

Seth G. John  
*CURRICULUM VITAE*

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EDUCATION:

Ph.D. Marine Chemistry and Geochemistry, Massachusetts Institute of Technology/Woods Hole Oceanographic Institution Joint Program, 2007.  
Thesis advisor Ed Boyle.

B.A. Chemistry, Carleton College, 1999.

AWARDS AND GRANTS:

NSF Chemical Oceanography (\$21 K), US GEOTRACES North Atlantic Section: Sample collection for iron stable isotopes, August 2009.

NSF Chemical Oceanography (\$370 K), Fe isotope composition of seawater as a tracer for marine Fe sources and biogeochemical cycles, February 2009.

Division Postdoctoral Fellowship for Geochemistry, Caltech, 2007-2009.

Chesonis Foundation Ignition Grant (\$50 K), MIT Earth Systems Initiative, 2006.

Ocean Ventures Fund Grant (\$12 K), Woods Hole Oceanographic Institution, 2005.

Martin Family Society Fellowship for Sustainability, MIT, 2004-2005.

Fulbright Scholarship, India; Institute of International Education, 2000-2001.

Glenn T. Seaborg Research Fellowship, Los Alamos National Laboratory, 2000.

ACADEMIC EXPERIENCE:

*Oct 2010 – present* Assistant Professor, University of South Carolina.  
Marine trace-metal chemistry and isotope geochemistry.

*Aug 2007 - Oct 2010* Postdoctoral Fellow, California Institute of Technology.  
Iron isotopes in the oceans.

*June 2001 - Aug 2007* MIT/WHOI Joint Program in Chemical Oceanography.  
Marine biogeochemical cycling of Zn isotopes.

*Sept 2000 - June 2001* Fulbright Scholar, M.S. Swaminathan Research Foundation, India.  
Groundwater defluoridation and science communication.

*Nov 1999 - Sept 2000* Research Assistant, Los Alamos National Laboratory.  
Plutonium chemistry and biochemistry.

*Apr 1999-Sept 1999* Research Assistant, Carleton College.  
Organic synthetic chemistry.

## TEACHING EXPERIENCE:

University of South Carolina – 312: Marine Chemistry.

MIT – 12.550: Geosystems Global Carbon Cycle; 12.119: Analytical Techniques for Studying Environmental and Geologic Samples.

## MENTORING EXPERIENCE:

I have always enjoyed mentoring students, and I am proud that nearly all of the students I worked with will be published co-authors on research done under my supervision.

### **University of South Carolina:**

Timothy Conway, postdoctoral scholar.

R.J. Walling, undergraduate research assistant.

Ryan Adams, laboratory assistant.

Jessica Greenwood, laboratory assistant.

### **Caltech:**

Daejung Kwan, Ph.D. student at Caltech, Summer/Fall 2010. *Co-author, ms in prep.*

Amandine Radic, Ph.D. student at LEGOS, Fall 2009.

Perrin Considine, Undergraduate at Caltech, Summer 2009. *Co-author, ms in prep.*

### **MIT:**

Carolina Mendez, UCLA; Summer 2007; *Co-author on John et al. AMR, 2010.*

Robert Geis, MIT; Winter 2005 - Summer 2006. *Co-author on John et al., L&O, 2007.*

Alison Engwall, MIT; Summer - Fall 2005. *Co-author on John et al., EPSL, 2008.*

Roberto Velazquez, MIT; Summer 2005.

Zhitong Zhang, MIT; Winter 2005. *Co-author on John et al., Chem. Geol., 2007.*

Genevieve Park, MIT; Summer 2004. *Co-author on John et al., Chem. Geol., 2007.*

## RESEARCH CRUISES:

Dec-Jan 2008/9 R/V Thomson. Deep-sea coral collection and sampling for Fe isotopes.

June 2008 R/V Knorr. Geotraces intercalibration cruise developing sampling protocols for upcoming Geotraces sections.

Aug 2007 R/V Kilo Moana *Honolulu, Hawaii*. CMORE cruise investigating ecology and chemistry in upwelling regions. Sep-Oct 2002. R/V Kilo Moana *Honolulu, Hawaii*. Investigating the role of Fe-fertilization in stimulating global nitrogen fixation.

Oct-Nov 2005. R/V Knorr *Arica, Chile to Manzanillo, Mexico*. Investigating the biological fractionation of Zn isotopes in the Peru Upwelling Region.

Aug 2005. R/V Endeavor *Narragansett, Rhode Island to Bridgetown, Barbados*. Sampling for Pb isotopes in North Atlantic Deep Water.

Jun-Aug 2003. R/V Kilo Moana *Seattle, Washington to Dutch Harbor, Alaska*. Cruise across the HNLC North Pacific and Bering Sea. Samples were collected to study Zn isotopes in natural samples and colloidal-Fe bioavailability.

## HOBBIES AND INTERESTS:

My hobbies include converting and running a 1984 Mercedes on biodiesel, cooking kale, and hiking with my dogs and family.