

Dr. JILL M. McDERMOTT

ASSISTANT PROFESSOR
DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCES
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EDUCATION

Massachusetts Institute of Technology & Woods Hole Oceanographic Institution

Ph.D. Chemical Oceanography 2014

University of New Hampshire

M.Sc. Earth Science 2009

Dartmouth College

B.A. Chemistry modified with Earth Science 2006

APPOINTMENTS

Assistant Professor, Lehigh University August 2016-present
Multidisciplinary Applied Geochemistry Network (MAGNET) Fellow, University of Toronto 2015-2016
Postdoctoral Researcher, Stable Isotope Laboratory, University of Toronto 2014-2016
MIT/WHOI Joint Program in Chemical Oceanography 2009-2014
Transforming Earth System Sciences Graduate Fellow, University of New Hampshire 2006-2009

TEACHING EXPERIENCE

University of Toronto, MAGNET seminar co-organizer, 2015-2016. Online Applied Geochemistry course (graduate level) with Diane Hanano and Dr. Laura Bilenker (University of British Columbia).
University of Toronto Department of Earth Sciences, 2016. Guest lecturer for SCI 199 Life and Death in the Solar System (undergraduate level) with Dr. Barbara Sherwood Lollar.
University of Toronto Department of Earth Sciences, 2015. Guest lab lecturer for ESS 262 Earth System Processes (undergraduate level) with Dr. Rebecca Ghent.
MIT Department of Earth, Atmospheric, and Planetary Sciences, 2012-2014. Guest lecturer for 12.742 Marine Chemistry (graduate level) with Dr. Benjamin Van Mooy and Dr. Scott Doney.
MIT Department of Civil and Environmental Engineering, 2014. Guest lecturer for 1.76 Aquatic Chemistry (graduate level) with Dr. Jeffrey Seewald.
MIT Department of Earth, Atmospheric, and Planetary Sciences, 2011. Teaching assistant for 12.742 Marine Chemistry (graduate level) with Dr. Benjamin Van Mooy.
University of New Hampshire, 'Transforming Earth System Science Education' Graduate Fellow, 2007-2009. Developed course curricula with 6 secondary school teachers throughout New Hampshire, conceived and taught inquiry-based lectures and field programs for 6-12 graders. Coordinated authentic-research based "Earth System Science" summer course for active and in-training teachers.
University of New Hampshire, Department of Earth Sciences, 2006-2007. Teaching assistant for ESCI 501 Introduction to Oceanography (undergraduate level, non-science majors) with Dr. Joel Johnson, Dr. James Pringle, Dr. Karen Von Damm.

STUDENT MENTORING

P. Watt (MSc.) 2015-2016

C. Sica (MSc.) 2015-2016

PEER-REVIEWED PUBLICATIONS (Links to pdf shown)

Li L., Wing B.A., Bui T.H., **McDermott J.M.**, Slater G.F., Moser D.P., Fisher J., Wei S., Lacrampe-Coulome G. and Sherwood Lollar, B. Archean S-MIF in subsurface fracture waters indicate an ancient sulfur cycle in Precambrian rocks (In press, *Nature Comm.*)

Reveillaud J.C., Reddington E., **McDermott J.M.**, Algar C., Meyer J.L., Sylva S.P., Seewald J.S., German C.R. and Huber J.A. (2016) Subseafloor microbial populations in hydrogen-rich vent fluids from the Mid-Cayman Rise. *Environmental Microbiology* doi:10.1111/1462-2920.13173. [Link to pdf.](#)

McDermott J.M., Seewald J.S., German C.R. and Sylva S.P. (2015) Pathways for abiotic organic synthesis at submarine hydrothermal fields. *Proceedings of the National Academy of Sciences* 112(25): 7668-7672. [Link to pdf.](#)

McDermott J.M., Ono S., Tivey M.K., Seewald J.S., Shanks III W.C. and Solow A.R. (2015) Identification of sulfur sources and isotopic equilibria in submarine hot springs using multiple sulfur isotopes. *Geochimica Cosmochimica Acta* 160: 169-187. [Link to pdf.](#)

Reeves E.P., **McDermott J.M.** and Seewald J.S. (2014) Methanethiol production in mid-ocean ridge hydrothermal fluids. *Proceedings of the National Academy of Sciences* 111(15): 5474-5479. [Link to pdf.](#)

Bennett S.A., Statham P.J., Green D.R.H., Le Bris N., **McDermott J.M.**, Prado F., Rouxel O.J., Von Damm K.L. and German C.R. (2011) Dissolved and particulate organic carbon in hydrothermal plumes from the East Pacific Rise, 9°50'N. *Deep Sea Research Part I* 58(9): 922-931. [Link to pdf.](#)

German C.R., Bowen A., Coleman M.L., Honig D.L., Huber J.A., Jakuba M.V., Kinsey J.C., Kurz M.D., Leroy S., **McDermott J.M.**, Mercier de Lépinay B., Nakamura K., Seewald J.S., Smith J., Sylva S.P., Van Dover C.L., Whitcomb L.L. and Yoerger D.R. (2010) Diverse styles of submarine venting on the ultra-slow spreading Mid-Cayman Rise. *Proceedings of the National Academy of Sciences* 107(32): 14020-14025. [Link to pdf.](#)

PUBLICATIONS IN PREPARATION

McDermott J.M., Seewald J.S., German C.R., and Sylva S.P. Geochemistry of deep-sea hydrothermal fluids from the Piccard vent field, Mid-Cayman Rise, Caribbean Sea (In prep).

McDermott J.M., Heuer V.B., Tille S., Moran J.J., Slater G.F., Sutcliffe C.N., Glein C.R., Hinrichs K.-U. and Sherwood Lollar B. Abiogenic and microbial cycling of volatile fatty acids in ancient crustal fracture waters in the Canadian Shield (In prep).

PROFESSIONAL SERVICES

Lead scientist contact for joint project between Nuclear Waste Management Organization (NWMO, Canadian long-term nuclear waste storage management) and Nationale Genossenschaft für die Lagerung Radioaktiver Abfälle (Nagra, Swiss national cooperative for the disposal of radioactive waste), directing geochemical and microbial sampling teams and analysis of fracture water and rock cores at the Grimsel Test Lab, Switzerland, to understand microbial controls on corrosion rates in decadal-long experiments, 2014-2016.

RESEARCH AWARDS

Grant co-written with B. Sherwood Lollar, G. Slater. "Optimization of sampling and detection of subsurface life in sedimentary and crystalline rocks with low permeability and low biomass: Implications for deep geological repositories" Natural Sciences and Engineering Research Council of Canada Collaborative Research and Development Grants, \$237,350, 2015-2017.

Postdoctoral fellowship. "Geochemical constraints for an extreme deep biosphere in Canadian Shield mines" Canadian Multidisciplinary Applied Geochemistry Network, \$100,500, 2015-2017.

CONFERENCE PRESENTATIONS (PUBLISHED ABSTRACTS)

Sherwood Lollar B., Li L., Wing B., Warr O., Sica C.S., Lollar G.S., Giunta T., **McDermott J.M.**, Sutcliffe C.N., Telling J. and Ballentine C.J. New frontiers for deep fluids and geobiology research in the world's oldest rocks, *AGU Fall Meeting, San Francisco, CA* (submitted).

Warr O., Sherwood Lollar B., Fellowes J., Sutcliffe C., **McDermott J.M.**, Holland G., Mabry J.C., and Ballentine C.J. Exploring the deep, ancient hydrogeosphere within Precambrian crystalline rocks using noble gases, *AGU Fall Meeting, San Francisco, CA* (submitted).

McDermott J.M., Li L., Sutcliffe C.N., Ono S., Wing B. & Sherwood Lollar B. (2016) Sulfur Cycling in Ancient Terrestrial Fracture Waters Transports Archean Signatures, *26th Annual V.M. Goldschmidt Conference, Yokohama, Japan*. [Link to abst.](#)

Warr O., Sherwood Lollar B., Fellowes J., Sutcliffe C., **McDermott J.M.**, Sica C., Holland G., Mabry J. and Ballentine C. (2016) Defining the Residence Times of Fluids within Precambrian-Aged Systems, *26th Annual V.M. Goldschmidt Conference, Yokohama, Japan*. [Link to abst.](#)

Wang D.T., Reeves E.P., Seewald J.S., **McDermott J.M.** and Ono S. (2016) Clumped Isotopologue Constraints on the Origin of Methane in Basalt- and Ultramafic-Hosted Mid-Ocean Ridge Hydrothermal Fluids, *26th Annual V.M. Goldschmidt Conference, Yokohama, Japan*. [Link to abst.](#)

McDermott J.M., Heuer V.B., Tille S., Moran J.J., Slater G.F., Sutcliffe C.N., Glein C.R., Watt P., Hinrichs K.-U. and Sherwood Lollar B. (2016) Distinguishing abiotic from biological carbon sources in the deep biosphere. GSA Northeastern Section Meeting, Albany, NY.

Ballentine C., Warr O., Sutcliffe C., **McDermott J.M.**, Fellowes J., Holland G., Mabry J. and Sherwood Lollar B. (2016) Deep ancient fluids in the continental crust and their impact on near-surface economic, environmental and biological systems. EGU General Assembly, Vienna, Austria.

McDermott J.M., Heuer V.B., Tille S., Moran J.J., Slater G.F., Sutcliffe C.N., Glein C.R., Watt P., Hinrichs K.-U. and Sherwood Lollar B. (2015) Abiogenic and microbial controls on volatile fatty acids in Precambrian crustal fracture waters, *AGU Fall Meeting, San Francisco, CA*. [Link to abst.](#)

McDermott J.M., Heuer V.B., Tille S., Moran J.J., Slater G.F., Sutcliffe C.N., Glein C.R., Hinrichs K.-U. and Sherwood Lollar B. (2015) Abiogenic and microbial cycling of volatile fatty acids in ancient crustal fracture waters in the Canadian Shield, *25th Annual V.M. Goldschmidt Conference, Prague, Czech Republic*. [Link to abst.](#)

Sherwood Lollar B., Sutcliffe C.N., **McDermott J.M.**, Glein C.R., Warr O., Onstott T.C. and Ballentine C.J. (2015) KEYNOTE: Contributions to abiotic and biological deep carbon cycling from H₂ sources in the Precambrian continental lithosphere, *25th Annual V.M. Goldschmidt Conference, Prague, Czech Republic*. [Link to abst.](#)

Warr O., Sherwood Lollar B., Fellowes J., Sutcliffe C.N. **McDermott J.M.**, Holland G., Mabry J. and Ballentine C.J. (2015) Determining the mean residence age of Precambrian fluid systems, *25th Annual V.M. Goldschmidt Conference, Prague, Czech Republic*. [Link to abst.](#)

Glein C., Zhu A., Sutcliffe C., **McDermott J.M.** and Sherwood Lollar B. (2015) The potential for abiotic organic synthesis in an ancient ore deposit: Echoes of an iron-sulfur world? *25th Annual V.M. Goldschmidt Conference, Prague, Czech Republic*. [Link to abst.](#)

Sutcliffe C.N. Burton K., Nowell G., Parkinson I., Glein C., **McDermott J.M.**, Li L. and Sherwood Lollar B. (2015) Tracing $\delta^{18}\text{O}$ – $\delta^2\text{H}$ isotopic evolution of ancient fracture fluids: A novel approach using Sr stable isotopes, *25th Annual V.M. Goldschmidt Conference, Prague, Czech Republic*. [Link to abst.](#)

McDermott J.M., Seewald J.S., German C.R. and Sylva S.P. (2013) INVITED: Constraints on hydrocarbon and organic acid abundances in hydrothermal fluids at the Von Damm vent field, Mid-Cayman Rise, *AGU Fall Meeting, San Francisco, CA*. [Link to abst.](#)

Huber J.A., Reveillaud J.C., Stepanauskas R., **McDermott J.M.**, Sylva S.P. and Seewald J.S. (2013) Microbial anaerobic methane cycling in the seafloor at the Von Damm hydrothermal vent field, Mid-Cayman Rise, *AGU Fall Meeting, San Francisco, CA*. [Link to abst.](#)

Proskurowksi G.K., Seewald J.S., Sylva S.P., Reeves E.P., Lilley M.D. and **McDermott J.M.** (2013) Seawater bicarbonate removal during hydrothermal circulation, *AGU Fall Meeting, San Francisco, CA*. [Link to abst.](#)

McDermott J.M., Seewald J.S., Reeves E.P., German C.R., Sylva S.P. and Klein F. (2012) Abundance of volatile and organic species in intermediate temperature fluids from the Von Damm and Piccard deep sea hydrothermal fields, Mid-Cayman Rise, *AGU Fall Meeting, San Francisco, CA*. [Link to abst.](#)

Seewald J.S., **McDermott J.M.**, German C.R., Sylva S.P., Reeves E.P. and Klein F. (2012) Geochemistry of hydrothermal fluids from the ultra slow-spreading Mid-Cayman Rise, *AGU Fall Meeting, San Francisco, CA*. [Link to abst.](#)

Dick G., Brier J.A., Toner B.M., Sheik C., Cron B.R., Li M., Reed D.C., Anantharaman K., Baker B.J., Jain S., Klausmeier C.A., Jiang H., German C.R., Seewald J., Sylva S.P., **McDermott J.M.**, Bennett S.A. (2012) Microbial geochemistry in rising plumes of two hydrothermal vents at the Mid-Cayman Rise, *AGU Fall Meeting, San Francisco, CA*. [Link to abst.](#)

Huber J.A., Reveillaud J., Reddington E., **McDermott J.M.**, Sylva S.P., Brier J.A., German C.R. and Seewald J.S. (2012) Seafloor microbial life in venting fluids from the Mid Cayman Rise hydrothermal system, *AGU Fall Meeting, San Francisco, CA*. [Link to abst.](#)

Shanks III W.C., Syverson D.D., Seyfried Jr. W.E., Ono S. and **McDermott J.M.** (2011) Experimental determination of hydrothermal exchange of multiple S isotopes at 350°C and 500 bars: Pyrite and

native sulfur reaction in acidic NaCl fluids, *GSA Annual Meeting, Minneapolis, MN*. [Link to abst.](#)

Syverson D.D., Seyfried Jr. W.E., Ono S., Shanks III W.C. and **McDermott J.M.** (2011) Kinetics of S and Fe isotopic exchange between pyrite and hydrothermal fluid, *AGU Fall Meeting, San Francisco, CA*. [Link to abst.](#)

German C.R., McIntyre C., Tyler P., Elliott K., Hammond S.R., **EX 11-04 Expedition Command Center Team** (2010) Off-axis exploration of the Mid Cayman Rise - the view from the beach and from the RV Okeanos Explorer, *AGU Fall Meeting, San Francisco, CA*. [Link to abst.](#)

German C.R., Bowen A., Coleman M.L., Honig D.L., Huber J.A., Jakuba M., Kinsey J.C., Kurz M.D., Leroy S., **McDermott J.M.**, Mercier de Lépinay B.F., Nakamura K., Seewald J., Smith J., Sylva S., Van Dover C.L., Whitcomb L.L. and Yoerger D.R. (2010) Diverse styles of submarine venting on the ultra-slow spreading Mid-Cayman Rise, *AGU Fall Meeting, San Francisco, CA*. [Link to abst.](#)

McDermott J.M., Ono S., Tivey M.K., Seewald J.S. (2010) Evidence for deep-sea hydrothermal fluid-mineral equilibrium from multiple S isotopes: Manus Basin and Lau Basin, *AGU Fall Meeting, San Francisco, CA*. [Link to abst.](#)

McDermott J.M., Von Damm K.L., Kalnejais L. and Bryce J.G. (2009) Sr isotopic evidence for dissolution of anhydrite in hydrothermal fluids at 9°50'N East Pacific Rise, *19th Annual V.M. Goldschmidt Conference, Davos, Switzerland*. [Link to abst.](#)

McDermott J.M. and Von Damm K.L. (2008) On the re-dissolution of subsurface hydrothermal deposits at 9°50'N East Pacific Rise: Implications from geochemical studies of high- and low-temperature fluids, *EOS Trans. AGU 89, Fall Meet. Suppl., Abstract B51D-0402, 2008*. [Link to abst.](#)

McDermott J.M., Scherf L., Ward S., Cady P., Bromley J., Varner R.K. and Froburg E. (2008) Graduate student involvement with designing inquiry-based Earth science field projects for the secondary-level classroom, *EOS Trans. AGU 89, Fall Meet. Suppl., Abstract ED13C-0618*. [Link to abst.](#)

Von Damm K.L., Bates M., Carmichael S., Meana-Prado F., **McDermott J.M.**, and RESET06 Science Party (2006), Response of the 9-10°N EPR hydrothermal systems to recent volcanic eruptions, *EOS Trans. AGU 87, Fall Meet. Suppl., Abstract V13C-02*. [Link to abst.](#)

ADDITIONAL CONFERENCE PRESENTATIONS

McDermott J.M., Seewald J.S., German C.R., Sylva S.P. (2015) Chemical and isotopic analysis of trace hydrocarbons in natural waters, *Deep Carbon Observatory (DCO) Early Career Scientist Workshop, Ponta Delgada, Azores*. [Link to abst.](#)

McDermott J.M., Ono S., Tivey M.K., Seewald J.S., Shanks III W.C. (2012) Examination of fluid-mineral equilibrium and sulfur sources in submarine hot-springs using multiple sulfur isotopes, *Center for Dark Energy Biosphere Investigations: Crustal Processes Meeting, Bremen, Germany*. [Link to abst.](#)

McDermott J.M. and Von Damm K.L. (2007) Evidence for possible re-dissolution of subsurface deposits in hydrothermal fluids from 9°50'N EPR, *InterRidge Theoretical Institute 'Biogeochemical interactions at deep-sea vents,' Woods Hole, MA*. [Link to abst.](#)

AWARDS AND ACHIEVEMENTS

- 2015 Multidisciplinary Applied Geochemistry Network Postdoctoral Fellowship, Natural Sciences and Engineering Research Council of Canada, University of Toronto
- 2015 Deep Carbon Observatory (DCO) Early Career Scientist Workshop Participant (Ponta Delgada, Portugal)
- 2015 George "Gera" Panteleyev Award, conferred annually on the MIT / WHOI student who best exemplifies the commitment to improving the graduate education experience at WHOI
- 2012 Student Travel Award, Center for Dark Energy Biosphere Investigations (Bremen, Germany)
- 2010 Outstanding Student Paper Award, AGU Fall Meeting (San Francisco, CA)
- 2009 WHOI Graduate Research Assistantship (through 2014)
- 2009 Student Travel Award, Scientific Ocean Drilling of Mid-Ocean Ridge and Ridge-Flank Settings Workshop (Austin, TX)
- 2007 Transforming Earth System Science Education Graduate Fellowship, University of New Hampshire (through 2009)

INVITED TALKS

- 2016 Gordon Research Conference on Organic Geochemistry, Holderness School, NH.
- 2016 Earth-Life Science Institute, Tokyo Institute of Technology, New stable isotope techniques and applications to early Earth and life studies workshop, Tokyo, Japan.
- 2016 Mass-Independent Fractionation of Sulfur Isotopes: Possible Molecular Origins Workshop, Telluride, CO.
- 2016 Geological Society of America Northeastern Section Annual Meeting, Albany, NY.
- 2015 Pathways for abiotic organic synthesis in high-H₂ natural waters. Deep Carbon Observatory Early Career Scientist Workshop, Ponta Delgada, Azores.
- 2014 Pathways for abiotic organic synthesis at submarine hydrothermal fields. Massachusetts Institute of Technology student seminar, Cambridge, MA.
- 2013 Oases for life: Prebiotic chemistry in the deep sea. Bunker Hill Community College, Boston, MA.
- 2013 Immensity in Minuteness: Large-scale oil paintings inspired by exploring hydrothermal vents. Spring Annual Meeting of the Board of Trustees and Corporation, WHOI, Woods Hole, MA.
- 2011 Geochemical precursors of life at deep-sea hydrothermal vents: Earth and beyond. Universidad de los Andes, Bogotá, Colombia.
- 2011 Using mass dependent sulfur isotope fractionations to understand magmatic degassing at back-arcs. WHOI Biogeochemistry seminar, Woods Hole, MA.
- 2011 Recent discoveries of hydrothermal venting at the World's Deepest Spreading center. Ocean Science Journalism Fellowship meeting, WHOI, Woods Hole, MA.

FIELD EXPEDITIONS (see links for further expedition details)

- 2016 Leader of field geology, borehole fluid and gas sampling expedition at gold mine, Preissac, QC, Canada
- 2016 Leader of field geology, borehole fluid sampling expedition at nickel-copper mine, Sudbury, ON, Canada
- 2015 Leader of field geology, borehole fluid and gas sampling expedition at copper-zinc mine, Timmins, ON, Canada
- 2015 Leader of rock core and fluid sampling campaign at Grimsel Test Site, Switzerland
- 2014 Borehole fluid and gas sampling expedition at nickel-copper mine, Sudbury, ON, Canada

- 2013 R/V Falkor/HROV Nereus expedition ([FK008](#)) to Mid-Cayman Rise
- 2012 R/V Atlantis/ROV Jason II expedition ([AT18-16](#)) to Mid-Cayman Rise
- 2011 R/V Okeanos Explorer/ROV Little Hercules expedition to Mid-Cayman Rise ([link](#); via tele-presence)
- 2009 R/V Cape Hatteras/HROV Nereus expedition ([link](#)) to Mid-Cayman Rise
- 2007 R/V Atlantis/DSV Alvin expedition (AT15-27) to 9°50'N East Pacific Rise (starboard observer on Alvin dive #4380)
- 2006 R/V Atlantis/DSV Alvin expedition (AT15-13) to 9°50'N East Pacific Rise (starboard observer on Alvin dive #4279)
- 2006 R/V Atlantis/DSV Alvin expedition (AT15-06) to 9°50'N East Pacific Rise

OUTREACH

Blogs and Publications

McDermott J.M., [Searching for Life on the Seafloor](#), WHOI Oceanus Magazine, 2011.

McDermott J.M., [Following the Breadcrumb Trail](#), NOAA Ocean Exploration Program, Okeanos Explorer, Mid-Cayman Rise Expedition 2011. August 14, 2011.

Public seminars

- 2015 The hydrothermal solar system. University of Toronto, to earth science teachers, Toronto, ON, Canada. With C. Glein.
- 2014 Exploring deep-sea hydrothermal vents in *Alvin*. Woods Hole Oceanographic Institution Ocean Science Exhibit Center, to museum visitors, Woods Hole, MA.
- 2014 Organic chemistry, hydrothermal vents, and art. New Bedford Art Museum, to museum visitors, New Bedford, MA.
- 2013 Immensity in Minuteness: Large-scale oil paintings inspired by exploring hydrothermal vents. Boston Museum of Science, to museum visitors, Boston, MA.
- 2012 The art and science of organic chemistry at hydrothermal vents. University of Massachusetts Dartmouth, College of Performing and Visual Arts, to art students, New Bedford, MA.
- 2012 Exploring deep-sea hydrothermal vents with submarines. Presentation and hands-on layered ocean activity at the Linden School for a 6th grade classroom, Malden, MA.
- 2011 Erupting volcanoes on the seafloor. Presentation, hydrothermal plume demonstration, chemical precipitation activity for three 7th and 8th grade classrooms, Madawaska, ME.

Public and Grade 6-12 Activities

- 2013 – 2014 [Synergy 'Ocean Stories'](#) art exhibit contributor, New Bedford Art Museum, New Bedford MA; Boston Museum of Science, Boston MA.
- 2011 – 2013 Women in Science and Engineering Day "Ride the Wave: Explore the Oceans" presenter, developed workshop for female middle school students, Bay View Academy, Riverside RI
- 2010 – 2014 Public Middle School Science Fair Judge, Falmouth MA

Media Features

WHOI press release, [Making Organic Molecules at Hydrothermal Vents in the Absence of Life](#), 2015.
IFLScience, [Scientists Investigate a Popular Theory on the Origin of Life](#), 2014.

Cape and Islands NPR “Living Lab” live radio interview, [Charting a Creative Course in Science](#), 2014.
Cape Cod Online, [Two Worlds Merge Into One](#), 2013.
Oceans at MIT, [Sparks Fly as Art and Science Collide in “Ocean Stories”: A Review](#), 2013.
Fiddlehead Focus, [McDermott presents to Madawaska Middle School students on oceanography](#), 2012.
Scientific American, [One Scientist’s Journey to the Ocean Floor](#), 2012.
NBC News, [Scientists set for first expedition to Earth's deepest sea vent](#), 2012.
UNH EOS News, [Scientists Put Climate Change Research in Kids' Hands](#), 2009.
The New Hampshire, [Cruising for research with UNH scientists](#), 2007.

PROFESSIONAL AFFILIATIONS

2015 – present Deep Carbon Observatory
2014 – present Geochemical Society
2008 – present Earth Science Women’s Network
2008 – present InterRidge
2006 – present American Geophysical Union

REVIEWER ACTIVITIES

Scientific Reports, Chemical Geology, Water Research, Journal of Volcanology and Geothermal Research, Limnology and Oceanography: Methods

SYNERGISTIC ACTIVITIES

2016 (Forthcoming) Convener of Goldschmidt Conference Session “Geothermal of the Future: Geochemistry in Supercritical Conditions and New Techniques to Reveal Old Fluid Histories,” Yokohama, Japan.
2015 Convener of American Geophysical Union Fall Meeting Session “Follow the fluids: Integrating multi-disciplinary observations of deep-sea hydrothermal systems,” San Francisco, CA.
2015 MAGNET trainee workshop, Ottawa and Chalk River, ON, Canada
2011 – 2012 MIT/WHOI Joint Program Student Representative