marine Chemistry

PROFESSIONAL EXPERIENCE

Research Assistant II - Woods Hole Oceanographic Institution, Woods Hole, MA. June 2010-Present

- Aid in the design, assembly and development of new chemical sensors
- Participate in research cruises and field expeditions to collect and analyze water samples
- Organize, interpret and summarize data for manuscripts, proposals and presentations
- Train and supervise guest scientists and students
- Coordinate research projects for international field studies
- Set up and manage new laboratory including procurement of supplies and equipment
- Maintain and repair instruments

Water Quality Researcher - Hobart and William Smith Colleges (HWS), Geneva, NY. Summer 2008, 2009

- Studied environmental and hydrogeochemical parameters of the New York Finger Lakes
- Performed sampling and conducted lab analyses to determine water quality
- Interpreted findings and integrated results with meteorological parameters

Geoscience Teaching Assistant - HWS, Geneva, NY. 2009-2010

Athletics Department Student Worker - HWS, Geneva, NY. 2007-2010

Ferry Deckhand - Bustin's Island Village Corporation, South Freeport, ME. Summer 2005-2008

SCIENTIFIC CRUISE EXPERIENCE

Ocean Acidification Pteropod Study, R/V New Horizon, G. Lawson. August 2012

Ocean Acidification Pteropod Study, R/V Oceanus, G. Lawson. August 2011

Particle Transport and Carbon Export over the NW Atlantic Margin, R/V Atlantis, T. Eglinton. September 2010

Sea Education Association C223 research cruise, S/V Cramer, C. Lea. May 2009

PUBLICATIONS

Li, Q., Wang, F., Wang, Z.A., Yuan, D., Dai, M., Chen, J., Dai, J. and **K.A. Hoering**. 2013. Automated Spectrophotometric Measurements of Seawater Total Alkalinity Based on One-point Titration. Environmental Science and Technology: (to be submitted).

Wang, Z.A., Chu, S.N. and **K.A. Hoering**. 2013. High-frequency Spectrophotometric Measurements of Total Dissolved Inorganic Carbon in Seawater. Environmental Science and Technology: (submitted).

Wang, Z.A., Dinga, B., Mann, P., **Hoering, K.A.**, Spencer, R. and R.M. Holmes. 2012. Inorganic Carbon Speciation and Fluxes in the Congo River. Geophys. Res. Lett. 40: 1-6. doi:10.1002/grl.50160.

PRESENTATIONS

Chu, S.N., Wang, Z.A. and **K.A. Hoering**. 2013. Ocean Acidification in the Northeast Pacific Oxygen Minimum Zone. Oral Presentation. Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting, February 17-22, 2013. New Orleans, LA, USA.

Hoering, K., Wang, Z.A., Luttazi, C. and G. Lawson. 2012. Direct Observation of Ocean Acidification in Northwest Atlantic between 2003 and 2011. Poster. Ocean Sciences Meeting, February 19-24, 2012. Salt Lake City, UT, USA.

Tank, S.E., Mann, P.J., **Hoering, K.**, Bulygina, E., Spencer, R.G.M., Wang, Z., McClland, J.W., Raymond, P. and R.M. Holmes. 2012. Photo-mineralization of Dissolved Organic Carbon Flowing from Large Arctic Rivers to the Arctic Ocean. Poster. American Geophysical Union Annual Fall Meeting. American Geological Union Fall Meeting, December 3-7, 2012. San Francisco, CA, USA.

Wang, Z.A., **Hoering, K.** and G. Lawson. 2012. Ocean Acidification in the Northwest Atlantic between 2003 and 2011. Poster. Third International Symposium on the Ocean in a High CO₂ World, September 24-27, 2012. Monterey Bay, CA, USA.

Wang, Z.A. and **K. Hoering**. 2012. Temporal and Spatial Variability of the Riverine Inorganic Carbon System in the Mackenzie River and Beyond. Poster. Ocean Sciences Meeting, February 19-24, 2012. Salt Lake City, UT, USA.

Hoering, K. and J.D. Halfman. 2010. Precipitation, Nutrient Loading and Water Quality trends in the Finger Lakes of New York. Poster. Geological Society of America Northeast Regional Annual Meeting, March 13-16, 2010. Baltimore, MD, USA.

Hoering, K.A. and J.D. Halfman. 2008. 2008 Water Quality Analysis of Otisco Lake, New York. Poster. American Geophysical Union Annual Fall Meeting. December 15-19, 2008. San Francisco, CA., USA.

HONORS

Sigma Xi Scientific Research Society, Spring 2010

Donald L. Woods Prize in Geoscience, Spring 2010

President's Leadership Award, Spring 2010

Dean's List, Spring 2007, Fall 2008, Fall 2009

Laurel Society, 2008-2009

National Field Hockey All-Academic Team, Fall 2006-2008

Helen Heath Scholar, 2006-2007