

CURRICULUM VITAE

Mead A. Allison

Address: Institute for Geophysics email – mallison@mail.utexas.edu
Jackson School of Geosciences voice – 512-471-8453
The University of Texas at Austin fax – 512-471-0319
J.J. Pickle Research Campus
10100 Burnet Road, Bldg. 196 (ROC)
Austin, TX 78758

Education

B.S. (*Geology*) 1985, College of William & Mary, Williamsburg, Virginia
M.S. (*Geology*) 1988, East Carolina University, Greenville, North Carolina
Ph.D. (*Oceanography*) 1993, State University of New York, Stony Brook, New York
Dissertation: *"Mechanisms of coastal progradation and muddy strata formation adjacent to the Amazon River"*

Research Interests

Sedimentary processes of upper continental margin environments, particle-reactive radiotracers for geochronology, processes of strata formation, high-concentration suspended sediment/cohesive seabed interactions, acoustic and optical seafloor mapping, sediment transport in river channels, microfabric of modern sediments, use of GIS/remote sensing analysis for examining coastal geological processes

Professional Experience

2007 - Senior Research Scientist, Institute for Geophysics, University of Texas
2007 Professor, Dept. of EES, Tulane University
2002 - 2006 Associate Professor, Department of EES, Tulane University
2004 J. William Fulbright Fellow, University of Paris, France
1999-2002 Assistant Professor, Department of EES, Tulane University
Dec. 1994-1999 Assistant Professor, Department of Oceanography, Texas A&M University
1993-1994 Postdoctoral Scholar, Woods Hole Oceanographic Institution, Department of Geology & Geophysics
1985-1993 Graduate Research/Teaching Assistant

Professional Affiliations

American Association of Petroleum Geologists
American Geophysical Union
Coastal Education and Research Foundation (CERC)
Geological Society of America
International Association of Sedimentologists
Sigma Xi
Society for Sedimentary Geology (SEPM)

Graduate Advisors

Stanley Riggs (M.S.), Charles Nittrouer (PhD)
David Aubrey (Postdoctoral-WHOI), Bill Schwab (Postdoctoral-USGS Woods Hole)

Publications (* denotes student in my lab)

Special Volumes/Monographs

Allison, M.A., DeGaetano, A.T., and Pasachoff, J.M., 2005. *Earth Science*, Holt-Reinhart and Winston, 954 p.

Material Exchange Between Mangrove Systems and the Coastal Ocean. F. Baltzer, M. Allison, F. Fromard (eds.), *Marine Geology* Special Volume, 2004. 208(2-4):113-225.

A Study of Sedimentation in the Brahmaputra-Jamuna Floodplain. 1995. FAP16 Sedimentation Working Group (M. Allison, S. Kuehl, H. Brammer, D. Barua, T. Martin), *Bangladesh Flood Action Plan, US Agency for International Development*, 188 p.

Papers

*Wilson, C.A. and Allison, M.A., submitted. Sediment dynamics and geomorphology of eroding marsh shorelines in southeastern Louisiana. *Estuarine, Shelf and Coastal Science*.

Allison, M.A. and *Taylor, B.B., submitted. Effects of sediment microfabric on the in-sediment light field in sandy coastal settings. *Limnology and Oceanography*.

Mayer, L.M., Schick, L.L., Allison, M.A. and Bentley, S., submitted. Input of nutritionally rich organic matter from the Mississippi River to the Louisiana coastal zone. *Limnology and Oceanography*.

*Nittrouer, J.A., Allison, M.A., and Campanella, R., in press. Evaluation of bedload transport in the lower Mississippi River: implications for sand transport to the Gulf of Mexico. *JGR-Surface Processes*.

*Galler, J.J. and Allison, M.A., in press. Estuarine controls on fine-grained sediment storage in the lower Mississippi and Atchafalaya Rivers. *Geological Society of America Bulletin*.

*Bianchi, T.S., Galler, J.J., and Allison, M.A., accepted. Effects of hydrodynamic sorting on compositional abundance of organic carbon in the Mississippi and Atchafalaya Rivers. *Marine Chemistry*.

Majzlik, E.J., Dellapenna, T.M., and Allison, M.A., in press. Occurrence of scour pits on the inner continental shelf of Matagorda Peninsula, Texas, following the landfall of Hurricane Claudette in 2003. *Continental Shelf Research*.

- Mayer, L.M., Schick, L.L., Allison, M.A. and Bentley, S., in press. Marine vs. terrigenous organic matter in Louisiana coastal sediments: The uses of bromine:organic carbon ratios. *Marine Chemistry*.
- Thieler, E.R., Butman, B., Schwab, W.C., Allison, M.A., Driscoll, N.W., Donnelly, J.P. and Uchupi, E., 2007. A catastrophic meltwater flood event and the formation of the Hudson Shelf Valley. *Palaeogeography, Palaeoclimatology, Palaeoecology* 246: 120–136
- Allison, M.A., Bianchi, T.S., McKee, B.A., and Sampere, T.P., 2007. Carbon burial on river-dominated continental shelves: impact of historical changes in sediment loading adjacent to the Mississippi River. *Geophysical Research Letters* L01606, doi:10.1029/2006GL028362
- Bianchi, T.S., Allison, M.A., Canuel, E.S., McKee, B.A., Wakeham, S.B. 2006. Evidence for rapid export of riverine and shelf-derived organic matter into Mississippi Canyon. *EOS—Transactions of the American Geophysical Union* 87:565, 572-573
- Dellapenna, T.M., Allison, M.A., Gill, G., and Warnken, K., 2006. The role of shrimp trawling on resuspension in shallow estuaries. *Estuarine, Shelf and Coastal Science* 69:519-530.
- Goñi, M.A., Gordon, E.S., Monacci, N.M., Clinton, R., Gishewhite, R., Allison, M.A., and Kineke, G.C., 2006. The effect of Hurricane Lili on the distribution of organic matter in the Inner Louisiana Shelf (Gulf of Mexico, USA). *Continental Shelf Research* 26:2260-2280.
- Corbett, D.R., McKee, B.A., and Allison, M.A., 2006. Nature of decadal-scale sediment accumulation in the Mississippi River deltaic region. *Continental Shelf Research* 26:2125-2140.
- Allison, M.A., Sheremet, A., Gōni, M.A., and Stone, G.W., 2005. Storm layer deposition on the Mississippi-Atchafalaya subaqueous delta generated by Hurricane Lili in 2002. *Continental Shelf Research* 25:2213-2232.
- Kuehl, S.A., Allison, M.A., Goodbred, S.L., and Kudrass, H., 2005. Sedimentary processes and products of the modern Ganges-Brahmaputra delta. In: L. Giosan and J. Bhattacharya (eds.), *River Deltas: Concepts, Models and Examples*, Society for Sedimentary Geology (SEPM) Special Publication No. 83, p. 413-434.
- *Neill, C.F. and Allison, M.A., 2005. Subaqueous deltaic formation on the Atchafalaya Shelf, Louisiana. *Marine Geology* 214:411-430.

- Draut, A.E., Kineke, G.C., Velasco, D.W., Allison, M.A., and Prime, R.J., 2005. Influence of the Atchafalaya River on recent evolution of the chenier plain inner continental shelf, northern Gulf of Mexico. *Continental Shelf Research* 25:91-112.
- McKee, B.A., Aller, R.C., Allison, M.A., Bianchi, T.S., and Kineke, G.C., 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*, 24:899-926.
- Allison, M.A. and *Lee, M.T. 2004. Sediment exchange between Amazon mudbanks and shore-fringing mangroves in French Guiana. *Marine Geology* 208:169-190.
- Baltzer, F., Allison, M.A., and Fromard, F. 2004. Material exchange between the continental shelf and mangrove-fringed coasts with special reference to the Amazon-Guianas coast. *Marine Geology* 208:115-126.
- *Galler, J.J., Bianchi, T.S., Allison, M.A., Campanella, R., and Wysocki, L., 2003. Sources of aged terrestrial organic carbon to the Gulf of Mexico from relict strata in the Mississippi River. *EOS, Transactions of the American Geophysical Union*, 84:469-476.
- Allison, M.A., Khan, S.R., Goodbred, S.L., and Kuehl, S.A., 2003. Stratigraphic evolution of the late Holocene Ganges-Brahmaputra lower delta plain. *Sedimentary Geology* 155:317-342.
- *Robb, B.K., Allison, M.A., and Dellapenna, T.M., 2003. Anthropogenic and natural controls on shoreface evolution along Galveston Island, Texas. *Proceedings of the International Conference on Coastal Sediments 03*. ISBN 981-238-422-7, 13 p.
- Warnken, K., Gill, G., Dellapenna, T.M., Harper, D.E., Allison, M.A., and Lehman, R., 2003. The effects of shrimp trawling on sediment oxygen consumption and the fluxes of trace metals and nutrients from estuarine sediments. *Estuarine, Coastal and Shelf Science* 57:25-42.
- Decho, A., Kawaguchi, T., Allison, M.A., Louchard, E., Stephens, C., Reid, P., Voss, K., Wheatcroft, R., and *Taylor, B.B. 2003. Sediment properties influencing up-welling spectral reflectance signatures: the "biofilm gel effect". *Limnology and Oceanography* 48:431-443.
- Allison, M.A., 2002. 2.6.3.7 Deltas. In: Isla, F. (ed.), *Encyclopedia of Life Support Systems*, United Nations Educational, Scientific and Cultural Organization (UNESCO), Paris, France, 16 p. Web (<http://www.eolss.net>) and CD-ROM publication.
- Allison, M.A. and *Neill, C.F., 2002. Accumulation rates and stratigraphic character of the

- modern Atchafalaya River prodelta, Louisiana. *Transactions of the Gulf Coast Association of Geological Societies*, 52:1031-1040.
- Allison, M.A. and *Kepple, E.B., 2001. Modern sediment supply to the lower delta plain of the Ganges-Brahmaputra River in Bangladesh. *Geo-Marine Letters*, 21:66-74.
- Gordon, E.S., Goñi, M.A., Roberts, Q.N., Kineke, G.C., and Allison, M.A., 2001. Organic matter distribution and accumulation on the inner Louisiana Shelf. *Continental Shelf Research*, 21:1691-1721.
- Santschi, P.H., Guo, L., Asbill, S., Allison, M., *Kepple, B., and Wen, L.-S., 2001. Accumulation rates and sources of sediments and organic carbon on the Palos Verdes shelf based on multiple radioisotopic tracers (^{137}Cs , $^{239,240}\text{Pu}$, ^{210}Pb , ^{234}Th , ^{238}U and ^{14}C). *Marine Chemistry*, 73:125-152.
- Allison, M.A., Kineke, G.C., Gordon, E.S., and Goñi, M.A., 2000. Development and reworking of an annual flood deposit on the inner continental shelf off the Atchafalaya River. *Continental Shelf Research* 20:2267-2294.
- Allison, M.A., *Lee, M.T., Ogston, A.S., and Aller, R.C., 2000. Origin of mudbanks along the northeast coast of South America. *Marine Geology* 163:241-256.
- Santschi, P.H., Allison, M.A., Asbill, S., and *Perlet, A.B., 1999. Sediment transport and Hg recovery in Lavaca Bay, as evaluated from radionuclide and Hg distributions. *Environmental Science and Technology*, 33(3); 378-391.
- Allison, M.A., 1998. Historical changes in the Ganges-Brahmaputra delta front. *Journal of Coastal Research*, 14(4):1269-1275.
- Allison, M.A., and Nittrouer, C.A., 1998. Identifying accretionary mud shorefaces in the geologic record: insights from the modern Amazon dispersal system. In: J. Schieber, W. Zimmerle, and P.S. Sethi (eds.), *Mudstones and Shales: Recent Progress in Shale Research*, Schweizerbart Publishers, Stuttgart, pp. 147-161.
- Allison, M.A., 1998. Geologic framework and environmental status of the Ganges-Brahmaputra delta. *Journal of Coastal Research*, 14(3):826-837.
- Allison, M.A., Kuehl, S.A., Martin, T.D., and Hassan, A., 1998. The importance of floodplain sedimentation for river sediment budgets and terrigenous input to the oceans: insights from the Brahmaputra-Jamuna River. *Geology*, 26:175-178
- Kuehl, S.A., Levy, B.M., Moore, W.S., and Allison, M.A., 1997. Subaqueous delta of the Ganges-Brahmaputra river system. *Marine Geology*, 144:81-96.
- Schwab, W.C., Allison, M.A., Corso, W., *Lotto, L.L., Butman, B., Buchholtz ten Brink, M.,

- Denny, J.F., Danforth, W.W. and Foster, D.S., 1997. Initial results of high-resolution sea-floor mapping offshore of the New York-New Jersey metropolitan area using side-scan sonar. *Northeastern Geology and Environmental Sciences*, 19(4):243-262.
- Allison, M.A., Nittrouer, C.A., Faria, L.E.C., Silveira, O.M. and Mendes, A.C., 1996. Sources and sinks of sediment to the Amazon margin: the Amapa coast. *Geo-Marine Letters*, 16:36-40.
- Nittrouer, C.A., Kuehl, S.A., Figueiredo, A.G., Allison, M.A., Sommerfield, C.K., Rine, J.M., Faria, L.E.C., and Silveira, O.M., 1996. The geological record preserved by Amazon shelf sedimentation. *Continental Shelf Research*, 16:817-841.
- Kuehl, S.A., Nittrouer, C.A., Allison, M.A., Faria, L.E.C., Dukat, D.A., Jaeger, J.M., Pacioni, T.D., Figueiredo, A.G., and Underkoffler, E.C., 1996. Sediment deposition, accumulation, and seabed dynamics in an energetic fine-grained coastal environment. *Continental Shelf Research*, 16:787-815.
- Allison, M.A., Nittrouer, C.A. and Kineke, G.C., 1995. Seasonal sediment storage on mudflats adjacent to the Amazon River. *Marine Geology*, 125:303-328.
- Allison, M.A. and Nittrouer, C.A. and Faria, L.E.C., 1995. Rates and mechanisms of muddy shoreline progradation and retreat downdrift of the Amazon River mouth. *Marine Geology*, 125:373-392.
- Allison, M.A., Kineke, G.C., Sternberg, R.W. and Nittrouer, C.A., 1994. Use of an instrumented tripod system to examine sediment dynamics and fine-scale strata formation in muddy surfzone and nearshore environments. *Journal of Coastal Research*, 10:488-496.
- Allison, M.A. and Riggs, S.R., 1994. Clay mineral suites in cyclic Miocene sediments from the North Carolina continental margin: A model for deposition in a mixed lithogenic-phosphatic-dolomitic-biogenic setting. *Journal of Sedimentary Research*, 64(A):386-395.
- Nittrouer, C.A., Kuehl, S.A., Rine, J.M., Figueiredo, A.G., Faria, L.E.C., Dias, G.T.M., Silva, M.A.M., Allison, M.A., Pacioni, T.D., Segall, M.P., Underkoffler, E.C., Borges, H.V. and Silveira, O.F., 1991. Sedimentology and stratigraphy of the Amazon continental shelf. *Oceanography*, 4:33-38.
- AMASSEDS Research Group, 1990. A Multidisciplinary Amazon Shelf Sediment Study. *EOS, Transactions of the American Geophysical Union*, 71:1771-1777.

Technical Reports (peer reviewed)

- Allison, M.A. and Duncan, D.A., 2006. Assessing Quantity and Quality of Sand Available in the Lower Atchafalaya River Channel for Coastal Marsh and Barrier Island Restoration in Louisiana. Final Technical Report for Subcontract C-190360, Governor's Applied Coastal Research and Development Program, Baton Rouge, 63 p.
- Allison, M.A. and *Nittrouer, J.A., 2004. Assessing Quantity and Quality of Sand Available in the Lower Mississippi River Channel for Coastal Marsh and Barrier Island Restoration in Louisiana. Final Technical Report for Subcontract C-162523, Governor's Applied Coastal Research and Development Program, Baton Rouge, 55 p.
- Schwab, W.C., Allison, M.A., *Lotto, L.L., Denny, J.F., Uchupi, E., Thieler, E.R., Foster, D.S., Swift, B.A., Danforth, W.W., Lanier, D.L., and Butman, B. 2002. High-resolution Quaternary Seismic Stratigraphy of the New York Bight Continental Shelf. U.S. Geological Survey Open-File Report 02-152.
- Schwab, W.C., Denny, J., Butman, B., Danforth, W.W., Foster, D.S., Swift, B.A., *Lotto, L.L., Allison, M.A., Thieler, E.R., and Hill, J.C., 2000. Seafloor characterization offshore of the New York-New Jersey Metropolitan Area using sidescan-sonar. 2000. U.S. Geological Survey Open-File Report No. 00-295, 3 sheets.
- Thieler, E.R., Schwab, W.C., Allison, M.A., Denny, J.F., and Danforth, W.W., 1998. Sidescan-sonar Imagery of the Shoreface and Inner Continental Shelf, Wrightsville Beach, North Carolina. Reston, Virginia: U.S. Geological Survey Open-File Report No. 98-596, 3 sheets.

Papers Read (invited and volunteered)

- Jaramillo, S., Sheremet, A., and Allison, M.A., 2007. Wave dissipation over a muddy inner shelf, Louisiana, USA. 9th International Conference on Nearshore and Estuarine Cohesive Sediment Transport Processes, Brest, France, September.
- Allison, M.A., Dellapenna, T.M., Goñi, M.A., and Sheremet, A., 2007. Impact of Hurricanes Katrina and Lili on the inner shelf of the Mississippi-Atchafalaya delta. Coastal Sediments 07, June.
- Jaramillo, S., Sheremet, A., and Allison, M.A., 2007. Field observations of wave-current-sediment dynamics, Atchafalaya shelf, Louisiana, USA. Coastal Sediments '07, New Orleans, June.
- Allison, M.A., Sheremet, A., Duncan, D.A. and Jaramillo, S., 2006. Evidence for hyperpycnal sediment control on evolution of the Mississippi and Atchafalaya deltaic clinoforms. AGU Annual Meeting, San Francisco, December.
- Jaramillo S., Sheremet, A., and Allison, M.A., 2006. Observations of coupled wave-sediment

dynamics on the Atchafalaya shelf, Louisiana, USA. Physics of Estuaries and Coastal Seas (PECS) Conference, Astoria, Oregon, December.

*Wilson, C.A. and Allison, M.A., 2006. Sediment dynamics and geomorphology of eroding marsh shorelines in southeastern Louisiana. Geological Society of America Annual Meeting, Philadelphia, PA, October.

Reed, A.H., Calliari, L.J., Faas, R.W., Allison, M.A., Holland, K.T., Vinzon, S.B., Espirito Santo, R.M., Pereira, P.S. and Guedes, R.M. 2006. Characterization of offshore mud deposit and nearshore sediments at Cassino Beach, Rio Grande du Sul, Brazil. International Symposium on Mud Deposits in Coastal Areas, Porte Allegre, Brazil, November.

Allison, M.A., 2006. Renewable and non-renewable sediment sources in the lower Mississippi River and their application to coastal restoration in Louisiana. Coastal Restoration and Enhancement through Science and Technology (CREST) Riverine Process and Re-establishment and Re-introduction Workshop, Baton Rouge, April.

Allison, M.A. and Dellapenna, T.S., 2006. Preservation of Hurricane Katrina event layer stratigraphy on the Mississippi Delta Inner Continental Shelf and adjacent marshes. AGU Ocean Sciences, Honolulu, February.

Gordon, E.S., Allison, M.A., and Petsch, S.T., 2006. Offshore mobilization and microbial uptake of aged floodplain organic matter in response to Hurricane Katrina. AGU Ocean Sciences, Honolulu, February.

Dellapenna, T.S., Allison, M.A., Corbett, D.R. and Walsh, J.P., 2006. Evidence of Mississippi River delta lobe alteration caused by Hurricane Katrina, AGU Ocean Sciences, Honolulu, February.

Corbett, R., Mallinson, D., Walsh, J.P., Goni, M., Allison, M.A., *Dellapenna, T.S., Dail, M., Marciniak, K., Ryan, K., Smith, C., and Sumners, B., 2006. Evaluating Mississippi delta seafloor response to Hurricanes Katrina and Rita using multibeam sonar and coring technique. AGU Ocean Sciences, Honolulu, February.

Allison, M.A., *Nittrouer, J.A., and *Galler, J.J., 2005. The supply side of Mississippi River delta restoration: can the river provide the sediment we need? AGU Fall Meeting, San Francisco. December.

Allison, M.A., Demas, C.R., Meselhe, E., McCorquondale, A., and Blaine, C.A., 2005. Toward a 3-D numerical model of sediment dynamics in the Mississippi River in Louisiana: observational advances and needs. Mississippi Modeling Forum, U.S. Army Corps of Engineers Vicksburg District, July.

Allison, M.A., 2005. The supply side of coastal restoration: what sediment is available in the lower Mississippi River? CREST Symposium: Progress in Understanding Coastal Land

- Loss and Restoration in Louisiana: The W. Alton Jones Foundation Report Revisited. April.
- Majzlik, E.J., Dellapenna, T.M., and Allison, M.A., 2005. Occurrence of scour pits on the inner continental shelf of Matagorda Peninsula, Texas, following the landfall of Hurricane Claudette, July 15, 2003. *Geological Society of America Southeastern Section*, April.
- Clinton, R., Gisewhite, R., Monacci, R., Gordon, E., Goni, M.A., Allison, M.A., and Kineke, G.C., 2004. The Effect of Hurricane Lili on the Distribution of Organic Matter in the Inner Louisiana Shelf (Gulf of Mexico, USA). *AGU Fall Meeting*, December.
- Majzlik, E., Dellapenna, T.M., and Allison, M.A., 2004. Seabed scouring and rapid recovery of the lower shoreface and inner continental shelf due to Hurricane Claudette (July 2003), Matagorda Peninsula, Texas. *AGU Fall Meeting*, December.
- *Wilson, C.A. and Allison, M.A., 2004. CREST: Wetland Platform Erosion by Wave Action and its Implications for Future Mitigation Projects in South Louisiana. Environmental State of the State IX Annual Conference, New Orleans, October
- *Nittrouer, J.R. and Allison, M.A., 2004. Flux, volume, and sedimentological characteristics of the active sand sheet within the lower Mississippi River. Environmental State of the State IX Annual Conference, New Orleans, October.
- *Wilson, C.A. and Allison, M.A., 2004. Wetland Platform Erosion by Wave Action and its Implications for Future Mitigation Projects in South Louisiana. *AGU Fall Meeting*, December.
- Allison, M.A., 2004. The importance of hyperpycnal transport on late Holocene stratigraphic development on the deltaic margins of the Mississippi, Amazon, and Ganges-Brahmaputra. *International Geological Congress*, Florence, Italy, August.
- Dellapenna, T.M., Allison, M.A., *Robb, B., Bronikowski, J., Cerf, M., Majzlik, E., and Noll, C., 2004. Architecture of barrier island shoreface response to hard structures, beach nourishment, and subsidence: investigations along Galveston and Follet's Islands, Upper Texas coast. Geological Society of America, South-Central Section meeting, College Station, Texas, March.
- *Galler, J.J., Bianchi, T.S., Allison, M.A., 2004. Transport and sources of terrestrial organic carbon in sand bed load of the Lower Mississippi River. *AGU Ocean Sciences Meeting*, January.
- Allison, M.A., 2003. On-going survey of sediment availability in the Lower Mississippi River. Environmental Protection Agency/ State of Louisiana workshop on use of dredging technology to create coastal wetlands and renourish barrier islands in coastal Louisiana, Metairie, LA, October.

- Allison, M.A., 2003. River trends: transport and storage of mud and sand in the Lower Mississippi. Workshop on River Resources Management in the 21st Century, New Orleans, LA, Sponsored by the Louisiana Governor's Office for Coastal Activities. February.
- Draut, A. E., Kineke, G. C., Velasco, D. W., Allison, M. A., Prime, R. J. 2003. Influence of the Atchafalaya River on stratigraphic evolution of the Chenier Plain inner shelf, Northern Gulf of Mexico. American Geophysical Union Annual Meeting, December.
- Allison, M.A., and *Neill, C.F., 2003. Modern shelf clinofolds in the Mississippi-Atchafalaya delta. Geological Society of America Annual Meeting, November.
- *Robb, B.K. and Allison, M.A., 2003. Anthropogenic controls on shoreface evolution along Galveston Island, Texas, Coastal Sediments '03, St. Petersburg, June.
- Dellapenna, T. M., Allison, M.A., Majzlik, E., Gill, G.A., Lehman, R. A. Sources of turbidity in shallow Gulf Coast estuaries: relative importance of shrimp trawling, winter storms, and riverine inputs to Trinity Bay, Texas. *Estuarine Research Foundation Biennial Meeting*, September.
- *Galler, J.J. and Allison, M.A., 2002. Estuarine and bathymetric controls on seasonal sediment storage in the lower Mississippi and Atchafalaya Rivers. Geological Society of America Annual Meeting, Denver, CO., October.
- *Neill, C.F., and Allison, M.A., 2002. Prodelta formation on the Atchafalaya Shelf, Louisiana. Geological Society of America Annual Meeting, Denver, CO., October.
- Allison, M.A. and Neill, *C.F., 2002. Accumulation rates and stratigraphic character of the modern Atchafalaya River prodelta, Louisiana. *Transactions of the Gulf Coast Association of Geological Societies*, Austin, Texas, October.
- Allison, M.A., *Lee, M.T., and Kineke, G.C., 2002. The role of fluid muds composed of Amazon sediment on shoreface accretion in French Guiana. *AGU Ocean Sciences Meeting*, February.
- Dellapenna, T.M., Allison, M.A., Gill, G., Warnken, K., and Lehman, R., 2001. The role of anthropogenically induced seabed disturbances in Gulf Coast estuaries: a case study of the impact of shrimp trawling on Galveston Bay sediments. Geological Society of America Annual Meeting, October.
- Draut, A. E., Kineke, G. C., Allison, M. A., Velasco, D., and Schultz, P., 2001. Localized erosion and progradation along the chenier plain coast, Louisiana. Geological Society of America Annual Meeting, October.

- Allison, M.A. and *Lee, M.T., 2001. Timescales and volumes of sediment exchange between the mangrove fringe and shelf in French Guiana. 8th French Congress of Sedimentology special session, November 2001.
- Allison, M.A. and Kineke, G.C., 2001. Early development of a prodelta off the Atchafalaya River in Louisiana. *AGU Chapman Conference, Ponce, Puerto Rico*, June 2001.
- Allison, M.A. and Coakley, B., 2001. Seasonal and interannual storage of fine-grained sediment in the lower Mississippi River: evidence from acoustic mapping and bottom sampling. *American Society of Limnology and Oceanography (ASLO) Albuquerque*, February 2001.
- Campanella, R., Coakley, B., and Allison, M.A., 2001. Historical bathymetry from the Army Corps of Engineers for the lower Mississippi River, 1915-1992. Evolution of a controlled river. *American Society of Limnology and Oceanography (ASLO), Albuquerque* February 2001.
- Coakley, B. and Allison, M.A., 2001. Repeat swath mapping at English Turn: direct imaging of bedform migration in the lower Mississippi River. *American Society of Limnology and Oceanography (ASLO), Albuquerque*, February 2001.
- Allison, M.A. and *Taylor, B.B., 2000. In situ measurement of the near-bed and in-sediment light field. *Ocean Optics XV*, October, p. 12.
- Allison, M.A. and *Perlet, E.B., 2000. Onshore sediment flux in the Ganges-Brahmaputra Lower Delta Plain: Is it significant? *AGU Ocean Sciences Meeting*, February.
- Dellapenna, T.M., Allison, M.A., Gill, G., Warnken, K., and Lehman, R., 2000. The role of wind and trawling resuspension on the particulate exchange between the water column and seabed in shallow estuaries. *AGU Ocean Sciences Meeting*, February.
- *Lanier, D.L., Allison, M.A., Schwab, W.C., Thieler, E.R., and Butman, B., 2000. Effects of Holocene transgression on the stratigraphy of the NY Bight Inner Continental Shelf. *AGU Ocean Sciences Meeting*, February.
- *Taylor, B.B. and Allison, M.A., 2000. Characterization of the in-sediment light field of sandy coastal environments. *AGU Ocean Sciences Meeting*, February.
- Allison, M.A., *Dellapenna, T.M., and Gill, G.A., 1999. The importance of shrimp trawling on turbidity and seabed character in shallow, wind-dominated, Gulf Coast estuaries. *Estuarine Research Foundation Biennial Meeting*, New Orleans, September.
- Gill, G.A., Allison, M.A., Lehman, R.D. and Dellapenna, T.M., 1999. The impact of trawling on sediment-water exchange of nutrients and trace metals in Galveston Bay. *Estuarine*

Research Foundation Biennial Meeting, New Orleans, September.

- Buchholtz ten Brink, M., Schwab, W.C., Butman, B., Allison, M.A., Schlee, J., Mecray, E., *Lotto, L.L., *Lanier, D., 1998. Contaminants in New York Bight sediments: a tracer of modern sediment dynamics and a legacy for the future. *AGU Ocean Sciences Spring Meeting*, May, 1998.
- Allison, M.A., Kuehl, S.A., and Goodbred, S.L., 1998. Sediment budget partitioning across the river-ocean interface: insights from the Ganges-Brahmaputra delta. *World Deltas Conference*, August 1998, New Orleans, LA.
- Allison, M.A., *Lee, M.T., Ogston, A.S., and Aller, R.C., 1998. Mudbank formation along the northeast coast of South America. *AGU Ocean Sciences Meeting*, February, 1998
- *Lee, M.T., Allison, M.A., and Baltzer, F., 1998. A remote sensing/geochronology study of coastal morphology associated with episodic Amazon sediment supply. *AGU Ocean Sciences Meeting*, February, 1998
- Schwab, W.C., Thieler, E.R., Cacchione, D.A., Gayes, P.T., Harris, M.S., and Allison, M.A., 1998. Geomorphic variables in nearshore sediment flux directions. *AGU Ocean Sciences Meeting*, February.
- Schwab, W.C., Butman, B., Denny, J.F., Buchholtz ten Brink, M., Corso, W., Lotto, L.L., and Allison, M.A., 1997. High-resolution sea-floor mapping of the New York Bight Apex: sedimentary framework. *Geological Society of America, Abstracts with Programs*, 29(1):77.
- Schwab, W.C., Thieler, E.R., Foster, D.S., Denny, J.F., Swift, B.A., Danforth, W.W., Allen, J.R., *Lotto, L.L., Allison, M.A., Gayes, P.T., Donovan-Ealy, P., 1997. Mapping the inner shelf off southern Long Island, NY: Implications for coastal evolution and behavior. *AGU Fall Meeting*, December, 1997.
- Allison, M.A., *Lotto, L.L., Buchholtz ten Brink, M., Schwab, W.C., and Butman, B., 1997. Formation and geologic evolution of the Hudson Shelf Valley, New York Bight. *Geological Society of America, Abstracts with Programs*, 29(1):27.
- Allison, M.A., *Lee, M.T., Aller, R.C., and Ogston, A.S., 1997. Amazon sediment accumulation and mudbank genesis, northern Amapa coast, Brazil. *Forschungszentrum Terramare Berichte (Muddy Coasts 97)*, no. 2, p. 14-15.
- *Lotto, L.L., Allison, M.A., Schwab, W.C., Butman, B., Foster, D., Denny, J.F., and Corso, W., Seismic stratigraphy of the New York Bight, NY/NJ Continental Shelf. *Geological Society of America, Abstracts with Programs*, 29(1):62.
- Allison, M.A., 1996. Historical changes in the Ganges-Brahmaputra delta front. *AGU Ocean Sciences Meeting*, February.

- Buchholtz ten Brink, M.R., Allison, M.A., Schlee, J.S., Casso, M., *Lotto, L., and Bopp, R.F., 1996. Sewage sludge and sedimentary processes in the New York Bight: where does it go from here? *AGU Ocean Sciences Meeting*, February.
- Schwab, W.C., Butman, B., Corso, W., and Allison, M.A., 1996. Mapping and characterization of waste disposal sites in the New York Apex using side-scan sonar, *AGU Ocean Sciences Meeting*, February.
- Goodbred, S.L., Jr., Kuehl, S.A., and Allison, M.A., 1995. Recent floodplain sedimentation along the Ganges-Brahmaputra River system: implications for sediment flux to the shelf and beyond. *SEPM Global Sedimentary Geology Meeting Abstracts with Programs*, 1:60.
- Levy, B.M., Kuehl, S.A., and Allison, M.A., 1995. High-resolution seismic stratigraphy off the Ganges-Brahmaputra River system: subaqueous deltaic progradation on the Bengal Shelf. *SEPM Global Sedimentary Geology Meeting Abstracts with Programs*, 1:83.
- Schwab, W.C., Twichell, D.C., Rodriguez, R.W., Thielier, E.R., Allison, M.A., and Gayes, P.T., 1995. Linear rippled scour depressions in the nearshore: possible indicators of cross-shelf sediment transport. *Geological Society of America, Abstracts with Programs*, 27:A76.
- Allison, M.A., Kineke, G.C., Nittrouer, C.A., and Sternberg, R.W., 1995. A conceptual model for trapping fine-grained sediment on the shoreface. *Geological Society of America, Abstracts with Programs*, 27:A77.
- Allison, M.A. and Nittrouer, C.A., 1995. Sedimentary structures and microfabric of fine-grained sediments from the modern Amazon shoreface. *Geological Society of America, Abstracts with Programs*, 27:A400.
- Buchholtz ten Brink, M.R., Allison, M.A., and Schlee, J.S., 1995. A side-scan sonar survey of the upper Hudson Shelf Valley. *Geological Society of America, Abstracts with Programs*, NE section meeting.
- Buchholtz ten Brink, M.R., Allison, M.A., Schlee, J.S., and Casso, M.A., 1995. The legacy of sewage sludge disposal in New York Bight., *Society of Environmental Toxicology and Chemistry, 2nd World Conference*, Vancouver, November.
- Allison, M.A., Buchholtz ten Brink, M.R., and Schlee, J.S., 1994. Sewage-sludge in the Hudson Shelf Valley: a tracer of fine-grained sediment dynamics. *EOS, Transactions of the American Geophysical Union*, 75:203.
- Buchholtz ten Brink, M.R., Allison, M.A., and Schlee, J.S., 1994. Sewage-sludge migration in the Hudson Shelf Valley. *EOS, Transactions of the American Geophysical Union*, 75:325.

- Schwab, W.C., Thieler, E.R., and Allison, M.A., 1994. Rippled scour depressions on the shoreface off Wrightsville Beach, North Carolina: implications for across-shelf sediment transport. *EOS, Transactions of the American Geophysical Union*, 75:341.
- Allison, M.A., Nittrouer, C.A., Faria, L.E.C., Silveira, O.F. and Mendes, A.C., 1993. Recent Amazon River sedimentation along the Amapa Coast, Brazil. *Simposio AmasSeds '93 Abstracts*, Niteroi, Brazil, p. 3..
- Silveira, O.F.M., Faria, L.E.C., Nittrouer, C.A., Allison, M.A., and Mendes, A.C., 1993. The Amapa Coastal Plain, preliminary results. *Simposio AmasSeds '93 Abstracts*, Niteroi, Brazil, p. 47.
- Allison, M.A., Nittrouer, C.A., Kuehl, S.A. and Segall, M.P., 1992. Microfabric analysis of recent fine-grained sediments from Amazon coastal environments. *Geological Society of America, Abstracts with Programs*, 24(3):3.
- Allison, M.A., Nittrouer, C.A., Kuehl, S.A., Dias, G.T.M. and Faria, L.E.C., 1992. Mudcape accretion: a new mechanism for coastal progradation in the Amazon dispersal system. *Second International Research Symposium on Modern and Ancient Clastic Tidal Deposits*, Wilhelmshaven, Germany, 25-28 August.
- Kuehl, S.A., Segall, M.P., Allison, M.A. and Miller, R.L.. Ganges-Brahmaputra sediment dispersal on the Bengal continental shelf: subaqueous deltaic progradation and submarine-canyon bypassing. *International Geological Congress*, Kyoto, Japan, 24 August-3 September 1992.
- Allison, M.A., Nittrouer, C.A., Faria, L.E.C., Silveira, O.F. and Mendes, A.C., 1992. Mechanisms of coastal progradation adjacent to the Amazon River. *EOS, Transactions of the American Geophysical Union*, 73:268.
- Segall, M.P., Kuehl, S.A., Allison, M.A., Nittrouer, C.A., Rine, J.M., Faria, L.E.C., Vital, H., Figueiredo, A.G. and Dias, G.T.M., 1991. Coastal sedimentary facies north of the Amazon River - indicators of relative sea-level fluctuations in the past 1000 years. *Geological Society of America, Abstracts with Programs*, 23:287.
- Rine, J.M., Nittrouer, C.A., Allison, M.A., Kuehl, S.A. and Pacioni, T., 1991. Transport and sorting of sediments within the dispersal system of the Amazon by shelf processes. *SEPM Research Conference on Continental Margins: Tectonics, Eustacy and Climate Change*, 15-18 August.
- Segall, M.P., Kuehl, S.A., Allison, M.A., Nittrouer, C.A., Rine, J.M., Faria, L.E.C. and Vital, H., 1990. Preliminary results from the AMASSEDS coastal study - geotechnical characteristics of coastal sediments adjacent to the Amazon River. *Geological Association of Canada abstract with programs*, 15:A119.

- Allison, M.A., Nittrouer, C.A., Rine, J.M., Kuehl, S.A., Segall, M.P., Faria, L.E.C., Dias, G.T.M. and Figueiredo, A.G., 1990. Preliminary results from the AMASSEDS project - deposition, erosion, and accumulation of Amazon River sediment along the Amapa coast, Brazil. *13th International Sedimentological Congress*, Nottingham, England, 26-31 August, p. 17-18.
- Dias, G.T.M., Rine, J.M., Nittrouer, C.A., Allison, M.A., Kuehl, S.A., Sucasas da Costa, P., Faria, L.E.C. and Figueiredo, A.G., 1990. Geomorphologie cotiere de l'Amapa - Bresil. considerations sur la dynamique sedimentaire actuelle. *PIGC/ORSTOM Symposium L'Evolution des Littoraux des Guyanes et la zone Caribe pendant le Quaternaire*, Cayenne, French Guiana, p. 47-51.
- Faria, L.E.C., Mendes, A.C., Vital, H., Ferriera, M.R., Nittrouer, C.A., Rine, J.M., Allison, M.A., Kuehl, S.A. and Segall, M.P., 1990. Evolucao geologica da Ilha de Maraca, costa do Amapa, e relacao com a elevacao relativa do nivel do mar durante of Holoceno na regioao norte do Brasil. *PIGC/ORSTOM Symposium L'Evolution des Littoraux des Guyanes et la zone Caribe pendant le Quaternarie*, Cayenne, French Guiana, p. 63-68.
- Faria, L.E.C., Nittrouer, C.A., Rine, J.M., Allison, M.A., Kuehl, S.A. and Segall, M.P., 1990. Evolucao geologica recente da costa do Amapa - Regiao da Ilha de Maraca/Cabo Norte. *Brazilian Geological Congress, Anais do 36*, Natal, R.N., 2:662-675.
- Dias, G.T.M., Rine, J.M., Nittrouer, C.A., Allison, M.A., Kuehl, S.A., Sucasas da Costa, P., Faria, L.E.C. and Figueiredo, A.G., 1990. Morphological and sedimentary aspects of the mapa coastal zone - Brazil. *EOS, Transactions of the American Geophysical Union*, 71:1365.
- Allison, M.A., Nittrouer, C.A., Rine, J.M., Kuehl, S.A., Faria, L.E.C., Dias, G.T.M. and Figueiredo, 1990. Depocenters of Amazon River sedimentation along the Amapa coast, Brazil. *EOS, Transactions of the American Geophysical Union*, 71:1365.
- Nittrouer, C.A., Rine, J.M., Allison, M.A., Kuehl, S.A., Pacioni, T., 1990. Short-term fluctuations in sedimentary strata on the continental shelf near the mouth of the Amazon River. *EOS, Transactions of the American Geophysical Union*, 71:1377.
- Faria, L.E.C., Mendes, A.C., Vital, H., Ferreira, M.R., Silveira, O.F.M., Nittrouer, C.A., Rine, J.M., Allison, M.A., Kuehl, S.A. and Segall, M.P., 1990. Geological evolution of Maraca Island, Amapa coast, and its relation with sea level changes in the north of Brazil. *EOS, Transaction of the American Geophysical Union*, 71:1394.
- Riggs, S.R. and Allison, M.A., 1989. Miocene clay mineral facies: inter-relationships between phosphorite and dolomite formation and siliciclastic sedimentation, mid-Atlantic U.S. continental margin. *Proceedings of the 9th International Clay Conference*, Strasbourg, France.

Allison, M.A. and Riggs, S.R., 1988. Distribution patterns and environmental controls on clay sedimentation in the Miocene Pungo River Formation, North Carolina continental margin. Geological Society of America abstracts with programs, 20:252.

Extramural Funding History

Funded

- A System for Monitoring Wave-Sediment Interactions in Muddy Environments. Office of Naval Research, DURIP Program, 7/1/07-6/30/08.
- Wave-Sediment Interaction in Muddy Environments: A Field Experiment in Support of the Multidisciplinary University Research Initiative: Remote Sensing of Seafloor Properties in Denied Areas, Office of Naval Research Coastal Geosciences Program (w/ A. Sheremet, A.J. Mehta, U. Florida), 2/1/07-1/30/10.
- Quantifying Subsidence in Barataria Bay and Surrounding Areas and its Impact on Recent Bay Evolution, State of Louisiana CREST program, 07/01/06-06/30/08 (w/ F. Marcantonio, TAMU).
- Sediment Transport Experimental Studies in Support of Riverine Sand Mining/Scofield Island Restoration, Louisiana CWWPRA Program, Louisiana Dept. of Natural Resources and National Marine Fisheries Service. 1 year, starting date in 10/06 (plus collaborative projects with E. Meselhe, UL Lafayette and A. McCorquondale, UNO).
- Groundtruthing of Remote Sensing Hyperspectral Data in the Squahomish River Delta, Washington State. Naval Research Laboratory subcontract, 08/01/06-7/31/07.
- Galveston Island Sand Resources and Beach Accretion Part IV: Pirates Beach to San Luis Pass Texas Coastal Management Program, State of Texas, 10/01/05-03/31/07 (plus collaborative project with T. Dellapenna, TAMUG)
- A Report on Sediment Availability in the Mississippi River for Coastal Restoration in Louisiana: New Orleans to Head of Passes (River Mile 105 to 0)., 1 year, EPA/U.S Army Corps New Orleans (plus collaborative project with S. Penland and M. Kulp, UNO-PIES), starting date in 11/06.
- Assessing Quantity and Quality of Sand available in the Lower Atchafalaya River channel for coastal marsh and barrier island restoration in Louisiana, State of Louisiana GACRDP program, 03/01/05-10/15/06.
- Rapid Response Cruise to Examine the Impact of Hurricane Katrina on the Mississippi Delta Continental Shelf and Adjacent Shoreline, 10/01/05-09/30/06, Office of Naval Research, Coastal Geosciences Program, + UNOLS shiptime (project routed through University of Washington due to Katrina disruption)

- LEAG years 4: Bedload Sediment Transport in the Lower Mississippi River, Tulane/Xavier Center for Bioenvironmental Research/U.S. Geological Survey, 01/01/06-12/31/07.
- Large Coupled Dynamics of Waves and Fluid-Mud Layers, Office of Naval Research Coastal Geosciences Program, 12/01/04-11/30/06 (plus collaborative project with A. Sheremet, U. Florida)
- Galveston Island Sand Resources and Beach Accretion Part III: End of the Seawall to Pirates Beach, Texas Coastal Management Program, State of Texas, 01/15/05-03/31/07, (plus collaborative project with T. Dellapenna, TAMU)
- Collaborative Research: How temporal changes in river discharge and storms affect the source and age distribution of sedimentary organic carbon across a river-dominated margin, National Science Foundation, Integrated Carbon Cycle Research Program, 10/01/02-03/31/05, (w/B. McKee, T. Bianchi—Tulane, plus collaborative projects with VIMS and UGA)
- Sand resources and seabed processes of the Colorado River Delta, Texas Coastal Management Program, State of Texas, 01/15/03-03/31/04, (plus collaborative project with T. Dellapenna, TAMU)
- LEAG years 2 & 3: Sources and mechanisms of fine-grained sediment trapping in the Lower Mississippi River estuary, Tulane/Xavier Center for Bioenvironmental Research/U.S. Geological Survey, 10/01/04-09/30/07
- Wetland Platform Erosion by Wave Action in the Mississippi Deltaic Plain, State of Louisiana CREST program, 07/01/03-06/30/05
- Assessing Quantity and Quality of Sand Available in the Lower Mississippi River Channel for Coastal Marsh and Barrier Island Restoration, State of Louisiana, GACRDP program, 7/31/03-06/30/04.
- Effects of Sediment Microfabric on Benthic Optical Properties: CoBOP Year 7, Office of Naval Research, Environmental Optics Program, 12/01/02-02/29/04
- LEAG: Bed Image Velocimetry of Mississippi and Atchafalaya River Bedload Sand Transport, Tulane/Xavier Center for Bioenvironmental Research/U.S. Geological Survey, 10/01/03-09/30/04.
- Time-lapse Instrumentation to Measure In Situ Benthic Properties, Office of Naval Research, Defense University Research Instrumentation Program, (w/R. Wheatcroft, Oregon State), 04/01/02-03/31/03.
- The Development of Planar Fiber-Optic Microprobes for Rapid, Remote Assessment of Seafloor Bulk Properties and Sediment Grain Size, Office of Naval Research, Geology and Geophysics Program, 01/02/01-12/31/02.

- Acoustic Mapping of Sediment Storage in the Lower Mississippi and Atchafalaya Rivers, DoD/Office of Naval Research/Tulane and Xavier Center for Bioenvironmental Research, 06/01/01-05/31/03.
- Repeat Acoustic Imaging of the Mississippi River Bed; Direct Observation of Sediment Flux as a Consequence of River Discharge Variations, DoD/Office of Naval Research/Tulane and Xavier Center for Bioenvironmental Research (w/ B. Coakley—Tulane), 9/01/99-8/30/00.
- Transport and transformation of dissolved and particulate materials on continental shelves influenced by large rivers: Seabed and sediment-water interface processes, National Science Foundation CoOP manuscript preparation for examining buoyant plumes in the coastal ocean (w/B. McKee, T. Bianchi, G. Kineke, R. Aller).
- Acoustic Mapping of Cross-shelf Sediment Transport off Galveston Island, Texas, Texas Coastal Management Program—State of Texas, (subcontract to TAMUG), 12/01/00-06/30/03.
- Effects of Sediment Microfabric on Benthic Optical Properties, Office of Naval Research, Environmental Optics Division, Coastal Benthic Optics Program initiative (CoBOP), 10/01/96-09/30/02.
- Evaluating Basin/Shelf Effects in the Delivery of Sediment-Hosted Contaminants in the Lower Atchafalaya and Mississippi Rivers, U.S. Geological Survey, St. Petersburg, 11/30/00-10/31/01, (subcontract to USGS w/ B. Coakley).
- The Importance of Episodic Events on Turbidity and the Mobility of Heavy Metals in Texas Estuaries, Texas Sea Grant Program, 3/15/98-2/28/01 (w/ G. Gill-TAMU).
- Collaborative Research: Holocene Evolution of the Ganges-Brahmaputra Delta: Implications of Floodplain/Delta Plain Development for Deltaic Models, National Science Foundation, Geology and Paleontology Program, 09/01/97-02/28/00 (w/ separate collaborative project of S. Kuehl, VIMS).
- U.S.-France Cooperative Research: Effects of Amazon Sediment Migration on Mangrove Recruitment and the Geological/Geochemical Evolution of the Guianas-Amapa Coast, South America, National Science Foundation International Programs- CNRS France, 03/01/98-02/28/00, U.S. participants (Allison U.S. Coordinator, Frederic Baltzer-U. Paris French Coordinator)
- Biogeochemical Cycling of Amazon Shelf Sediments (subcontract to R.C. Aller, SUNYSB), National Science Foundation, Chemical Oceanography Program, 12/01/95-03/31/99.
- Testing Sequence Stratigraphic Models of Highstand Accretion: A Seismic Study of the Amazon Inner Continental Shelf and Shoreface, American Chemical Society, Petroleum Research Fund, 2/1/96-01/31/99.

- Seafloor Mapping and Regional Geologic Characterization, New York Bight Continental Shelf, U.S. Geological Survey, Marine and Coastal Division Eastern Region Team, 4/1/97-3/31/99 (TAMU-USGS cooperative agreement, Allison only PI).

Classes Taught at TAMU/Tulane

Undergraduate

TAMU-MARS101 – Introduction to Marine Sciences
 TAMU-GEOL101 – Physical Geology
 TAMU-GEOL102 – Historical Geology
 TAMU-GEOL306 – Stratigraphy and Sedimentation (w/lab)
 TAMU-GEOL330 – Petroleum Geology
 TAMU-MARS430 – Geological Oceanography
 TAMU-MARS485 – Problems
 Tulane-EENS111 – Physical Geology
 Tulane-EENS112 – Historical Geology
 Tulane-EENS201—Introduction to Oceanography
 Tulane-EENS327 – Sedimentation and Stratigraphy (w/lab)
 Tulane-ENST377 – Mississippi River Basin Colloquium (multiple instructors)
 Tulane-EENS491 – Independent Study
 Tulane-EENS688 – Writing Practicum
 Tulane/LUMCON – Coastal Field Geology

Graduate and Advanced Undergraduate

TAMU-OCNG689 – Recent Advances in Coastal and Shelf Geology
 Tulane-EENS619 – Marine Geology
 Tulane-EENS628 – Coastal Strata Formation
 Tulane-EENS624 – River-Dominated Continental Margins (w/McKee)

Thesis/Post-doctoral Supervision (only including those as major advisor)

Graduate Students:

Linda Lotto—M.S., TAMU—1998, Michael Lee —M.S., TAMU—1999, Daniel Lanier—M.S., TAMU—incomplete, Brenton Taylor—M.S., TAMU, incomplete, Bethany Robb—M.S., Tulane University—2003, Ciara Neill—M.S., Tulane—2003, John Galler—Ph.D., Tulane—2004, Jeffrey Nittrouer—M.S., Tulane—2006, Carol Wilson—M.S., Tulane—2006, Senanu Agbley—Ph.D., Tulane, started 2004, Swapan Sahoo—Ph.D., Tulane, started 2004.

Postdocs:

Timothy Dellapenna, TAMU 1998-1999
 Alexander Kolker, Tulane, present

Selected Synergistic Activities (2004-2006 only)

- J. William Fulbright Fellow, University of Paris, 2004
- IGERT panelist, National Science Foundation
- Adjunct Professor and Research Associate, Pontchartrain Institute of Environmental Sciences and Dept. of Geology & Geophysics, University of New Orleans, 2004-
- Committee Member, American Geophysical Union Post-Katrina Conference of Experts on Hurricane Impact on the Gulf Coast, January 2006 (see final report at <http://www.agu.org/report/hurricanes/>).
- Committee Member, Envisioning the Future of the Gulf Coast: Using Engineering and Science to Protect Communities, the Economy and the Ecosystem, America's Wetland Campaign, April, 2006 (see report at <http://www.futureofthegulfcoast.org/>).
- Co-convener, Special Katrina session, American Geophysical Union Ocean Sciences Meeting, Honolulu, February 2006
- Invited Speaker, Special Katrina session, American Geophysical Union Annual Meeting, San Francisco, December 2005
- Invited Plenary Speaker and Session Chair, International Geological Conference, Florence, Italy, August 2004
- Invited Speaker, Mississippi River Modelling Forum, U.S. Army Corps of Engineers, Vicksburg, July 2005
- Invited Speaker, CREST Symposium: Progress in Understanding Coastal Land Loss and Restoration in Louisiana: The W. Alton Jones Foundation Report Revisited. April, 2005.
- Steering Committee Member, National Science Foundation Coastal Ocean Program (CoOP), 2005-2007.
- Co-Director, Tulane Center for River-Ocean Studies, 2004-2006
- Graduate Advisor, Department of Earth & Environmental Sciences, Tulane 2006-
- Assistant Director, River-Ocean Studies, Tulane-Xavier Center for Bioenvironmental Research, 2005-

- Committee Member, Coastal Louisiana Ecosystem Assessment & Restoration (CLEAR) Science and Technology Review Team, 2006-
- Reviewer in multiple national and international oceanographic and geological journals, writer and reviewer of earth science materials for middle and high school students in several states, expert witness in court cases involving coastal science.