

Curriculum Vitae — James McManus

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PROFESSIONAL PREPARATION

Stockton State College	New Jersey	Chemistry	BS 1986
Oregon State University	Oregon	Oceanography	PhD 1992
University of Southern Calif.	California	Oceanography (Postdoc)	1992-1994
Oregon State University	Oregon	Oceanography (Postdoc)	1994-1996

APPOINTMENTS

- Vice President for S&A and Senior Research Scientist: August 2016 – present.
- Research Faculty, Colby College September 2016 – present.
- Courtesy Faculty: Oregon State University, August 2016 – August 2019.
- Professor and Chair: University of Akron, August 2013 – July 2016.
- Professor: Oregon State University, 2007 – 2016 (on leave 2013 – 2016).
- Associate Program Officer, National Science Foundation July 2008 – June 2009.
- Associate Professor: Oregon State University, 2004 - 2007.
- Assistant Professor: Oregon State University, 2002 - 2004.
- Assistant Professor: Univ. of Minnesota/Large Lakes Observatory, 1998-2002.
- (Courtesy) Assistant Professor: Oregon State University, 1998 - 2002.
- Assistant Professor (Sr. Res.): Oregon State University 1996 -1998.

OTHER APPOINTMENTS AND AWARDS

- Fellow of the Geological Society of America (elected 2016)
- Organizing Committee *2012 Ocean Sciences Meeting*
- Associate Editor *Geochimica et Cosmochimica Acta* (2010 – 2012)
- Associate Editor *Geochimica et Cosmochimica Acta* (2006 – 2008)
- Member-at-Large *American Society of Limnology and Oceanography* (now the *Association for the Sciences of Limnology and Oceanography*) (2006 – 2009)
- The Patullo Award for Excellence in Teaching (2007) [College of Ocean and Atmospheric Sciences, Oregon State University]

PUBLICATIONS

- Little, SH., Archer, C., **McManus, J.**, Najorka, J., Wegorsewski, AV., Vance, D. (2020)
Towards balancing the oceanic Ni budget, *Earth and Planetary Sci. Letts.* 547, 116461
- McManus, J.**, Wheat, CG., Bach, W. (2019) Carbon cycling in low temperature
hydrothermal systems: The Dorado Outcrop, *Geochimica et Cosmochimica Acta*, 264,
1-12.

- Wheat, CG., Hartwell., AM., **McManus, J.**, Fisher, AT., Orcutt, BN., Schlicht, LEM., Niedenzu, S., Bach, W. (2019) Geology and fluid discharge at Dorado Outcrop, a low temperature ridge-flank hydrothermal system, *Geochemistry, Geophysics, Geosystems*, 20(1), 487-504.
- Berelson, WM., **McManus, J.**, Severmann, S., Rollins, N. (2019) Benthic fluxes from hypoxia-influenced Gulf of Mexico sediments: Impact on bottom water acidification, *Marine Chemistry*, 209, 94-106.
- Chong, LS., Berelson, WM., **McManus, J.**, Rollins, NE. (2018) Meter-scale early diagenesis of organic matter buried within deep-sea sediments beneath the Amazon river plume, *Frontiers in Marine Science*, 5, 250.
- Zinke, LA., Reese, BK., **McManus, J.**, Wheat, CG., Orcutt, BN., Amend, JP. (2018) Sediment microbial communities influenced by cool hydrothermal fluid migration *Frontiers in microbiology*, 9, 1249.
- Murray, NA., **McManus, J.**, Palmer, MR., Haley, B., Manners, H. (2018) Diagenesis in tephra-rich sediments from the Lesser Antilles Volcanic Arc: Pore fluid constraints, *Geochimica et Cosmochimica Acta*, 228, 119-135.
- Beam, J.P., Scott, J.J., McAllister, S.M., Chan, C.S., **McManus, J.**, Meysman, F.J.R., Emerson, D. (2018) Biological rejuvenation of iron oxides in bioturbated marine sediments. *ISME Journal*, 12(5) 1389-1394, 10.1038/s41396-017-0032-6.
- Haley, B.A., Du, Jianghui, Abbott, A.N., **McManus, J.** (2017) The impact of benthic processes on rare earth element and neodymium isotope distributions in the oceans. *Front. Mar. Sci.* doi: 10.3389/fmars.2017.00426 (in press)
- Wheat, C.G., Fisher, A.T., **McManus, J.**, Hulme, S.M., Orcutt, B.N. (2017) Cool seafloor hydrothermal springs reveal global geochemical fluxes. *Earth and Planetary Science Letters*, 476, 179-188.
- Yang, J., Torres, M., **McManus, J.**, Algeo, T.J., Hakala, J.A., Verba, C. (2017) Controls on rare earth element distributions in ancient organic-rich sedimentary sequences: Role of post-depositional diagenesis of phosphorus. *Chemical Geology*, 466, 533-544.
- Little, S.H., Vance, D., **McManus, J.**, Severmann, S., Lyons, T.W. (2017) Copper isotope signatures in modern marine sediments (2017) *Geochimica et Cosmochimica Acta* 212, 253-273.
- Baronas, J., Hammond, D.E., **McManus, J.**, Wheat, C.G., Siebert, C. (2017) Germanium-silicon fractionation in a river-influenced continental margin: The Northern Gulf of Mexico. *Geochimica et Cosmochimica Acta* 203, 265-283.
- Abbott, A.N., Haley, B.A., **McManus, J.** (2016) The impact of sedimentary coatings on the diagenetic Nd flux. *Earth and Planetary Sci. Letters*, 449, 217-277.
- Baronas, J., Hammond, D.E., Berelson, W.M., **McManus, J.**, Severmann, S. (2016) Germanium-silicon fractionation in a river-influenced continental margin: The Northern Gulf of Mexico. *Geochimica et Cosmochimica Acta* 178, 124-142.
- Little, S.H., Vance, D., **McManus, J.**, Severmann, S. (2016) Key role of continental margin sediments in the oceanic mass balance of Zn and Zn isotopes. *Geology*, 44, 207-210.
- Coussens, M.F. and many others (2016) Synthesis: stratigraphy and age control for IODP Sites U1394, U1395, U1396 offshore Montserrat in the Lesser Antilles. *In: Le*

- Friant, A., Ishizuka, O., Stroncik, N.A., and the Expedition 340 Scientists
Proceedings of the Integrated Ocean Drilling Program, 340, 1-19.
doi:10.2204/iodp.proc.340.204.2016.
- Murray, N.A., Muratli, J.M., Hartwell, A.M., Manners, H., Megowan, M.R., Goñi, M., Palmer, M., and **McManus, J.** (2016) Data report: dissolved minor element compositions, sediment major and minor element concentrations, and reactive iron and manganese data from the Lesser Antilles volcanic arc region, IODP Expedition 340 Sites U1394, U1395, U1396, U1399, and U1400. In Le Friant, A., Ishizuka, O., Stroncik, N.A., and the Expedition 340 Scientists, *Proceedings of the Integrated Ocean Drilling Program*, 340: Tokyo (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.340.207.2016
- Abbott, A.N., Haley, B.A., **McManus, J.** (2015) Bottoms up: Sedimentary control of the deep North Pacific ocean's ϵ_{Nd} signature. *Geology*, 43 (11): 1035-1038.
- McManus, J.**, Severmann, S., Cohen, A.S., McKay, J.L., Hartwell, A.M., Montanye, B.R., Brucker, R.P., Wheatcroft, R., (2015) The sedimentary response to a rapid change in lake level in Lake Tanganyika, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 440: 647658.
- Muratli, J.M., Megowan, M.R., **McManus, J.**, (2015) Data Report: Sediment Major Element, Minor Element and Reactive Iron and Manganese Data from Sites C0014 and C0017, *ODP Scientific Results* volume for Leg 331,
http://publications.iodp.org/proceedings/331/ERR/CHAPTERS/331_202.PDF.
- Torres, M.E., Cox, T., Hong, W-L., **McManus, J.**, Sample, J.C., Destriigneville, C., Gan, H.M., Gan, H.Y., Moreau, J.W. (2015) Crustal fluids and ash alteration impact on the biosphere of Shikoku Basin sediments, Nankai Trough, Japan, *Geobiology*, 13: 562-580.
- Little, S.H., Vance D., Lyons, T.W., **McManus, J.**, (2015) Controls on trace metal authigenic enrichment in reducing sediments: Insights from modern hydrographic settings, *American Journal of Science*, 315, 77-119.
- Jones, P., Maiti, K., **McManus, J.** (2015) Lead-210 and Polonium-210 disequilibria in the northern Gulf of Mexico hypoxic zone, *Marine Chemistry*, 169, 1-15.
- Abbott, A.N., Haley, B.A., **McManus, J.**, Reimers, C. (2015) The sedimentary flux of dissolved rare earth elements to the ocean, *Geochimica et Cosmochimica Acta*, 154, 186-200.
- Scholz, F., Severmann, S., **McManus, J.**, Noffke, A., Lomnitz, U., Hensen, C. (2014) On the isotope composition of reactive iron in marine sediments: Redox shuttle versus early diagenesis, *Chemical Geology*, 389, 48-59.
- Deutsch, C., Berelson, W., Thunell, R., Weber, T., Tems, C., **McManus, J.**, Crusius, J., Ito, T., Baumgartner, T., Ferreira, V., Mey, J., van Geen, A. (2014) Centennial changes in North Pacific anoxia linked to tropical trade winds, *Science*, 345, 665-668
- Chase, Z., **McManus, J.**, Mix, A., Muratli, J. (2014) Biogenic flux along the Chilean margin over the past 30,000 years, *Quaternary Science Reviews*, 99, 135-145.
- Scholz, F., Severmann, S., **McManus, J.**, Hensen, C. (2014) Beyond the Black Sea paradigm: The sedimentary fingerprint of an open-marine iron shuttle, *Geochim. Cosmochim. Acta*, 127:368-380.

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- Hulme, S.M., C.G. Wheat, R.M. Coggon, and **J. McManus.** (2008) Data Report: Trace element, Sr isotope, and Ge/Si composition of fluids and sediments in Ridge-Flank LowTemperature Hydrothermal Environments. *ODP Scientific Results* volume for Leg 301 <http://publications.iodp.org/proceedings/301/301toc.htm#Expedition%20Reports>
- McManus, J.**, W. M. Berelson, S. Severmann, R. Poulson, D. E. Hammond, C. Holm, and G. P. Klinkhammer. (2006) Molybdenum and uranium geochemistry in continental margin sediments: Paleoproxy potential. *Geochim. Cosmochim. Acta.* 70: 4643-4662.
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