

CURRICULUM VITAE

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BSc (1986) (*highest honors*), Double major: Chemistry and Geology, Carleton University

MSc (1988) Geology, McMaster University

MPhil (1992) Geological Sciences, Columbia University, Lamont-Doherty Earth Observatory

PhD (1994) Geological Sciences, Columbia University, Lamont-Doherty Earth Observatory

Dissertation title: *The application of rhenium-osmium isotope systematics to crustal and mantle processes*, Advisor: Alan Zindler

PROFESSIONAL EXPERIENCE:

1994-1995: Post-doctoral research scientist, Columbia University. Helium isotopes in deep-sea sediments. Advisors: Robert Anderson and Peter Schlosser

1995-1996: Post-doctoral research associate, Yale University. Osmium isotopes in coastal and deep-sea sediments. Advisor: Karl Turekian

1996-2002: Assistant Professor, Department of Geology, Tulane University.

2002-2006: Associate Professor, Department of Earth and Environmental Sciences, Tulane University

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2011- 2014: Assistant Department Head, Department of Geology & Geophysics, Texas A&M

2012- : Holder of the Robert R. Berg Professorship of Geology and Geophysics, Texas A&M

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CITATION RECORD**Google Scholar citations:**

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JOURNAL ARTICLES (*denotes Marcantonio graduate student):

- [1] Chakrabarti, C. L., Wu, S., Marcantonio, F., and Headrick, K. (1986) Chemical reactions in the atomization of molybdenum in graphite furnace atomic absorption spectrometry, *Fresenius Zeitschrift Analytischer Chemie* 323, 730-736.
- [2] Wu, S., Chakrabarti, C. L., Marcantonio, F., and Headrick, K. (1986) Mechanisms of atomization of molybdenum in graphite furnace atomic absorption spectrometry, *Spectrochimica Acta* 41B, 651-667.
- [3] Marcantonio, F., Dickin, A. P., McNutt, R. H., and Heaman, L. M. (1988) A 1,800-million-year-old Proterozoic gneiss terrane in Islay with implications for the crustal structure and evolution of Britain, *Nature* 335, 62-64.
- [4] Marcantonio, F., McNutt, R. H., Dickin, A. P., and Heaman, L. M. (1990) Isotopic evidence for the crustal evolution of the Frontenac Arch in the Grenville Province of Ontario, Canada, *Chemical Geology* 83, 297-314.
- [5] Corriveau, L., Heaman, L. M., Marcantonio, F., and van Breemen, O. (1990) 1.1 Ga K-rich alkaline plutonism in the SW Grenville Province, *Contributions to Mineralogy and Petrology* 105, 473-485.
- [6] England, J., Reisberg, L., Marcantonio, F., and Zindler, A. (1992) Comparison of one-and two-color ionization schemes for the analysis of osmium and rhenium isotopic ratios by sputter-induced resonance ionization mass spectrometry, *Analytical Chemistry* 64, 2623-2627.
- [7] England, J., Zindler, A., Reisberg, L. C., Rubenstone, J. L., Salters, V., Marcantonio, F., Bourdon, B., Brueckner, H., Turner, P. J., Weaver, S., and Read, P. (1992) The Lamont-Doherty Geological Observatory Isolab 54 isotope ratio mass spectrometer, *International Journal of Mass Spectrometry and Ion Processes* 121, 201-240.
- [8] Marcantonio, F., Zindler, A., Reisberg, L., and Mathez, E. A. (1993) Re-Os isotopic systematics in chromitites from the Stillwater Complex, *Geochimica et Cosmochimica Acta* 57, 4029-4037.
- [9] Reisberg, L., Zindler, A., Marcantonio, F., White, W., Wyman, D., and Weaver, B. (1993) Os isotope systematics in ocean island basalts, *Earth Planetary Science Letters* 120, 149-167.
- [10] Marcantonio, F., Reisberg, L., Zindler, A., Wyman, D. A., and Hulbert, L. (1994) An isotopic study of the Ni-Cu-PGE-rich Wellgreen intrusion of the Wrangellia Terrane: evidence for hydrothermal mobilization of Re and Os, *Geochimica et Cosmochimica Acta* 58, 1007-1018.

- [11] Marcantonio, F., Kumar, N., Stute, M., Anderson, R. F., Seidl, M. A., Schlosser, P., and Mix, A. (1995) A comparative study of accumulation rates determined by He and Th isotope analysis of marine sediments, *Earth and Planetary Science Letters* 133, 549-555.
- [12] Marcantonio, F., Zindler, A., Elliott, T., and Staudigel, H. (1995) Os isotope systematics of La Palma, Canary Islands: evidence for recycled crust in the mantle source of HIMU ocean islands, *Earth and Planetary Science Letters* 133, 397-410.
- [13] Marcantonio, F., Anderson, R. F., Stute, M., Kumar, N., Schlosser, P., and Mix, A. (1996) Extraterrestrial ^3He as a tracer of marine sediment transport and accumulation, *Nature* 383, 705-707.
- [14] Williams, G., Marcantonio, F., and Turekian K. K. (1997) The behavior of natural and anthropogenic osmium in Long Island Sound, an urban estuary in the eastern US, *Earth and Planetary Science Letters* 148, 341-347.
- [15] Marcantonio, F., Flowers, G., Thien, L., and Ellgaard, E. (1998) Pb isotopes in tree rings: chronology of pollution in Bayou Trepagnier, LA, *Environmental Science and Technology* 32, 2371-2376.
- [16] Marcantonio, F., Higgins, S.*, Anderson, R. F., Stute, M., Schlosser, P., and Rasbury, E. T. (1998) Terrigenous helium in deep-sea sediments, *Geochimica et Cosmochimica Acta* 62, 1535-1543.
- [17] Marcantonio, F., Turekian, K. K., Higgins, S.*, Anderson, R. F., Stute, M., Schlosser, P. (1999) The accretion rate of extraterrestrial ^3He based on ocean ^{230}Th flux and the relation to Os isotope variation over the past 200,000 years in an Indian Ocean core, *Earth and Planetary Science Letters* 170, 157-168.
- [18] Marcantonio, F., Flowers, G. C., and Templin, N. (2000) Lead contamination in a wetland watershed: isotopes as fingerprints of pollution, *Environmental Geology* 39, 1070-1076.
- [19] Marcantonio, F., Anderson, R. F., Higgins, S.*, Stute, M., Schlosser, P. (2001) Sediment focusing in the central Equatorial Pacific Ocean, *Paleoceanography*, 16, 260-267.
- [20] Marcantonio, F., Anderson, R. F., Higgins, S.*, Fleisher, M. Q., Stute, M., Schlosser, P. (2001) Abrupt intensification of the SW Indian Ocean monsoon during the last deglaciation: constraints from Th, Pa, and He isotopes, *Earth and Planetary Science Letters*, 184, 504-514.
- [21] Marcantonio, F., Zimmerman, A., Xu, Y.*, Canuel, E. (2002) A stable Pb isotope record of mid-Atlantic US atmospheric Pb emissions in Chesapeake Bay sediments, *Marine Chemistry*, 77, 123-132.
- [22] Higgins, S. M.*, Anderson, R. F., Marcantonio, F., Stute, M., and Schlosser, P. (2002) Sediment focusing creates 100-ka cycles in interplanetary dust accumulation on the Ontong Java Plateau, *Earth and Planetary Science Letters*, 203, 383-397.
- [23] Xu, Y.* and Marcantonio F. (2004) Speciation of strontium in particulates and sediments from the Mississippi River mixing zone, *Geochimica et Cosmochimica Acta*, 68, 2649-2657.

- [24] Pourmand, A.*, Marcantonio, F. and Schulz, H. (2004) Variations in productivity and eolian fluxes in the northeastern Arabian Sea over the past 110 ka, *Earth and Planetary Science Letters*, 221, 39-54.
- [25] Pourmand, A.*, Marcantonio, F., Bianchi, T., Canuel, E., Waterson, E. and Shulz, H. (2005) Radionuclide and biomarker proxies of past ocean circulation and productivity in the Arabian Sea, *Geophysical Research Letters*, 32, doi: 10.029/2005GL022612.
- [26] Francois, R., Frank, M., Rutgers van der Loeff, M., Bacon, M. P., Geibert, W., Kienast, S., Anderson, R. F., Bradtmiller, L., Chase, Z., Henderson, G., Marcantonio, F., and Allen, S. E. (2007) A reply to “Do geochemical estimates of sediment focusing pass the sediment test in the equatorial Pacific?” *Paleoceanography*, 22, PA1216, doi:10.1029/2005PA001235.
- [27] Xu, Y.* and Marcantonio, F. (2007) Strontium isotope variations in the lower Mississippi River and its estuarine mixing zone, *Marine Chemistry*, 105, 118-128, doi:10.1016/j.marchem.2007.01.004.
- [28] McGee, D.*, Marcantonio, F., and Lynch-Stieglitz, J. (2007) Deglacial changes in dust flux in the eastern equatorial Pacific, *Earth and Planetary Science Letters*, 257, 215-230, doi: 10.1016/j.epsl.2007.02.033.
- [29] Grzymko, T.*, Marcantonio, F., McKee, B. A., and Stewart, C. M. (2007) Temporal variability of uranium concentrations and $^{234}\text{U}/^{238}\text{U}$ activity ratios in the Mississippi River and its tributaries, *Chemical Geology*, 243, 344-356, doi:10.1016/j.chemgeo.2007.05.024.
- [30] Pourmand, A.*, Marcantonio, F., Bianchi, T. S., Canuel, E. A., and Waterson, E. J. (2007), A 28-ka history of sea surface temperature, primary productivity and planktonic community variability in the western Arabian Sea, *Paleoceanography*, 22, PA4208, doi:10.1029/2007PA001502.
- [31] Marcantonio, F., Thomas, D., Woodard, S.*, McGee, D.*, and Winckler, G. (2009) Extraterrestrial ^3He in Paleocene sediments from Shatsky Rise: Constraints on sedimentation rate variability, *Earth and Planetary Science Letters*, 287, doi:10.1016/j.epsl.2009.07.029.
- [32] McGee, D.*, Marcantonio, F., McManus, J., Winckler, G. (2010) The response of excess ^{230}Th and extraterrestrial ^3He to sediment redistribution at the Blake Ridge, western North Atlantic, *Earth and Planetary Science Letters*, 299, 138-149, doi:10.1016/j.epsl.2010.08.029.
- [33] Singh, A.*, Marcantonio, F., Lyle, M. (2011) Sediment focusing in the Panama Basin, Eastern Equatorial Pacific Ocean, *Earth and Planetary Science Letters*, 309, 33-44, doi:10.1016/j.epsl.2011.06.020.
- [34] Miller, C. A., Peucker-Ehrenbrink, B., Walker, B. D., and Marcantonio, F. (2011) Re-assessing the surface cycling of molybdenum and rhenium, *Geochimica et Cosmochimica Acta*, 75, 7146-7179.
- [35] Xie, R.C.* and Marcantonio F. (2012) Deglacial Dust Provenance Changes in the Eastern Equatorial Pacific and Implications for ITCZ Movement, *Earth and Planetary Science Letters*, 317-318, 386-395.

- [36] Woodard, S. C., Thomas, D. J., and Marcantonio, F. (2012) Thorium-derived dust fluxes to the equatorial Pacific Ocean, 58 Ma, *Geochimica et Cosmochimica Acta*, 87, 194-209.
- [37] Piela, C., Lyle, M., Marcantonio, F., Baldauf, J., and Olivarez Lyle, A. (2012) Biogenic Sedimentation in the Equatorial Pacific: Carbon Cycling and Paleoproduction, 12-24 Ma, *Paleoceanography*, 27, PA2204, 1-18.
- [38] Schmidt, M, Weinlein, W., Marcantonio, F., and Lynch-Stieglitz, J. (2012) Solar forcing of the global tropical hydrologic cycle during the early Holocene, *Paleoceanography*, 27, PA3204, 1-12.
- [39] Louchouart, P., Kuo, L-J., Brandenberger, J., Marcantonio, F., Garland, C. and Gill G. (2012) Pyrogenic inputs of anthropogenic Pb and Hg to sediments of the Hood Canal, Washington, in the 20th century: Evidence from stable Pb isotopes and PAH signatures, *Environmental Science and Technology*, 46, 5772-5781.
- [40] Xie, R.*, Marcantonio, F., Schmidt, M. (2012) Response of Antarctic Intermediate Water to weaker Atlantic Meridional Overturning Circulation during the last deglaciation, *Paleoceanography*, 27, PA3221, 1-12.
- [41] Singh, A.K*, Marcantonio, F., Lyle, M, (2013) Dissolved ²³⁰Th-²³²Th Dynamics in the Eastern Tropical Pacific Ocean, *Earth and Planetary Science Letters*, 362, 294-304.
- [42] Hannah, A. J. M., Allison, M. A., Bianchi, T. S., Marcantonio, F., and Goff, J. (2014) Late Holocene Sedimentation in a High Arctic Coastal Setting: Simpson Lagoon and Colville Delta, Alaska, *Estuarine and Coastal Shelf Science*, 74, 11-24.
- [43] Xie, R. C.*, Marcantonio F., and Schmidt, M. W. (2014) Reconstruction of intermediate water circulation in the tropical North Atlantic during the last deglaciation, *Geochimica et Cosmochimica Acta*, DOI: 10.1016/j.gca.2014.05.041.
- [44] Lyle, M., Marcantonio, F., Moore, W. S., Murray, R. W., Huh, C.-A., Finney, B. P., Murray, D. W., and Mix, A. C. (2014) Sediment size fractionation and focusing in the Equatorial Pacific: effect on ²³⁰Th normalization and paleoflux measurements, *Paleoceanography*, DOI: 10.1002/2014PA002616.
- [45] Marcantonio, F., Lyle, M., and Ibrahim, R. (2014) Particle sorting during sediment redistribution processes and the effect on ²³⁰Th-normalized mass accumulation rates, *Geophysical Research Letters*, DOI: 10.1002/2014GL060477.
- [46] Lopez, G. I.*, Marcantonio, F., Lyle, M., and Lynch-Stieglitz, J. (2015) Dissolved and Particulate ²³⁰Th-²³²Th in the Central Equatorial Pacific Ocean: Evidence for Far-Field Transport of the East Pacific Rise Hydrothermal Plume, *Earth and Planetary Science Letters*, 431, 87-95.
- [47] Hertzberg, J. E., Schmidt, M. W., Bianchi, T. S., Smith, R. K., Shields, M. R., Marcantonio, F. (2016) Comparison of eastern tropical Pacific TEX₈₆ and *Globigerinoides ruber* Mg/Ca derived sea surface temperatures: Insights from the Holocene and Last Glacial Maximum, *Earth and Planetary Science Letters* 434, 320-332.

- [48] Costa, K. M., McManus, J. F., Anderson, R. F., Ren, H., Sigman, D. M., Winckler, G., Fleisher, M., Marcantonio, F., and Ravelo, A. C. (2016) No iron fertilization in the Equatorial Pacific during the Last Ice Age, *Nature* 529, 519-522.
- [49] Berg, M. D., Marcantonio, F., Allison, M. A., McAlister, J., Wilcox, B. P., and Fox, W. E. (2016) Contrasting watershed-scale trends in runoff and sediment yield complicate rangeland water resources planning, *Hydrology and Earth System Sciences*, doi:10.5194/hess-2015-540.
- [50] Winkler, G., Anderson, R. A., Jaccard, S., and Marcantonio, F. (2016) Ocean dynamics, not dust, control equatorial Pacific productivity over the past 500 kyr, *Proceedings of the National Academy of Sciences*, 113, 6119-6124.
- [51] Kirman, Z. D.*, Sericano, J. L., Wade, T. L., Bianchi, T. S., Marcantonio, F., and Kolker, A. S. (2016) Composition and depth distribution of hydrocarbons in Barataria Bay marsh sediments after the Deepwater Horizon oil spill, *Environmental Pollution*, 214, 101-113.
- [52] Reimi, M.* and Marcantonio, F. (2016) Constraints on the Magnitude of the Deglacial Migration of the ITCZ in the Central Equatorial Pacific Ocean, *Earth and Planetary Science Letters*, 453, 1-8.
- [53] Zeng, Z., Tice, M. M., Kelly, C.*, Marcantonio, F., Xu, G., and Maulana, I. (2016) Iron Fertilization of Primary Productivity by Volcanic Ash in The Late Cretaceous (Cenomanian) Western Interior Seaway, submitted to *Geology*.
- [54] Roark, A., Flake, R., Grossman, E. L., Olszewski, T., Lebold, J., Thomas, D. J., Marcantonio, F., Miller, B. V., Raymond, A., Yancey, T. (2017) Brachiopod geochemical records from across the Carboniferous seas of North America: Evidence for salinity gradients, stratification, and circulation patters, *Palaeogeography, Palaeoclimatology, Palaeoecology*, <https://doi.org/10.1016/j.palaeo.2017.06.009>.
- [55] Loveley, M. R.*, Marcantonio, F., Wisler, M. M.*, Hertzberg, J. E., Schmidt, M. W., and Lyle, M. (2017) Millennial-scale iron fertilization of the eastern equatorial Pacific over the past 100,000 years, *Nature Geoscience*, <https://doi.org/10.1038/NGEO3024>.
- [56] Loveley, M. R.*, Marcantonio, F., Lyle, M., Ibrahim, R.*, Hertzberg, J. E., Schmidt, M. W. (2017) Sediment redistribution and grainsize effects on ²³⁰Th-normalized mass accumulation rates and focusing factors in the Panama Basin, *Earth and Planetary Science Letters*, 480, 107-120. <https://doi.org/10.1016/j.epsl.2017.09.046>.

ABSTRACTS (*Marcantonio graduate students):

- Marcantonio, F., Dickin, A. P., Heaman, L. M., and McNutt, R. H. (1988) The age and origin of granites from the Westport-Gananoque area, Grenville province of Ontario, *Geol. Assoc. Canada Abs. Progr.* 13, 79.
- Marcantonio, F., Dickin, A. P., McNutt, R. H., and Heaman, L. M. (1988) A Proterozoic crustal terrain recognized in Scotland, *Geol. Assoc. Canada Abs. Progr.* 13, 78.
- Dickin, A. P., McNutt, R. H., and Marcantonio, F. (1988) Proterozoic crustal accretion on the southeastern Laurentian Margin: Nd model age evidence from the Grenville Province in Ontario, Canada, *Geol. Soc. Am.* 20, Mill 183.

- Dickin, A. P., McNutt, R. H., and Marcantonio, F. (1988) Archean, Penokean (1.9 Ga), and Grenville (1.2 Ga) crustal extraction events recorded in the Grenville Province of Ontario, *Chemical Geology* 70, 67.
- Zindler, A., England, J., Hamelin, B., Rubenstone, J., Weaver, S., Reisberg, L., Bard, E., Li, W.-X., and Marcantonio, F. (1989) Re-Os and U-Th investigations with the Isolab 54 mass spectrometer, *Geol. Soc. Am.* 21, 172.
- Dickin, A. P., McNutt, R. H., Marcantonio, F., and Martignole, J. (1989) The SW Grenville Province as a reworked Superior Penokean margin, *Geol. Assoc. Canada Abs. Progr.* 14, 72.
- Reisberg, L., Marcantonio, F., England, J., Zindler, A., Weaver, S., and Rubenstone, J. L. (1990) Measurement of osmium isotopic compositions by laser resonance ionization of sputtered atoms, International Conference on Cosmochemistry and Geochronology, *Geol. Soc. Austr.* 27, 82.
- England, J., Zindler, A., Reisberg, L., Weaver, S., Rubenstone, J., Bourdon, B., Marcantonio, F., and Salters, V. (1990) Development of a high-abundance sensitivity mass spectrometer for TIMS, SIMS, and SIRIMS, International Conference on Cosmochemistry and Geochronology, *Geol. Soc. Austr.* 27, 31.
- Rubenstone, J., Zindler, A., Bourdon, B., England, J., Reisberg, L., Hamelin, B., Salters, V., Weaver, S., Li, W.-X., Marcantonio, F., and Wolff, J. (1990) Dynamics and evolution of volcanic systems using Th and U isotopes measured by SIMS, International Conference on Cosmochemistry and Geochronology, *Geol. Soc. Austr.* 27, 85.
- Zindler, A., Rubenstone, J., England, J., Bourdon, B., Reisberg, L., Hamelin, B., Salters, V., Weaver, S., Li, W.-X., and Marcantonio, F. (1990) SIMS measurements of $^{230}\text{Th}/^{232}\text{Th}$ ratios in rocks, International Conference on Cosmochemistry and Geochronology, *Geol. Soc. Austr.* 27, 116.
- Marcantonio, F., Reisberg, L., Zindler, A., Hulbert, L. J., England, J., and Wyman, D. A. (1991) Re-Os isotope evidence for the genesis of the Wellgreen Ni-Cu-PGE deposit, *Am. Geophys. Union Trans.* 72, 530.
- Reisberg, L., Zindler, A., Marcantonio, F., Sachi-Kocher, A., Wyman, D., Salters, V., White, W., and Weaver, B. (1992) Os isotopic variations among ocean island basalts, *Am. Geophys. Union Trans.* 73, 375.
- Marcantonio, F., Reisberg, L., Zindler, A., Wyman, D. A., and Mathez, E. A. (1992) Re-Os isotope evidence for the origin of chromitites in layered intrusions: the Stillwater revisited, *Am. Geophys. Union Trans.* 73, 344.
- Marcantonio, F., Zindler, A., and Elliott, T. (1993) Os isotope systematics of an ocean island: a case study at La Palma, Canary Islands, *Am. Geophys. Union Trans.* 74, 633.
- Oxburgh, R., Marcantonio, F., and Zindler, A. (1993) Which way to Os?: Are osmium isotopes homogeneous in the modern oceans, *Am. Geophys. Union Trans.* 74, 339.
- Oxburgh, R., Colodner, D., Marcantonio, F., and Zindler, A. (1993) Pleistocene variations in the $^{187}\text{Os}/^{186}\text{Os}$ composition of carbonate sediments from the East Pacific Rise, *Am. Geophys. Union Trans.* 74, 176.
- Reisberg, L., Zindler, A., Marcantonio, F., and White, W. (1993) Radiogenic $^{187}\text{Os}/^{186}\text{Os}$ ratios in ocean island basalts with low Os concentrations, *Terra Abstracts* 5, 549-550.
- Marcantonio, F., Zindler, A., Elliott, T., and Staudigel, H. (1994) Os isotopes and recycled oceanic crust, International Conference on Cosmochemistry and Geochronology, *U.S. Geol. Surv. Circ.* 1107, 202.

- Oxburgh, R., Marcantonio, F., and Zindler A. (1994) Ocean chemistry of osmium as deduced from marine sediments, International Conference on Cosmochemistry and Geochronology, *U.S. Geol. Surv. Circ.* 1107, 239.
- Marcantonio, F., Stute, M., Kumar, N., Anderson, R. F., Seidl, M. A., Schlosser, P., Mix. A. (1995) Constant extraterrestrial ^3He flux to the equatorial Pacific, *Am. Geophys. Union Trans.* 77, 321.
- Mathez, E. A. and Marcantonio, F. (1995) Sr isotopes in the Bushveld Complex, South Africa, *Am. Geophys. Union Trans.* 76, 641.
- Marcantonio, F., Kumar, N., Stute, M., Anderson, R. F., and Schlosser, P. (1995) A comparative study of accumulation rates derived by Th and He isotope analysis in the equatorial Pacific, *Am. Geophys. Union Trans.* 76, 181.
- Oxburgh, R. and Marcantonio, F. (1995) The osmium isotopic composition of modern pelagic carbonates, *Geol. Soc. Am. - Abst. with Prog.* 27, 250.
- Oxburgh, R., Kelley, M., Henderson, G., and Marcantonio, F. (1995) High osmium burial fluxes in marine carbonates: implications for oceanic residence time and marine chemistry of osmium, *Am. Geophys. Union Trans.* 76, 304.
- Oxburgh, R. and Marcantonio, F., and Broecker, W. S. (1995) The marine osmium isotope record as an indicator of Pleistocene continental weathering fluxes, *Terra Abstracts* 7, 243.
- Anderson, R. F., Lao, Y., Fleisher, M. Q., and Marcantonio F. (1995) New evidence for dissolution control of carbonate cycles in equatorial Pacific sediments, *Am. Geophys. Union Trans.* 76, 304.
- Elliott, T., and Marcantonio, F. (1995) The basanites of La Palma, Canaries: distinguishing deep and shallow trace element signatures, *Terra Abstracts* 7, 157-158.
- Marcantonio, F., Turekian, K. K., Stute, M., Kumar, N., Anderson, R. F., Schlosser, P., and Mix, A. (1996) Constant extraterrestrial dust flux to the seafloor: a paleoceanographic proxy for deep-sea sediment accumulation rates, 6th Goldschmidt Geochemistry Conference, *J. Conference Abstracts* 1, 382.
- Marcantonio, F., Anderson, R. F., Stute, M., Kumar, N., Schlosser, P., and Mix. A. (1996) Extraterrestrial ^3He as a constant-flux proxy for paleoceanographic studies, *Am. Geophys. Union Trans.* 77, F415. *Invited talk.*
- Marcantonio, F., Higgins, S.*, Anderson, R. F., Stute, M., Schlosser, P., and Rasbury, E. T. (1997) Terrigenous helium in marine sediments: a provenance indicator, *Am. Geophys. Union Trans.* 78, F390.
- Higgins, S.*, Anderson, R. F., Stute, M., Schlosser, P., Fleisher, M. Q., and Marcantonio, F. (1997) A 260-kyr record of extraterrestrial ^3He and $x\text{s}^{230}\text{Th}$ in a deep-sea core from the SE Pacific, *Am. Geophys. Union Trans.* 78, F390.
- Marcantonio, F., Flowers, G., C., Thien, L., and Ellgaard, E. (October, 1997) Pb isotopes in sediments and trees as pollution tracer, ORNL Annual Meeting: Analytical Chemistry in Energy Technology, Gatlinburg, TN.
- Williams, G., Marcantonio, F., and Turekian, K. K. (1997) The behavior of natural and anthropogenic osmium in Long Island Sound, an urban estuary in the Eastern US, *Am. Geophys. Union Trans.* 78.
- Marcantonio F., Higgins, S.*, Anderson, R. F., Stute, M., and Schlosser, P. (1998) Tracking temporal changes in sedimentary fluxes using extraterrestrial ^3He records, *Am. Geophys. Union Trans.* 79, F443.

- Higgins, S. *, Marcantonio, F., Anderson, R. F., Stute, M., and Schlosser, P. (1998) A global estimate of the Late Quaternary (300 kyr) IDP flux based on $^3\text{He}/x\text{s}^{230}\text{Th}$ ratios in marine sediments, *Am. Geophys. Union Trans.* 79, F50.
- Anderson, R., F., Fleisher, M. Q., and Marcantonio, F. (1998) Productivity proxy paradox, invited to the International Conference on Paleoceanography, symposium: "Biotic responses to major paleoceanographic changes."
- Marcantonio, F., Anderson, R. F., Higgins, S. *, Stute, M., and Schlosser, P. (2000) Abrupt intensification of the SW Indian Ocean monsoon during the last deglaciation: constraints from Th, Pa, and He isotopes, *Am. Geophys. Union Trans.*, 81, F597.
- Anderson, R., F., Fleisher, M. Q., and Marcantonio, F. (2001) Glacial-interglacial variability in the accumulation of lithogenic material in central equatorial Pacific sediments, International Conference on Paleoceanography VII.
- Xu, Y.* and Marcantonio, F. (2001) Sr and trace metals in the Mississippi River mixing zone, *Geophys. Union Trans.*, 82, F648.
- Pourmand, A., Marcantonio, F., Schulz, H. (2004) Millennial variations in productivity and eolian fluxes in the northeastern Arabian Sea over the past 110 ka, *Am. Geophys. Union Trans.*, 84 (52).
- Pourmand, A.* and Marcantonio, F. (2004) $x\text{s}^{231}\text{Pa}/x\text{s}^{230}\text{Th}$ ratios in northeastern Arabian Sea sediments: Tracing changes in thermohaline circulation over the past 50 ka? *Eos Trans. AGU*, 84 (53).
- Grzymko, T. *, Marcantonio, F., McKee, B. A., Stewart, C. M. (2004) Temporal variations in $^{234}\text{U}/^{238}\text{U}$ isotope ratios in the Lower Mississippi River due to changes in source tributary discharges, *Eos Trans. AGU*, 84 (53).
- Pourmand, A.* and Marcantonio, F. (2005) Basin wide millennial cycles in Arabian Sea climate over the last glacial, *Eos Trans. AGU*, 86 (18) Jt. Assem. Suppl., Abstract PP22A-03.
- Grzymko, T.* and Marcantonio, F. (2005) Temporal variations in $^{234}\text{U}/^{238}\text{U}$ activity ratios in four Mississippi River tributaries, *Eos Trans. AGU*, 86 (18) Jt. Assem. Suppl., Abstract H43D-01.
- McGee, D. *, Marcantonio, F., and Lynch-Stieglitz, J. (2006) Deglacial changes in dust flux in the eastern equatorial Pacific, *Goldschmidt Conference*, Melbourne, Australia.
- Pourmand, A. *, Marcantonio, F., Bianchi, T. S., Canuel, E., Waterson, E. (2006) A 28-ka history of sea surface temperature, primary productivity and planktonic community variability in the western Arabian Sea, *Eos Trans. AGU*, Jt. Assem. Suppl., Abstract PP21E-03.
- McGee, D. *, Marcantonio, F., McManus, J., Winckler, G. (2007) Testing the use of extraterrestrial ^3He as a constant-flux proxy, International Conference on Paleoceanography, Shanghai, China.
- McGee, D. *, Marcantonio, F., McManus, J., Winckler, G. (2008) Testing the response of $x\text{s}^{230}\text{Th}$ and extraterrestrial ^3He to sediment redistribution at the Blake Ridge, western North Atlantic, *Goldschmidt Conference*, Vancouver, Canada.
- Marcantonio, F., Woodard, S., Thomas, D., McGee, D. *, Winckler, G. (2008) Extraterrestrial ^3He and Terrestrial ^4He in Sediments from the Shatsky Rise, *Goldschmidt Conference*, Vancouver, Canada.
- Louchouart, P. Kuo, L.-J., Brandenbuerger, J., Marcantonio, F., Wade, T. L., Creelius, C., and Gobeil, C. (2008) Using sediment records to reconstruct historical inputs of combustion-derived contaminants

- to urban airsheds/watersheds: a case study from the Puget Sound system, *Eos Trans. AGU*, Dec 2008.
- Singh, A. J.*, Marcantonio, F., and Lyle, M. (2008) Th-230 in the Eastern Equatorial Pacific Panama Basin, *Eos Trans. AGU*, Jt. Assem. Suppl. Abstract PP23C-1488.
- Xie, R.* and Marcantonio, F. (2008) Eastern Equatorial Pacific Dust Provenance on Deglacial Timescales, *Eos Trans. AGU*, Jt. Assem. Suppl. Abstract PP33C-1575.
- Raymond, A., Sims, H., Lambert, L. L., and Marcantonio, F. (2008) Tracing the Biotic Response to Tropical Climate Change in An Evolving Ice House: A Pennsylvanian DETELO, *GSA Annual Meeting*, Houston, TX.
- Woodard, S., Thomas, D. J., and Marcantonio, F. (2009) Is it Eolian Dust? Contributions to the fine silicate fraction of deep sea sediments on Shatsky Rise, 58Ma, Goldschmidt Conference, Davos, Switzerland.
- McClenning, B.*, Marcantonio, F., and Giardino, J. R. (2009) Geomorphology and environmental geochemistry of selected fens in the San Juan Mountains, Colorado: a preliminary assessment, *GSA Annual Meeting*, Portland, OR.
- Cable, P. H.*, McKee, B. A., Lyons, W. B., Marcantonio, F., Ferrell, R. E., (2009) Denudation rates in a Polar Desert, *GSA Annual Meeting*, Portland, OR.
- Singh, A. J.*, Marcantonio, F., and Lyle, M. (2009) ^{230}Th and sediment focusing in the Panama Basin, *Eos Trans. AGU*, Fall 2009 meeting.
- Xie, R.* and Marcantonio, F. (2009) Dust provenance and movement of the ITCZ in the Eastern Equatorial Pacific, *Eos Trans. AGU*, Fall 2009 meeting.
- Marcantonio, F., Schmidt, M., Franklin, A.*, and Lynch-Stieglitz, J. (2009) Neodymium isotopes and deglacial intermediate water flow in the Florida Straits, *Eos Trans. AGU*, Fall 2009 meeting.
- Singh, A.K*, Marcantonio, F., Lyle, M, (2011) Dissolved ^{230}Th - ^{232}Th Dynamics in the Eastern Tropical Pacific Ocean in *Annual V M Goldschmidt Conference*
- Marcantonio, F., Ibrahim, R.*, Singh, A.K.*, Lyle M, (2011) ^{230}Th inventories in new sediment cores from the eastern equatorial Pacific: constraints on the ^{230}Th constant-flux proxy in *Annual V M Goldschmidt Conference*
- Xie, R.*, Marcantonio, F., Schmidt, M. (2011) Response of Antarctic Intermediate Water to weaker Atlantic Meridional Overturning Circulation during the last deglaciation, *Annual V M Goldschmidt Conference*
- Woodard, S., Marcantonio, F., Thomas, D., and Lyle, M. (2011) Testing boundary exchange of Nd isotopes in the eastern tropical Pacific Ocean *Annual V M Goldschmidt Conference*
- Schmidt, M., Weinlein, W., Marcantonio, F., and Lynch-Stieglitz (2011) *Annual V M Goldschmidt Conference*
- McClenning, Bree, Giardino, J. R., and Marcantonio F. (2011) Modeling geomorphic and geochemical characteristics of alpine fen systems in the San Juan Mountains, Colorado, *Annual GSA meeting*.

- Xie, R.*, Marcantonio, F., and Schmidt, M. (2011) Abrupt changes of Antarctic Intermediate Water leading weaker Atlantic Meridional Overturning Circulation during the last deglaciation *Eos Trans. AGU*, Fall 2011 meeting.
- Schreiner, K. M., Bianchi, T. S., Allison M. A., Miller, A. J., Marcantonio, F. (2012) Changes in Terrestrial Organic Carbon Delivery to the Colville River Delta and Adjacent Simpson's Lagoon Over the Late Holocene, EGU General Assembly 2012.
- McBee, J, Herbert, B., and Marcantonio, F. (2012) Identification and distribution of anthropogenic and natural Pb in a former WWII aerial gunnery range, GSA November 2012.
- Zeynep Dincer, Jose L. Sericano, Franco Marcantonio, Terry L. Wade, Thomas Bianchi, Alex Kolker (2012) Tracking oil from Deepwater Horizon oil spill in Barataria Bay sediments, GSA, November 2012.
- Xie, R.*, Marcantonio, F., and Schmidt, M. (2012) Reconstruction of intermediate water circulation during the last deglaciation, *Eos Trans. AGU*, Fall 2012 meeting.
- Marcantonio, F., Lyle, M., and Ibrahim, R.* (2013) Particle sorting during sediment redistribution processes and the effect on ^{230}Th -normalized mass accumulation rates, ICP-2013, Barcelona.
- Lopez, G. I.* and Marcantonio, F. (2013) Dissolved and particulate ^{230}Th - ^{232}Th systematics in the central Equatorial Pacific. *Eos Trans. AGU*, Fall 2013 meeting.
- Loveley, M.*, Marcantonio, F., Lyle, M., and Wang, J. (2013) Difference in preferential sorting of fine particles in the Panama Basin over the past 25 kyr: effects on ^{230}Th -derived focusing factors, *Eos Trans. AGU*, Fall 2013 meeting.
- Marcantonio, F., Lyle, M., and Ibrahim, R.* (2014) Preferential redistribution of fine-grained particles in the Panama Basin and potential errors in ^{230}Th -derived focusing factors. *Eos Trans. AGU*, Fall 2013 meeting.
- Lopez, G. I.* and Marcantonio, F. (2014) Effects of Hydrothermal Scavenging of ^{230}Th in the Eastern Equatorial Pacific Translated to the Deep Waters of the Central Equatorial Pacific, *Eos Trans. AGU*, Fall 2014 meeting.
- Loveley, M.*, Marcantonio, F., Lyle, M., and Wang, J. (2014) Grain Size Biasing of ^{230}Th -derived Focusing Factors in the Panama Basin, *Eos Trans. AGU*, Fall 2014 meeting.
- Marcantonio, F., Lyle, M., and Ibrahim, R.* (2014) Authigenic Uranium in equatorial Pacific sediments., *Eos Trans. AGU*, Fall 2014 meeting.
- Reimi, M. S.* and Marcantonio, F. (2014) Dust Deposition and Migration of the ITCZ through the Last Glacial Cycle in the Central Equatorial Pacific (Line Islands), *Eos Trans. AGU*, Fall 2014 meeting.
- Parker, A.*, Schmidt, M., Slowey, N., Jobe, C., Marcantonio, F. (2014) Decoupled Changes in Western Niger Delta Primary Productivity and Niger River Discharge Across the Last Deglacial, *Eos Trans. AGU*, Fall 2014 meeting.
- Berg, M.*, Wilcox, B., Marcantonio, F., and Popescu, N. (2015) Integrating Ecology and Watershed Processes: Historical Rangeland Change as a Driver of Sediment Yield and Impacts on Reservoir Storage, *Eos Trans. AGU*, Fall 2014 meeting.

Xie, R.*, Marcantonio, F., and Schmidt, M. (2014) Deglacial Ocean Circulation Scheme at Intermediate Depths in the Tropical North Atlantic, *Eos Trans. AGU*, Fall 2014 meeting.

Lyle, M., Stepanova, A., Wilson, J., and Marcantonio, F. (2014) Equatorial Pacific Productivity Events and Intervals in the Middle and late Miocene through XRF-Scanned Bulk Sediment Composition Data, *Eos Trans. AGU*, Fall 2014 meeting.

Reimi Sipala, M.* and Marcantonio, F. (2015) Inter-Tropical Convergence Zone Shifts During the Last Glacial Cycle near the Line Islands Ridge, *Eos Trans. AGU*, Fall 2015 meeting.

Marcantonio, F. and Reimi Sipala, M.* (2016) Radiogenic Isotopes as Tracers of Dust Provenance and Flux in the Oceans, *Dust 2016, 2nd International Conference on Dust*.

Marcantonio, F., Loveley, M. R.*, Wisler, M. M.*, Hertzberg, J. E., Schmidt, M. W., and Lyle, M. (2017) Millennial-scale iron fertilization of the eastern equatorial Pacific over the past 100,000 years, *Goldschmidt Conference*, Paris, France.

CURRENT RESEARCH AWARDS:

Source: NSF

Total Amt Requested: \$1,121,909

Role: co-PI

Title: Acquisition of a Multicollector Inductively Coupled Plasma Mass Spectrometer and Laser Ablation System for Investigating the Evolution of the Earth's Climate, Oceans, and Tectonics at Texas A&M University

Dates: 10/01/2015-09/30/2018

Source: NSF

Total Amt Requested: \$235,121

Role: PI

Title: Collaborative Research: Dust deposition, paleo-export production, and migration of the ITCZ through the last glacial cycle in the west-central Pacific (Line Islands)

Dates: 5/1/2015-4/30/2018

PAST RESEARCH AWARDS:

Source: NSF

Amount: \$176,421 (TAMU only)

Role: co-PI (with co-PI Tom Bianchi, Oceanography, TAMU, and PI Mead Allison, UTIG)

Title: Collaborative Research: Developing a high-resolution late Holocene sediment record of rapid Arctic climate change from the Beaufort Sea coastal zone

Dates: 07/01/2012-06/30/2014

Source: NSF

Amount: \$234,035

Role: Principal Investigator

Title: Constraining Temporal Movement of the ITCZ in the Eastern Equatorial Pacific Using Radiogenic Isotopes

Dates: 07/01/2011-6/30/2013

Source: NSF

Amount: \$401,841
Role: Principal Investigator (co-PI M. Lyle, Dept of Oceanography, TAMU)
Title: ^{230}Th dynamics in the Eastern Equatorial Pacific Ocean: testing the ^{230}Th -normalization method to estimate sediment fluxes
Dates: 07/01/09-06/30/12

Source: NSF
Amount: \$450,000
Role: Principal Investigator (co-PIs E. Grossman, B. Miller, M. Schmidt, D. Thomas)
Title: Acquisition of a High-Resolution Inductively-Coupled Plasma for Earth & Environmental Science Research at Texas A&M University
Dates: 08/01/08-07/31/11

Source: NSF
Amount: \$136,000 (\$211,000 to WHOI)
Role: Principal Investigator (co-PI J. McManus at WHOI)
Title: Investigating the He-3/Th-230 ratios as a proxy for deep-sea sediment redistribution
Dates: 10/01/05-09/30/08

Source: NSF
Amount: \$74,000
Role: co-PI (PI Mead Allison, Tulane University)
Title: Quantifying Subsidence in Barataria Bay and Surrounding Areas and its Impact on Recent Bay Evolution
Dates: 07/01/06-06/30/08

Source: NSF
Amount: \$204,507 (Earth System History Program: Atmospheric and Ocean Sciences Division of the NSF)
Role: Principal Investigator (co-PI Tom Bianchi)
Title: Millennial variations in Arabian Sea sediment proxies: connection to N. Atlantic climate
Dates: 5/1/2004-4/30/2007

Source: NSF
Amount: \$185,612
Role: co-Principal Investigator (PI Jim Sickman at UNO)
Title: Collaborative research: An isotope ratio mass spectrometer for biogeoscience research and teaching at the University of New Orleans and Tulane University
Dates: 09/01/04-08/31/06

Source: USGS (LEAG CBR)
Amount: \$13,000
Role: Principal Investigator
Title: Strontium and Uranium Geochemistry in the Lower Mississippi River
Dates: 7/01/2003-6/30/2006

Source: NSF
Amount: \$130,000
Role: Principal Investigator
Title: Constraining the Connection between the SW Indian Ocean Monsoon and North Atlantic Climate
Dates: 10/01/2001-09/30/2003

Source: Department of Energy (Long-term stewardship program of DOE)
 Amount: \$59,992
 Role: Principal Investigator
 Title: Pb isotope studies of a contaminated southeast Louisiana bayou ecosystem
 Dates: 10/01/2000-9/30/2002

Source: Office of Naval Research (MiRIR II)
 Amount: \$30,433
 Role: Principal Investigator
 Title: Sr and Pb isotope studies of Mississippi Delta Estuarine Waters and Sediments
 Dates: 5/01/2000-4/30/2002

Source: Louisiana Board of Regents Support Fund
 Amount: \$40,000 (10K match from Tulane)
 Role: Principal Investigator (co-PIs Bianchi, Flowers, McKee, Nelson)
 Title: Establishing an Ultra-Clean Laboratory for the Enhancement of EES Research
 Dates: 06/01/1998-12/31/2000

Source: NSF
 Amount: \$183,372 (79K match from Tulane)
 Role: Principal Investigator (co-PIs Bianchi, Flowers, McKee, Nelson)
 Title: Acquisition of an ICP-MS for Elemental and Isotopic Analysis in EENS
 Dates: 8/15/1998-8/14/2000

Source: NSF
 Amount: \$76,636 (\$504,000 to Columbia University)
 Role: Principal Investigator (collaborative research with Anderson and Stute at Lamont)
 Title: Collaborative Research with Columbia University: Extraterrestrial ³He as a Constant-Flux Tracer for Paleooceanographic Studies
 Dates: 09/01/1997-08/31/2000

Source: Department of Defense (Tulane-Xavier Center for Bioenvironmental Research)
 Amount: \$108,769
 Role: Principal Investigator
 Title: Dissolved, Particulate, and Colloidal Strontium in the Fresh and Brackish Waters of the Mississippi Delta: Implications for Climate Change
 Dates: 02/01/1999-08/31/2000

Source: Oak Ridge Associated Universities
 Amount: \$5,000 (5K match from Tulane)
 Role: Principal Investigator
 Title: Helium Isotopes, Cosmic Dust, and Earth's Climate
 Dates: 05/01/1997-04/30/1998

Source: Department of Energy (Tulane-Xavier Center for Bioenvironmental Research)
 Amount: \$46,093
 Role: Principal Investigator (co-PIs Thien and Ellgaard)
 Title: Pb Isotopes in Tree Rings: Chronology and Fingerprints of Pollution
 Dates: 02/01/1997-01/31/1998

Source: NSF

Amount: \$120,000

Role: Although I wrote this proposal, Karl Turekian at Yale, was the PI.

Title: The estuarine behavior of Os: transport mechanisms to the oceans

Dates: 09/01/95-08/31/97

INVITED LECTURES-DEPARTMENT SEMINARS:

- 2017 Lamont-Doherty Earth Observatory of Columbia University
- 2016 Invited Plenary Lecturer at the International Dust 2016 Conference (Italy)
- 2015 Old Dominion University
- 2014 University of Kentucky
- 2012 Rosenthal School of Marine and Atmospheric Sciences, University of Miami
- 2011 University of Houston
- 2010 Texas A&M University—Oceanography Dept
- 2010 University of Texas - El Paso
- 2006 Texas A&M University
- 2005 Columbia University
- 2005 Yale University
- 2002 Yale University
- 1999 Louisiana State University
- 1999 University of Southern Mississippi
- 1999 Loyola University
- 1998 Columbia University
- 1998 Yale University
- 1998 University of New Orleans
- 1997 University of New Orleans
- 1996 Yale University
- 1996 Columbia University
- 1996 SUNY-Stony Brook
- 1996 Florida State University
- 1996 Western Michigan University
- 1995 Rutgers University

COURSES TAUGHT (TULANE)

- Fall/1996 GEOL 111: Introductory Physical Geology (4.0 SCH)
- Spring/1997 GEOL 111: Introductory Physical Geology (4.0 SCH)
- Spring/1997 GEOL 625: Isotopes in the Environment: stable and radiogenic isotopes (3.0 SCH)
- Fall/1997 GEOL 111: Introductory Physical Geology (4.0 SCH)
- Spring/1998 GEOL 608: Geochemical Proxies of Climate Change Seminar (3.0 SCH)
- Spring/1998 GEOL 111: Introductory Physical Geology (4.0 SCH)
- Fall/1998 GEOL 111: Introductory Physical Geology (4.0 SCH)
- Spring/1999 GEOL 111: Introductory Physical Geology (4.0 SCH)
- Spring/1999 GEOL 202: Environmental Geology (3.0 SCH)
- Spring/2000 GEOL 111: Introductory Physical Geology (4.0 SCH)
- Spring/2000 GEOL 625: Isotopes in the Environment: stable and radiogenic isotopes (3.0 SCH)

Fall/2000 GEOL 111: Introductory Physical Geology (4.0 SCH)
 Spring/2001 GEOL 626: Paleoclimatology (3.0 SCH)
 Spring/2001 GEOL 202: Environmental Geology (3.0 SCH)
 Fall/2001 GEOL 111: Introductory Physical Geology (4.0 SCH)
 Spring/2002 GEOL 111: Introductory Physical Geology (4.0 SCH)
 Spring/2002 GEOL 202: Environmental Geology (3.0 SCH)
 Fall/2002 GEOL 625: Isotopes in the Environment: stable and radiogenic isotopes (3.0 SCH)
 Spring/2003 GEOL 111: Physical Geology (4.0 SCH)
 Spring/2003 GEOL 202: Environmental Geology (3.0 SCH)
 Fall/2003 GEOL 626: Paleoclimatology (3.0 SCH)
 Fall/2004 GEOL 111: Physical Geology (4.0 SCH)
 Fall/2004 GEOL 625: Isotopes in the Environment: stable and radiogenic isotopes (3.0 SCH)
 Spring/2005 GEOL 202: Environmental Geology (3.0 SCH)
 Spring/2006 GEOL 111: Physical Geology (4.0 SCH)

COURSES TAUGHT (TEXAS A&M)

Spring/2007 GEOL 101: Principles of Geology (4.0 SCH)
 Fall/2007 GEOL 689: Radiogenic Isotope Geochemistry (3.0 SCH)
 Fall/2007 GEOL 101: Principles of Geology (4.0 SCH)
 Fall/2008 Developmental leave
 Summer/2008 GEOL 685: How to be a TA for the Geology Department (3.0 SCH)
 Spring/2009: GEOL 101: Principles of Geology (4.0 SCH)
 Spring/2009: GEOL 685: Radiogenic Isotopes and Trace Element Geochemistry Methods Course (3.0 SCH)
 Fall/2009: GEOL 101: Principles of Geology (4.0 SCH)
 Fall/2009: GEOL 311: Principles of Geological Writing (1.0 SCH)
 Spring/2010: GEOL 451: Introduction to Geochemistry (3.0 SCH)
 Fall/2010: GEOL 101: Principles of Geology (4.0 SCH)
 Fall/2010: GEOL 311: Principles of Geological Writing (1.0 SCH)
 Fall/2010: OCNG 605: Oceanography Cruise (2.0 SCH)
 Spring/2011: GEOL 451: Introduction to Geochemistry (3.0 SCH)
 Fall/2011: GEOL101H: Principles of Geology (4.0 SCH)
 Fall/2011: GEOL 311: Principles of Geological Writing (1.0 SCH)
 Spring/2012: GEOL 451: Introduction to Geochemistry (3.0 SCH)
 Fall/2012: GEOL 689: Geochemistry of Natural Waters (3.0 SCH)
 Spring/2013: GEOL 451: Introduction to Geochemistry (3.0 SCH)
 Summer/2013: GEOL 311: Principles of Geological Writing (1.0 SCH)
 Fall/2013: GEOL 101: Principles of Geology (4.0 SCH)
 Fall/2013: GEOL 689: Radiogenic Isotope Geochemistry (3.0 SCH)
 Spring/2014: GEOL 451 Introduction to Geochemistry (4.0 SCH)
 Summer/2014: GEOL 311: Principles of Geological Writing (1.0 SCH)
 Fall/2014: GEOL 640: Geochemistry of Natural Fresh Waters (3.0 SCH)
 Spring/2015: GEOL 451: Introduction to Geochemistry (3.0 SCH)

Spring/2015: GEOL 489: Team Research in Geochem and Paleoclimate (3.0 SCH)
 Summer/2015: GEOL 311: Principles of Geological Writing (1.0 SCH)
 Fall/2015: GEOL 302: Introduction to Petrology (3.0 SCH)
 Spring/2016: GEOL 689: Radiogenic Isotope Geochemistry (3.0 SCH)
 Spring/2016: GEOL 451: Introduction to Geochemistry (3.0 SCH) taught 1/3 of class
 Fall/2016: GEOL 640: Geochemistry of Natural Fresh Waters (3.0 SCH)

UNIVERSITY SERVICE (TULANE):

2004-2006: Environmental Studies Committee
 2003-2004: Search committee, Senior Vice President for Student Affairs
 2001-2006: Undergraduate Advisor for the Department of Geology
 1998-2006: Health Professions Committee
 2004-2005: Guest lecturer, Honors Weekend
 2000-2003: Student Judiciary Academic Committee
 1997-1999: *Ad hoc* Committee on the development of an interdisciplinary graduate program in Earth and Ecosystem Sciences
 1997-2000: Geology Department Guest Speaker Coordinator
 1997-1998: Freshman Advisor
 1997-1998: Newcomb Honor Board Committee
 1997-1998: Departmental Curriculum Committee

UNIVERSITY SERVICE (TEXAS A&M)

2015- : Associate Department Head
 2016- : Chair of the Departmental IT Committee
 2015-2016 : Member of the AFS University Distinguished Award Committee
 2015- : College Tenure and Promotion Committee
 2014- : Undergraduate Curriculum Study Group
 2012- : College Committee for IODP XRF scanner
 2011- : Departmental Executive Committee
 2012-2014 : College Tenure and Promotion Committee
 2011-2014 : Assistant Department Head
 2013-2014 : College Chemistry Lab teaching Committee
 2014 : Alternate for IODP faculty Search Committee
 2013 : Hydrogeology Search Committee
 2012 : Chair of Search Committee, Departmental Academic Advisor
 2011 : Search Committee, Departmental Academic Advisor
 2007-2011: Departmental Tenure and Promotion Committee
 2007-2011: Departmental Space Committee
 2007-2011: Departmental Seminar Committee
 2009-2011: University Committee for Laboratory Safety
 2010-2011: Search Committee, Associate Dean of Research of College of Geosciences
 2009-2010: College of Geosciences Climate and Energy START Committee
 2009-2010: College of Geosciences AFS Faculty Award Selection Committee
 2007-2010: College of Geosciences Faculty Committee
 2006-2007: Search Committee, Department Head for the Department of G & G

TEACHING AWARDS

2003 Mortar Board Award for Teaching Excellence at Tulane University

RESEARCH PROPOSAL REVIEW PANELS

2001: NSF panelist (Ocean Sciences/Chemical Oceanography)
 2004: NSF panelist (Ocean Sciences/Marine Geology & Geophysics)
 2011: NSF panelist (Ocean Sciences/Marine Geology & Geophysics)
 2016: NSF panelist (Ocean Sciences/Marine Geology & Geophysics)

SPECIAL SESSION CONVENER

2005: co-Convener of AGU special session “New isotope tools in paleoclimatology”
 2008: co-Convener of GSA special session “Geochemical tracers of changes in seawater chemistry”
 2008-2013: Member of GEOTRACES international intercalibration study of seawater trace element and isotopes
 2011: co-Covener of AGU special session “Abrupt changes in intermediate water penetration into North Atlantic on deglacial timescales

OTHER HONORS AND AWARDS:

2017- : Holder of the Jane and Ken R. Williams Chair in Ocean Drilling Science
 2015: Elected Fellow of the Geological Society of America
 2012-2016: Holder of the Robert R. Berg Professorship
 1997-2006: Member of the Speaking of Science Program (Louisiana BoRSF)
 1997-1998: Oak Ridge Associated Universities Junior Faculty Enhancement Award
 1988-1994: Graduate Fellowship, Columbia University
 1986-1988: H. L. Hooker Scholar, McMaster University
 1986-1988: NSERC Graduate Scholarship, McMaster University, Carleton University
 1982-1986: Senate Medal for Outstanding Academic Achievement, Carleton University
 1982-1986: J. P. Bickell Scholar, Carleton University
 1982-1986: Dr. M. Ralph Berke Award in Chemistry, Carleton University
 1982-1986: Dr. Frederick William Charles Mohr Scholarship, Carleton University

GRADUATE STUDENTS

Current students	Role	Degree
Maya Reimi	Chair	PhD Geol
Jenna Newman	co-Chair	PhD OCNG
Danielle Schimmenti	Chair	PhD Geol
Ryan Wilcoxson	Chair	MS Geol
Ben Prince	Chair	MS Geol
Divya Saxena	Member	PhD Geol
John Schiff	Member	PhD Geog
Madison Pike	Member	PhD Geol
Jessica Garcia	Member	PhD Geol
Alex Van Plantinga	Member	PhD Geol
Amy Price	Member	PhD Geol

Richard Van Winkle	Member	PhD Geol
Jindang Cai	Member	MS Geol
Claire McKinley	Member	PhD Ocng
Zach Rolewicz	Member	MS Ocng

Past students:

Matt Loveley	Chair	PhD Geol (2017)
Ruifang Xie	Chair	PhD Geol (2013)
Ajay Singh	Chair	PhD Geol (2012)
Cait Kelly	Chair	MS Geol
Grecia Lopez	Chair	MS Geol (2015)
Rami Ibrahim	Chair	MS Geol (2015)
Jayne McBee	co-Chair	MS Geol (2012)
Bree McClenning	co-Chair	MS Geol (2011)
Zeynep Dincer	co-Chair	MS Geol (2013)
Yingfeng Xu	Chair	PhD Geol (2004)
Ali Pourmand	Chair	PhD Geol (2006)

David McGee	Chair	MS Geol (2006) PhD Geol (2010)
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Troy Gryzmko	Chair	MS Geol (2006)
E. Dylan Laird	Member	MS WMHS
Cristina Subt	Member	MS Ocng
Katie Schreiner	Member	PhD Ocng
Richard Smith	Member	PhD Ocng
Teddy Them	Member	MS Ocng
Scarlett Arbuckle	Member	PhD Ocng
Zhirui Zeng	Member	PhD Geol
Matthew Berg	Member	PhD ESSM
Julia Wilson	Member	PhD Ocng
Joshua Litt	Member	MS WMHS
Kelly Brooks	Member	MS Ocng
Joseph Hill	Member	MS Geol
Danl Lewis	Member	MS Ocng
Christina Piela	Member	MS Ocng (2010)
Bill Weinlein	Member	MS Ocng
Li-Jung Kuo	Member	MS Geol (2009)
Dan Murphy	Member	PhD Ocng (2010)

Stella Woodard	Member	PhD Ocng (2011)
Richard Smith	Member	PhD Ocng (2011)
Y. Duan	Member	PhD Biol (2006)
Laura Wysocki	Member	PhD Biol (2007)
Troy Sampere	Member	PhD Biol (2009)

Employment at Graduation

Lab Manager Zed Industries
 Post-doc at Max Planck -Mainz
 Instructor at Univ of Houston
 Pioneer, Dallas, TX
 Technician, CalTech
 Houston, TX
 Fugro International, TX
 Instructor Blinn College
 Turkish Petroleum Company
 Geochem technician Univ LA
 Post-doc Univ Chicago,
 Asst. Prof at Univ of Miami
 (RSMAS)

Professor at MIT
 Environmental Consulting

PhD student at Univ S. Florida
 Asst Prof at U Minn--Duluth
 Post-doc at Univ Connecticut
 PhD student at Virginia Tech

Petroleum Industry (Houston)
 Environmental Consulting
 EOG
 Anadarko
 Chevron
 BP
 Environmental Consultant
 Post-doc Batelle National Labs
 Post-doc, University of
 Southampton
 Post-doc Rutgers University
 Post-doc University of CT
 Post-doc Texas A&M Galveston
 Professor at USL-Hammond

UNDERGRADUATE STUDENTS

Texas A&M undergraduate graduate students who have performed research in my lab:

Seyi Olaniyi-Sholanke (Geology major), Marilyn Wisler (Geology major), Justin Schley (Geology major), Matthew Patroliia (Geology major), Garrett Naiser (Chemistry major) Think Ngyuyen (Geology major), Ezriq Kushairi (Geology major), Grecia Lopez (Geology major), Cameron Nikmard (Geology major), Precious Nkoro (Geology major) Thomas Hull (Geology major), Alyssa Franklin (Geology major), Tengku Faisal (Geology major)

Tulane undergraduate students who have performed research in my lab:

Mike Takaichi (Geology major), Nicole Templin (Geology major), Joe Levitt (Environmental Geosciences major), Tyler Kinley (Earth Sciences major), Colin Caplan (Earth Science minor), Stephanie Thomas (Geology major)