KEVIN M. YEAGER

Department of Earth and Environmental Sciences -- University of Kentucky
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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 (Advisor: Dr. Peter H. Santschi)

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 (Advisor: Dr. Alison L. Spongberg)

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 (Advisor: Dr. Dale Tshudy)

RESEARCH INTERESTS

I am a sedimentary geologist with expertise in radiochemistry – my research uses elements of the sedimentary record to answer questions about the functions, quality, and sustainability of sedimentary systems and host ecosystems, and about the history of those environments over the last ~10,000 years or more. This work often occurs at the interface of rapidly evolving natural and human processes considering both natural and built environments. My work has included lines of scientific inquiry within a range of subject areas including paleoclimate, environmental change, coastal processes, limnogeology, neotectonics, fluvial geomorphology, marine sedimentary systems, carbon cycling, land use change, and contaminant sourcing, transport, and fate. The characterization of various radionuclides (^{137}Cs, ^{210}Pb, ^{7}Be, ^{234}Th, ^{239,240}Pu, ^{14}C) is a central tool of my research, as they often serve as tracers of physical, chemical, and biological processes, and as chronometers, allowing for specific proxies, events, or processes recorded in sedimentary archives to be dated precisely.

PROFESSIONAL APPOINTMENTS

2023- Director of Graduate Studies – Earth and Environmental Sciences – University of Kentucky

2022- Professor – Earth and Environmental Sciences – University of Kentucky

2021- Associate Editor – *Marine Pollution Bulletin* – Elsevier

2011- Director – Sedimentary and Environmental Radiochemistry Research Laboratory (SER_2L) – University of Kentucky

2023 Interim Director of Undergraduate Studies – Earth and Environmental Sciences – University of Kentucky

2011-21 Associate Professor – Earth and Environmental Sciences – University of Kentucky

2005-11 Assistant Professor – Division of Marine Sciences – University of Southern Mississippi

2005 Assistant Research Scientist – Marine and Coastal Environmental Science – Texas A&M University at Galveston

2003-04 Texas Institute of Oceanography Post-Doctoral Fellow – Marine and Coastal Environmental 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

Whitehead, S.J., **K.M. Yeager**, J.R. Dilworth, H. Johnson, K.J. Schindler, J.R. Thigpen, E. Woolery, M.M. McGlue, 2024. High-resolution lake infill time modeling at Jackson Lake, Wyoming. In preparation for *Geomorphology* (IF 4.41)

Whitehead, S.J., **K.M. Yeager**, J.R. Dilworth, K.J. Schindler, J.R. Thigpen, E. Woolery, M.M. McGlue, 2024. Dam construction impacts on and spatial differentiation in lake-wide sedimentation at Jackson Lake, Wyoming. In preparation for *Geomorphology* (IF 4.41)

Yeager, K.M., K.J. Schindler, K.A. Merritt, N. Walter, 2024. Mercury inputs and redistribution in the Wabigoon River, Ontario, Canada. In preparation for *Science of the Total Environment* (**IF 10.75**)

Yeager, K.M., K.J. Schindler, K.A. Merritt, N. Walter, 2024. Estimates of recovery of the Wabigoon River from mercury contamination in the 1960's. In preparation for *Science of the Total Environment* (**IF 10.75**)

Guo, M., X. Han, S. Wang, **K.M. Yeager**, Y. Wang, Y. Bao, H. Chen, K. Liu, J. Wu 2024. Development of the method to quantify sediment organic matter sources using carbon isotopes and C/N ratios: An example from the Xiaowan Reservoir in the Lancang River basin, China. In preparation for *Ecology Indicators* (**IF 6.90**)

McGlue, M.M., J.R. Thigpen, E.W. Woolery, S.J. Brown, **K.M. Yeager**, 2024. Collapse of the paleo-Snake River delta shapes the stratigraphy of Jackson Lake (Grand Teton National Park, Wyoming, USA). In preparation for *Geophysical Research Letters* (**IF 5.58**)

Xu, H., Y. Song, **K.M. Yeager**, 2024. Influence of low latitude wetland area changes on the Holocene global atmospheric methane concentration trend. In review at *Communications Earth and Environment* (**IF 7.29**)

Swallom, M.L., J.R. Thigpen, R.C. Goldsby, E.W. Woolery, J.M. Dortch, S.E. Johnson, S.J. Brown, S. Vicroy, B. Rosandich, K. Woller, M.M. McGlue, **K.M. Yeager**, 2024. Linking Basin and Range extension across the modern Yellowstone hotspot track. In review at *Science Advances* (**IF 14.14**)

Lopera-Congote, L., K.S. Westover, M.M. McGlue, **K.M. Yeager**, J.R. Stone, 2024. Diatom spatial variations in Gull Lake (California) sediments: Implications for improving paleolimnological interpretations in small glacial lakes. In review at *J. of Paleolimnology* (IF 2.10)

Published or in Press

80. Soreghan, M.J., A.S. Cohen, M.M. McGlue, **K.M. Yeager**, I. Kimirei, 2024. Impacts of anthropogenic sedimentation on shell-bed habitats in Lake Tanganyika, Africa. *J. of Great Lakes Research* (in press) (IF 3.03)

79. Lopera-Congote, L., K.S. Westover, M.M. McGlue, **K.M. Yeager**, L. Streib, J.R. Stone, 2024. Detecting climate-driven ecological changes in high-altitude lakes in the Sierra Nevada, California. *The Holocene* (in press) (IF 3.09)

78. Whitehead, S.J., **K.M. Yeager**, R.A. Feagin, T.P. Huff, J.G. Paine, K.J. Schindler, T.S. Dixon, 2023. Growth-fault induced effects on tidal marsh surficial processes and landscape conversion in the Slop Bowl, Brazoria National Wildlife Refuge, Texas. *J. of Coastal Research* 40(1): 64-79 (IF 1.00)

77. Dilworth, J.R., J.R. Stone, **K.M. Yeager**, J.R. Thigpen, M.M. McGlue, 2023. Fossil diatoms reveal natural and anthropogenic history of Jackson Lake (Wyoming, USA). *J. of Earth Science, Systems and Society* DOI:10.3389/esss.2023.10065 (IF 1.37)

76. Liu, F., S. Wang, K. Huang, **K.M. Yeager**, Y. Li, L. Lv, G. Jia, B. Ma, 2023. Great and fast increase in soil CH_4 uptake after reforestation in karst cropland area linked to environmental and microbial factors. *Agriculture, Ecosystems and Environment* 347: 108367 (**IF 6.58**)

75. McGlue, M.M., J.R. Dilworth, H.L. Johnson, S.J. Whitehead, J.R. Thigpen, **K.M. Yeager**, E.W. Woolery, S.J. Brown, S.E. Johnson, C.S. Cearley, G.M. Clark, T.S. Dixon, R.C. Goldsby, A.L. Helfrich, B.N. Hodelka, E.L. Lo, L. Domingos-Luz, N.E. Powell, G.G. Rasbold, W.R. Swanger, 2023. Effects of dam emplacement and water level changes on sublacustrine geomorphology and recent sedimentation in Jackson Lake, Grand Teton National Park (Wyoming, United States). *J. of Earth Science, Systems and Society* DOI: 10.3389/esss.2023.10066 (IF 1.37)

74. Lo, E.L., **K.M. Yeager**, I. Bergier, L. Domingos-Luz, A. Silva, M.M. McGlue, 2022. Sediment infill of tropical floodplain lakes: Rates, controls, and implications for ecosystem services. *Frontiers in Earth Science* 10: 875919 (IF 3.66)

73. Johnson, S.E., M. Swallom, J.R. Thigpen, M.M. McGlue, J. Dortch, S. Gallen, E.W. Woolery, **K.M. Yeager**, 2022. The influence of glacial topography on fluvial efficiency in the Teton Range, Wyoming (USA). *Earth Surface Processes and Landforms* 592: 117643 (IF 3.96)

72. Feagin, R.A., T.P. Huff, **K.M. Yeager**, S.J. 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* 89(4): 73-82 (IF 1.00)

71. Streib, L.C., J.R. Stone, E.C. Lyon, H.H. Quang, **K.M. Yeager**, S.R.H. Zimmerman, M.M. McGlue, 2021. Anthropogenic climate change has altered lake state in the Sierra Nevada (California, USA). *Global Change Biology* 27(23): 6,059-6,070 (**IF 13.21**)

70. Tan, D., Q. Li, S. Wang, **K.M. Yeager**, M. Guo, K. Liu, Y. Wang, 2021. Diel variation of CH_4 emission flux in a small artificial lake: Toward more accurate methods of observation.

Science of the Total Environment 784: 147146 (**IF 10.75**)

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 2.82)

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* 23: 2,191-2,204. (IF 3.61)

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 11.36**)

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. McInytre, 2021. Spatial variability in nearshore sediment pollution in Lake Tanganyika (East Africa) and implications for fisheries conservation. *Anthropocene* 33: 100281 (IF 3.97)

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: 141985 (**IF 10.75**)

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 3.03)

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 4.41)

62. Buongiorno, J., L. Herbert, L. Wehrmann, A. Michaud, K. Laufer, H. Roy, B.B. Jorgensen, A. Szynkiewicz, 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 5.01**)

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 6.80**)

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 12.83**)

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 5.11**)

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 4.41)

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 10.75**)

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 2.30)

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 4.96**)

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 10.75**)

53. Louchouarn, 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 9.99**)

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 4.43)

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 3.23)

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 10.75**)

49. **Yeager, K.M.**, K.A. Schwehr, P. Louchouarn, 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 10.75**)

48. Huo, S., C. Li, B. Xi, Z. Yu, **K.M. Yeager**, F. Wu, 2017. Historical record of poly-chlorinated biphenyls (PCBs) and special occurrence of PCB 209 in a shallow fresh-water lake from eastern China. *Chemosphere* 184: 832-840 (**IF 8.94**)

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 10.75**)

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 10.75**)

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 3.96)

44. Hieke, A.S.C., R. Brinkmeyer, **K.M. Yeager**, K.J. Schindler, S. Zhang, C. Xu, P. Louchouarn, 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 3.73)

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 5.00**)

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 $\delta^{15}N$ 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 3.37)

41. Wang, S., **K.M. Yeager**, W. Lu, 2016. Carbon isotope fractionation in phytoplankton as a potential proxy for pH rather than for $[CO_2(aq)]$: Observations from a carbonate lake. *Limnology and Oceanography* 61(4): 1,259-1,270 (**IF 5.02**)

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 3.23)

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 6.80**)

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 3.51)

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 2.72)

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 3.09)

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 3.23)

34. Wang, S., **K.M. Yeager**, G. Wan, C.Q. Liu, F. Liu, Y. Lu, 2015. Dynamics of CO_2 in a karst catchment in the southwestern plateau, China. *Environmental Earth Sciences* 73(5): 2,415-2,427 (IF 3.12)

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 11.36**); *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 3.23)

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 5.19**)

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 1.11)

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 3.84)

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 3.08)

26. Brunner, C.A., **K.M. Yeager**, R.S. Hatch, S. Simpson, J. Keim, K.B. Briggs, P. Louchouarn, 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 11.36**)

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 4.41)

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 3.10)

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 4.24)

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 6.80**)

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 4.41)

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 13.78**)

19. Wang, S., **K.M. Yeager**, G. Wan, Y. Wang, Y. Lu, 2012. Carbon export and HCO_3^- fate in a carbonate watershed: A case study from Hongfeng Lake, southwestern China. *Applied Geochemistry* 27(1): 64-72 (IF 3.84)

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 3.45)

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 4.24)

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 7.00**)

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 3.87)

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 1.11)

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 3.23)

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 12.78**)

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 (N_2O) in a large eutrophic lake in eastern China: Anthropogenic effects. *Science of the Total Environment* 407: 3,330-3,337 (**IF 10.75**)

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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 8.94**)

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 3.03)

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 $^{210}Pb_{ex}$ and organic matter in sediments of Lake Chenghai, China. *Chemical Geology* 224(4): 223-236 (**IF 4.69**)

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 ($^{239,240}Pu$, ^{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 3.99)

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 2.66)

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 6.16**)

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 Preparation or Review – $5.35M

1. †U.S. National Institute of Environmental Health Sciences ($3,173,619; 2024-2029), S.R. Stanifer, E.J. Hahn, **K.M. Yeager**, M.K. Rayens, A.J. Goodman-Hoover, H.N. Moseley:

Radon on the RADAR (Residents Acting to Detect and Alleviate Radon) 2.0 (in review)

2. †U.S. National Science Foundation – Established Program to Stimulate Competitive Research (EPSCoR) Program Track I ($20,000,000; 2023-2028), R. Andrews, M.M. McGlue, E. Woolery, S. Bryson, C. Crofcheck: CLIMBS (Climate resilience through multidisciplinary big data learning, prediction and building response systems) – **K.M. Yeager** subproject lead (Paleo-perspectives on Kentucky's hydroclimate and geohazard history: New insights from muds, trees, and models) ($2,183,579) (in review)

Current – $5.99M

42. †U.S. National Science Foundation – Frontier Research in Earth Sciences (FRES) Program ($2,899,977; 2022-2027), A. Summers Engel, B.J. Roberts, **K.M. Yeager**, M. Bowles, D. Justic, H. Huang, G. Mariotti, C. Schutte: Collaborative Research: Methane dynamics across microbe-to-landscape scales in coastal wetlands

41. †U.S. National Science Foundation – Tectonics Program ($46,267; 2022-2023), J.R. Thigpen, M.M. McGlue, E.W. Woolery, **K.M. Yeager**: Supplemental funding request: Acquisition of a 40-m sediment core from Jackson Lake - Towards a high-resolution sedimentary record of environmental change and paleoseismological hazard for Grand Teton National Park (Wyoming)

40. †U.S. National Oceanic and Atmospheric Administration – National Centers for Coastal Ocean Science ($1,492,956; 2022-2025), R.M. Errera, G. Dick, R. Eveleth, J. Kharbush, C. Sheik, T. Spanbauer, **K.M. Yeager**: Synergistic impact of climate induced acidification, temperature, total alkalinity, and nutrients on cyanobacteria HABs in the Great Lakes

39. †Society of Exploration Geophysicists Foundation – Geoscientists without Borders Program ($73,000; 2021-2024), M.M. McGlue, **K.M. Yeager**, M. Soreghan, C. Zytkow, B. Taylor: Geophysical habitat mapping for fisheries conservation at Nsumbu Tanganyika (Zambia)

38. †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**)

37. †U.S. National Science Foundation – Tectonics Program ($580,146; 2020-2024), J.R. Thigpen, M.M. McGlue, E.W. Woolery, **K.M. Yeager**: Cataclysmic erasure of mountain topography and major unrealized seismic hazards in the northern Basin and Range

36. †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

Previous Awards – $5.29M

35. ‡University of Kentucky Vice President for Research – Equipment Competition Program ($76,909; 2023), **K.M. Yeager**: Acquisition of a Malvern Pananalytical Mastersizer 3000 Optical System

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

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)

110. Woller, K., M.M. McGlue, J.R. Thigpen, **K.M. Yeager**, E. Woolery, 2024. CHIRP Acoustic reflection imaging: Toward improving signal processing in extant glacial lakes. Seismological Society of American National Meeting, Apr. 29-May 3, Anchorage, AK (accepted)

109. Mwangala, N., M.M. McGlue, **K.M. Yeager**, 2023. Tracing shifts in Lake Tanganyika's oxycline using modern and recent sediments: A case study from Nkamba Bay (Zambia). Geological Society of American National Meeting, Oct. 15-18, Pittsburgh, PA

108. McGlue, M.M., J. Dilworth, J.R. Thigpen, **K.M. Yeager**, E.W. Woolery, S. Johnson, S.J. Whitehead, C. Cortese, 2023. Paleoenvironmental dynamics of Grand Teton National Park (Wyoming) deduced from CHIRP seismic reflection and sediment cores from Jackson Lake. Geological Society of American National Meeting, Oct. 15-18, Pittsburgh, PA

107. McGlue, M.M., J.R. Thigpen, E.W. Woolery, **K.M. Yeager**, S. Brown, G.G. Rasbold, K. Woller, J. Dilworth, C. Cortese, S. Johnson, S. Whitehead, S. Schweitzer, 2023. The case for a long scientific borehole in Jackson Lake, Grand Teton National Park (Wyoming, USA). Geological Society of American National Meeting, Oct. 15-18, Pittsburgh, PA

106. Schweitzer, S., G.G. Rasbold, J. Dilworth, J.R. Thigpen, **K.M. Yeager**, E. Woolery, S. Brown, M.M. McGlue, 2023. Paleofire and paleoenvironmental dynamics revealed in Jackson Lake sediments (Grand Teton National Park,Wyoming, USA). Geological Society of American National Meeting, Oct. 15-18, Pittsburgh, PA

105. Mwangala, N., M.M. McGlue, **K.M. Yeager**, M. Soreghan, 2023. Tracing recent shifts in Lake Tanganyika's oxycline using modern and recent sediments: A case study from Nkamba Bay (Zambia). Society of Exploration Geophysicists International Meeting for Applied Geoscience and Energy, Aug. 28-Sept. 1, Houston, TX

104. Dilworth, J.R., C.J. Cortese, J.R. Thigpen, S.J. Whitehead, **K.M. Yeager**, E.W. Woolery, M.M. McGlue, 2022. High resolution seismic and sediment core investigation of Moran Bay, Jackson Lake, WY. American Geophysical Union Annual Meeting, Dec. 12-16, Chicago, IL

103. Whitehead, S.J., **K.M. Yeager**, J.R. Dilworth, K.J. Schindler, H.L. Johnson, J.R. Thigpen, E.W. Woolery, M.M. McGlue, 2022. Spatial variability of sediment accumulation in Jackson Lake, Wyoming. International Association of Limnogeology – International Paleolimnology Association (IAL-IPA) Joint Meeting, Nov. 27-Dec. 1, Bariloche, Argentina

102. **Yeager, K.M.**, S.J. Whitehead, J.R. Dilworth, M.M. McGlue, H. Johnson, K.J. Schindler, J.R. Thigpen, E.W. Woolery, 2022. High-resolution lake infill modeling at Jackson Lake, Wyoming. International Association of Limnogeology – International Paleolimnology Association (IAL-IPA) Joint Meeting, Nov. 27-Dec. 1, Bariloche, Argentina

101. Lyon, E., A. Erhardt, M.M. McGlue, L. Lopera-Congote, J.R. Stone, **K.M. Yeager**, 2022. Gull Lake, CA: A new sedimentary archive of historical climate change in the eastern Sierra Nevada. Geological Society of American National Meeting, Oct. 9-12, Denver, CO

100. Goldsby, R., M. Swallom, J.R. Thigpen, S. Johnson, J. Dortch, E.W. Woolery, M.M. McGlue, **K.M. Yeager**, 2022. Linking Teton and east Gallatin Fault motion across the Yellowstone hotspot track, Wyoming, USA: Implications for ongoing extension beneath Yellowstone and extension of the active Teton Fault. Geological Society of American National Meeting, Oct. 9-12, Denver, CO

99. Cortese, C., J.R. Thigpen, M.M. McGlue, E.W. Woolery, **K.M. Yeager**, J.R. Dilworth, 2022. Attempting to close the seismic "gap" along the Teton Fault through seismic mapping of potential seismites in Jackson Lake, WY. Geological Society of American National Meeting, Oct. 9-12, Denver, CO

98. Dilworth, J., C.J. Cortese, M.M. McGlue, J.R. Thigpen, **K.M. Yeager**, E.W. Woolery, S.J. Brown, 2022. Preliminary high resolution seismic stratigraphic and sediment core investigation of Jackson Lake (Wyoming). Geological Society of America Joint North-Central and Southeastern Section Meeting, Apr. 7-8, Cincinnati, OH

97. Johnson, H., M.M. McGlue, J.R. Thigpen, E.W. Woolery, **K.M. Yeager**, S. Brown, J.R. Dilworth, 2022. Recent limnological history of Jackson Lake: Grand Teton National Park, Wyoming. Geological Society of America Joint North-Central and Southeastern Section Meeting, Apr. 7-8, Cincinnati, OH

96. Whitehead, S.J., **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)

95. Johnson, S., M. Swallom, J.R. Thigpen, M.M. McGlue, E.W. Woolery, J. Dortch, S. Gallen, **K.M. Yeager**, 2021. Post-glacial fluvial inefficiency. Geological Society of America National Meeting, Oct. 10-13, Portland, OR

94. Dilworth, J.R., J.R. Stone, M.M. McGlue, **K.M. Yeager**, J.R. Thigpen, 2021. Diatom paleoecology reveals anthropogenically driven changes at Jackson Lake (Wyoming). Geological Society of American National Meeting, Oct. 10-13, Portland, OR

93. McGlue, M.M., J.R. Dilworth, H.L. Johnson, **K.M. Yeager**, J.R. Thigpen, E.W. Woolery, S.J. Brown, C. Cearley, G. Clark, T.S. Dixon, R.C. Goldsby, A. Helfrich, B.N. Hodelka, S.E. Johnson, L. Domingos-Luz, N. Powell, G.G. Rasbold, W. Swanger, S.J. Whitehead, 2021. Sublacustrine geomorphology and deepwater chemostratigraphy reveal effects of dam installation at Jackson Lake (Wyoming, USA). Geological Society of American National Meeting, Oct. 10-13, Portland, OR

92. Feagin, R.A., T.P. Huff, K. Hartke, **K.M. Yeager**, S.J. 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

91. **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)*

90. Johnson, H., M.M. McGlue, J.R. Thigpen, E.W. Woolery, **K.M. Yeager**, S.J. 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)

89. **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)*

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. Szynkiewicz, 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. Sorhgan, 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

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61. Woodruff, O., **K.M. Yeager**, T. Wade, P. Louchouarn, 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

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58. Cruz, V.J., C.A. Brunner, **K.M. Yeager**, K.B. Briggs, P. Louchouarn, 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

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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

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Exploration Geophysicists Student Expo, Sept. 16-17, Houston, TX

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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. Louchouarn, 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

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42. Brunner, C.A., J. Keim, **K.M. Yeager**, K.B. Briggs, P. Louchouarn, 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

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37. Shiller, A.M., D. Joung, T.L. Wade, J.L. Sericano, S.T. Sweet, **K.M. Yeager**, C.A. Brunner, P. Louchouarn, 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

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32. Colon-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. Louchouarn, 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

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27. Louchouarn, 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

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22. Brinkmeyer, R., A.S.C. Hieke-Rambo, S. Zhang, C. Xu, K.J. Schindler, P. Louchouarn, **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

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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

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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. Louchouarn, 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

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2021 Feagin, R., T.S. Huff, **K.M. Yeager**, S.J. 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 *(invited)*

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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

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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

2021 "Scientists find climate crisis has changed Sierra Nevada lakes more in past 100 years than in three millennia", K. Sandoval; featuring paleoclimatological reconstruction research conducted at June Lake, CA. *Independent*, Sep. 9

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. Jervis; 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 spectrometers, HPGe well detectors and MCA (model DSA-1000)
- Canberra integrated alpha spectrometers (with MCA model 7200)
- Malvern Mastersizer S2000 and 3000 – 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)

2023 Fieldwork in northern Gulf of Mexico (Mississippi River delta, LA) – Fieldwork at Lake Tanganyika (Zambia, Africa)

2022 Fieldwork in northern Gulf of Mexico (Pascagoula, St. Louis Bay, MS)

2021 Fieldwork at Jackson Lake, Grand Tetons National Park, WY, USA – Fieldwork in northern Gulf of Mexico (Pascagoula, St. Louis Bay, MS)

2020 Fieldwork postponed (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 *Cape Hatteras*: 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 *Tom McIlwain*: 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 *Puma*, Galveston Bay, Houston Ship Channel and San Jacinto River, TX, USA, in support of research on sedimentary dioxins

2003-2005 Research cruises: R/V *Sammy Ray*, Nueces and Corpus Christi Bays, TX, USA, in support of research on sediment sourcing and transport

COURSES TAUGHT

EES 110: Endangered Planet – Introduction to Environmental Geology (2011, 2012, 2014, 2015, 2017, 2019, 2021, 2022) (UK)

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

EES 345: Paleoclimatology (2015, 2016, 2018, 2019, 2020, 2021, 2022, 2023) (UK)

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

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

EES 480/740: Marine Sedimentology (2012, 2015, 2016, 2020) (UK)

EES 512: Coastal Processes (2017, 2019, 2022) (UK)

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

MAR 655: Estuaries (2010) (USM)

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

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

STUDENTS SUPERVISED (*****Members of NSF-defined STEM under-represented groups)

As Graduate Advisor (11 M.S.; 3 Ph.D.)

Samuel Whitehead - Ph.D. Geological Sciences (exp. 2025) (UK)

John Dilworth - Ph.D. Geological Sciences (Co-Chair) (exp. 2024) (UK)

Samuel Whitehead - M.S. Geological Sciences (2022) (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) [Lyman T. Johnson Post-Doctoral Fellow – Appalachian Center, 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) [Owner – Hazard Coffee Company]

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

*****Olivia Woodruff - M.S. Geological Sciences (2014) (UK) [Director of Decarbonization – Kimmeridge Energy]

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

*****Rachel Nally - M.S. Geological Sciences (2013) (UK) [Director, Environment and Sustainability – Heaven Hill Brands]

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

As Graduate Advisory Committee Member (11 M.S.; 5 Ph.D.)

Maaz Fareedi - M.S. Geological Sciences (exp. 2025) (UK)

*****Chelsea Parada - M.S. Geological Sciences (exp. 2025) (UK)

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

*****Bailee Hodelka - Ph.D. Geological Sciences (exp. 2024) (UK)

Alex Reis - Ph.D. Geological Sciences (exp. 2024) (UK)

*****Callia Cortese - M.S. Geological Sciences (2023) (UK)

*****Hillary Johnson - M.S. Geological Sciences (2023) (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 = 37)

*****Reagan Reed - B.S. Natural Resources and Environmental Science (exp. 2024) - current

Andrew Woloszyn - B.S. Natural Resources and Environmental Science (exp. 2024) - current

William Taylor - B.S. Natural Resources and Environmental Science (exp. 2024) - current

*****Bianca Salinas - B.A. in Spanish and B.A. in Geological Sciences (exp. 2024)

*****Lindsey Moffitt - B.S. Natural Resources and Environmental Science and B.S. Biology (2023)

*****Caroline Koontz - B.A. Environmental and Sustainability Studies (exp. 2024)

*****Danielle Cottrell - B.S. Natural Resources and Environmental Science (2023)

*****Christina Mammen - B.S. Natural Resources and Environmental Science (2023)

Justin Smith - B.S. Natural Resources and Environmental Science (2023)

*****Gabriella Evans - B.S. Landscape Architecture (2022)

John Barton - B.S. Geology (2022) (University of Alabama) [Ph.D. student at West Virginia University]

*****Sabrina Kosharek - B.S. Natural Resources and Environmental Science (2022) [Environmental Planner – First Tennessee Development District]

*****Claire Hilbrecht - B.S. Natural Resources and Environmental Science (2021) [M.A. Student – Department of Geography, University of Kentucky]

Jacob Simanek - B.S. Natural Resources and Environmental Science (2020) [M.S. Student – Department of Biology, Western University (Canada)]

Spencer Dixon - B.S. Geological Sciences (2020) (UK) [M.S. Student – Department of Earth Sciences, Montana State University]

*****Danielle Doering - B.S. Natural Resources and Environmental Science (2020) (UK) [M.S. Student – Department of Plant and Soil Sciences, University of Kentucky]

*****Beth Ann Winebarger - B.S. Geological Sciences and B.S. Natural Resources and Environmental Science (2020) [GIS System Specialist – Draper City, UT]

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

Paul Pendergast - (post-Baccalaureate) B.A. Geography (2018) (UK) [MS4 Inspector/Plan Reviewer – Vigo County, IN]

*****Jude Omodon – B.B.A. Accounting and Finance, minor in Geological Sciences (2019) (UK) [Capital Markets Analyst – Bank of America]

Daulton Haynes - B.S. Natural Resources and Environmental Sciences (2018) (UK) [Customer Collaboration Manager – Beam Suntory]

Matt Cecil - B.A. Geological Sciences (2018) (UK) [Research Assistant – Mammoth Cave National Park]

Thomas Murrell - B.A. Geological Sciences (2017) (UK) [Hazardous Waste Specialist – University of Kentucky]

Greg Meyers - B.S. Geophysical Sciences (2015) (University of Chicago) [Teacher – Murry Bergtraum High School for Business Careers]

*****Alyssa Aspiotis (née Eliopoulos) - B.S. Geological Sciences (2014) (UK) [Student – Hellenic College Holy Cross Greek Orthodox School of Theology]

*****Wei Ji (post-Baccalaureate) - B.S. Geological Sciences (2011) (University of North Carolina, Chapel Hill) [Software Engineer – Oscar Health]

Zachary Moore - B.S. Geological Sciences (2013) (UK) [Senior Geologist – Pioneer Natural Resources]

Nathan Couey - B.S. Geology (2010) (USM) (Geologist – Sunburst Consulting]

*****Carlo Fortner - B.S. Geography (2010) (USM) [Senior Surveillance Technician – Island View Casino Resort]

*****Alyssa Jung - B.S. Biological Sciences (2010) (USM) [Design Consultant – Renewal by Andersen]

Dr. Michael Andres - B.S. Marine Biology (2007) (TAMUG) [Assistant Professor – Gulf Coast Research Laboratory (GCRL), University of Southern Mississippi]

*****Erin Weaver - B.S. Marine Science (2007) (TAMUG) [Regulatory Affairs Specialist, Freeport LNG]

*****Kimberly Schindler - B.S. Marine Science (2006) (TAMUG) [Research Analyst – Department of Earth and Environmental Sciences, University of Kentucky]

*****Michelle Spinelli - B.S. Marine Science (2006) (TAMUG) [Senior UX Researcher – Allstate]

*****JoDana Swanson (née Jones) - B.S. Marine Science (2004) (TAMUG) [Technical Sales Manager, North America – Halliburton]

*****M. Michaele Cerf - B.S. Marine Science (2004) (TAMUG) [Content Strategy Lead – PROS]

Chris Courtney - B.S. Marine Biology (2003) (TAMUG)

PROFESSIONAL AFFILIATIONS AND SERVICE

Affiliations

2022- Kentucky Climate Consortium [https://www.research.uky.edu/climate-consortium] - Member

2014- Coastal Barrier Islands Network [http://www.coastalbarrierisland.org/] - Participant

2007- American Society of Limnology and Oceanography (ASLO) - Member

2006- Coastal and Estuarine Research Federation (CERF) - Member

2005- American Association for the Advancement of Science (AAAS) - Member

2000- American Geophysical Union (AGU) - Member

1998- Geological Society of America (GSA) - Member
Chair - Committee on Research Grants (2010 – 2011)
Member at Large - Committee on Research Grants (2009 – 2012)

International *Journal*/Book Peer Reviewer

Environmental Monitoring and Assessment – Frontiers in Environmental Science – Marine Pollution Bulletin – 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 – New Zealand J. of Marine and Freshwater Research – 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

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) – U.S. Department of Energy – U.S. Office of Naval Research U.S. Department of State – American Chemical Society (Petroleum Research Fund) – Geological Society of America – The Hudson River Foundation – Texas Sea Grant Program – North Carolina Sea Grant Program – California Bay Delta Authority – Deutsche Forschungsgemeinschaft (DFG – German Research Foundation)

DEPARTMENTAL AND UNIVERSITY SERVICE

2023-	Member, College of Arts and Sciences Research Review Committee (UK)
2022-	Member, University Parking Violation Appeals Cmte. (UK)
2020-23	Member, Curriculum Cmte., Earth and Environmental Sciences (UK)
2021-23	Chair, Curriculum Cmte., Earth and Environmental Sciences (UK)
2019-2021	Chair, Faculty Sustainability Council, University Senate, and Provost Office (UK)
2016-2021	Member, 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)

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	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)