

KEVIN M. YEAGER

Department of Earth and Environmental Sciences -- University of Kentucky
121 Washington Ave. -- 101 Slone Research Building -- Lexington, KY 40506
kevin.yeager@uky.edu -- (859) 257-5431

EDUCATION

- 2002 Ph.D. – Geology, Texas A&M University: Characterizing coastal margin fluvial and marine processes using lithogenic and fallout radionuclides; isotope fractionation, sediment sourcing and transport
- 1997 M.S. – Geology, University of Toledo: The vertical mobility and persistence of Atrazine and Metolachlor under specified conditions within the Ottokee fine sand, Quarry Pond Farm, Waterville, Ohio
- 1995 B.S. – Geology, Edinboro University of Pennsylvania: Senior Thesis - Fossil fishes (Arthrodira and Acanthodida) from the upper Devonian Chadakoin Formation of Erie County, Pennsylvania

PROFESSIONAL APPOINTMENTS

- 2021- Associate Editor – *Marine Pollution Bulletin* – Elsevier (Journal IF = 4.05)
- 2011- Associate Professor – Department of Earth and Environmental Sciences – University of Kentucky
- 2005-11 Assistant Professor – Division of Marine Science – University of Southern Mississippi
- 2005 Assistant Research Scientist – Department of Marine Science – Texas A&M University at Galveston
- 2003-04 Texas Institute of Oceanography Post-Doctoral Fellow – Department of Marine Science – Texas A&M University at Galveston

PEER-REVIEWED PUBLICATIONS (current/former students; impact factors (IF) ≥ 4.5 = top 10% of science and engineering journals – journal citation reports, Thomson Reuters)

In Preparation or Review

Yeager, K.M., K.J. Schindler, 2021. Role of seafloor bathymetric complexity in the accumulation of sediment and Deepwater Horizon hydrocarbons. In preparation for *Marine Geology*

Yeager, K.M., J.E. Eddy, C.D. Barton, J.D. Phillips, 2021. Effects of hydrologic connectivity and land use on floodplain sediment accumulation at the Savannah River Site, South Carolina. In preparation for *Geomorphology*

Lo, E.L., K.M. Yeager, I. Bergier, A. Silva, M.M. McGlue, 2021. Sediment infill of tropical floodplain lakes: rates, controls, and implications for ecosystem services. In preparation for *Hydrobiologia*

Soreghan, M., M.M. McGlue, **K.M. Yeager**, 2021. New constraints on age model development, the radiocarbon reservoir effect, and sediment accumulation rates in southern Lake Tanganyika. In preparation for *Quaternary Geochronology*

Johnson, S.E., M. Swallom, J.R. Thigpen, M.M. McGlue, E. Woolery, J. Dortch, S. Gallen, **K.M. Yeager**, 2021. Post-glacial fluvial inefficiency. In review at *Earth Surface Processes and Landforms* (IF 3.69)

Published or in Press

72. Feagin, R.A., T.P. Huff, **K.M. Yeager**, S. Whitehead, 2021. Can sea level rise help us restore coastal wetlands? The hydrologic restoration of the Slop Bowl, Brazoria National Wildlife Refuge, Texas. *Shore and Beach* (in press) (IF 1.00)
71. Streib, L.C., J.R. Stone, E.C. Lyon, H. Ha, **K.M. Yeager**, S. Zimmerman, M.M. McGlue, 2021. Anthropogenic climate change has altered lake state in the Sierra Nevada (California, USA). *Global Change Biology* (in press) (IF 8.56)
70. Tan, D., Q. Li, S. Wang, **K.M. Yeager**, M. Guo, K. Liu, Y. Wang, 2021. Diel variation of CH₄ emission flux in a small artificial lake: Toward more accurate methods of observation. *Science of the Total Environment* 784: 147146 (IF 6.55)
69. Sena, K., **K.M. Yeager**, C. Barton, W. Bond, K.J. Schindler, 2021. Development of mine soils in chronosequence of FRA-reclaimed sites in Eastern Kentucky. *Minerals* 11(4): 422 DOI:10.3390/min11040422 (IF 2.38)
68. Alverson, A.J., T.K. Chafin, K.A. Jones, K. Manoylov, H. Johnson, M.L. Julius, T. Nakov, E.C. Ruck, E.C. Theriot, **K.M. Yeager**, J.R. Stone, 2021. Microbial biogeography through the lens of an invasive species: The recent introduction and spread of the freshwater diatom *Discostella asterocostata* in the United States. *Biological Invasions* DOI:10.1007/s10530-021-02497-5 (IF 3.09)
67. Zhang, H., S. Huo, Z. Xiao, Z. He, J. Yang, **K.M. Yeager**, X. Li, F. Wu, 2021. Climate and nutrient-driven regime shifts of cyanobacterial communities in low-latitude plateau lakes. *Environmental Science and Technology* 55(5): 3,408-3,418 (IF 7.86)
66. McGlue, M.M., **K.M. Yeager**, M.J. Soreghan, M. Behm, I.A. Kimirei, A.S. Cohen, C. Apse, P. Limbu, R. Smiley, D. Doering, J.S. Lucas, A. Mbonde, P.B. McIntyre, 2021. Spatial variability in nearshore sediment pollution in Lake Tanganyika (East Africa) and implications for fisheries conservation. *Anthropocene* 33: 100281 (IF 3.39)
65. Zhang, H., S. Huo, **K.M. Yeager**, F. Wu, 2021. Sedimentary DNA record of eukaryotic algal and cyanobacterial communities in a shallow lake driven by human activities and climate change. *Science of the Total Environment* 753: 2021.141985 (IF 6.55)
64. Lucas, J.S., M.M. McGlue, I.A. Kimirei, M.J. Soreghan, A. Mbonde, **K.M. Yeager**, P. Limbu, C. Apse, P. McIntyre, 2020. Geophysical benthic habitat mapping in Lake Tanganyika (Tanzania): Implications for spatial planning of small-scale coastal protected areas. *J. of Great Lakes Research* 46(2): 243-254 (IF 1.93)

63. Lo, E.L., M.M. McGlue, A. Silva, I. Bergier, **K.M. Yeager**, H. Macedo, M. Swallom, M.L. Assine, 2019. Fluvio-lacustrine sedimentary processes and landforms on the distal Paraguay fluvial megafan (Brazil). *Geomorphology* 342: 163-175 (IF 3.82)
62. Buongiorno, J., L. Herbert, L. Wehrmann, A. Michaud, K. Laufer, H. Roy, B.B. Jorgensen, A. Szykiewicz, A. Faiia, **K.M. Yeager**, K.J. Schindler, K. Lloyd, 2019. Complex microbial communities drive iron and sulfur cycling in Arctic fjord sediments. *Applied and Environmental Microbiology* DOI:10.1128/AEM.00949-19 (IF 4.02)
61. Zhang, H., S. Huo, **K.M. Yeager**, C. Li, B. Xi, J. Zhang, Z. He, C. Ma, 2019. Apparent relationships between anthropogenic factors and climate change indicators and POPs deposition in a lacustrine system. *J. of Environmental Sciences* 83: 174-182 (IF 4.30)
60. Zhang, H., S. Huo, **K.M. Yeager**, B. Xi, J. Zhang, F. Wu, 2019. A historical sedimentary record of mercury in a shallow eutrophic lake: Impacts of human activities and climate change. *Engineering* 5(2): 296-304 (IF 6.50)
59. Yan, D., H. Xu, J. Lan, K. Zhou, Y. Ye, J. Zhang, Z. An, **K.M. Yeager**, 2019. Solar activity and the westerlies dominate decadal hydroclimate changes over arid central Asia. *Global and Planetary Change* 173: 53-60 (IF 4.45)
58. **Yeager, K.M.**, P.C. Wolfe, R.A. Feagin, C.A. Brunner, K.J. Schindler, 2019. Active near surface growth faulting and late Holocene history of motion: Matagorda Peninsula, Texas. *Geomorphology* 327: 159-169 (IF 3.82)
57. Zhang, H., S. Huo, **K.M. Yeager**, Z. He, B. Xi, X. Li, C. Ma, F. Wu, 2019. Phytoplankton response to climate changes and anthropogenic activities recorded by sedimentary pigments in a shallow eutrophied lake. *Science of the Total Environment* 647: 1,398-1,409 (IF 6.55)
56. Yang, D., S. Wang, W. Lu, P. Xiang, Y. Yang, D. Tan, M. Guo, **K.M. Yeager**, 2018. Impoundment-induced nitrogen-phosphorus imbalance in cascade reservoirs alleviated by input of anthropogenic nutrients. *Inland Waters* 8(2): 196-206 (IF 1.91)
55. Zhang, H., S. Huo, **K.M. Yeager**, B. Xi, J. Zhang, Z. He, C. Ma, F. Wu, 2018. Accumulation of arsenic, mercury and heavy metals in lacustrine sediment in relation to eutrophication: Impacts of sources and climate change. *Ecological Indicators* 93: 771-780 (IF 4.80)
54. **Yeager, K.M.**, K.A. Schwehr, K.J. Schindler, P.H. Santschi, 2018. Sediment accumulation and mixing in the Penobscot River and estuary, Maine. *Science of the Total Environment* 635 228-239 (IF 6.55)
53. Louchouart, P., S.M. Seward, G. Cornelissen, H.P.H. Arp, **K.M. Yeager**, R. Brinkmeyer, P.H. Santschi, 2018. Limited mobility of dioxins near San Jacinto super fund site (waste pit) in the Houston Ship Channel, Texas due to strong sediment sorption. *Environmental Pollution* 238: 988-998 (IF 6.79)
52. Lu, W., S. Wang, **K.M. Yeager**, F. Liu, Q. Huang, Y. Yang, P. Xiang, Y. Lu, C. Liu, 2018. Importance of considered organic vs. inorganic source of carbon to lakes for calculating net effect on landscape C budgets. *J. of Geophysical Research – Biogeosciences* 123: 1,302-1,317

(IF 3.62)

51. Sena, K., **K.M. Yeager**, T. Dreaden, C. Barton, 2018. *Phytophthora cinnamomi* colonized reclaimed surface mined sites in Eastern Kentucky: Implications for the restoration of susceptible species. *Forests* 9(4): 203 (IF 2.22)
50. Bera, G., **K.M. Yeager**, A.M. Shiller, 2018. Whether hurricane Katrina impacted trace metal and dioxin depositional histories in marshes of St. Louis Bay, Mississippi. *Science of the Total Environment* 624: 517-529 (**IF 6.55**)
49. **Yeager, K.M.**, K.A. Schwehr, P. Louchouart, P.H. Santschi, R.A. Feagin, K.J. Schindler, 2018. Mercury inputs and redistribution in the Penobscot River and estuary, Maine. *Science of the Total Environment* 622-623: 172-183 (**IF 6.55**)
48. Huo, S., C. Li, B. Xi, Z. Yu, **K.M. Yeager**, F. Wu, 2017. Historical record of polychlorinated biphenyls (PCBs) and special occurrence of PCB 209 in a shallow fresh-water lake from eastern China. *Chemosphere* 184: 832-840 (**IF 5.78**)
47. Santschi, P.H., **K.M. Yeager**, K.A. Schwehr, K.J. Schindler, 2017. Estimates of recovery of the Penobscot River and estuarine system from mercury contamination in the 1960's. *Science of the Total Environment* 596-597: 351-359 (**IF 6.55**)
46. Li, C., S. Huo, Z. Yu, B. Xi, **K.M. Yeager**, Z. He, C. Ma, J. Zhang, F. Wu, 2017. National investigation of semi-volatile organic compounds (PAHs, OCPs, and PCBs) in lake sediments of China: Occurrence, spatial variation and risk assessment. *Science of the Total Environment* 579: 325-336 (**IF 6.55**)
45. Yu, K., H. Xu, J. Lan, E. Sheng, B. Liu, H. Wu, **K.M. Yeager**, 2017. Climate change and soil erosion in a small alpine lake basin on the Loess Plateau, China. *Earth Surface Processes and Landforms* 42(8): 1,238-1,247 (IF 3.69)
44. Hieke, A.S.C., R. Brinkmeyer, **K.M. Yeager**, K.J. Schindler, S. Zhang, C. Xu, P. Louchouart, P.H. Santschi, 2016. Widespread distribution of *Dehalococcoides mccartyi* in the Houston Ship Channel and Galveston Bay, Texas sediments and the potential for reductive dechlorination of PCDD/F in an estuarine environment. *Marine Biotechnology* 18(6): 630-644 (IF 2.88)
43. Xu, H., J. Lan, E. Sheng, K. Yu, Z. Shi, P. Cheng, X. Wang, B. Liu, T. Liu, X. Zhou, **K.M. Yeager**, 2016. Hydroclimatic contrasts over Asian monsoon areas and linkages to tropical Pacific SSTs. *Scientific Reports* 6: Art. No. 33177 (**IF 4.58**)
42. Xu, H., Y. Keke, J. Lan, E. Sheng, B. Liu, Y. Ye, B. Hong, H. Wu, K. Zhou, **K.M. Yeager**, 2016. Different responses of sedimentary $\delta^{15}\text{N}$ to climatic changes and anthropogenic impacts in lakes across the eastern margin of the Tibetan Plateau. *J. of Asian Earth Science* 123: 111-118 (IF 3.06)
41. Wang, S., **K.M. Yeager**, W. Lu, 2016. Carbon isotope fractionation in phytoplankton as a potential proxy for pH rather than for $[\text{CO}_2(\text{aq})]$: Observations from a carbonate lake. *Limnology and Oceanography* 61(4): 1,259-1,270 (IF 3.78)

40. Briggs, K.B., V.A. Hartmann, **K.M. Yeager**, S. Shivarudrappa, R.J. Diaz, L.E. Osterman, A.H. Reed, 2015. Influence of hypoxia on biogenic structure in sediments on the Louisiana continental shelf. *Estuarine, Coastal and Shelf Science* 164: 147-160 (IF 2.33)
39. Huo, S., J. Zhang, **K.M. Yeager**, B. Xi, Y. Qin, Z. He, F. Wu, 2015. Mobility and sulfidization of heavy metals in sediments of a shallow eutrophic lake, Lake Taihu, China. *J. of Environmental Sciences* 31: 1-11 (IF 4.30)
38. Wu, W., **K.M. Yeager**, M.S. Peterson, R.S. Fulford, 2015. Neutral models as a way to evaluate the Sea Level Affecting Marshes Model (SLAMM). *Ecological Modelling* 303: 55-69 (IF 2.50)
37. Xu, H., X. Zhou, J. Lan, B. Liu, E. Sheng, K. Yu, P. Cheng, F. Wu, B. Hong, **K.M. Yeager**, S. Xu, 2015. Late Holocene Indian summer monsoon variations recorded at Lake Erhai, south-western China. *Quaternary Research* 83(2): 307-314 (IF 2.31)
36. Xu, H., **K.M. Yeager**, J. Lan, B. Liu, E. Sheng, X. Zhou, K. Yu, S. Che, P. Cheng, X. Qiang, Z. An, 2015. Abrupt Holocene Indian summer monsoon failures: A primary response to solar activity. *The Holocene* 25(4): 677-685 (IF 2.35)
35. Bera, G., **K.M. Yeager**, M.J. Shim, A.M. Shiller, 2015. Anthropogenic stable cesium in water and sediment of a shallow estuary, St. Louis Bay, Mississippi. *Estuarine, Coastal and Shelf Science* 157: 32-41 (IF 2.33)
34. Wang, S., **K.M. Yeager**, G. Wan, C.Q. Liu, F. Liu, Y. Lu, 2015. Dynamics of CO₂ in a karst catchment in the southwestern plateau, China. *Environmental Earth Sciences* 73(5): 2,415-2,427 (IF 2.18)
33. Chanton, J.P., T. Zhao, B.E. Rosenheim, S. Joye, S. Bosman, C. Brunner, **K.M. Yeager**, A.R. Diercks, D. Hollander, 2015. Using natural abundance radiocarbon to trace the flux of petrocarbon to the seafloor following the Deepwater Horizon oil spill. *Environmental Science and Technology* 49: 847-854 (**IF 7.86**); *10 most significant papers published in *Environmental Science and Technology* (previous 18 mo.), *Chemical and Engineering News Supplement*, October 2015
32. Kulawardhana, R.W., R.A. Feagin, S.C. Popescu, T.W. Boutton, **K.M. Yeager**, T.S. Bianchi, 2015. The role of elevation, relative sea-level history, and vegetation transition in determining carbon distribution in *Spartina alterniflora* dominated salt marshes. *Estuarine, Coastal and Shelf Science* 154: 48-57 (IF 2.33)
31. Huo, S., J. Zhang, **K.M. Yeager**, B. Xi, J. Wang, Z. He, F. Wu, 2014. High-resolution profiles of dissolved reactive phosphorus in overlying water and pore water of Lake Taihu, China. *Environmental Science and Pollution Research* 21(22): 12,989-12,999 (IF 3.06)
30. Cline, M.D., R.A. Feagin, **K.M. Yeager**, 2014. Modeling salt marsh cover response to relative water level: Local fault motion vs. global eustatic rise. *J. of Coastal Research* 30(5): 1,045-1,054 (IF 1.05)
29. Huo, S.L., B.D. Xi, F.Y. Zan, X.J. Yu, G.C. Zhao, J. Su, **K.M. Yeager**, 2014. Assessment of distribution characteristics and contamination with heavy metals in surface sediments of

- Lake Chaohu, China. *Environmental Engineering and Management J.* 13(3): 669-680 (IF 1.00)
28. Xu, H., J. Lan, B. Liu, E. Sheng, **K.M. Yeager**, 2013. Modern carbon burial in Lake Qinghai, China. *Applied Geochemistry* 39: 150-155 (IF 2.90)
 27. Peterson, M.S., J.M. Havrylkoff, P.O. Grammer, P.F. Mickle, W.T. Slack, **K.M. Yeager**, 2013. Macro-benthic prey and physical habitat characteristics in a western Gulf Sturgeon population: Differential estuarine habitat use patterns. *Endangered Species Research* 22: 159-174 (IF 2.26)
 26. Brunner, C.A., **K.M. Yeager**, R.S. Hatch, S. Simpson, J. Keim, K.B. Briggs, P. Louchouart, 2013. Effects of oil from the Macondo Well blowout on marsh foraminifera of Mississippi and Louisiana, USA. *Environmental Science and Technology* 47: 9,115-9,123 (**IF 7.86**)
 25. Feagin, R.A., **K.M. Yeager**, C.A. Brunner, J.G. Paine, 2013. Active fault motion in a coastal wetland: Matagorda, Texas. *Geomorphology* 199: 150-159 (IF 3.82)
 24. Colón-Rivera, R.J., R.A. Feagin, J.B. West, **K.M. Yeager**, 2012. Salt marsh connectivity and fresh-water versus saltwater inflow: Multiple methods including tidal gauges, water isotopes, and LIDAR elevation models. *Canadian J. of Fisheries and Aquatic Sciences* 69(8): 1,420-1,432 (IF 2.47)
 23. Zan, F.Y., S.L. Huo, B.D. Xi, C.W. Zhu, H.Q. Liao, J.T. Zhang, **K.M. Yeager**, 2012. A 100-year sedimentary record of natural and anthropogenic impacts on a shallow eutrophic lake, Lake Chaohu, China. *J. of Environmental Monitoring* 14(3): 804-816 (IF 3.24)
 22. Zan, F., S. Huo, B.D. Xi, J. Zhang, L. Haiqing, Y. Wang, **K.M. Yeager**, 2012. A 60-year sedimentary record of natural and anthropogenic impacts on Lake Chenghai, China. *J. of Environmental Sciences* 24(4): 602-609 (IF 4.30)
 21. **Yeager, K.M.**, C.A. Brunner, M.A. Kulp, D. Fischer, R.A. Feagin, K.J. Schindler, J. Prouhet, G. Bera, 2012. Significance of active growth faulting on marsh accretion processes in the lower Pearl River, Louisiana. *Geomorphology* 153-154: 127-143 (IF 3.82)
 20. Martínez, M.L., R.A. Feagin, **K.M. Yeager**, R. Costanza, J. Day, J.A. Harris, R.J. Hobbs, J. López Portillo, P. Moreno-Casasola, J. Sheinbaum, I.J. Walker, A. Yáñez-Arancibia, E. Higgs, 2012. Artificial modifications of the coast in response to the Deepwater Horizon oil spill: Quick solutions or long-term liabilities? *Frontiers in Ecology and the Environment* 10(1): 44-49 (**IF 9.30**)
 19. Wang, S., **K.M. Yeager**, G. Wan, Y. Wang, Y. Lu, 2012. Carbon export and HCO₃⁻ fate in a carbonate watershed: A case study from Hongfeng Lake, southwestern China. *Applied Geochemistry* 27(1): 64-72 (IF 2.90)
 18. Cline, M.D., R.A. Feagin, **K.M. Yeager**, M. van Alstyne, 2011. Fault-induced wetland loss at Matagorda, Texas, USA: Land cover changes from 1943 to 2008. *Geocarto International* 26(8): 633-645 (IF 2.39)

17. Zan, F., S. Huo, B. Xi, J. Su, X. Li, J. Zhang, **K.M. Yeager**, 2011. A 100-year sedimentary record of heavy metal pollution in a shallow eutrophic lake, Lake Chaohu, China. *J. of Environmental Monitoring* 13(10): 2,788-2,797 (IF 3.24)
16. Hung, C.C., G.C. Gong, F.C. Ko, H.Y. Chen, M.L. Hsu, J.M. Wu, S.C. Peng, **K.M. Yeager**, P.H. Santschi, 2010. Relationships between persistent organic pollutants and carbonaceous materials in aquatic sediments of Taiwan. *Marine Pollution Bulletin* 60(7): 1,010-1,017 (IF 4.05)
15. Wang, S., **K.M. Yeager**, G. Wan, C. Liu, F. Tao, C. Fan, 2010. Short-term field observations of nitrous oxide saturations in Lake Taihu, China: The need for high temporal resolution studies. *J. of Environmental Quality* 39(5): 1,858-1,863 (IF 2.14)
14. **Yeager, K.M.**, R. Brinkmeyer, C.F. Rakocinski, K.J. Schindler, P.H. Santschi, 2010. Impacts of dredging activities on the accumulation of dioxins in surface sediments of the Houston Ship Channel, Texas. *J. of Coastal Research* 26(4): 743-752 (IF 1.05)
13. Hung, C.C., G.C. Gong, K.P. Chiang, H.Y. Chen, **K.M. Yeager**, 2009. Particulate carbohydrates and uronic acids in the northern East China Sea. *Estuarine, Coastal and Shelf Science* 84: 565-572 (IF 2.33)
12. Feagin, R.A., S.M. Lozada-Bernard, T.M. Ravens, I. Möller, **K.M. Yeager**, A.H. Baird, 2009. Does vegetation prevent wave erosion of salt marsh edges? *Proceedings of the National Academy of Sciences* 106(25): 10,109-10,113 (**IF 9.41**)
11. Wang, S., C. Liu, **K.M. Yeager**, G. Wan, J. Li, F. Tao, Y. Lu, F. Liu, C. Fan, 2009. The spatial distribution and emission of nitrous oxide (N₂O) in a large eutrophic lake in eastern China: Anthropogenic effects. *Science of the Total Environment* 407: 3,330-3,337 (**IF 6.55**)
10. **Yeager, K.M.**, P.H. Santschi, H. Rifai, M. Suarez, R. Brinkmeyer, C.C. Hung, K.J. Schindler, M.J. Andres, E.A. Weaver, 2007. Dioxin chronology and fluxes in sediments of the Houston Ship Channel, Texas: Influences of non-steady state sediment transport and total organic carbon. *Environmental Science and Technology* 41(15): 5,291-5,298 (**IF 7.86**)
9. Hung, C.C., G. Gwo-Ching, J. Kuotung, **K.M. Yeager**, P.H. Santschi, T.L. Wade, J.L. Sericano, 2006. Relationship between carbonaceous materials and polychlorinated biphenyls (PCBs) in the sediments of the Danshui River and adjacent coastal areas, Taiwan. *Chemosphere* 65: 1,452-1,461 (**IF 5.78**)
8. **Yeager, K.M.**, P.H. Santschi, K.J. Schindler, M.J. Andres, E.A. Weaver, 2006. The relative importance of terrestrial versus marine sediment sources to the Nueces-Corpus Christi Estuary, Texas: An isotopic approach. *Estuaries and Coasts* 29(3): 443-459 (IF 2.32)
7. Wan, G.J., J.A. Chen, S.Q. Xu, F.C. Wu, R.G. Huang, **K.M. Yeager**, P.H. Santschi, 2005. Coupling between ²¹⁰Pb_{ex} and organic matter in sediments of Lake Chenghai, China. *Chemical Geology* 224(4): 223-236 (IF 3.36)
6. **Yeager, K.M.**, 2005. On the academic job hunt, is there not a better way? *EOS Transactions: Forum* 86(27): 254

5. **Yeager, K.M.**, P.H. Santschi, J.D. Phillips, B.E. Herbert, 2005. Suspended sediment sources and tributary effects in the lower reaches of a coastal plain stream as indicated by radionuclides, Loco Bayou, Texas. *Environmental Geology* 47(3): 382-395 (IF 1.07)
4. **Yeager, K.M.**, P.H. Santschi, G.T. Rowe, 2004. Sediment accumulation and radionuclide inventories ($^{239,240}\text{Pu}$, ^{210}Pb and ^{234}Th) in the northern Gulf of Mexico, as influenced by organic matter and macrofaunal density. *Marine Chemistry* 91(1-4): 1-14 (IF 2.93)
3. **Yeager, K.M.**, P.H. Santschi, 2003. Invariance of isotope ratios of lithogenic radionuclides: More evidence for their use as sediment source tracers. *J. of Environmental Radioactivity* 69: 159-176 (IF 2.16)
2. **Yeager, K.M.**, P.H. Santschi, J.D. Phillips, B.E. Herbert, 2002. Sources of alluvium in a coastal plain stream based on radionuclide signatures from the ^{238}U and ^{232}Th decay series. *Water Resources Research* 38(11): 24-1-24-11 (IF 4.14)
1. **Yeager, K.M.**, 1996. Fossil fishes (Arthrodira and Acanthodida) from the upper Devonian Chadakoin Formation of Erie County, Pennsylvania. *Ohio J. of Science* 96(3): 52-56 (IF 1.00)

RESEARCH GRANTS AND CONTRACTS (†Peer reviewed; ‡Non-peer reviewed)

In Review

1. †U.S. National Science Foundation – Frontier Research in Earth Sciences (FRES) Program (\$2,999,977; 2021-2026), A. Summers-Engel, **K.M. Yeager**, B.J. Roberts, M. Bowles, D. Justic, H. Huang, G. Mariotti, C. Schutte: Collaborative Research: Methane dynamics across microbe-to-landscape scales in coastal wetlands

Current – \$1.90M

38. †Society of Exploration Geophysicists Foundation – Geoscientists without Borders Program (\$73,000; 2021-2023), M.M. McGlue, **K.M. Yeager**, M. Soreghan, C. Zytkow, B. Taylor: Geophysical habitat mapping for fisheries conservation at Nsumbu Tanganyika (Zambia)
37. †U.S. Army Corp of Engineers - U.S. Army Engineer Research and Development Center BAA) – (\$7,207,343; 2020-2024), J.R. Hendon, M. Andres, K. Cambazoglu, B. Connon, A. Hiroji, S. Milroy, M. Peterson, E. Powell, C. Rakocinski, J. Wiggert: Experimental oyster leases as a platform for demonstrating effective restoration practices and assessing influence on Gulf Sturgeon habitat (\$339,977 sub-contract to **K.M. Yeager**)
36. †U.S. National Science Foundation – Tectonics Program (\$580,146; 2020-2023), J.R. Thigpen, **K.M. Yeager**, M.M. McGlue, E.W. Woolery: Cataclysmic erasure of mountain topography and major unrealized seismic hazards in the northern Basin and Range
35. †Ministry of the Environment and Climate Change, Ontario, Canada (\$560,000; 2019-2024), **K.M. Yeager**: Dated core analysis in the English-Wabigoon River system, Ontario, Canada – Grassy Narrows First Nation
34. †RESTORE Act Center of Excellence for Louisiana (\$349,174; 2017-2021), M.A. Kulp, **K.M. Yeager**, N.H. Dawers, R. Zhang, D.B. Culpepper: An evaluation of faulting in

Holocene Mississippi River delta strata through the merger of deep 3-D and 2-D seismic data with near surface imaging and measurements of vertical motion at three study areas

Previous Awards – \$4.86M

33. †Government Trustees Restoring the Gulf – Deepwater Horizon Oil Spill Texas Trustees Restoration Plan for Texas Gulf Coast – Essex Bayou Habitat Restoration Engineering, Galveston Bay System (\$372,000; 2018-2020), R. Feagin (\$49,000 sub-contract to **K.M. Yeager**)
32. †Ministry of the Environment and Climate Change, Ontario, Canada (\$205,320; 2017-2020), **K.M. Yeager**: Transport and fate of mercury (Hg) in the English-Wabigoon River system, Ontario, Canada – Grassy Narrows First Nation
31. †Wood Group (\$405,986; 2017-2020), **K.M. Yeager**: Supplemental spatial analysis of sedimentary mercury (Hg) distribution in the lower Penobscot River basin, ME – Informing system-wide remedial design and implementation
30. †U.S. Office of Surface Mining, Reclamation and Enforcement – Applied Science Program (\$195,490; 2016-2018), C.D. Barton, **K.M. Yeager**, T. Williamson, C. Agouridis: Evaluating the influence of the forestry reclamation approach on water quality and hydrology on Appalachian coal mines
29. †National Geographic Society (\$19,000; 2016-2017), M.M. McGlue, **K.M. Yeager**, A. Silva, E. Lo: Climate change, human impacts, and wetland responses over the past 12,000 years – A new exploration of the Pantanal
28. †U.S. Office of Surface Mining, Reclamation and Enforcement – Applied Science Program (\$174,765; 2015-2017), J.M. Lhotka, C.D. Barton, J.W. Stringer: Effect of grading technique on forest productivity of high-value tree species in reforested surface mine lands (\$20,060 sub-contract to **K.M. Yeager**)
27. †Society of Exploration Geophysicists Foundation – Geoscientists without Borders Program (\$100,000; 2014-2017), M.M. McGlue, **K.M. Yeager**, C. Apse, P. McIntyre, I. Kimirei: Benthic habitat mapping for humanity – Using geophysics to improve conservation of littoral fisheries at Lake Tanganyika (Tanzania)
26. †U.S. National Science Foundation – RAPID Program (\$49,999; 2015-2017), M.M. McGlue, **K.M. Yeager**: How does environmental change influence landscape evolution in the Pantanal wetlands (Brazil)?
25. †U.S. Department of Agriculture – Forest Service (\$313,117; 2013-2016), C.D. Barton, D.E. Fletcher: Assessment of structure, function and stability in a gradient of disturbed Savannah River Site streams – Phase III (\$14,000 sub-contract to **K.M. Yeager**)
24. †Gulf of Mexico Research Initiative (\$841,693; 2013-2015), B.E. Rosenheim: Consortium for advanced research on transport of hydrocarbons in the environment (CARTHE) (\$8,000 sub-contract to **K.M. Yeager**)

23. †U.S. National Oceanic and Atmospheric Administration (\$681,464; 2011-2013), **K.M. Yeager**, C.A. Brunner, V. Asper, K.B. Briggs: Responses of benthic communities and sedimentary dynamics to hydrocarbon exposure in neritic and bathyal ecosystems: Phase II
22. †U.S. Bureau of Ocean Energy Management, Regulation and Enforcement – Coastal Impact Assistance Program (\$250,000; 2010-2015), A.M. Shiller, **K.M. Yeager**: Sediment-associated pollutants and water quality in St. Louis Bay, MS
21. †U.S. National Oceanic and Atmospheric Administration/National Marine Fisheries Service (\$1,054,268; 2010-2013), L. Yager, A. Rohnke, M.S. Peterson: Identifying feeding habitat for and movement of the juvenile/sub-adult cohort of the Gulf Sturgeon, *Acipenser oxyrinchus desotoi*, in the Pascagoula River estuary, MS (\$49,950 sub-contract to **K.M. Yeager**)
20. †Mississippi Department of Marine Resources – Tidelands Trust Fund Program (\$80,000; 2010-2012), **K.M. Yeager**: Mississippi coastal marshes: Sediment supply, compaction and erosion
19. †U.S. National Science Foundation – RAPID Program (\$139,999; 2010-2012), **K.M. Yeager**, C.A. Brunner, L. Guo, K.B. Briggs: Deepwater Horizon Oil Spill: Responses of benthic communities and sedimentary dynamics to hydrocarbon exposure in coastal ecosystems of the northern Gulf of Mexico. *Research Experiences for Undergraduates – REU supplement (\$7,875) awarded 2011
18. †U.S. National Oceanic and Atmospheric Administration (\$98,996; 2010-2011), **K.M. Yeager**, C.A. Brunner, V.L. Asper, K.B. Briggs: Responses of benthic communities and sedimentary dynamics to hydrocarbon exposure in neritic and bathyal ecosystems
17. †Ramboll Environ: Penobscot River Mercury Study – Analytical Program (\$480,750; 2009-2013), **K.M. Yeager**: Accumulation, natural attenuation and speciation of Hg in the lower Penobscot River basin, ME
16. †U.S. National Science Foundation – Geomorphology and Land Use Dynamics Program (\$315,098; 2009-2013), **K.M. Yeager**, R.A. Feagin, C.A. Brunner: Collaborative Research: Eco-geomorphic coupling: Vegetation transition and sedimentary responses to faulting
15. †Mississippi-Alabama Sea Grant Consortium – Coastal Storms Program: Community Risk and Resiliency (\$99,961; 2009-2012), W. Wu, **K.M. Yeager**, D. Holland: The impact of accelerated sea level rise on tidal marshes and storm surge
14. †U.S. Department of Defense – Naval Research Laboratory: Battlespace Environments Program (\$1,215,000; 2009-2012), K.B. Briggs, C. Vaughan: Hypoxia effects on processes in muddy sediments in the northern Gulf of Mexico, (\$50,000 sub-contract to **K.M. Yeager**)
13. †Ramboll Environ: Penobscot River Mercury Study – Field Program (\$158,961; 2009-2010), **K.M. Yeager**: Accumulation, natural attenuation, and speciation of Hg in the lower Penobscot River basin, ME

12. †U.S. Department of Energy: National Institute for Climatic Change Research (\$60,000; 2008-2010), R.A. Feagin, **K.M. Yeager**: Vegetation transition and sedimentary responses to fault-induced sea level rise
11. †U.S. National Oceanic and Atmospheric Administration/U.S. Geological Survey: Coastal Restoration and Enhancement through Science and Technology Program (\$148,410; 2007-2010), **K.M. Yeager**, C.A. Brunner, M.A. Kulp: Assessing tectonic and associated drivers of subsidence and consequent impacts on coastal marshlands: The Pearl River marsh, LA
10. †Texas Commission on Environmental Quality (\$125,295; 2007-2010), R. Brinkmeyer, **K.M. Yeager**: Impacts of dredging activities on the fate of dioxin in the Houston Ship Channel and evaluation of natural remediation processes
9. ‡U.S. Naval Research Laboratory (\$2,024; 2007), **K.M. Yeager**, K. Dillon: Florida near-shore marine sediment radiochemical and elemental analyses
8. †Texas Sea Grant Program (\$250,505; 2006-2009), P.H. Santschi, **K.M. Yeager**, R. Brinkmeyer: Factors regulating microbial degradation of dioxins and dioxin-like compounds in estuarine sediments: The Houston Ship Channel and Galveston Bay, TX
7. †Texas General Land Office, Coastal Management Program (\$49,999; 2006-2008), **K.M. Yeager**, P.H. Santschi, R. Brinkmeyer: Stage I: A preliminary evaluation of the impacts of dredging activities on the fate of dioxin in the Houston Ship Channel, TX
6. †Texas General Land Office, Coastal Management Program (\$60,150; 2006-2008), R.A. Feagin: Marsh accretion rates at restored and natural sites in Galveston Bay: Will sea-level rise drown them? (\$7,000 sub-contract to **K.M. Yeager**)
5. †Texas General Land Office, Coastal Management Program (\$49,901; 2005-2006), **K.M. Yeager**, P.H. Santschi: Quantification of sediment sources of the Nueces-Corpus Christi Estuary system
4. †U.S. National Science Foundation – Chemical Oceanography Program (\$20,388; 2005), P.H. Santschi, **K.M. Yeager**: Acquisition of additional radio-analytical capabilities, Texas A&M University at Galveston’s Laboratory for Oceanographic and Environmental Research and Coastal Zone Laboratory
3. †Texas Commission on Environmental Quality, TMDL Program (\$125,000; 2004-2005), P.H. Santschi, **K.M. Yeager**: Addressing the legacy question for dioxins in the Houston Ship Channel and upper Galveston Bay, TX
2. ‡Anchor Environmental, LLC – (\$50,500; 2004-2005), P.H. Santschi, **K.M. Yeager**: Radiochemical sample analysis for the Portland Harbor superfund site, round II
1. †Texas Water Development Board (\$37,279; 2003-2004), P.H. Santschi, **K.M. Yeager**: Quantifying terrestrial vs. marine sources of sediment to a managed fluvial, deltaic and estuarine system: Nueces-Corpus Christi Estuary, TX

As Graduate Student

Texas Water Resource Institute (\$5,000, 2001) – Gulf Coast Association of Geological Societies (\$1,000, 2000) – Geological Society of America (\$2,000, 1999) – U.S. Department of Agriculture-Forestry Service (\$15,000, 1999)

PROFESSIONAL MEETING ABSTRACTS (current/former students)

93. **Yeager, K.M.**, 2021. Dated core analysis of Hg in the English-Wabigoon River, Ontario, Canada – Grassy Narrows First Nation – Phase I. Wabigoon Rivers Remediation Panel, Ontario, Canada, Jun. 23, online only (COVID-19) (*invited*)
92. Whitehead, S., **K.M. Yeager**, R.A. Feagin, T.P. Huff, K.J. Schindler, T.S. Dixon, J.C. Simanek, 2021. Fluxes and inventories of particulate organic carbon in a rapidly evolving growth-faulted coastal wetland. Coastal and Estuarine Research Federation Biennial Conference, Nov. 1-4 and 8-11, online only (COVID-19)
91. Feagin, R.A., T.P. Huff, K. Hartke, **K.M. Yeager**, S. Whitehead, 2021. Can sea level rise help us restore coastal wetlands? The hydrologic restoration of the Slop Bowl, Texas. American Shore and Beach Preservation Association, National Coastal Conference, Sep. 28 – Oct. 1, New Orleans LA
90. **Yeager, K.M.**, 2021. Dated core analysis of Hg in the English-Wabigoon River, Ontario, Canada – Grassy Narrows First Nation – Phase I. Wabigoon Rivers Remediation Trust – Technical Science Panel, Ontario, Canada, Mar. 24, online only (COVID-19) (*invited*)
89. Johnson, H., M. McGlue, J.R. Thigpen, E. Woolery, **K.M. Yeager**, S. Brown, 2021. High-resolution CHIRP seismic reflection profiling of Jackson Lake (Grand Teton National Park, Wyoming). Geological Society of America Southeastern Section Meeting, Apr. 1-2, online only (COVID-19)
88. Barton, C.D., T.N. Williamson, C.T. Agouridis, **K.M. Yeager**, W.E. Bond, M. Gerlitz, 2020. Evaluating the influence of the forestry reclamation approach on hydrology on Appalachian coal mines. American Society of Mining and Reclamation Annual Meeting, Jun. 7-11, Duluth, MN
87. Behm, M., M.H. Williams, M.M. McGlue, **K.M. Yeager**, M.J. Soreghan, 2019. Seismic interpretation of nearshore sedimentation variation in relation to land use: Lake Tanganyika, Africa. American Geophysical Union Annual Meeting, Dec. 9-13, San Francisco, CA
86. Sena, K., **K.M. Yeager**, J. Lhotka, C. Barton, 2019. Development of mine soils in a chronosequence of FRA-reclaimed sites in eastern Kentucky. Appalachian Regional Reforestation Initiative Annual Meeting, Jul. 24-25, Cambridge, OH
85. Sena, K., **K.M. Yeager**, J. Lhotka, C. Barton, 2019. Development of mine soils in a chronosequence of FRA-reclaimed sites in eastern Kentucky. American Society of Mining and Reclamation Annual Meeting, Jun. 3-7, Big Sky, MT

84. **Yeager, K.M., R. Smiley**, M. Soreghan, I.A. Kimirei, M.M. McGlue, 2019. Detecting spatial variability in sediment accumulation rates at the Tuungane Project co-management site at northern Mahale (Lake Tanganyika, Tanzania) using ^{210}Pb . Geological Society of America Southeastern Section Meeting, Mar. 28-29, Charleston, SC
83. **Schindler, K.J., K.M. Yeager**, 2019. Relationships of Gulf of Mexico seafloor characteristics with petroleum hydrocarbons following the Deepwater Horizon oil spill. Geological Society of America Southeastern Section Meeting, Mar. 28-29, Charleston, SC
82. **Lo, E.L., K.M. Yeager**, I. Bergier, A. Silva, M.M. McGlue, 2019. Lake infill and its effects on water resources and lake terrestrialization in the South American lowlands. Geological Society of America Southeastern Section Meeting, Mar. 28-29, Charleston, SC
81. **Bond, W., K.M. Yeager**, C.D. Barton, **R. Smiley, K.J. Schindler**, 2019. The forestry reclamation approach: Measuring sediment mass accumulation rates in reclaimed mine lands and naturally regenerated logged forests of eastern Kentucky. Geological Society of America Southeastern Section Meeting, Mar. 28-29, Charleston, SC
80. Kulp, M.A., N. Dawers, R. Zhang, **K.M. Yeager**, J. Lopez, M. Hopkins, D. Culpepper, E. McDade, 2019. An evaluation of faulting in Holocene Mississippi River delta strata through the merger of deep 3-D and 2-D seismic data with near surface imaging and measurements of vertical motion. Gulf of Mexico Oil Spill and Ecosystem Conference, Feb. 4-7, New Orleans, LA
79. McGlue, M.M., J.S. Lucas, **K.M. Yeager**, M.J. Soreghan, I.A. Kimirei, A.S. Mbonde, C. Apse, P. Limbu, 2018. Conservation Limnogeology at Lake Tanganyika: New results from the Tuungane Project co-management area at northern Mahale (Tanzania). Geological Society of American National Meeting, Nov. 4-7, Indianapolis, IN
78. Buongiorno, J., A. Szykiewicz, A. Faiia, **K.M. Yeager, K.J. Schindler**, K. Lloyd, 2017. Environmental drivers of microbial abundance and composition in Arctic sediments, Kongsfjorden and Van Keulenfjorden, Svalbard (79°N): Evidence from stable and radioactive isotopes. American Geophysical Union National Meeting, Dec. 11-15, New Orleans, LA
77. Briggs, K.B., C.A. Brunner, **K.M. Yeager**, 2017. Deep-sea macrobenthos community structure proximal to the 2010 Macondo well blowout (2010-2011). American Geophysical Union National Meeting, Dec. 11-15, New Orleans, LA
76. **Smiley, R.**, M.M. McGlue, **K.M. Yeager**, M.J. Soreghan, J.L. Lucas, I.A. Kimirei, A.S. Mbonde, P. Limbu, C. Apse, 2017. Preliminary nearshore sedimentation rate analysis of the Tuungane Project Northern Mahale Conservation Area, Lake Tanganyika (Tanzania). American Geophysical Union National Meeting, Dec. 11-15, New Orleans, LA
75. **Lo, E.L.**, M.M. McGlue, A. Silva, I. Bergier, **K.M. Yeager**, M. O'Dell, H.A. Macedo, 2017. The Limnogeology of Lake Uberaba: Fluvio-lacustrine sedimentary processes along the distal Paraguay megafan (Pantanal wetlands, Brazil). Geological Society of America National Meeting, Oct. 22-25, Seattle, WA

74. McGlue, M.M., J. Lucas, **K.M. Yeager**, R. Smiley, I. Kimirei, A. Mbonde, M. Soreghan, J. Busch, P. McIntyre, C. Apse, P. Limbu, D. Kelly, 2017. A limnogeological toolkit for benthic habitat mapping and fisheries conservation at Lake Tanganyika (East Africa). African Great Lakes Conference, May 2-5, Entebbe, Republic of Uganda
73. Eddy, J., **K.M. Yeager**, C.D. Barton, J.D. Phillips, 2016. Hydrologic connectivity and land use effects on sediment accumulation on stream floodplains of the Savannah River Site, South Carolina. American Geophysical Union National Meeting, Dec. 12-16, San Francisco, CA
72. Ji, W., **K.M. Yeager**, C.J. Matocha, R.A. Feagin, 2016. Short-term surface elevation variations at Matagorda Peninsula, Texas: A response produced by shrink and swell clays? American Geophysical Union National Meeting, Dec. 12-16, San Francisco, CA
71. Lo, E.L., M.M. McGlue, **K.M. Yeager**, A. Silva, I. Bergier, H.A. Macedo, M. O'Dell, 2016. Preliminary insights on the limnogeology of Lagoa Uberaba, the Pantanal's largest lake. American Geophysical Union National Meeting, Dec. 12-16, San Francisco, CA
70. Freeman, R.L., S. Bemis, F.R. Ettensohn, A. Fryar, P. Idstein, **K.M. Yeager**, 2016. A departmental open house for increased engagement and recruiting of general education geoscience students. Earth Educator's Rendezvous, Jul. 18-22, University of Wisconsin, Madison, WI
69. Rosenheim, B.E., M.A. Pendergraft, B. Walker, E. Druffel, Z. Liu, M. Evans, J. Chanton, D. Hollander, **K.M. Yeager**, K. Maiti, P. Adhikari, J. Kolasinski, 2016. Overview of oil and degradation product fate from land, the seafloor, and the water column using advanced ¹⁴C analysis of organic material. Gulf of Mexico Research Initiative, Gulf of Mexico Oil Spill and Ecosystem Science Conference, Feb. 1-4, Tampa, FL
68. Peterman, C.L., P.W. Baldwin, J.S. Lucas, M.M. McGlue, **K.M. Yeager**, 2015. Detrital paleorecords from Lake Tanganyika: A preliminary examination of horst and platform environments. Geological Society of America National Meeting, Nov. 1-4, Baltimore, MD
67. Feagin, R.A., R.W. Kulawardhana, A.L. Hinson, S.C. Popescu, T.S. Bianchi, **K.M. Yeager**, R.G. Najjar, K.D. Kroeger, L. Windham-Myers, 2015. Spatial quantification of blue carbon at landscape and continental scales. Waquoit Bay National Estuarine Research Reserve (NERR) Conference on Capitalizing on Coastal Blue Carbon, May 12-13, Brockton, MA
66. Feagin, R.A., R.W. Kulawardhana, A.L. Hinson, S.C. Popescu, T.S. Bianchi, **K.M. Yeager**, K.D. Kroeger, L. Windham-Myers, 2015. Spatial quantification of blue carbon at landscape and continental scales. NASA Carbon Cycle and Ecosystems Joint Science Workshop, Apr. 20-24, College Park, MD
65. Rosenheim, B.E., M.A. Pendergraft, J. Kolasinski, **K.M. Yeager**, K. Maiti, Z. Liu, K.J. Schindler, 2015. Transformation of oil in sediments constrained using advanced ¹⁴C analysis. Gulf of Mexico Research Initiative, Gulf of Mexico Oil Spill and Ecosystem Science Conference, Feb. 16-19, Houston, TX

64. Chanton, J., B.E. Rosenheim, S. Joye, D. Hollander, **K.M. Yeager**, R. Wilson, S. Bosman, C.A. Brunner, 2015. Radiocarbon tracing of the flux of petrocarbon to the sea floor and coastal foodweb associated with the Deepwater Horizon event. Gulf of Mexico Research Initiative, Gulf of Mexico Oil Spill and Ecosystem Science Conference, Feb. 16-19, Houston, TX
63. Feagin, R.A., R.W. Kulawardhana, A.L. Hinson, S.C. Popescu, T.S. Bianchi, **K.M. Yeager**, R.G. Najjar, K.D. Kroeger, L. Windham-Myers, 2015. Spatial quantification of blue carbon at landscape and continental scales: Work at the Coastal Ecology and Management Lab. North American Carbon Program Conference, Jan. 26-29, Washington, D.C.
62. Brunner, C.A., **K.M. Yeager**, R.A. Feagin, 2014. Foraminiferal evidence for sediment deformation caused by late Holocene faulting in a backbarrier lagoon, Matagorda, Texas, USA. American Geophysical Union National Meeting, Dec. 15-19, San Francisco, CA
61. Woodruff, O., **K.M. Yeager**, T. Wade, P. Louchouart, S. Bonner, M. Rutledge, 2014. Temporal and spatial characterization of Macondo 252 signatures in Gulf of Mexico shelf and slope sediments: Evidence for weathering, biodegradation, and transport. American Geophysical Union National Meeting, Dec. 15-19, San Francisco, CA
60. Hixson, J., J. Stone, **K.M. Yeager**, K.J. Schindler, 2014. Eutrophication tracking through inter-connected kettle lakes in agricultural Indiana. Geological Society of America National Meeting, Oct. 19-22, Vancouver, B.C., Canada
59. Wu, W., **K.M. Yeager**, M.S. Peterson, R. Fulford, 2014. Neutral models as a way to evaluate the Sea Level Affecting Marshes Model (SLAMM). U.S. Regional Association of the International Association for Landscape Ecology (US-IALE) Meeting, May 18-22, Anchorage, AK
58. Cruz, V.J., C.A. Brunner, **K.M. Yeager**, K.B. Briggs, P. Louchouart, 2014. Assemblage comparisons of living benthic foraminifera within bathyal oiled and un-oiled sites of the northeastern Gulf of Mexico. Mississippi Academy of Sciences 78th Annual Meeting, Mar. 6-7, Hattiesburg, MS
57. Peterson, M.S., J.M. Havrylkoff, P.O. Grammer, P.F. Mickle, W.T. Slack, **K.M. Yeager**, 2014. Do macrobenthic prey and physical habitat characteristics explain differential estuarine critical habitat use patterns in a western Gulf Sturgeon population? Southern Division of the American Fisheries Society Spring Meeting, Jan. 22-26, Charleston, SC
56. Hatch, R.S., **K.M. Yeager**, C.A. Brunner, T.L. Wade, K.B. Briggs, K.J. Schindler, 2013. Salt marsh sediment mixing following petroleum hydrocarbon exposure from the Deepwater Horizon oil spill. American Geophysical Union National Meeting, Dec. 9-13, San Francisco, CA
55. Wolfe, P.C., **K.M. Yeager**, R.A. Feagin, C.A. Brunner, K.J. Schindler, 2013. Characterizing sedimentary responses to coastal faulting using high-resolution geochronology and sedimentology: East Matagorda Peninsula, Texas. American Geophysical Union National Meeting, Dec. 9-13, San Francisco, CA

54. Bera, G., A.M. Shiller, **K.M. Yeager**, 2013. The delivery, speciation and fate of trace elements in a shallow estuarine system, St. Louis Bay, Mississippi, USA. Coastal and Estuarine Research Federation 22nd Biennial Conference, Nov. 3-7, San Diego, CA
53. Feagin, R.A., **K.M. Yeager**, C.A. Brunner, J.G. Paine, 2013. Active fault motion in a coastal wetland: Matagorda, Texas. Binghamton Geomorphology Symposium, Oct. 18-20, Newark, NJ
52. Prosser, S.A., **K.M. Yeager**, K.J. Schindler, 2013. Fluvial response to growth faulting in the Pearl River delta, Louisiana. American Association of Petroleum Geologists Rocky Mountain Rendezvous, Sept. 27-30, Laramie, WY
51. Wolfe, P.C., **K.M. Yeager**, R.A. Feagin, C.A. Brunner, K.J. Schindler, 2013. Holocene sedimentary responses to growth faulting in a back-barrier setting: East Matagorda Peninsula, Texas, USA. American Association of Petroleum Geologists – Society of Exploration Geophysicists Student Expo, Sept. 16-17, Houston, TX
50. Peterson, M.S., J.M. Havrylkoff, P.O. Grammer, P.F. Mickle, W.T. Slack, **K.M. Yeager**, 2013. Macro-benthic prey and physical habitat characteristics in a western Gulf Sturgeon population: Differential estuarine habitat use patterns. American Fisheries Society 143rd Annual Meeting, Sept. 8-12, Little Rock, AR
49. Bera, G., A.M. Shiller, M.J. Shim, **K.M. Yeager**, 2013. The delivery, speciation and fate of trace metals in a shallow estuarine system, St. Louis Bay, Mississippi, USA. 12th International Estuarine Biogeochemistry Symposium, Jun. 30-Jul. 4, Plymouth University, Plymouth, UK
48. Briggs, K.B., S. Shivarudrappa, C.A. Brunner, **K.M. Yeager**, 2013. Macrobenthic community response to PAH exposure near the Deepwater Horizon oil spill, USA. 42nd Annual Benthic Ecology Meeting, Mar. 20-24, Georgia Southern University, Savannah, GA
47. Cruz, V.J., C.A. Brunner, **K.M. Yeager**, K.B. Briggs, P. Louchouart, 2013. Bathyal assemblages of live benthic foraminifera near the Deepwater Horizon oil spill, northern Gulf of Mexico. Geological Society of America Southeastern Section Meeting, Mar. 20-21, San Juan, Puerto Rico
46. Bera, G., A.M. Shiller, M.J. Shim, **K.M. Yeager**, 2013. Anthropogenic stable Cesium in water and sediment of a shallow estuary, St. Louis Bay. Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting, Feb. 17-22, New Orleans, LA
45. Cruz, V.J., C.A. Brunner, **K.M. Yeager**, K.B. Briggs, P. Louchouart, 2013. Bathyal assemblages of live, benthic foraminifera near the Deepwater Horizon oil spill, northern Gulf of Mexico. Gulf of Mexico Research Initiative, Gulf of Mexico Oil Spill and Ecosystem Science Conference, Jan. 21-23, New Orleans, LA
44. Brunner, C.A., **K.M. Yeager**, K.B. Briggs, J. Keim, P. Louchouart, R.S. Hatch, K.J. Schindler, 2013. Effect of oil contamination on infauna of Louisiana and Mississippi marshes with implications for marsh functioning. Gulf of Mexico Research Initiative, Gulf

- of Mexico Oil Spill and Ecosystem Science Conference, Jan. 21-23, New Orleans, LA
43. Brunner, C.A., **K.M. Yeager**, K.B. Briggs, J. Keim, P. Louchouart, R.S. Hatch, K.J. Schindler, 2012. Effect of oil contamination on infauna of Louisiana and Mississippi marshes with implications for marsh functioning. American Geophysical Union National Meeting, Dec. 3-7, San Francisco, CA
 42. Brunner, C.A., J. Keim, **K.M. Yeager**, K.B. Briggs, P. Louchouart, 2012. The effects of oil from the Macondo blowout on infaunal foraminifera of Louisiana and Mississippi marshes. Mississippi-Alabama Sea Grant Consortium – Bays and Bayous Symposium, Nov. 14-15, Biloxi, MS
 41. Cruz, V.J., C.A. Brunner, **K.M. Yeager**, K.B. Briggs, P. Louchouart, 2012. Bathyal assemblages of live benthic foraminifera near the Deepwater Horizon oil spill, northern Gulf of Mexico. *Geological Society of America Abstracts with Program* 44(7): 583
 40. Brunner, C.A., J. Keim, **K.M. Yeager**, K.B. Briggs, P. Louchouart, 2012. Effect of oil from the Macondo blowout on infaunal foraminifera of Louisiana and Mississippi marshes. *Geological Society of America Abstracts with Program* 44(7): 522
 39. Bera, G., A.M. Shiller, **K.M. Yeager**, 2012. Trace metal and dioxin deposition history in Hurricane Katrina impacted marsh sediment. American Academy of Sciences International Conference on Environmental Science and Technology, Jun. 25-29, Houston, TX
 38. Brunner, C.A., K.B. Briggs, V. Cruz, P. Louchouart, **K.M. Yeager**, 2012. Responses of benthic communities to hydrocarbon exposure in bathyal sediments surrounding the Macondo well-head. Northern Gulf Institute Annual Conference, May 23-24, Stennis Space Center, MS
 37. Shiller, A.M., D. Joung, T.L. Wade, J.L. Sericano, S.T. Sweet, **K.M. Yeager**, C.A. Brunner, P. Louchouart, 2012. Deepwater Horizon polycyclic aromatic hydrocarbon distribution and modification from wellhead to coastal marshes. American Geophysical Union Ocean Sciences Meeting, Feb. 20-24, Salt Lake City, UT
 36. Williams, F.M., C.A. Brunner, **K.M. Yeager**, 2012. Lithostratigraphy of a Holocene transgressive barrier island near Spring Bayou, East Matagorda Bay, TX. *J. Mississippi Academy of Sciences* 57(1): 122
 35. Bera, G., A.M. Shiller, **K.M. Yeager**, 2012. The delivery, speciation and fate of toxic metals in St. Louis Bay, MS. *J. Mississippi Academy of Sciences* 57(1): 119
 34. Shiller, A.M., D. Joung, T.L. Wade, J.L. Sericano, S.T. Sweet, **K.M. Yeager**, C.A. Brunner, P. Louchouart, 2011. Polycyclic aromatic hydrocarbon, trace element, and nutrient distributions as affected by the Deepwater Horizon oil spill. Deepwater Horizon Oil Spill PI Conference – National Science and Technology Council Sub-Committee on Ocean Science and Technology, Oct. 25-26, St. Petersburg, FL
 33. Feagin, R.A., **K.M. Yeager**, C.A. Brunner, 2011. Fault-driven sea level rise, accretion, and land loss in a barrier island salt marsh. Coastal and Estuarine Research Federation Annual Conference, Societies, Estuaries and Coasts: Adapting to Change, Nov. 6-10, Daytona

Beach, FL

32. Colón-Rivera, R.J., R.A. Feagin, J.B. West, **K.M. Yeager**, 2011. Hydrological connectivity in salt marsh ponds: Multiple methods including gauges, water isotopes, and LIDAR elevation models. Isoscapes 2011, Sept. 26-27, Purdue University, West Lafayette, IN
31. **Yeager, K.M.**, C.A. Brunner, K.B. Briggs, P. Louchouart, L. Guo, V.L. Asper, T.L. Wade, J.L. Sericano, K.J. Schindler, K.M. Martin, J. Prouhet, N. Couey, C. Fortner, J. Loeffler, L. Dedeaux, 2011. Deepwater Horizon: Marsh margin to deep ocean sedimentary impacts. Northern Gulf Institute Annual Conference, May 17-19, Mobile, AL (*invited*)
30. Milroy, S.P., A.M. Moshogianis, C.A. Brunner, S. Howden, **K.M. Yeager**, 2011. Polycyclic aromatic hydrocarbon (PAH) contamination within Mississippi Sound Biota: Preliminary analyses of bioaccumulation, depuration, and likely routes of exposure. Northern Gulf Institute Annual Conference, May 17-19, Mobile, AL
29. Lohrenz, S., K. Gundersen, L. Guo, A.M. Shiller, S. Howden, K.B. Briggs, C.A. Brunner, V.L. Asper, S. Milroy, **K.M. Yeager**, 2011. A comprehensive assessment of oil distribution, transport, fate and impacts on ecosystems and the Deepwater Horizon oil release. Northern Gulf Institute Annual Conference, May 17-19, Mobile, AL
28. **Yeager, K.M.**, C.A. Brunner, K.B. Briggs, P. Louchouart, L. Guo, V.L. Asper, K.J. Schindler, K.M. Martin, J. Prouhet, N. Couey, C. Fortner, 2011. Deepwater Horizon: Coastal ocean to marsh margin sedimentary impacts. American Association of Petroleum Geologists Annual Convention and Exhibition, Apr. 10-13, Houston, TX
27. Louchouart, P., **K.M. Yeager**, C.A. Brunner, K.B. Briggs, L. Guo, V.L. Asper, Z. Zhou, K.J. Schindler, K.M. Martin, J. Prouhet, J. Loeffler, N. Couey, C. Fortner, A. Jung, 2011. Deepwater Horizon: Coastal ocean to marsh margin sediment impacts. American Chemical Society National Meeting and Exhibition, Mar. 27-31, Anaheim, CA
26. Loeffler, J.K., C.A. Brunner, L. Dedeaux, **K.M. Yeager**, K.J. Schindler, 2011. Intertidal foraminifera of the Mississippi and Chandeleur Sounds: Effect of Deepwater Horizon oil spill obscured by erosion. *Geological Society of America Abstracts with Programs* 43(3): 12
25. Feagin, R.A., R.J. Colón-Rivera, J.B. West, **K.M. Yeager**, 2011. Hydrological connectivity in salt marsh ponds: Multiple methods including tidal gauges, water isotopes, and LIDAR elevation models. American Society of Limnology and Oceanography Aquatic Sciences Meeting, Feb. 13-18, San Juan, Puerto Rico
24. **Yeager, K.M.**, C.A. Brunner, L. Guo, P. Louchouart, K.B. Briggs, 2010. NSF RAPID and NGI-BP: Response of benthic communities and sedimentary dynamics to hydrocarbon exposure in intertidal, neritic and bathyal ecosystems of the northern Gulf of Mexico. U.S. National Science Foundation: Collaborative Scientific Research Opportunities Relative to the Gulf Oil Spill, Nov. 1-2, New Orleans, LA (*invited*)
23. **Yeager, K.M.**, P. Louchouart, R. Brinkmeyer, P.H. Santschi, K.J. Schindler, 2010. Reconstructing historical dioxin contamination in the Houston Ship Channel and Galveston Bay, Texas by sediment radiodating. 30th International Symposium on

- Halogenated Persistent Organic Pollutants, Sept. 12-17, San Antonio, TX
22. Brinkmeyer, R., A.S.C. Hieke-Rambo, S. Zhang, C. Xu, K.J. Schindler, P. Louchouart, **K.M. Yeager**, P.H. Santschi, 2010. Factors influencing microbial degradation of dioxins in the Houston Ship Channel and Galveston Bay, Texas. 30th International Symposium on Halogenated Persistent Organic Pollutants, Sept. 12-17, San Antonio, TX
 21. Louchouart, P., S. Seward, R. Brinkmeyer, G. Cornelissen, **K.M. Yeager**, P.H. Santschi, 2010. Role of black carbon and amorphous organic carbon on the partitioning of dioxin and other hydrophobic organic contaminants in sediments of the San Jacinto super fund site, Houston Ship Channel. 30th International Symposium on Halogenated Persistent Organic Pollutants, Sept. 12-17, San Antonio, TX
 20. **Yeager, K.M.**, R.A. Feagin, C.A. Brunner, M.A. Kulp, K.J. Schindler, J. Prouhet, D. Fischer, J.M. Johnson, 2010. Significance of active growth faulting on northern Gulf of Mexico coastal marsh accretion processes. *Eos Transactions*, AGU 91(26), Meeting of the Americas Supplemental
 19. Prouhet, J., **K.M. Yeager**, C.A. Brunner, M.A. Kulp, K.J. Schindler, B. Penrose, 2010. Auto-compaction rates across a suspected growth fault, Pearl River marsh, LA, USA. *Eos Transactions*, AGU 91(26), Meeting of the Americas Supplemental
 18. Prouhet, J., **K.M. Yeager**, C.A. Brunner, M.A. Kulp, K.J. Schindler, 2010. Quantifying auto-compaction of the Pearl River marsh, LA. American Association of Petroleum Geologists Meeting, Apr. 11-14, New Orleans, LA
 17. Briggs, K.B., **K.M. Yeager**, V. Hartmann, S. Shivarudrappa, 2010. Sedimentary history and biogenic mixing at sites affected by seasonal hypoxia in the Gulf of Mexico. American Geophysical Union Ocean Sciences Meeting, Feb. 22-26, Portland, OR
 16. Seward, S., P. Louchouart, R. Brinkmeyer, G. Cornelissen, **K.M. Yeager**, P.H. Santschi, 2009. Black carbon and amorphous organic carbon distribution in sediments of the Houston Ship Channel: Implications for PAH and dioxin speciation and bioavailability. Coastal and Estuarine Research Federation Conference, Nov. 1-5, Portland, OR
 15. Hartmann, V., K.B. Briggs, S. Shivarudrappa, **K.M. Yeager**, R.J. Diaz, 2009. The impact of hypoxia on bioturbation rates in the Louisiana continental shelf, northern Gulf of Mexico. OCEANS 2009 Marine Technology Society/Institute of Electrical and Electronics Engineers Meeting, Oct. 26-29, Biloxi, MS
 14. Prouhet, J., **K.M. Yeager**, 2009. Autocompaction rates of the Holocene stratum of the Pearl River marsh, Louisiana. *Geological Society of America Abstracts with Program* 41(7): 451
 13. Fischer, D., M.A. Kulp, **K.M. Yeager**, C.A. Brunner, 2009. Investigation of neotectonic activity within the shallow, unconsolidated Holocene stratigraphy of the Pearl River delta area, LA. *Gulf Coast Association of Geological Societies Transactions* 59: 279
 12. **Yeager, K.M.**, C.A. Brunner, M.A. Kulp, 2009. Assessing tectonic and associated drivers of subsidence and consequent impacts on coastal marshlands: The Pearl River marsh, LA. U.S. National Oceanic and Atmospheric Administration/U.S. Geological Survey: Coastal

Restoration and Enhancement through Science and Technology Program Annual Meeting, Sept. 16, New Orleans, LA (*invited*)

11. Brinkmeyer, R., P.H. Santschi, A.S.C. Hieke, P. Louchouart, B. Johnson, **K.M. Yeager**, 2009. Factors regulating microbial degradation of dioxins in estuarine sediments: Houston Ship Channel and Galveston Bay, TX. Ninth Biennial State of the Bay Symposium: What is Needed to Sustain Our Estuary?, Jan. 12-14, Galveston, TX
10. Santschi, P.H., **K.M. Yeager**, R. Brinkmeyer, A.S.C. Hieke, P. Louchouart, K.J. Schindler, B. Johnson, G. Bera, 2008. Factors regulating microbial degradation of dioxins in estuarine sediments: Houston Ship Channel and Galveston Bay, TX. Texas Sea Grant Researcher Conference, Sept. 24, Texas A&M University, College Station, TX
9. Feagin, R.A., **K.M. Yeager**, 2008. Salt marsh accretion and erosion on the Upper Texas Coast. Texas General Land Office: Texas Coastal Conference, Sept. 25-27, Galveston, TX
8. Hieke, A.S.C., P.H. Santschi, **K.M. Yeager**, R. Brinkmeyer, 2007. Diversity and distribution of bacterial communities in dioxin-contaminated sediments from the Houston Ship Channel. Estuarine Research Federation National Meeting, Nov. 4-7, Providence, RI
7. Brinkmeyer, R., A.S.C. Hieke, **K.M. Yeager**, P.H. Santschi, 2007. Factors regulating microbial degradation of dioxins in estuarine sediments: Houston Ship Channel and Galveston Bay, TX. Texas Sea Grant Researcher Conference, Oct. 10, University of Texas Marine Science Institute, Port Aransas, TX
6. **Yeager, K.M.**, P.H. Santschi, H. Rifai, M. Suarez, R. Brinkmeyer, C.C. Hung, K.J. Schindler, M.J. Andres, E.A. Weaver, 2007. Dioxin chronology and fluxes in sediments of the Houston Ship Channel, TX: Influences of non-steady state sediment transport and total organic carbon. *EOS Transactions AGU*, 88(23), Joint Assembly Supplement
5. **Yeager, K.M.**, P.H. Santschi, K.J. Schindler, M.J. Andres, E.A. Weaver, 2006. The relative importance of terrestrial versus marine sediment sources to the Nueces-Corpus Christi Estuary, TX: An isotopic approach. *EOS Transactions AGU*, 87(36), Joint Assembly Supplement
4. **Yeager, K.M.**, P.H. Santschi, J.D. Phillips, B.E. Herbert, 2005. Suspended sediment sources and the importance of transient storage and human agency as indicated by radionuclides in the Loco Bayou watershed, TX. *Geological Society of America Abstracts with Program* 37(3): 34
3. **Yeager, K.M.**, P.H. Santschi, G.T. Rowe, K.J. Schindler, 2004. Sedimentation and radionuclide inventories ($^{239,240}\text{Pu}$, ^{210}Pb and ^{234}Th) in the northern Gulf of Mexico, the importance of macrofauna and organic matter. *EOS Transactions AGU*, 84(52), Ocean Science Meeting Supplemental
2. **Yeager, K.M.**, P.H. Santschi, J.D. Phillips, B.E. Herbert, 2002. Sources of alluvium in a coastal plain stream based on radionuclide signatures from the ^{238}U and ^{232}Th decay series: Hillslope to channel coupling and the effects of human agency. Texas A&M University 125th Anniversary Symposium: A Sustainable Gulf of Mexico: Research, Technology and Observation 1950-2050, College Station, TX

1. **Yeager, K.M.**, P.H. Santschi, J.D. Phillips, B.E. Herbert, 2000. Resolution of fluvial sediment sources, residence times and resuspension using lithogenic, atmospheric and cosmogenic radionuclides, Bayou Loco, TX. *Geological Society of America Abstracts with Program* 32(7): A23

OTHER PUBLICATIONS (current/former students)

- 2021 Feagin, R., T.S. Huff, **K.M. Yeager**, S. Whitehead, K. Hartke, C. Coleman, J. Paine. Essex Bayou Habitat Restoration Engineering Project Task 1 Final Report. Natural Resource Damage Assessment Trustee Implementation Group. Texas A&M AgriLife Research, College Station, Texas.
- 2018 McGlue, M.M., **K.M. Yeager**, C. Apse, P. McIntyre, I. Kimirei. Benthic habitat mapping for humanity – Using geophysics to improve conservation of littoral fisheries at Lake Tanganyika (Tanzania). Final report, Society of Exploration Geophysicists Foundation – Geoscientists without Borders Program, Tulsa, OK
- 2017 McGlue, M.M., **K.M. Yeager**. RAPID How does environmental change influence landscape evolution in the Pantanal wetlands (Brazil)? Final report, U.S. National Science Foundation – Geomorphology and Land Use Dynamics Program, Washington, D.C.
- 2013 **Yeager, K.M.**, R.A. Feagin, C.A. Brunner. Collaborative Research: Eco-geomorphic coupling: Vegetation transition and sedimentary responses to faulting. Final report, U.S. National Science Foundation – Geomorphology and Land Use Dynamics Program, Washington, D.C.
- 2012 **Yeager, K.M.**, C.A. Brunner, L. Guo, K.B. Briggs. RAPID Deepwater Horizon oil spill: Responses of benthic communities and sedimentary dynamics to hydrocarbon exposure in coastal ecosystems of the northern Gulf of Mexico. Final report, U.S. National Science Foundation – RAPID Program, Washington, D.C.
- 2011 **Yeager, K.M.**, C.A. Brunner, M.A. Kulp. Assessing tectonic and associated drivers of subsidence and consequent impacts on coastal marshlands: The Pearl River marsh, Louisiana. Final report, U.S. National Oceanic and Atmospheric Administration/U.S. Geological Survey – Coastal Restoration and Enhancement through Science and Technology Program, Louisiana Universities Marine Consortium, Chauvin, LA (*invited*)
- 2010 Feagin, R.A., **K.M. Yeager**, C.A. Brunner, J. Paine. Vegetation transition and sedimentary responses to fault-induced sea level rise. Final report, U.S. Department of Energy: National Institute for Climatic Change Research, Tulane University, New Orleans, LA
- 2010 Ott, R., K. Arnold, J. Hofmeister, T. Hazen, **K.M. Yeager**. Plan B in the Gulf. *The New York Times*, May 11, New York, NY
- 2009 Santschi, P.H., **K.M. Yeager**, R. Brinkmeyer, P. Louchouart. Factors regulating microbial degradation of dioxins in estuarine sediments: Houston Ship Channel and Galveston Bay, TX. Final report, Texas Sea Grant Program, College Station, TX

- 2008 **Yeager, K.M.**, P.H. Santschi, R. Brinkmeyer. Stage I: A preliminary evaluation of the impacts of dredging activities on the fate of dioxin in the Houston Ship Channel, TX. Final report, Texas General Land Office, Coastal Management Program, Austin, TX
- 2008 Feagin, R.A., **K.M. Yeager**. Salt marsh accretion rates on the Upper Texas Coast: Will sea level rise drown our marshes? Final report, Texas General Land Office, Coastal Management Program, Austin, TX
- 2007 Santschi, P.H., **K.M. Yeager**. Quantification of sediment sources of the Nueces-Corpus Christi Estuary system. Final report, Texas General Land Office, Coastal Management Program, Austin, TX
- 2004 Santschi, P.H., **K.M. Yeager**. Quantifying terrestrial vs. marine sources of sediment to a managed fluvial, deltaic and estuarine system: Nueces-Corpus Christi Estuary, TX. Final report, Texas Water Development Board, Austin, TX
- 2002 Bowman, J.A., **K.M. Yeager**, J.D. Phillips. Suspended sediment retention in bottomland hardwood forest stream corridors of the upper Angelina River basin, TX. Final report, Texas Water Development Board, Austin, TX

MEDIA HIGHLIGHTS

- 2018 “Estimated cost of Penobscot River mercury cleanup balloons to more than \$240M”, B. Trotter and J. Harrison; reports on environmental engineering study results recommending pathways to remediate the Penobscot River, based in part on our research efforts. *Bangor Daily News*, Oct. 4
- 2017 “The town where mercury still rises”, S. Goldberg; gives background information related to research on mercury pollution and human impacts on First Nations people in Ontario, Canada. *The New York Times*, Apr. 19
- 2015 “Pesquisadores estudam mudanças ambientais no Pantanal” (“Researchers have been studying environmental changes in Pantanal”); featuring research on environmental changes in Brazil’s Pantanal wetlands. *Jornal Oeste*, Sept. 16
- 2015 “Searsport dredging proposal faces stiff headwind”, C. Woodard; featuring research on contaminated sediment in the Penobscot River and estuary, ME and public scrutiny of a large proposed dredging project at Searsport, ME. *Portland Press Herald*, Sept. 6
- 2015 “Scientists may have finally solved the mystery of the missing BP oil”, T. McCoy; featuring research on Deepwater Horizon oil spill. *The Washington Post*, Feb. 5
- 2015 “Yet more BP oil found at bottom of Gulf”, A. Tully; featuring research on Deepwater Horizon oil spill. *Time*, Feb. 4
- 2015 “Ten million gallons of ‘missing oil’ from 2010 BP disaster discovered at bottom of Gulf of Mexico”, J. Robinson; featuring research on Deepwater Horizon oil spill. *Daily Mail*, Feb. 4

- 2015 “Millions of gallons of BP oil rests on Gulf floor”, J. Portman; featuring research on Deepwater Horizon oil spill. *USA Today*, Feb. 2
- 2015 “Study: BP oil spill left millions of gallons buried in Gulf floor”, A.R. Connolly; featuring research on Deepwater Horizon oil spill. *United Press International*, Jan. 31
- 2015 “Millions of gallons of BP oil found resting on the Gulf floor”, L. Abrams; featuring research on Deepwater Horizon oil spill. *Salon*, Jan. 30
- 2014 “Dredge opponents fear Penobscot River pollution”, T. Bell; featuring research on contaminated sediment in the Penobscot River and estuary, ME and public scrutiny of a large proposed dredging project at Searsport, ME. *Portland Press Herald*, Aug. 19
- 2014 WERU Community Radio, Bangor, ME with A. Browne; interview on the adequacy of a U.S. Army Corp of Engineers and Maine Department of Transportation environmental feasibility study for an expansion dredging project at Searsport, ME. Aug. 19
- 2011 “Deepwater Horizon: Assessing the impact, one year on”, M. Marshall; featuring research on Deepwater Horizon oil spill. *The New Scientist*, Apr. 30, (#2810): 4
- 2010 “Research team finds oil on bottom of Gulf”, R. Jarvis; featuring research on Deepwater Horizon oil spill. *USA Today*, Oct. 25
- 2010 “Gulf of Mexico becomes an accidental laboratory”, S. Gupta, P. Aldhous, D. MacKenzie; featuring research on Deepwater Horizon oil spill. *The New Scientist*, Jul. 21, issue 2770: 6-7
- 2010 National, Fox News live interview with S. Smith discussing ongoing releases of oil from the Macondo 252 well on the seafloor of the northern Gulf of Mexico, May 14
- 2009 “Vegetation may not slow wave erosion”, E. Marris; featuring research on the importance of soils in coastal marsh erosion. *Nature*, doi:10.1038/news.2009.552
- 2007 “Unleashing a dioxin legacy: Decades-old sediments in the Houston Ship Channel are likely responsible for high dioxin levels in aquatic organisms”, R. Chatterjee; featuring research on the role of long-buried sediments as a source of dioxins. *Environmental Science and Technology* 41(15): 5,172

INSTRUMENT AND FIELD EXPERIENCE

- Canberra gamma spectrometer, HPGe well detectors and MCA (model DSA-1000)
- Canberra integrated alpha spectrometer system (with MCA model DSA-1000)
- Malvern Mastersizer S2000 – optical particle size characterization
- Liquid scintillation
- Elemental analysis (C, N)
- Soxhlet extraction of organic compounds from soils and sediments
- X-radiography of sediment cores and sections
- In-stream instrumentation (optical back-scattering and Doppler instruments)

2021	Fieldwork at Jackson Lake, Jenny Lake, and Leigh Lake, Grand Tetons National Park, WY, USA
2020	Fieldwork postponed due to COVID-19
2018-2019	Fieldwork in coastal TX (Brazoria National Wildlife Refuge), and the Mississippi River delta, LA, USA
2017-2018	Fieldwork in central Ontario (English-Wabigoon River), Canada
2015-2018	Fieldwork in eastern KY (Appalachian coal mine lands), USA
2014-2015	Fieldwork at the Savannah River Site, Aiken, SC, USA
2007-2013	Fieldwork in lower Pearl River basin, southeastern LA, USA
2010, 2011	Chief Scientist, R/V <i>Cape Hatteras</i> : Gulf of Mexico research cruises (2) in support of Northern Gulf Institute research on the Deepwater Horizon oil spill
2010, 2011	Chief Scientist, R/V <i>Tom McIlwain</i> : Gulf of Mexico research cruises (5) in Mississippi, Chandeleur and Breton Sounds in support of Northern Gulf Institute research on the Deepwater Horizon oil spill
2009-2015	Fieldwork at Matagorda Peninsula, Matagorda, TX, USA
2006-2007	Research cruises (7): Galveston Bay, Houston Ship Channel, San Jacinto and Trinity Rivers, TX, USA, in support of research on sedimentary dioxins
2004-2005	Research cruises: (5) R/V <i>Puma</i> , Galveston Bay, Houston Ship Channel and San Jacinto River, TX, USA, in support of research on sedimentary dioxins
2003-2005	Research cruises: R/V <i>Sammy Ray</i> , Nueces and Corpus Christi Bays, TX, USA, in support of research on sediment sourcing and transport

COURSES TAUGHT

EES 480/730: Marine Sedimentology (2012, 2015, 2016, 2020) (UK)

EES 480/730: Coastal Processes (2017, 2019) (UK)

MAR 689: Scientific Communication (2008, 2009) (USM)

MAR 684: Proposal Writing (2007, 2009) (USM)

MAR 655: Estuaries (2010) (USM)

MAR 620: Marine Sediments and Sedimentary Environments (2006, 2007, 2008, 2009) (USM)

EES 450G: Sedimentary Geology (2013) (UK)

MAR 402: Marine Environmental Science (2011) (USM)

EES 345: Paleoclimatology: The Science (2015, 2016, 2018, 2019, 2020, 2021) (UK)

MAR 151: Introduction to Ocean Science (2006, 2007) (USM)

EES 110: Endangered Planet – Introduction to Environmental Geology (2011, 2012, 2014, 2015, 2017, 2019, 2021) (UK)

STUDENTS SUPERVISED

As Graduate Advisor (11 M.S.; 2 Ph.D.)

John Dilworth - Ph.D. Geological Sciences (Co-Chair) (exp. 2023) (UK)

Samuel Whitehead - M.S. Geological Sciences (exp. 2021) (UK)

William Bond - M.S. Geological Sciences (2019) (UK)

Kimberly Schindler - M.S. Geological Sciences (2019) (UK) [Research Analyst – Department of Earth and Environmental Sciences, University of Kentucky]

Edward Lo - M.S. Geological Sciences (Co-Chair) (2017) (UK) [Ph.D. Candidate – Department of Earth and Environmental Sciences, University of Kentucky]

Jeremy Eddy - M.S. Geological Sciences (2017) (UK) [Geologist II – S. Carolina Department of Health and Environmental Control]

Wei Ji - M.S. Geological Sciences (2016) (UK) [Software Engineer, Oscar Health]

Stephen Prosser - M.S. Geological Sciences (2015) (UK)

Phil Wolfe - M.S. Geological Sciences (2014) (UK) [Development and Operations Geologist – Tiptop Oil and Gas]

Olivia Woodruff - M.S. Geological Sciences (2014) (UK) [Geologist – Kimmeridge Energy]

Gopal Bera - Ph.D. Marine Science (2014) (USM) [Associate Research Scientist – Geochemical and Environmental Research Group – Texas A&M University]

Rachel Hatch - M.S. Geological Sciences (2013) (UK) [Environmental and Sustainability Manager – Heaven Hill Brands]

Jeremy Prouhet - M.S. Marine Science (2011) (USM) [Exploration Geologist – Chevron]

As Graduate Advisory Committee Member (8 M.S.; 5 Ph.D.)

Leandro Domingos Luz - Ph.D. Geological Sciences (exp. 2024) (UK)

Bailee Hodelka - Ph.D. Geological Sciences (exp. 2022) (UK)

Hillary Johnson - M.S. Geological Sciences (exp. 2021) (UK)

Alex Reis - Ph.D. Geological Sciences (exp. 2021) (UK)

Laura Streib - M.S. Geological Sciences (2019) (UK)

Cole Musial - M.S. Geological Sciences (2015) (UK)

Chris Van Dyke - Ph.D. Geography (2015) (UK)

Laurel Walker - M.S. Geological Sciences (2014) (UK)

Evan Kelly - M.S. Geological Sciences (2014) (UK)

Peter van Erp - M.S. Marine Science (2010) (USM)

Hailong Huang - M.S. Marine Science (2010) (USM)

Jennifer Kuykendall - M.S. Marine Science (2009) (USM)

Dane Fischer - M.S. Earth and Environmental Sciences (2009) (University of New Orleans)

As Undergraduate Research Supervisor (n = 30)

Lindsey Moffitt - B.S. Natural Resources and Environmental Science and B.S. Biology (exp. 2023) – current

Sabrina Kosharek - B.S. Natural Resources and Environmental Science (exp. 2022) - current

Justin Smith - B.S. Natural Resources and Environmental Science (exp. 2022) - current

Jacob Simanek - B.S. Natural Resources and Environmental Science (2020)

Spencer Dixon - B.S. Geological Sciences (2020) (UK)

Danielle Doering - B.S. Natural Resources and Environmental Science (2020) (UK)

Beth Ann Winebarger - B.S. Geological Sciences and B.S. Natural Resources and Environmental Science (2020)

John Barton - B.S. Geology (exp. 2022) (University of Alabama)

Claire Hilbrecht - B.S. Natural Resources and Environmental Science (exp. 2021)

Rebecca Smiley - B.S. Geological Sciences (2018) (UK)

Paul Pendergast - (post-Baccalaureate) B.A. Geography (2018) (UK)

Gabriella Evans - B.S. Landscape Architecture (exp. 2021) (UK)

Jude Omodon – B.B.A. Accounting and Finance, minor in Geological Sciences (2019) (UK)

Daulton Haynes - B.S. Natural Resources and Environmental Sciences (2018) (UK)

Matt Cecil - B.A. Geological Sciences (2018) (UK)

Thomas Murrell - B.A. Geological Sciences (2017) (UK)

Greg Meyers - B.S. Geophysical Sciences (2015) (University of Chicago)

Alyssa Aspiotis (née Eliopoulos) - B.S. Geological Sciences (2014) (UK)

Wei Ji (post-Baccalaureate) - B.S. Geological Sciences (2011) (University of North Carolina, Chapel Hill)

Zachary Moore - B.S. Geological Sciences (2013) (UK)

Nathan Couey - B.S. Geology (2010) (USM)

Carlo Fortner - B.S. Geography (2010) (USM)

Alyssa Jung - B.S. Biological Sciences (2010) (USM)

Mike Andres - B.S. Marine Biology (2007) (TAMUG)
Erin Weaver - B.S. Marine Science (2007) (TAMUG)
Kimberly Schindler - B.S. Marine Science (2006) (TAMUG)
Michelle Spinelli - B.S. Marine Science (2006) (TAMUG)
JoDana Jones - B.S. Marine Science (2004) (TAMUG)
M. Michael Cerf - B.S. Marine Science (2004) (TAMUG)
Chris Courtney - B.S. Marine Biology (2003) (TAMUG)

PROFESSIONAL AFFILIATIONS AND SERVICE

Affiliations

2014- Coastal Barrier Islands Network [<http://www.coastalbarrierisland.org/>] - Participant
2007- American Society of Limnology and Oceanography - Member
2006- Coastal and Estuarine Research Federation - Member
2005- American Association for the Advancement of Science - Member
2000- American Geophysical Union - Member
1998- Geological Society of America - Member
 Chair - Committee on Research Grants (2010 – 2011)
 Member at Large - Committee on Research Grants (2009 – 2012)

International Journal/Book Peer Reviewer

Energies – Scientific Reports – Ecological Applications – Texas A&M University Press – PLOS One – Global and Planetary Change – Cambridge University Press – Marine Biology – Nature Geoscience – Frontiers in Ecology and the Environment – J. of Marine Research – J. of Environmental Quality – Earth Surface Processes and Landforms – Applied Geochemistry – Geomorphology – Conservation Letters – J. of Coastal Research – Water Resources Research – J. of Environmental Systems – J. of Environmental Management – Environmental Science and Technology – N. Zealand J. of Marine and Freshwater Res. – Estuaries and Coasts – Environmental Pollution – Marine Geology – Geochimica et Cosmochimica Acta – Estuarine, Coastal and Shelf Science – Marine Chemistry – Marine Environmental Research – Earth and Planetary Science Letters – J. of Environmental Radioactivity – J. of Geophysical Research-Oceans – Sedimentary Geology – Catena

Funding Agency Peer Reviewer

Deutsche Forschungsgemeinschaft (DFG – German Research Foundation) – Texas Sea Grant Program – North Carolina Sea Grant Program – The Hudson River Foundation - Geological Society of America – U.S. Department of Energy – U.S. Office of Naval Research – California Bay Delta Authority – U.S. Department of State – U.S. National Science Foundation (Geomorphology and Land Use Dynamics; Division of Ocean Sciences; Marine Geology and Geophysics; Integrated Earth Systems; EAR-Instrumentation and Facilities; East Asia and Pacific Summer Institutes for U.S. Graduate Students)

DEPARTMENTAL AND UNIVERSITY SERVICE

2020-	Member, Curriculum Cmte., Earth and Environmental Sciences (UK)
2019	Co-Chair, Faculty Sustainability Council, University Senate and Provost Office (UK)
2015-2020	Member, Natural Resources and Environmental Science Interdisciplinary B.S. Program Steering Cmte., College of Agriculture, Food and Environment (UK)
2016-2020	Member, Faculty Sustainability Council, University Senate and Provost Office (UK)
2015-2017	Member, Earth Surface Systems Joint Graduate Program Executive Cmte. (Geography-Earth and Environmental Sciences) (UK)
2015-2017	Senator, Mathematics and Natural Sciences, University Senate (UK)
2014-2015	Member, Stable Isotope Geochemistry/Paleoclimatology Faculty Search Cmte., Earth and Environmental Sciences (UK)
2013-2014	Chair, Stable Isotope Geochemistry/Paleoclimatology Faculty Search Cmte., Earth and Environmental Sciences (UK)
2012-2013	Member, Department Chairperson Search Cmte., Earth and Environmental Sciences (UK)
2012-2013	Member, Pioneer Professor of Stratigraphy Faculty Search Cmte., Earth and Environmental Sciences (UK)
2011-2013	Member, Personnel and Budget Cmte., Earth and Environmental Sciences (UK)
2011-2012	Chair, Space Cmte., Earth and Environmental Sciences (UK)
2011-2012	Member, College of Arts and Sciences STEM Disciplines Outreach Cmte. (UK)
2011-2015	Chair, Curriculum Cmte., Earth and Environmental Sciences (UK)
2010-2011	Member, Vehicle and Vessel Cmte., Marine Science (USM)
2008-2009	Member, Facilities Cmte., Marine Science (USM)
2007-2010	Chair, Website and Public Relations Cmte., Marine Science (USM)
2007-2008	Member, Recruitment Cmte., Marine Science (USM)
2006-2007	Chair, Recruitment Cmte., Marine Science (USM)
2006-2007	Vice-Chair, Vehicle and Vessel Cmte., Marine Science (USM)
2005-2007	Member, Graduate Admissions Cmte., Marine Science (USM)
2005-2006	Faculty-Graduate Student Liaison, Marine Science (USM)
2005-2006	Faculty Advisor, Student Oceanographic Society, Marine Science (USM)
2005-2006	Member, Faculty Personnel Cmte., Marine Science (USM)