

Curriculum Vitae

Brent A. McKee

Professional Preparation:

- 1976 Ed.B. (English / Education) University of North Carolina-Chapel Hill
1980 B.S. (Chemistry) North Carolina State University
1983 M.S. (Marine Geology/Geochemistry) North Carolina State University
1986 Ph.D. (Marine Geochemistry) North Carolina State University

Appointments:

- 2008 – Present Mary and Watts Hill Jr. Distinguished Professor
2008 – 2012 Chair, Department of Marine Sciences
Director, Marine Sciences Program
University of North Carolina-Chapel Hill
2006 – 2007 Professor, Department of Marine Sciences, University of North Carolina-Chapel Hill
2003 – 2005 Director, Center for River – Ocean Studies (Tulane University)
2001 – 2005 Full Professor, Department of Earth and Environmental Sciences, Tulane
1997- 2001 Associate Professor, Department of Geology, Tulane University
1992-1997 Associate Professor, Louisiana Universities Marine Consortium
1987-1992 Assistant Professor, Louisiana Universities Marine Consortium

Products Most Closely Related to Proposed Research

- Jalowska A, A. Rodriguez, and B. McKee. 2015. Responses of the Roanoke Bayhead Delta to Variations in Sea Level Rise and Sediment Supply during the Holocene and Anthropocene. *Anthropocene* V 9, Pages 41–55
- Aronson R. B., N.L. Hilburn T.S. Bianchi, T.R. Filley, B.A. McKee. 2014. Land use, water quality, and the history of coral assemblages at Bocas del Toro, Panamá. *Marine Ecology Progress Series*. V 504. pp: 159-170 DOI: 10.3354/meps10765
- Bianchi, TS, Goni, Allison, MA, Chen, N, and McKee, BA. 2013. Sedimentary carbon dynamics of the Atchafalaya and Mississippi River Delta system and associated margin. In: Biogeochemical Dynamics At Major River-Coastal Interfaces: Linkages With Global Change. Bianchi TS; Allison MA; Cai WJ (Eds.). pp: 475-502. WOS:000326539000020, ISBN:978-1-107-02257-7
- Mattheus, R., A. Rodriguez and B. McKee. 2009. Direct connectivity between upstream and downstream promotes rapid response of lower coastal-plain rivers to climate and land-use change. *Geophysical Research Letters*. V 36, L20401, doi:10.1029/2009GL039995.
- McKee, B. A. 2008. U- and Th-Series Nuclides in Estuarine Environments, In: S. Krishnaswami and J. Kirk Cochran, Editor(s), Radioactivity in the Environment, Elsevier, Volume 13, U-Th Series Nuclides in Aquatic Systems, pp. 193-225. ISSN 1569-4860, DOI 10.1016/S1569-4860(07)00006-X

Other Relevant Products

- Elliott E.A., B. A. McKee and A.B. Rodriguez. 2015. The utility of estuarine mini-basins for constructing multi-decadal, high-resolution records of sedimentation. *Estuarine, Coastal and Shelf Science* V. 164, pp. 105–114

- Gunnell, J, T. Rodriguez and B. McKee. 2013. How to build a marsh from the bottom up. *Geology* 41: 8 pp: 859-862
- Corbett, D.R., M.D. Dail and B.A. McKee. 2007. High frequency time-series of the dynamic sedimentation processes on the western shelf of the Mississippi River delta. *Continental Shelf Research*. 27: 1600-1615. DOI: 10.1016/j.csr.2007.01.025
- McKee, B.A., R.C. Aller, M.A. Allison, T.S. Bianchi, and G.C. Kineke. 2004. Transport and Transformation of Dissolved and Particulate Materials on Continental Margins Influenced by Major Rivers: Benthic Boundary Layer and Seabed Processes. *Continental Shelf Research*. 24(7-8): 899-926.
- O'Reilly, C.M., S.R. Alin, P-D Plisnie, A.S. Cohen and B.A. McKee. 2003. Climate change decreases aquatic ecosystem productivity of Lake Tanganyika, East Africa. *Nature* 424: 766-768.

Synergistic Activities:

- Chair and Host: The 11th International Estuarine Biogeochemistry Symposium (Atlantic Beach, NC, May 2011). Sponsored by the National Science Foundation.
- Member, Science Steering Committee: Workshop for an Integrated Study of Terrestrial and Coastal Carbon Fluxes and Exchanges in the Gulf of Mexico. Sponsored by the Ocean Carbon Biogeochemistry (OCB) program (2007- 2008).
- Member, The North American Carbon Program (NACP) Science Steering Group (SSG). Under the auspices of the U.S. Carbon Cycle Interagency Working Group. 2004 – 2007
- Organizer and Chair: International Workshop for River-dominated Ocean Margins. Sponsored by the National Science Foundation and the Lallage Feazel Wall Fund. Nov. 2004
- Member, Carbon Cycle Science Steering Group. U.S. Carbon Cycle Science Program. 2003 – 2006.

Collaborators & Other Affiliations:

Bob Aller (SUNY Stony Brook); Mead Allison (Tulane University); Richard Aronson (Florida Institute of Technology); Carol Arnosti (UNC-CH); Tom Bianchi (U. Florida); Mark Brush (VIMS); Dan Conley (Lund University); Reide Corbett (E. Carolina Univ.); Minhan Dai (Xiamen University); Carlos Del Castillo (John Hopkins); Tim Filley (Purdue); Gail Kineke (Boston College.); Mukesh Kumar (Duke); Franco Marcantonio (Texas A&M); Richard Miller (E. Carolina Univ.); Christophe Rabouille (Institute Pierre Simon Laplace); Tony Rodriguez (UNC-CH); Andreas Teske (UNC-CH)

Graduate Advisors (Ph.D degree)

David J. DeMaster (NC State University), Charles A. Nittrouer (University of Washington)

Graduate Students (Past 5 years):

Anna Jalowska Ph.D. (current); Emily Elliott Ph.D (current); John Gunnell M.S. (2011), Ph.D. (current); Sam Perkins M.S. (2011)

Committee member on an additional 15 Ph.D committees

Mentor for 4 undergraduate researchers this year (18 total in last 5 years)