

## RESUME

Samuel Jackson Bentley, Sr.  
Professor  
Harrison Chair in Sedimentary Geology  
Director, Coastal Studies Institute

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### Areas of Expertise

- Marine Sedimentology, focusing on processes and geological products of fluvial-marine dispersal systems
- Sediment Radiochemistry, focusing on measurement of seabed processes using U-series and fallout isotopes
- Bioturbation: modeling, and measurement via radiochemical and X-radiographic techniques

### Education

- 1998 PhD, Coastal Geological Oceanography, SUNY Stony Brook, C. A. Nittrouer, advisor.  
1992 MS, Geology, University of Georgia, R.W. Frey, advisor.  
1985 BA *Magna Cum Laude*, University of Georgia

### History of Assignments

- 2013-Present *Director*, Coastal Studies Institute, Louisiana State University  
2014-Present *Professor and Harrison Chair in Sedimentary Geology*, Department of Geology and Geophysics, Louisiana State University  
2011-2014 *Associate Professor and Harrison Chair in Sedimentary Geology*, Department of Geology and Geophysics, Louisiana State University  
2011-Present *Adjunct Professor*, Earth Sciences Department, Memorial University of Newfoundland, Canada  
2010-2011 *Deputy Department Head*, Earth Sciences Department, Memorial University of Newfoundland, Canada

- 2006-2011 *Canada Research Chair in Seabed Processes and Seabed Imaging*, and *Associate Professor*, Earth Sciences Department, Memorial University of Newfoundland
- 2006-Present *Adjunct Professor*, Department of Oceanography and Coastal Sciences, Louisiana State University
- 2004-2006 *Associate Professor*, Department of Oceanography and Coastal Sciences, Louisiana State University
- 1999-2004 *Assistant Professor*, Department of Oceanography and Coastal Sciences, Louisiana State University
- 1998-1999 *Postdoctoral Fellow*, Naval Research Laboratory, Stennis Space Center

#### Honors

- 2011-Present  
*Billy and Ann Harrison Endowed Chair in Sedimentary Geology*, LSU Dept of Geology and Geophysics
- 2010-2012  
*Research Councilor* (internationally elected position), Society for Sedimentary Geology
- 2006 *Canada Research Chair in Seabed Processes and Seabed Imaging*, Memorial University of Newfoundland. Awarded based on international competition.
- 2005 *Visiting Scientist Fellowship for 2006*, National Institute of Water and Atmospheric Research, New Zealand.
- 2003 *James Lee Wilson Award* from the Society for Sedimentary Geology in recognition of "Excellence in Sedimentary Geology by a Young Scientist."
- 2003 LSU Tiger Athletic Foundation Award for *Excellence in Teaching*
- 2001 *NSF CAREER Grant* (see funding).
- 2000 *Alan Berman Award for Outstanding Publication authored by US Navy Employee: Furukawa, Y., Bentley, S.J., Shiller, A., Lavoie, D., and Van Cappellen, P., 2000, Early diagenesis driven by biologically enhance oxygen flux in North Key Harbor, Dry Tortugas National Park, Florida.* Journal of Marine Research 58: 493-522.
- 1999 *Outstanding Paper Published in Palaios: Bentley and Nittrouer, 1999, Physical and Biological Influences on Sedimentary Fabric in a Oxygen-depleted Depositional Environment.*
- 1998-1999  
*NRL/CORE Postdoctoral Fellow*
- Offered *NRL-SSC Visiting Scientist Fellowship* for Summer 2000 (declined due to scheduling conflicts)
- Bachelor of Arts *Magna Cum Laude*, 1985, University of Georgia
- Member, *Phi Beta Kappa* Society
- University of Georgia Graduate School Scholarship, 1985, 1986

Professional and Administrative Activities

- 2014-Present *Technical Liaison*, Louisiana Coastal Master Plan 2017 Science and Engineering Board (responsible for Master Plan technical peer review)
- 2014 *Member*, Louisiana Board of Regents Master Plan Research Advisory Subcommittee for Coastal and Water Resources
- 2013-Present *Director*, LSU Coastal Studies Institute (appointed by Vice Chancellor for Research and Economic Development)
- 2013 *Chair*, Review Panel for Louisiana Geological Survey and Center for Energy Studies
- 2013 *Member*, LSU Transition Advisory Team, Research and Discovery Subcommittee
- 2012-2013 *Member*, Search Committee for LSU Vice Chancellor for Research and Economic Development
- 2012-Present *Chair*, Education and Knowledge Transfer Working Group of the Community Surface Dynamics Modeling System (NSF Facility, csdms.colorado.edu)
- 2012-Present *Member*, Executive Committee of the Community Surface Dynamics Modeling System (NSF Facility, csdms.colorado.edu)
- 2012-2013 *Member*, LSU CCT Computational Science Application Search Committee
- 2012 *Chair*, LSU Coastal Sustainability and Environment Working Group, established by the Vice Chancellor (Research and Economic Development) to expand and reorganize LSU Coastal Studies Institute
- 2011-Present *Guest Lecturer*, Williams College-Mystic Seaport Maritime Studies Program, Mississippi Delta Field Seminar. Spring and fall semester, every year.
- 2011-Present *Member and Chair* (2011-2013), LSU Geology and Geophysics Endowed Chairs Search Committee
- 2011-2012 *Member*, LSU Geology and Geophysics Executive Committee
- 2011-2012 *Member*, LSU Oceanography and Coastal Sciences Coastal Geologist Search Committee
- 2011-2013 *Graduate Advisor*, LSU Department of Geology and Geophysics
- 2010-Present *Member*, Royal Engineers and Consultants, Corporate Advisory Board
- 2010-Present *Member*, Special Engineering and Science Team for Restoration of the Mississippi Delta, funded and organized by the National Audubon Society, Environmental Defense Fund, and National Wildlife Federation, chaired by Dr. John Day.
- 2010-2012 *Research Councilor*, SEPM (SEPM-wide elected position on Executive Council)
- 2010 *Invited Speaker*, AAPG Mudstones Session, New Orleans, April 2010
- 2009-2012 *Associate Editor (Sedimentology and Stratigraphy)*, Canadian Journal of Earth Sciences,
- 2009 *Chief Scientist*, CCGS Amundsen 2009 Arctic Expedition, Leg 4B
- 2009 *Participant*, NSF-Margins S2S Synthesis Workshop, Gisborne NZ
- 2008-2009 *President*, Geological Association of Canada, Newfoundland and Labrador Section

- 2008 *Convener*, Special Session on River-Ocean Interactions in the North, Arctic Change 2008
- 2007-2009 *Graduate Advisor*, Memorial University of Newfoundland Earth Sciences Department
- 2007-2008 *Vice President*, Geological Association of Canada, Newfoundland and Labrador Section
- 2007-Present *Network Investigator*, ArcticNet (Canada) Research Consortium
- 2006 *Invited Speaker*, NSF Margins TEI: Telecommunications from Source to Sink.
- 2005 *Convener*, AGU Spring '05 Session on Bioturbation and Contaminant Mass Transfer
- 2004 *Education Panelist*, NSF CAREER Proposal Review Panel
- 2004 *Author*, Undergraduate Minor Proposal for LSU Department of Oceanography and Coastal Sciences. This proposal was accepted by LSU and is now an important component of the growing undergraduate program in Oceanography and Coastal Sciences.
- 2003-2004 *Instructor*, Louisiana Center for Ocean Science Education Excellence
- 2004 *Co-instructor*, Williams College-Mystic Seaport Mississippi Delta Field Seminar
- 2004 *Invited Participant and Report Author*, U.S. D.O.D. Strategic Environmental Research Development Program Contaminated Sediments Workshop ([www.serdp.org](http://www.serdp.org))
- 2003-2004 *Instructor*, Louisiana Center for Ocean Science Education Excellence
- 2003 *Co-Editor* of conference transactions, Gulf Coast Association of Geological Societies
- 2002-2004 *Chair*, DOCS Undergraduate Curriculum Committee
- 2002-2004 *Co-instructor*, with Harry Roberts, AAPG Modern Deltas Field Trip
- 2000-2002 Louisiana High School Science Fairs, Spring 2000, 2002, Judge at regional and state levels for Earth Science.
- 1999-2002 *Participant*, NSF-Margins Source to Sink: Workshop participant, active in site-selection process and design of science plan.

Published Reports, Books, and Book Chapters

(For recent and in-preparation publications, I have included a description of my role in the study.) Underlined name indicates student author.

- Xu, Y. Jun, M. A. Allison, S. J. Bentley, A. L. Collins, W. D. Erskine, V. Golosov, A. Horowitz, 2014. *Sediment Dynamics from the Summit to the Sea*. IAHS Special Publication 367, IAHS, CEH Wallingford, Oxfordshire OX10 8BB, UK
- Bentley, S.J., Samuel Bentley, AM Freeman, CS Willson, J Cable, and L Giosan, 2013, *Using what we have: optimizing sediment management in Mississippi River Delta restoration to improve the economic viability of the Nation*, John W. Day, G. Paul Kemp, Angelina M. Freeman, and David P. Muth, eds., Perspectives on the Restoration of the Mississippi Delta: The Once and Future Delta. 10.1007/978-94-017-8733-8\_6
- Bentley, S.J., Freeman, A., Willson, C., and Cable, J., 2012, *Sediment availability for Mississippi Delta Restoration: Implications for Policy Makers*. In: (Mississippi

- River Delta Special Engineering and Science Team [SEST], eds), *Answering Ten Fundamental Questions About the Mississippi River Delta*. Baton Rouge, National Audubon Society, National Wildlife Federation, and Environmental Defense Fund.  
<http://www.mississippiriverdelta.org/files/2012/04/MississippiRiverDeltaReport.pdf>. 6-8. (This article is a laymen's language policy and science document intended to communicate policy-relevant science to government decision makers and other stakeholders. It is the synthesis of two years of work by the SEST team, funded by the publishing organizations.)
- Bentley, S.J., Cable, J., Willson, C., and Freeman, A., 2012, *Scientific Feasibility of Sediment Diversions for Mississippi Delta Restoration: Implications for Policy Makers*. In: (Mississippi River Delta Special Engineering and Science Team, eds), *Answering Ten Fundamental Questions About the Mississippi River Delta*. Baton Rouge, National Audubon Society, National Wildlife Federation, and Environmental Defense Fund.  
<http://www.mississippiriverdelta.org/files/2012/04/MississippiRiverDeltaReport.pdf>. 9-12. (This article is a laymen's language policy and science document intended to communicate policy-relevant science to government decision makers and other stakeholders. It is the synthesis of two years of work by the SEST team, funded by the publishing organizations.)
- Bentley, S.J., Thibodeaux, L., et al., 2006, *Physical and Biological Processes Associated with Contaminated Sediment Fate and Transport*. In: Reible, D., and Lanczos, T., eds., *Assessment and Remediation of Contaminated Aquatic Sediments*. Elsevier NATO Science Series v. 73, p. 83-136.
- Swales, A., Bentley, S.J., McGlone, M.S., and Ovenden, R., 2005, *Pauatahanui Inlet: effects of historical catchment landcover changes on inlet sedimentation*. New Zealand National Institute of Water and Atmospheric Research Client Report HAM2004-149, 135 p.
- Ravens, T., and Bentley, S.J., 2004, *Sediment Stability*. In: (Leeson, A., ed.) Final Report: SERDP and ESTCP Expert Panel Workshop on Research and Development Needs for the In Situ Management of Contaminated Sediments. Strategic Environmental Research Development Program Report, p. 5-14. [www.serdp.org](http://www.serdp.org).
- Bentley, Samuel J., 2003, *Wave-Current Dispersal of Fine-Grained Fluvial Sediments Across Continental Shelves: the Significance of Hyperpycnal Plumes*. In E.D. Scott, A.H. Bouma and W.R. Bryant (Eds.) *Siltstones, Mudstones and Shales: Depositional Processes and Characteristics*, Society for Sedimentary Geology/Gulf Coast Association of Geological Societies Joint Publication, p. 35-48.
- Reible, D., R. Jensen, S. Bentley, M. Dannel, J. DePinto, J. Dyer, K. Farley, M. Garcia, D. Glaser, J. Hamrick, W. Lick, R. Pastorok, R. Scher, K. Ziegler, 2002, *The Role of Modeling in Managing Contaminated Sediments*. In: Chien, C.C, M.A. Medina, G.F. Pinder, D.R Reible, B.E. Sleep, and C. Zheng, eds., *Environmental Modeling and Management: Theory, Practice, and Future Directions*. DuPont Company.
- Roberts, H.H., S. Bentley, J.M. Coleman, S.A. Hsu, O.K. Huh, K. Rotondo, M. Inoue, L.J. Rouse, Jr., A. Sheremet, G.W. Stone, N. Walker, S. Welsh, and W.J. Wiseman, Jr., 2003, *A new appraisal of Louisiana's sedimentary system from the Atchafalaya River to Chenier Plain coast*. Geoscience and Man, Geoscience Publications, LSU.

Refereed Articles in Serial Publications, Submitted or In Revision

Underlined name indicates student author at time of research

\* indicates corresponding author

Smith, JE, Bentley, SJ\*, Snedden, G., and White, C, 2015, What role to hurricanes play in sediment delivery to subsiding river deltas? *Nature Geoscience*, in review, May 2015.

Bentley, SJ\*, Blum, MD, Maloney, J, Pond, LG, and Paulsell, RL, 2015, The Mississippi River Source to Sink System: Perspectives on Tectonic, Climatic, and Anthropogenic Influences, Miocene to Anthropocene. Invited review in revision, *Earth Science Reviews*.

Fabre, J.\*, Bentley, S.J., Li, C., Walker, N., Smith, E., and White, J., 2015, *Fine sediment flux and dispersal in a large river diversion: the 2011 Flood of the Mississippi River, the Bonnet Carré Spillway, and Lake Pontchartrain, Louisiana*. Submitted to *Estuarine, Coastal and Shelf Science*. (Fabre was my MS student, and this work was funded by NSF.)

Huelse, P.\*, and Bentley, S.J., 2015, *Climatically controlled sediment and water discharge during the past two millennia: subarctic Great Whale River, SE-Hudson Bay, Canada*. Under review after moderate revision, *The Holocene*. (Huelse was my PhD student, and this work was funded by Canada ArcticNet.)

Septama, E\*., and Bentley, S.J., 2015, Conduits, Timing, and Processes of Sediment Delivery across a high-relief continental margin: Continental Shelf to Basin in the Late Quaternary Gulf of Papua. Submitted December 2014, *Marine and Petroleum Geology*.

Shan, X\*., Clift, P., Bentley, SJ, Tan, C., Lin, L., Li, M, and Li, W, 2015, The Ground Penetrating Radar facies and architecture of a detached barrier system of Huangqihai Lake, North China: implications for genesis and evolution. In review October 2014, *Sedimentology*.

Refereed Articles in Serial Publications, Published or Accepted

Underlined name indicates student author at time of research

\* indicates corresponding author

Swales, A., Bentley, S.J., and Lovelock, C, 2015, Mangrove-forest evolution in a sediment-rich estuarine system: Opportunists or agents of geomorphic change? *Firth of Thames, New Zealand*. Invited submission December 2014 to *Earth Surface Processes and Landforms*, manuscript ESP-14-0379, accepted May 2015

Thomas, ML, Pocknall, DT, Warny, S, Bentley, SJ, Droxer, AW, and Nittrouer, CA, 2015, Assessing depth and distance from shore and shelf-slope break through palynomaceral analysis: A modern case study from the Gulf of Papua. Accepted January 2015, *Palynology*.

Smith, M., and Bentley, SJ Sr.\*, 2014, Sediment capture in floodplains of the Mississippi River: a case study in Cat Island National Wildlife Refuge,

- Louisiana. In: *Sediment Dynamics from the Summit to the Sea* (IAHS Publ. 367, p. 442-446, 2014).
- Lo, E.L., Bentley, S.J. Sr., and Xu, K., 2014, Experimental study of cohesive sediment consolidation and resuspension identifies approaches for coastal restoration: Lake Lery, Louisiana. *Geo Marine Letters* 10.1007/s00367-014-0381-3.**
- Howell, A.L., Bentley, S.J., Xu, K., Ferrell, R.E., Muhammad, Z., and Septama, E., 2014, *A clay mineral provenance study of the Northern Pandora Trough Continental Margin, Papua New Guinea*. *Marine Geology* DOI: [10.1016/j.margeo.2014.08.003](https://doi.org/10.1016/j.margeo.2014.08.003). (Howell was my MS student, and this work grew out of the 2004 NSF-S2S project with myself, Droxler, Peterson, Dickens, and others.)**
- Bentley, S.J., Swales, A., Pyenson, B., and Dawe, J., 2014. Sedimentation, bioturbation, and sedimentary fabric evolution on a Modern mesotidal mudflat: a multi-tracer study of processes, rates, and scales. *Estuarine, Coastal, and Shelf Science* <http://dx.doi.org/10.1016/j.ecss.2014.02.004>.**
- Denommee, K.C., Bentley, S.J. & Droxler, A.W., 2014. Climatic controls on hurricane patterns: a 1200-y near-annual record from Lighthouse Reef, Belize. *Sci. Rep.* 4, 3876; DOI:10.1038/srep03876 (2014). (published by Nature Publishing Group). (MS work of K. Denommee, who did her MS with me, and is now working on her PhD with me).**
- Denommee, K.D., and Bentley, S.J., 2013, *Clinof orm mechanics on the Southwest Louisiana Continental Shelf*, *Gulf Coast Association of Geological Societies Transactions*, 63: 205-212.**
- Salcedo-Castro\*, J., Bourgault, D., Bentley, S.J., and deYoung, B., 2013, *Non-hydrostatic modeling of cohesive sediment transport associated with a subglacial buoyant jet in glacial fjords: a process-oriented approach*. *Ocean Modeling* <http://dx.doi.org/10.1016/j.ocemod.2012.12.005>. (I was on Salcedo's doctoral advisory committee and helped him formulate the cohesive sediment algorithms used for his model.)**
- Huelse\*, P., and Bentley, S.J., 2012, *A Pb-210 sediment budget and granulometric proxy record of sediment fluxes in a sub-Arctic deltaic system: the Great Whale River, SE-Hudson Bay, Canada*. *Estuarine, Coastal, and Shelf Science* 109: 41-52. (Huelse was my PhD student.)**
- Bentley\*, S.J., and Kahlmeyer, E., 2012, *Patterns and mechanisms of fluvial sediment flux and accumulation in two sub-arctic fjords: Nachvak and Saglek fjords, Nunatsiavut, Canada*. *Canadian Journal of Earth Sciences*, 49: 1-16, doi:10.1139/E2012-052. (Kahlmeyer was my MS student.)**
- Bentley\*, S.J., and Nittrouer, C.A., 2012, *Accumulation and intense bioturbation of carbonate muds along a platform margin: Dry Tortugas, Florida*. *Marine Geology* 315-318: 44-57.**
- Keen\*, T.R., Slingerland, R., Bentley, S.J., Furukawa, Y., Teague, W.J., and Dykes, J.D., 2012, *Sediment transport on continental shelves: storm bed formation and preservation in heterogeneous sediments*. In: Li, M., Sherwood, C., and Hill, P., eds., *Continental Shelf Sedimentation*, IAS Special Publication 44, p. 295-310. (My role in this paper was to write a section on observations and models of bed preservation of hurricane event layers, using hurricanes Katrina and Rita as examples.)**

- Macquaker\*, J., Bentley, S.J., and Bohacs, K., 2010, *Wave enhanced sediment-gravity flows and the dispersal of mud across continental shelves: a reappraisal of physical sedimentary processes operating in distal, "low energy" settings and their stratal record*. *Geology* 38: 947-950 (My role in this paper was to describe hydrodynamic theory, develop a likely depositional model for WESGFs, and demonstrate with a recent field example)
- Baustian, M.M\*, Bentley, S.J., and Wandersee, J.H, 2008, *Innovative assessment tools for a short, fast-paced summer field course*. *Journal of College Science Teaching* 37: 37-43. (This was based on a summer field course I taught with NSF-CAREER support at LUMCON.)
- Muhammad\*, Z., Bentley, S.J., et al., 2008, *Excess <sup>210</sup>Pb inventories and fluxes along the continental slope and basins of the Gulf of Papua*. *Journal of Geophysical Research-Earth Surface* doi: 10.1029/2006JF000676 (This paper was written by my LSU-DOCS PhD student, funded by NSF-MARGINS S2S support.)
- Febo\*, L., Bentley, S.J., et al., 2008, *Late Pleistocene to Recent Sedimentation, Organic Carbon Delivery, and Paleoclimatic Inferences in the Northern Pandora Trough, Gulf of Papua, Papua New Guinea*. *Journal of Geophysical Research-Earth Surface*, doi:10.1029/2006JF000677. (This paper was written by my co-supervised LSU-G&G PhD student, funded by NSF-MARGINS S2S support.)
- Carson\*, B., Droxler, A.W., Dickens, G., S. Bentley, et al., 2008, *Glacial-to-interglacial foraminiferal populations of the Southern Ashmore Trough (Gulf of Papua) mixed siliciclastic-carbonate system*. *Journal of Geophysical Research-Earth Surface* doi:10.1029/2006JF000629. (I was co-PI on this NSF-S2S project, and responsible for all MSCL core analyses, and involved in all stages of manuscript editing).
- Francis\*, J., Francis, G., Droxler, A.W., Bentley, S.J., et al., 2008, *Deep water geomorphology of the mixed siliciclastic-carbonate system, Gulf of Papua*, *Journal of Geophysical Research-Earth Surface* doi:10.1029/2007JF000851. (I was co-PI on this NSF-S2S project, and responsible for all MSCL core analyses, and involved in all stages of manuscript editing).
- Swales\*, A., and Bentley, S.J., 2008, *Recent tidal-flat evolution and mangrove-habitat expansion: application of radioisotope dating to environmental reconstruction*. In: Schmidt, J., Cochrane, T., et al., eds, *Sediment Dynamics in Changing Environments*, IAHS Special Publication 325, p. 76-84. (This paper is based on field work conducted in New Zealand in 2006 during my stay there.)
- Tcherepanov\*, E. N., A. W. Droxler, P. Lapointe, G. R. Dickens, S. J. Bentley, et. al., 2008, *Neogene evolution of the mixed carbonate-siliciclastic system in the Gulf of Papua, Papua New Guinea*, *Journal of Geophysical Research*, 113, F01S21, doi:10.1029/2006JF000684 (I was co-PI on this NSF-S2S project, and responsible for all MSCL core analyses, and involved in all stages of manuscript editing).
- Jorry\*, S. J., A. W. Droxler, G. Mallarino, G. R. Dickens, S. J. Bentley, et. al., 2008, *Bundled turbidite deposition in the central Pandora Trough (Gulf of Papua) since last glacial maximum*, *Journal of Geophysical Research*, 113, F01S19, doi:10.1029/2006JF000649 (I was co-PI on this NSF-S2S project, and responsible for all MSCL core analyses, and involved in all stages of manuscript editing).



- Baustian, M.M., and Bentley, S.J., 2008, *Innovative assessment tools for a short, fast-paced summer field course*. Journal of College Science Teaching 37: 37-43.**
- Andrus\*, M., and Bentley, S.J., 2007, *Sediment flux and fate in the Mississippi River Diversion at West Bay*. ASCE: Coastal Sediments 2007, p. 722-735. (Andrus was my MS student)**
- Swales\*, A., Bentley, S.J., Lovelock, C., and Bell, R., 2007, *Sediment processes and mangrove habitat expansion on a rapidly prograding muddy coast, New Zealand*. ASCE: Coastal Sediments 2007, p. 1441-1444. (My role in this paper was to analyze and model radiochemical data used for the age model.)**
- Wheatcroft\*, R.A., Wiberg, P.W., Alexander, C., Bentley, S.J., Drake, D., and Borgeld, J., 2007, *Post Depositional Alteration and Preservation of Strata*, In: Nittrouer et. al. (Eds.), *Continental-Margin Sedimentation: Transport to Sequence*, IAS Special Publication, Blackwell, p. 101-148. For this paper I wrote a section on bed preservation, and also provided and interpreted radiochemical and core-image data.)**
- Bentley\*, S.J., Sheremet, A., and Jaeger, J.M., 2006, *Preservation potential of event layers on continental shelves: a model and observations*. Continental Shelf Research 26: 2108-2124.**
- Keen\*, T. R., Y. Furukawa, S. J. Bentley, R. L. Slingerland, W. J. Teague, J. D. Dykes, and C. D. Rowley (2006), *Geological and oceanographic perspectives on event bed formation during Hurricane Katrina*, Geophysical Research Letters, 33, L23614, doi:10.1029/2006GL027981. For this paper I provided observations and interpretations of cores collected Katrina.**
- Brunner\*, C., Beall, J., Bentley, S.J., and Furukawa, Y., 2005, *Hypoxia hotspots in the Mississippi Bight*. Journal of Foraminiferal Research 36: 95-107. (For this paper, I provided radiochemical age models and also estimates of mixing rates, to help constrain temporal resolution of cores studied).**
- Patterson\*, W.F., Wilson, C.A., Bentley, S.J., Cowan, J.H., Allen, Y.C., and Dufrene, T.A., 2005, *Delineating juvenile red snapper habitat in the northern Gulf of Mexico*. American Fisheries Society Symposium 41, 277-288. (I was responsible for core and sonar collection and analysis for this study of fish habitat.)**
- Rotondo\*, K.A., and Bentley, S.J., 2004, *Marine dispersal of fluvial sediments as fluid muds: old concept, new significance*. In: E.D. Scott and A. H. Bouma, *Depositional Processes and Reservoir Characteristics of Siltstones, Mudstones, and Shales*, Society for Sedimentary Geology Miscellaneous Publication, p. 24-49.**
- Fan\*, S., Swift, D.J.P., Traykovski, P., Bentley, S.J., Borgeld, J., and Niedoroda, A.W., 2004, *River flooding, storm resuspension, and event stratigraphy on the northern California shelf: observations compared with simulations*. Marine Geology 210: 17-43.**
- Keen\*, T.R., Bentley, S.J., Vaughan, W.C., and Blain, C.A., 2004, *The generation and preservation of multiple hurricane event beds in the northern Gulf of Mexico*. Marine Geology 210: 79-105.**
- Bentley\*, S.J., and Nittrouer, C.A., 2003, *Emplacement, modification, and preservation of event strata on a flood-dominated continental shelf: Eel Shelf, northern California*. Continental Shelf Research 23: 1465-1493.**
- Bentley\*, S.J., and Sheremet, A., 2003, *A new model for the emplacement, bioturbation, and preservation of sedimentary strata*. Geology v. 31, no. 8, p. 725-728**

- Bentley\*, S.J., Roberts, H., and Rotondo, K.A., 2003, *The sedimentology of muddy coastal systems: research perspectives and new insights from the Coastal Studies Institute*. Gulf Coast Association of Geological Societies Transactions v. 53, p. 52-63.
- Dufrene\*, T.A., Bentley, S.J., and Allen, Y.C., 2003, *Geologic and geoaoustic study of surficial deposits, north-central Gulf of Mexico continental shelf*. Gulf Coast Association of Geological Societies Transactions 53: 210-216.
- Velardo\*, B.M., and S.J. Bentley, 2003, *Impacts of tropical systems on the sedimentary fabric of the Mississippi Sound*. Gulf Coast Association of Geological Societies 53: 815-823.
- Febo\*, L.A., Dufrene, T. A., and Bentley, S.J., *Event sedimentation and long-term accumulation in a salt marsh: St. Louis Bay, Mississippi, northern Gulf of Mexico*. Gulf Coast Association of Geological Societies Transactions 53: 217-226.
- Patterson\*, Luke J., Muhammad, Zahid, and Bentley, Samuel J, Britsch, L. Del and Dillon, Douglas L., 2003, *<sup>210</sup>Pb and <sup>137</sup>Cs geochronology of the Lake Fausse Pointe region of the Lower Atchafalaya Basin*. Gulf Coast Association of Geological Societies Transactions 668-675.
- Rotondo\*, K.A., and Bentley, S.J., 2003, *Deposition and resuspension of fluid muds on the western Louisiana inner continental shelf*. Gulf Coast Association of Geological Societies Transactions 53: 722-731.
- Bentley\*, S.J., Keen, T., Blain, C.A., Vaughan, W.C., 2002, *The origin and preservation of a major hurricane event bed in the northern Gulf of Mexico: Hurricane Camille, 1969*. Marine Geology 186: 429-452.
- Bentley\*, S.J., 2002, *Dispersal of fine sediments from river to shelf: process and product*. Gulf Coast Association of Geological Societies Transactions v. 52, p. 1055-1067.
- Roberts\*, H.H., S. Bentley, J.M. Coleman, S.A. Hsu, O.K. Huh, K. Rotondo, M. Inoue, L.J. Rouse, Jr., A. Sheremet, G. Stone, N. Walker, S. Welsh, and W.J. Wiseman, Jr., 2002, *Geological framework and sedimentology of recent mud deposition on the eastern Chenier Plain coast and adjacent inner shelf, western Louisiana*. Gulf Coast Association of Geological Societies Transactions, v. 52, p. 849-859.
- Richardson\* M.D., K.B. Briggs, S.J. Bentley, D.J. Walter, and T.H. Orsi, 2001, *The effects of biological and hydrodynamic processes on physical and acoustic properties of sediments off the Eel River, California*. Marine Geology 182:121-139.
- Furukawa\*, Y., S.J. Bentley, and D. Lavoie, 2001, *Dynamic bioirrigation modeling in experimental benthic mesocosms: Effects of infauna metabolism and dissolved oxygen transport*. Journal of Marine Research 59:3.
- Bentley\*, S.J., Y. Furukawa, and W.C. Vaughan, 2000, *Record of event sedimentation in Mississippi Sound*. 2000 Transactions of the Gulf Coast Association of Geological Societies 617-625.
- Furukawa\*, Y., S.J. Bentley, A. Shiller, D. Lavoie, and P. Van Cappellen, 2000, *Early diagenesis driven by biologically enhance oxygen flux in North Key Harbor, Dry Tortugas National Park, Florida*. Journal of Marine Research 58: 493-522.
- Bentley\* S.J. and Nittrouer C.A., 1999, *Physical and biological influences on the formation of sedimentary fabric in a fjord-like depositional environment: Eckernförde Bay, southwestern Baltic Sea*. Palaios, v. 16: 469-485.

- Bentley\*, S.J., and Nittrouer, C.A., 1997, *Environmental influences on the formation of sedimentary fabric in a fine-grained carbonate-shelf environment: Dry Tortugas, Florida Keys*. *Geo-Marine Letters* 17:268-275.
- Bentley\* S.J., Nittrouer C.A., and Sommerfield C.K., 1996, *Development of sedimentary strata in Eckernförde Bay, southwestern Baltic Sea*. *Geo-Marine Letters* 16: 148-154.

Invited Presentations

- 2014 *Speaker*, International Deltas Meeting, Istomino, Russia
- 2013 *Speaker*, Coalition to Restore Coastal Louisiana, Executive Board Meeting, July 27, Baton Rouge, LA.
- 2013 *Panelist*, St. Bernard and Plaquemines Parish Public Forum on River Diversions, Louisiana State Coastal Protection and Restoration Authority, June 17, Chalmette, LA.
- 2013 *Speaker*, Louisiana Governor's Advisory Commission on Coastal Affairs, June 6, Baton Rouge, LA. Invited presentation on river-sediment diversions for coastal restoration.
- 2013 *Speaker*, Louisiana Senate, Natural Resources Committee, May 29, Baton Rouge, LA. Invited testimony on river-sediment diversions for coastal restoration.
- 2013 *Speaker*, Louisiana House of Representatives, Natural Resources Committee, May 22, Baton Rouge, LA. Invited testimony on river-sediment diversions for coastal restoration.
- 2013 *Workshop Leader*, Community Surface Dynamics Modeling System (CSDMS) Annual Meeting, March 2013, Boulder, CO. Workshop Leader and coordination of CSDMS Strategic Plan for Education and Knowledge Transfer Working Group of CSDMS ([www.csdms.colorado.edu](http://www.csdms.colorado.edu)).
- 2012 *Instructor*, ASCE Coasts, Oceans, Ports, and Rivers Institute, July 26, Baton Rouge, LA. (ASCE's Continuing Education program.)
- 2011-Present *Guest Lecturer*, Williams College-Mystic Seaport Maritime Studies Program, Mississippi Delta Field Seminar. Spring and Fall semester, every year, Cocodrie, LA.
- 2010 *Speaker*, AAPG Mudstones Session, New Orleans, April 2010.
- 2006 *Speaker*, NSF Margins TEI: Telecommunications from Source to Sink, Gisborne, New Zealand.
- 2004 *Participant and Report Author*, U.S. D.O.D. Strategic Environmental Research Development Program Contaminated Sediments Workshop, Washington D.C. ([www.serdp.org](http://www.serdp.org))

- Smith, M., and Bentley, SJ, 2014, Sediment capture in flood plains of the Mississippi River: A case study in Cat Island National Wildlife Refuge, Louisiana .Sediment Dynamics from the Summit to the Sea. IAHS Publ 367 367, 442-446
- Banks, J., Bentley, SJ, and Warny, S, 2014, Examining the paleoenvironmental signature of sedimentary deposits in Okak Bay, Labrador, Canada. 2014 GSA Annual Meeting in Vancouver, British Columbia
- Lo, E., and Bentley, SJ, , 2014, Consolidation and Suspension Properties of Mud from Lake Lery and Relevance to Wetland Restoration. Louisiana State of the Coast 2014
- Bentley, SJ., Xu, K, Andrus, M., 2014, Building Land in a Delta from River-Sediment Diversions: Constraints, Potential, and Examples in the Mississippi River Delta. Louisiana State of the Coast 2014
- Droxler AW, Cetin A., Bentley SJ, 2014, Centennial and Extreme Climate Variability in the Last 1500 Year from the Belize Central Shelf Lagoon (Central America): Successive Droughts and Floods Linked to the Demise of the Mayan Civilization, AGU Fall Meeting San Francisco 2014
- Maloney J, Bentley SJ, Xu K, Miner M, Georgiou I, Obelcz J, Hannegan K., and Keller G., 2014, Assessing Subaqueous Mudflow Hazard on the Mississippi River Delta Front, Part 1: A Historical Perspective on Mississippi River Delta Front Sedimentation. AGU Fall Meeting San Francisco
- Obelcz J, Maloney J, Xu K, Bentley SJ, Miner M, Georgiou I, Hanegan K, and Keller G., 2014, Assessing subaqueous mudslide hazard on the Mississippi River delta front, Part 2: Insights revealed through high-resolution geophysical surveying. AGU Fall Meeting San Francisco
- Samuel J. Bentley; Michael D. Blum, 2013, EP43D-0885. Source-To-Sink Perspectives On The Mississippi River System, Miocene To Present, Mountain To Abyss. AGU Annual Fall Meeting, San Francisco.
- Jillian Bambrick Banks; Samuel J. Bentley; Sophie Warny, 2013, PP51A-1919. Examining the Sedimentary and Paleoclimate Signature of Late Holocene Sedimentary Deposits in Okak Bay, Labrador, Canada. AGU Fall Meeting, San Francisco
- Denomme, KD., and Bentley, SJ, 2012, *Muddy Coastal Clinofolds with Equilibrium Morphology Shaped by Mass Failure Events*. American Geophysical Union Fall Meeting, EP41B-0800, San Francisco, December 2012.
- Bentley, S.J., Fabre., J., Li, C., Smith, E., Walker, N., White, J., Rouse, L., and Bargu, S., 2012, *Fluvial sediment flux during high discharge events: harnessing Mississippi River sediment to build new land on an endangered coast*. AGU Ocean Science Meeting, Salt Lake City, 2012.
- Gilbert, L., Clodius, N., Currimjee, Z., Martin, A., Neurath, R., Szymanski, A., and Bentley, S.J., 2012, *Vegetation and geomorphic changes in a New England Salt Marsh in the last 1,000 years*. Geological Society of America Northeast Chapter, 2012 Meeting.
- Bentley, S.J., and Fabre, J., 2011, *Mississippi River sediment flux and fate into Lake Pontchartrain during the 2011 flood*. Basics of the Basin Conference, sponsored by the Lake Ponchartrain Foundation, October 2011, Hammond, LA.

- Huelse, P., and Bentley, S.J., 2011, *A  $^{210}\text{Pb}$  sediment budget and granulometric proxy record of discharge variations for a sub-Arctic deltaic system: the Great Whale River in Hudson Bay, Canada*. Geophysical Research Abstracts Vol. 13, EGU2011-2709-1, 2011.
- Kahlmeyer, E., and Bentley, S.J., 2011, *Dispersal of fluvial sediment in two sub-arctic fjords on the Labrador Coast: Nachvak Fjord and Saglek Fjord, Canada*. Geophysical Research Abstracts Vol. 13, EGU2011-2686-1, 2011.
- Septama, E., Bentley, S.J., and Schaffer, M., 2011, *Source-to-Sink Sediment Delivery in the Gulf of Papua from SEM-MLA-aided Provenance and Textural Analysis of Turbidite Sands*. AAPG-ACE, April 2011, Houston.
- Denomme, K.C., Bentley, S.J., and Droxler, A.W., 2010, *High-resolution reconstruction of paleo-hurricane strikes from the Blue Hole of Lighthouse Reef, Belize*. Geological Society of America Annual Meeting, Denver.
- Bentley, S.J., 2010, *Preservation potential of primary depositional fabric in even-dominated muddy shelf settings: a semi-quantitative facies model*. AAPG-ACE, April 11-14 2010. (Invited talk)
- Macquaker, J., Bentley, S.J., and Bohacs, K., Lazar, R., and Jonk, R., 2010, *Advective Sediment Transport on Mud-Dominated Continental Shelves: Processes and Products*. AAPG-ACE, April 11-14, 2010. (Invited talk)
- Denomme, K., and Bentley, S.J., 2010, *High resolution record of cyclone strikes from the Blue Hole, Lighthouse Reef, Belize*. American Association of Geographers Annual Meeting, Washington DC, April 2010.
- Septama, E., and Bentley, S.J., 2010, *Late Quaternary deepwater channel-fan depositional cycles in the Gulf of Papua: linking source, dynamic sedimentation processes, and depositional architecture*. AAPG Annual Conference, April 2010, New Orleans.
- Bentley, S.J., Macquaker, J., and Bohacs, K., 2009, *Wave-enhanced fluid mud-flows in the fine-grained sedimentary record. The main mechanism of down-dip sediment dispersal on continental shelves*. AAPG-ACE, June 2009, Denver.
- Bentley, S.J., Aalto, R., Ogston, A., Martin, P., Droxler, A., and Jorry, S., 2009, *Perspectives on event sedimentation in the Gulf of Papua S2S Focus Area*. Margins S2S Integration Workshop, Gisborne New Zealand, sponsored by US-NSF. (Invited talk)
- Droxler, A., Jorry, S., Tcherepanov, E., Bentley, S.J., Muhammad, Z., Febo, L., McFadden, M., and Peterson, L. 2009, *Perspectives on deep ocean sedimentation and stratigraphy in the Gulf of Papua S2S focus area*. Margins S2S Integration Workshop, Gisborne, New Zealand, sponsored by US-NSF. (Invited talk)
- Gosine, T., Bentley, S.J., and Swales, A., 2009, *Depositional processes on a rapidly prograding muddy intertidal flat complex, Firth of Thames, North Island, New Zealand*. Spring Meeting Geological Association of Canada Newfoundland and Labrador Section, March 2009.
- Brandstatter, S., Bentley, J., Johnson, S, Kineke, G., and Lermon, M., 2009, *Be-7 inventories as a tracer for sediment movement on the inner shelf: western Atchafalaya River Delta, Louisiana*. Spring Meeting Geological Association of Canada Newfoundland and Labrador Section, March 2009.

- Hülse, P., and Bentley, S.J., *A multi-proxy study on decadal to centennial time scales of freshwater discharge from the Nelson and Great Whale Rivers, Hudson Bay*. Spring Meeting Geological Association of Canada Newfoundland and Labrador Section, March 2009.
- Kahlmeyer, E., and Bentley, S.J., 2009, *Recent sediment delivery and accumulation in three subarctic fjords*. Spring Meeting Geological Association of Canada Newfoundland and Labrador Section, March 2009.
- Septama, E., and Bentley, S.J., 2009, *Fine grained sedimentation and depositional model associated with a channel-fan system in the deep-water Gulf of Papua: insight from seafloor geomorphology and microfacies analysis*. Spring Meeting Geological Association of Canada Newfoundland and Labrador Section, March 2009.
- Bentley, S.J., Swales, A., Kahlmeyer, E., and Denomme, K., 2008, *Morphology and expansion of a tidal flat and mangrove forest, Firth of Thames, New Zealand*. AGU Fall Meeting, Session OS33, San Francisco.
- Brandstatter, S., Bentley, S.J., Johnson, S., Kineke, G., and Lermon, M., 2008, *Be-7 inventories as tracer for sediment movements on the inner shelf: western Atchafalaya River Delta*. AGU Chapman Conference on the Physics of Wave Interactions with Fluid Mud, Amelia Island, Florida, November 2008.
- Bentley, S.J., Maas, K.A., Brandstatter, S., Johnson, S., and Kineke, G., 2008, *Depositional processes and sediment properties of fluid muds on the inner shelf: western Mississippi Delta, Louisiana, USA*. AGU Chapman Conference on the Physics of Wave Interactions with Fluid Mud, Amelia Island, Florida, November 2008.
- Hülse, Peter, and S.J. Bentley, 2008, *Factors controlling river runoff into the Hudson Bay: the Great Whale River and Nelson River drainage basins*. Arctic Change 2008, Quebec City.
- Bentley, S., and Kahlmeyer, E., 2008, *Marine records of sediment flux from glaciated and unglaciated catchments, Torngat Mountains, Canada*. Arctic Change 2008, Quebec City.
- Kahlmeyer, E., and S. Bentley, 2008, *Recent sediment delivery and accumulation in three subarctic fjords*. Arctic Change 2008, Quebec City.
- Hülse, P., and S.J. Bentley, 2007, *River-ocean interactions in Hudson Bay*. ArcticNet Annual Science Meeting, Collingwood, Ontario, December 2007.
- Bentley, S.J., and Hülse, P., 2007, *A remarkable sediment depocenter and environmental archive off the Great Whale River*. ArcticNet Annual Science Meeting, Collingwood, Ontario, December 2007.
- Bentley, S.J., 2006, *Sediment Delivery from Canada's rivers to Hudson Bay in a changing climate: Projections and hypotheses*. ArcticNet Annual Science Meeting, Victoria, British Columbia.
- Bentley, S. J., Z. Muhammad, et al., 2006. *Modern and Pleistocene turbidite sedimentation in the Gulf of Papua S2S study area; implications for modulation of sediment sources by oceanic and climatic processes*. Abstracts: Annual Meeting – AAPG 15:9.
- Droxler, A., Mallarino, G., Dickens, G., Bentley, S.J, et al., 2006. *Early part of last deglaciation; a short interval favorable for the building of coralgall edifices on the edges of modern siliciclastic shelves (Gulf of Papua and Gulf of Mexico)*. Abstracts: Annual Meeting – AAPG 15:27-28.

- Droxler, A. W., A., Mallarino, G., Dickens, G., Bentley, S.J, et al, 2005. *Lowstand linear siliciclastic coastal deposits as substratum for the growth of modern barrier reefs (northern Ashmore trough, south shelf edge of the Gulf of Papua)*. **Abstracts: Annual Meeting – AAPG** 14:A37.
- Febo, L. A., S. J. Bentley, et al., 2006. *Recent-to-late Pleistocene sedimentary organic matter in the Gulf of Papua, Papua New Guinea*. **Abstracts: Annual Meeting – AAPG** 15:32.
- Francis, J. M., J. Daniell, Droxler, A. W., A., Mallarino, G., Dickens, G., Bentley, S.J, et al., 2007. *Mass transport on the Gulf of Papua continental slope: physiographic controls on deposition*. **Abstracts with Programs - Geological Society of America** 39(6): 630.
- Francis, J. M., B. Olson, Droxler, A., Dickens, G., Bentley, S.J, et al., 2006. *High siliciclastic flux during the last sea level transgression, Ashmore Trough, Gulf of Papua*. **Abstracts: Annual Meeting - AAPG** 15: 34.
- Jorry, S. J., G. Mallarino, Droxler, A., Dickens, G., Bentley, S.J, et al., 2006. *Bundled turbidite deposition in the central Pandora Trough (Gulf of Papua) during last glacial-interglacial cycle; a potential link to millennial time scale climatic variations and sea level fluctuations*. **Abstracts: Annual Meeting - AAPG** 15: 54.
- McFadden, M. A., L. C. Peterson, Droxler, A., Dickens, G., Bentley, S.J, et al., 2006. *Role of paleoclimate and paleoceanography in sediment delivery to the Gulf of Papua over the last approximately 300 kyrs based on foraminiferal and organic matter stable isotope records*. **Abstracts: Annual Meeting - AAPG** 15: 71.
- Muhammad, Z., S. J. Bentley, et al., 2006. *Sediment flux to the Gulf of Papua continental slope using Pb-210 geochronology, source to sink Papua New Guinea focus area*. **Abstracts: Annual Meeting - AAPG** 15: 76.
- Patterson, L. J., S. J. Bentley, et al., 2006. *Petrological and geochemical investigations of deep sea turbidite sands in the Pandora and Moresby Troughs, Source to Sink Papua New Guinea focus area*. **Abstracts: Annual Meeting - AAPG** 15: 82.
- Tcherepanov, E. N., Droxler, W., Dickens, G., Bentley, S.J, et al., 2006. *Neogene sources and sinks of carbonates and siliciclastics in the Gulf of Papua, Papua New Guinea*. **Abstracts: Annual Meeting - AAPG** 15: 105.
- Velardo, B. M. and S. J. Bentley, 2005. *Evolution of depositional patterns in the Mississippi Sound during the late Holocene*. **Transactions - Gulf Coast Association of Geological Societies** 55: 844-853.
- Droxler, AW., G R Dickens, S J Bentley, L C Peterson, B N Opdyke, 2004, *Neogene evolution of the mixed carbonate/siliciclastic margin of the Gulf of Papua: Preliminary results of Spring 2004 PANASH cruise on the R/V Melville*. EOS Transactions, AGU 85(47), Fall Meeting Supplement, Abstract OS44A-08.
- Muhammad, Z., S J Bentley, A W Droxler, G R Dickens, B Opdyke, L C Peterson, 2004, *Sediment flux to the Gulf of Papua continental slope using Pb-210 geochronology, Source to Sink Papua New Guinea focus area*. EOS Transactions, AGU 85(47), Fall Meeting Supplement, Abstract OS51B-1301.
- Patterson, L.J., S J Bentley, D Henry, A Droxler, G Dickens, B Opdyke, L Peterson, 2004, *Petrology and provenance of turbidite sands from the Pandora and Moresby Troughs, Source to Sink Papua New Guinea focus area*. EOS Transactions, AGU 85(47), Fall Meeting Supplement, Abstract OS51B-1302.

- Mallarino, G., J M Francis, A W Droxler, B N Opdyke, S J Bentley, G R Dickens, L C Peterson, 2004, *Uppermost Pleistocene sea-level transgression across a last glacial maximum mixed carbonate/siliciclastic coastline, Modern Gulf of Papua shelf break in the Northern Ashmore Trough.* EOS Transactions, AGU 85(47), Fall Meeting Supplement, Abstract OS51B-1303.**
- McFadden, M.A., L C Peterson, S J Bentley, G R Dickens, A W Droxler, B N Opdyke, 2004, *Initial chronostratigraphic and paleoclimatic framework for sediment cores from the mixed siliciclastic-carbonate system of the Gulf of Papua New Guinea.* EOS Transactions, AGU 85(47), Fall Meeting Supplement, Abstract OS51B-1304.**
- Lorenzo, J.M., Saanumi, A.A., Westbrook, C.C., Egner, S.F., and Bentley, S.J., 2004, *Sled-mounted geophone arrays for near-surface (0-4m) seismic profiling in highly-attenuating sedimentary facies: Atchafalaya Basin Indian Bayou, Louisiana.* EOS Transactions, AGU 85(47), Fall Meeting Supplement, Abstract H23A-1120.**
- Dufrene, T.A., Bentley, S.J., Patterson, W.F., and Wilson, C.A., 2004, *Geological controls on essential Red Snapper habitat.* AGU Ocean Sciences Meeting, Eos Trans. AGU, 84(52), Ocean Sci. Meet. Suppl., Abstract OS22C-15.**
- Mertz, L.M., Jaeger, J., and Bentley, S.J., 2004, *Preservation potential of event bedding in a coastal salt marsh.* Geological Society of America National Meeting Abstracts with Programs, paper 124-4.**
- Greene, M., Neylon, S., Wells, R.J.D., and Bentley, S.J., 2004, *Contrasting sedimentation rates within an abandoned Louisiana delta.* Geological Society of America South-Central Meeting Abstracts with Programs 36: 3-4.**
- Dufrene, T.A., Bentley, S.J., and Allen, Y.C., 2003, *Geologic and geoacoustic study of surficial deposits, North-Central Gulf of Mexico continental shelf.* Gulf Coast Association of Geological Societies Annual Meeting, Baton Rouge, LA, October 23, 2003 (Talk)**
- Velardo, B.M., and S.J. Bentley, *Impacts of tropical systems on the sedimentary fabric of the Mississippi Sound.* Gulf Coast Association of Geological Societies Annual Meeting, Baton Rouge, LA, October 23, 2003 (Talk)**
- Febo, L.A., Dufrene, T. A., and Bentley, S.J., *Event sedimentation and long-term accumulation in a salt marsh: St. Louis Bay, Mississippi, northern Gulf of Mexico.* Gulf Coast Association of Geological Societies Annual Meeting, Baton Rouge, LA, October 23, 2003 (Talk)**
- Patterson, Luke J., Muhammad, Zahid, and Bentley, Samuel J, Britsch, L. Del and Dillon, Douglas L, 2003, *<sup>210</sup>Pb and <sup>137</sup>Cs geochronology of the Lake Fausse Pointe region of the Lower Atchafalaya Basin.* Gulf Coast Association of Geological Societies Annual Meeting, Baton Rouge, LA, October 23, 2003 (Talk)**
- Rotondo, K.A., and Bentley, S.J., 2003, *Deposition and resuspension of fluid muds on the western Louisiana inner continental shelf.* Gulf Coast Association of Geological Societies Annual Meeting, Baton Rouge, LA, October 23, 2003 (Talk)**
- Bentley, S.J., K. Rotondo, H.H. Roberts, and Chan, S., 2003, *Inner shelf clinoform development from fluid-mud flows: Southwest Louisiana Chenier Plain.* Geological Society of America Annual Meeting, Seattle, November 5, 2003 (Invited talk)**
- Roberts, H.H., R.T. Beaubouef, N.D. Walker, G.W. Stone, S. Bentley, A. Sheremet, and I. van Heerden, 2002, *Sand-rich bayhead deltas in Atchafalaya Bay***



- (Louisiana): Winnowing by cold front forcing.* Coastal Sediments '03, May 18-23, 2003, Clearwater Beach, Florida. (Talk)
- Bentley, S.J., K. Rotondo, H.H. Roberts, and G. Stone, 2002, *Transport and accumulation of cohesive fluvial sediments on the inner shelf: from the Atchafalaya River downdrift to the Louisiana Chenier Plain.* Coastal Sediments '03, May 18-23, 2003, Clearwater Beach, Florida. (Talk)
- Roberts, H.H., S. Bentley, J.M. Coleman, S.A. Hsu, O.K. Huh, M. Inoue, L.J. Rouse, Jr., A. Sheremet, G. Stone, N. Walker, S. Welsh, and W.J. Wiseman, Jr., 2002, *Geologic framework and sedimentology of recent mud deposition on the eastern Chenier Plain coast and adjacent inner shelf, Western Louisiana.* Gulf Coast Association of Geological Societies Annual Convention, October 30 – November 1, Austin, TX, Official Program, p. 101. (Talk and poster)
- Febo, L. A., Dufrene, T. A., Caudill, M. C., Peabody, M. B., and Bentley, S. J., 2003, *Event sedimentation and long-term accumulation in a salt marsh: St. Louis Bay, Mississippi.* Paper 7-9, South-Central Section (37th) and Southeastern Section (52nd), GSA Joint Annual Meeting (March 12–14, 2003) (Talk)
- Rotondo, K.A., and Bentley, S.J., 2003, *Ephemeral sediment deposition and long-term accumulation on the western Louisiana inner shelf.* Paper 7-7, South-Central Section (37th) and Southeastern Section (52nd), GSA Joint Annual Meeting (March 12–14, 2003) (Talk)
- Velardo, B., Muhamad, Z., Watzke, D., and Bentley, S.J., 2003, *Two Storms for the Price of One: A seabed-impact study of Tropical Storm Isidore and Hurricane Lili, northern Gulf of Mexico.* Paper 7-8, South-Central Section (37th) and Southeastern Section (52nd), GSA Joint Annual Meeting (March 12–14, 2003) (Talk)
- Velardo, B., Bentley, S.J., and Furukawa, Y., 2003, *Late Holocene patterns of estuarine sedimentation in the Mississippi Sound, northern Gulf of Mexico.* AAPG Annual Meeting, Salt Lake City, May 2003 (Poster)
- Bentley, S.J., and Roberts, H.H., 2002, *Fluid Mud: Worldwide importance in rapid coastal dispersal of fine-grained sediments.* (Invited) American Association of Petroleum Geologists Annual Meeting, Houston, March 2002 (poster)
- Bentley, S.J., and Sheremet, A., 2002, *A new quantitative model for the emplacement, bioturbation, and preservation of fine-scaled strata.* AGU/ASLO Ocean Sciences meeting, Honolulu, Hawaii, February 2002 (Talk)
- Rotondo, K., and Bentley, S.J., 2002, *Fluid mud sedimentation on the innermost western Louisiana continental shelf.* AGU/ASLO Ocean Sciences meeting, Honolulu, Hawaii, February 2002 (poster)
- Roberts, H.H., R.T. Beaubouef, N.D. Walker, G.W. Stone, S. Bentley, A. Sheremet, and I. van Heerden, 2002, *Sand-rich bayhead deltas in Atchafalaya Bay (Louisiana): Winnowing by cold front forcing.* Coastal Sediments '03, May 18-23, 2003, Clearwater Beach, Florida. (Talk)
- Bentley, S.J., K. Rotondo, H.H. Roberts, and G. Stone, 2002, *Transport and accumulation of cohesive fluvial sediments on the inner shelf: From the Atchafalaya River downdrift to the Louisiana Chenier Plain.* Coastal Sediments '03, May 18-23, 2003, Clearwater Beach, Florida. (Talk)
- Roberts, H.H., S. Bentley, J.M. Coleman, S.A. Hsu, O.K. Huh, M. Inoue, L.J. Rouse, Jr., A. Sheremet, G. Stone, N. Walker, S. Welsh, and W.J. Wiseman, Jr., 2002, *Geologic framework and sedimentology of recent mud deposition on the eastern Chenier Plain coast and adjacent inner shelf, western Louisiana:* Gulf Coast

- Association of Geological Societies Annual Convention, October 30 – November 1, Austin, TX, Official Program, p. 101. (Talk and poster)
- Bentley, S.J., 2001, *Building the Sediment Record: Modeling physical and biological processes of stratal formation*. AGU Chapman Conference on Strata Formation on Margins, Ponce, Puerto Rico, June 2001. (Talk)
- Keen, T. S.J. Bentley, C.A. Blain, and J. Barnes, 2001, *Preservation potential of hurricane signatures in Mississippi Bight: Observations and model hindcasts*. American Geophysical Union Spring Meeting, Boston, May 2001. (Talk)
- Fan, S., D.J.P. Swift, R. Clayton, and S.J. Bentley, 2001, *Event stratigraphy on the northern California continental shelf: Role of high and low concentration suspensions*. American Geophysical Union Spring Meeting, Boston, May 2001. (Talk)
- Bentley, S.J., and T. Keen, 2000, *Preservation potential of event layers: Observations of hurricane sedimentation in the northern Gulf of Mexico*. Geological Society of America Fall Meeting, Reno, Nevada, Nov 2000. (Talk)
- Keen, T., and S.J. Bentley, 2000, *The generation of event layers: Numerical modeling of hurricane sedimentation in the northern Gulf of Mexico*. Geological Society of America Fall Meeting, Reno, Nevada, Nov 2000. (Talk)
- Bentley, S.J., Y. Furukawa, and W.C. Vaughan, 2000, *Record of event sedimentation in Mississippi Sound*. Gulf Coast Association of Geological Societies Annual Meeting, Houston, Nov 2000. (Poster)
- Bentley, S.J., and Richardson, M.D., 2000, *Biogenic influences on sediment porosity and shear strength: Long-term mesocosm study*. EOS 80:14. 2000 Ocean Sciences Meeting, San Antonio, TX. (Presented paper)
- Furukawa, Y., and Bentley, S.J., 2000, *Quantitative modeling of bioirrigation in benthic mesocosms*. EOS 80: 15. 2000 Ocean Sciences Meeting, San Antonio, TX. (Co-author on presented paper)
- Furukawa, Y., and Bentley, S.J., 1999, *Quantitative modeling of bioirrigation in benthic mesocosms*. Gordon Conference on Chemical Oceanography, August 20-22, 1999. (Co-author on presented paper)
- Bentley, S.J., 1999, *Animal-sediment interactions, modern and ancient: New travel on old roads*. Geological Society of America, Southeastern Section Annual Meeting, April 15-17, Athens, GA. (Presented invited paper).
- Bentley, S.J., Richardson, M.D., and Briggs, K.B., 1999, *Biological influences on physical properties of the shallow seabed: Preliminary results from mesocosm experiments*. Mississippi Academy of Sciences Annual Meeting, Feb. 26-28, Tupelo, MS. (Presented paper)
- Bentley, S.J., Richardson, M.D., and Furukawa, Y., 1999, *Particle and fluid transport by a mud-dwelling Acorn Worm (Enteropneusta)*. Gulf Coast Geochemistry Conference, Jan. 29-30, Cocodrie, LA. (Presented paper)
- Bentley, S.J., Nittrouer, C.A., Lopez, G.R., and Aller, R.C., 1998, *Bioturbation of sedimentary event layers: Observations and models for three contrasting shelf settings*. Proceedings, Organism-Sediment Interactions Workshop, University of South Carolina Marine Laboratory, September 25-27, 1998. (Presented paper)
- Briggs, K.B., Bentley, S.J., Richardson, M.D., and Young, D.K., 1998, *Alteration of sediment porosity profiles by benthic invertebrate activity*. Proceedings, Organism-Sediment Interactions Workshop, University of South Carolina Marine Laboratory, September 25-27, 1998. (Co-author on presented paper)

- Bentley, S.J., and Nittrouer, C.A., 1998, *Microfabric study of event-layer preservation in modern and ancient sediments: Eel River shelf and the Rio Dell formation, northern California*. AGU/ASLO Ocean Sciences Meeting, San Diego, CA, Feb 1998, Eos 79:OS34. (Presented paper)
- Briggs, K., Richardson, M.D., and Bentley, S.J., 1998, *Permeability of successive flood deposits off the Eel River, northern California: Effects of bioturbation*. AGU/ASLO Ocean Sciences Meeting, San Diego, CA, February 1998, Eos 79:OS34. (Co-author on presented paper)
- Bentley, S.J., and Nittrouer, C.A., 1997, *The fate of Halimeda-rich sediments in a carbonate-mud depositional environment: Dry Tortugas, Florida*. Geological Society of America Annual Meeting, Salt Lake City, October 20 1997. (Presented paper).
- Bentley, S.J., and Nittrouer, C.A., 1996, *Constraints on rates of sediment mixing and accumulation, Southeast Channel, Dry Tortugas*. Proceedings of CBBL/NRL Key West Campaign Workshop, Feb 1997, Stennis Space Center, MS. Dawn Lavoie, editor. (Presented paper)
- Bentley, S.J., and Nittrouer, C.A., 1996, *Time-series microfabric study of an event layer: The 1995 flood deposit on the Eel River shelf*. 1996 AGU Fall Meeting, Eos 77: F331. (Presented paper)
- Bentley, S.J., Nittrouer, C.A., and Lopez, G.R., 1995, *Measurement of progressive bioturbation in event layers: Eckernförde Bay*. Proceedings, CBBL/NRL Workshop on Modeling Methane-rich Sediments of Eckernförde Bay, Eckernförde, Germany, July 1995; Thomas Wever, editor. (Presented paper)
- Nittrouer, C.A., Sommerfield, C.K., and Bentley, S.J., 1994, *Formation of sedimentary strata in Eckernförde Bay*. 1994 Ocean Sciences Meeting, Eos 75: 180. (Co-author on presented paper).

#### Professional Affiliations

American Geophysical Union  
Society for Sedimentary Geology

#### Grant Activities

[Bracketed percent indicates funding share to Bentley.]

#### Proposals ongoing at LSU, 2011-2015

Principal Investigator: Samuel Bentley. Proposal Title: *Sediment Capture in Unleveed Floodplains of the Mississippi River*. Funding Agency: Water Institute of the Gulf. Funding level: \$72,000 [100%]. Duration: May 2015- April 2017.

Principal Investigator: Kehui Xu, coPIs Samuel Bentley and Chunyan Li. Proposal Title: *Assessment of Mud-capped Dredge Pit Evaluation on the Outer Continental Shelf of the Northern Gulf of Mexico*. Funding Agency: Bureau of Ocean Energy Management. Funding level: \$357,000 [35%]. Duration: August 2014- September 2017.

Principal Investigator: Robert Twilley, coPIs Samuel Bentley, Qin Jim Chen, Nina Lam, Kehui Xu, Scott Hagen, and Douglas Edmonds. Proposal Title: *DELTA*

*SEES: Sustainability of Deltaic Coastlines – The Trillion Dollar Problem.*  
Funding Agency: National Science Foundation. Funding level: \$1,600,000 [15%].  
Duration: January 2015 – December 2018.

Principal Investigators: Kehui Xu and Samuel Bentley. Proposal Title: *Erosion and Deposition of Diversion-deposited Sediments.* Funding Agency: Water Institute of the Gulf. Funding level: \$88,000 [50%]. Duration: June 2014-May 2016.

Principal Investigators: Kristine DeLong, Samuel Bentley and Kehui Xu. Proposal Title: *Investigation of an Ancient Bald Cypress in the Northern Gulf of Mexico.* Funding Agency: Bureau of Ocean Energy Management. Funding level: \$252,000 [30%]. Duration: August 2015- July 2018.

Principal Investigators: Samuel Bentley, Kevin Xu, and Ioannis Georgiou. Proposal Title: *Mass Wasting Processes and Products of the Mississippi Delta Front: Data Synthesis and Observation.* Funding Agency: Bureau of Ocean Energy Management. Funding level: \$344,458 [40%]. Duration: August 2013- July 2016. This is a pilot study to plan a larger project, re-evaluating delta front instabilities after the seminal work of Coleman in the 1970's.

Principal Investigators: Samuel Bentley, Kevin Xu, and Jim Chen. Proposal Title: *Geological and Geotechnical Characterization of the Middle Barataria and Middle Breton Sound Diversion Receiving Basins.* Funding Agency: the Water Institute of the Gulf. Funding Level: \$297,250 [40%]. Duration: Aug 2014-Dec. 2015. This is the second major geological investigation of diversion receiving-basin geology funded by Louisiana.

Principal Investigators: Liu, K-B., Lam, N., Bentley, S.J., and Frappier, A., Proposal Title: *A Multi-proxy, Multi-site Study of the Spatial and Temporal Variability of Caribbean Hurricane Activity: Performance Based Extension.* Funding Agency: Inter-American Agency for Global Change Research. Funding Level: \$300,000 [20%]. Duration: June 2011-June 2015.

### Completed Projects

Principal Investigators: Samuel Bentley, Kevin Xu, and Jim Chen. Proposal Title: *Geological and Geotechnical Characterization of the Lower Barataria and Lower Breton Sound Diversion Receiving Basins.* Funding Agency: the Water Institute of the Gulf. Funding Level: \$207,350 [50%]. Duration: June 2013-Dec. 2015. This is the first major geological investigation of diversion receiving-basin geology funded by Louisiana.

Principal Investigator: Samuel Bentley. Proposal Title: *Sedimentation Processes on Marsh Island, Alabama.* Funding Agency: Royal Engineers LLC. Funding level: \$4,300 [100%]. Duration: March 2013-Dec. 2013.

Principal Investigator: Samuel Bentley. Proposal Title: *Measurement of sedimentation rates for the White Ditch study area.* Funding agency: USGS. Funding level: \$9,000 [100%]. Duration: April 2013-Dec. 2013.

Principal Investigators, Samuel Bentley, Chunyan Li, John White, Sibel Bargu. Proposal Title: *RAPID: Sediment, water, and nutrient flux and fate in Lake Pontchartrain from the 2011 Bonnet Carre Spillway Opening.* Funding Agency: NSF. Funding level: \$99,520 [30%]. Duration May 2011-May 2013.

Principal Investigators Samuel Bentley, Chunyan Li, John White, Sibel Bargu. Proposal Title: *Preliminary Sampling of Lake Pontchartrain for the 2011*

- Mississippi Flood*. Funding Agency: Louisiana Sea Grant. Funding Level: \$10,000 [30%]. Duration: May 2011-May 2012.
- Principal Investigators: Bentley. Proposal Title: *Canada Research Chair in Seabed Imaging*. Funding Agency: Canada Research Chair Secretariat. Funding Level: \$500,000 CAN\$ [100%]. Duration: July 2006-June 2011.
- Principal Investigators: Bentley. Proposal Title: *Seabed Processes and Imaging Laboratory*. Funding Agency: Canada Foundation for Innovation and Newfoundland and Labrador Industrial Research and Innovation Fund. Funding Level: \$664,533 CAN\$ [100%]. Duration: July 2006-June 2011.
- Principal Investigators: Reimer, Biassutti-Brown, Bentley, Bell, and Pienitz. Proposal Title: *Nunatsiavut Nuluak: Understanding and Responding to the Effects of Climate Change and Modernization in a Northern Environment*. Funding Agency: ArcticNet. Funding Level: \$375,000 [25%]. Duration: April 2007-March 2011.
- Principal Investigators: Barber, Sydor, Bentley, Prinsenber. Proposal Title: *Freshwater-Marine Coupling in Hudson Bay*. Funding Agency: ArcticNet. Funding Level: \$365,000 [25%]. Duration: April 2007-March 2011
- Principal Investigator: Bentley. Proposal Title: *Oceanic Dispersal of Fluvial Sediment: Process and Product*. Funding Agency: Canada National Science and Engineering Research Council (NSERC). Funding Level: \$135,000 [100%]. Duration: July 2006 – June 2011.
- Principal Investigators Liu, Lam, Bentley, Donnelly, Alfaro, Peros. Proposal title: *Paleotempestology of the Caribbean Region: A Multi-proxy, Multi-site Study of the Spatial and Temporal Variability of Caribbean Hurricane Activity*. Funding Agency: Inter-American Institute for Global Change Research. Funding Level: \$1,000,000 US [8%]. Duration: July 2006 – June 2011.
- Principal Investigators: Dalrymple, Bentley, Kineke, Liu, Mei, Shen, Trowbridge, Traykovski, and Yue. Proposal Title: *Mechanisms of Fluid Mud Interactions Under Waves*. Funding Agency: US Office of Naval Research. Funding Level: \$3,500,000 US [10%]. Duration: July 2006 – June 2011.
- Principal Investigators: Snelgrove, Archambault, Juniper, et al. Proposal Title: *Canada Healthy Oceans Network (CHONE)*. Funding Agency: NSERC Strategic Research Network. Funding level: \$5,000,000 [1%]. Duration: 2008-2013.
- Principal Investigators: Samuel J. Bentley and Alexandru Sheremet. Proposal Title: *Observation and Modeling Study of Sediment Flux and Fate in the West Bay Diversion, Mississippi Delta*. Funding Agency: CREST (a consortium of Federal and State agencies). Funding Level: \$49,751 [50%]. Duration: July 2005-June 2006.
- Principal Investigators: Samuel J. Bentley, Alexandru Sheremet, G. Paul Kemp, and Harry Roberts. Proposal Title: *Sediment Dynamics and Management along Muddy Coasts in Louisiana*. Funding Agency: Louisiana Governor's Office of Coastal Affairs. Funding Level: \$76,223 [30%]. Duration: July 2005- June 2006.
- Principal Investigator: Samuel J. Bentley. Proposal Title: *Building the Sedimentary Record: Physical and Biological Processes of Stratal Formation*. Funding Agency: National Science Foundation CAREER. Funding Level: \$565,000 (NSF) [100%], \$7,000 (LSU match). Duration: May 2001-April 2006.
- Principal Investigators: Andre Droxler, Larry Peterson, Samuel J. Bentley, Gerry Dickens, and Brad Opdyke. Proposal Title: *Late Quaternary Siliciclastic and Carbonate Sediment Fluxes on the Slopes and Basin Floors of the Gulf of Papua*,

*Papua New Guinea*. Funding Agency: National Science Foundation Margins program. Funding Level: \$940,000 [30%]. Duration: October 2003-September 2006.

Principal Investigators: James Cowan, Charles Wilson, William Patterson, Samuel J. Bentley. Proposal Title: *Fisheries Habitat of Juvenile Red Snapper in the Northern Gulf of Mexico*. Funding Agency: National Sea Grant. Funding Level: \$369,000 [20%]. Duration: May 2003-April 2005.

Principal Investigator: Samuel J. Bentley. Proposal Title: *Quantitative Sedimentology System for Characterizing the Seabed of the Louisiana Coastal Region*. Funding Agency: Louisiana Board of Regents. Funding Level: \$80,000 (LaBOR) [100%], \$5,200 (LSU match). Duration: June 2001-May 2002.

Principal Investigator: Samuel J. Bentley. Proposal Title: *Quantitative Chemical Mass Transfer in Coastal Sediments During Early Diagenesis: Effects of Biological Transport, Mineralogy, and Fabric*. Funding Agency: Office of Naval Research. Funding Level: \$185,000 (ONR) [100%], \$25,000 (LSU). Duration: June 2000-December 2003

Principal Investigator: Samuel J. Bentley. Proposal Title: *Geochronology of Sediment Accumulation in the Atchafalaya Basin*. Funding Agency: US Corps of Engineers. Funding Level: \$23,000 [100%]. Duration: August 2002-August 2003. Currently on no-cost extension.

Principal Investigator: Samuel J. Bentley. Proposal Title: *Exchange, Development, and Support of Watershed Management Expertise, Education, and Research between LSU-Shreveport and LSU-Baton Rouge*. Funding Agency: LSU-S/Dept. of Agriculture. Funding Level: \$13,206 [100%]. Duration: July 2002 – Feb 2003.

Principal Investigator: Samuel J. Bentley. Proposal Title: *Application of  $^{210}\text{Pb}$ - $^{137}\text{Cs}$  Geochronology to Estimation of Growth-fault Offset, Southern Louisiana*. Funding Agency: U.S. Army Corps of Engineers. Funding Level: \$15,000 [100%]. Duration: Dec 2001- June 2002.

Principal Investigators: Samuel J. Bentley and Harry Roberts. Proposal Title: *Physical Properties of Hydraulic Piston Cores from Intraslope Basins on Continental Slope, Northwestern Gulf of Mexico*. Funding agency: Fugro-McClelland Marine Geosciences. Funding level: \$9,600 [50%]. Duration: Dec 2002-June 2003.

Principal Investigator: Samuel J. Bentley. Proposal Title: *Recent Geochronology of Sediment Deposits in the Wax Lake Delta*. Funding Agency: Exxon-Mobil Upstream Research. Funding Level: \$9,600 [100%]. Duration: Aug 2001-June 2002.

Principal Investigator: Samuel J. Bentley. Proposal Title: *High-Resolution Geochronology of Cores from Mississippi Sound and the Adjacent Shelf*. Funding Agency: Naval Oceanographic Command, NASA Stennis Space Center. Funding Level: \$38,000 (NAVO) [100%]. Duration: May 2001-November 2002.

Principal Investigators: William Patterson, Samuel Bentley, James Cowan, Tyrell Henwood, and Charles Wilson. Proposal title: *Fisheries Habitat of Juvenile Red Snapper in the Northern Gulf of Mexico*. Funding Agency: National Sea Grant. Funding Level: \$171,000 [25%]. Duration: May 2001-April 2003.

Journals edited, manuscripts referred, books and proposals reviewed

2009-2012 *Associate Editor (Sedimentology and Stratigraphy)*, Canadian Journal of Earth Sciences  
 2012 *Panelist*, NSF Marine Geology and Geophysics Review Panel  
 2005 *Panelist*, EPA STAR graduate fellowship proposal review panel  
 2004 *Education Panelist*, NSF CAREER Proposal Review Panel  
 2003-Present *Regular reviewer*, Geology, Marine Geology, Continental Shelf Research, Journal of Sedimentary Research, Sedimentology, Journal of Geophysical Research. Regular reviewer for proposals from NSF Marine Geology and Polar Programs.

Summary Results of Teaching Evaluations (present LSU G&G appointment only): [Scores include standard deviations in brackets]

Semester	Year	Rubric	Course #	Questions 1-8			Question 9 (Course Rating)		
				Candidate	Dept (Upper UG)	BASC (Upper UG)	Candidate	Dept (Upper UG)	BASC (Upper UG)
Spring	2011	GEOL	4164-001	3.7	3.60 [.34]	3.62 [.29]	3.69	3.56 [.31]	3.48 [.41]
Fall	2011	GEOL	3032 1-2	3.58	3.51 [.23]	3.67 [.27]	3.54	3.37 [.38]	3.53 [.37]
Spring	2012	GEOL	7132-001	3.66	3.68 [.05]	3.70 [.2]	3.53	3.64 [.19]	3.68 [.25]
Fall	2012	GEOL	3032-001	3.67	3.78 [.15]	3.69 [.23]	3.44	3.72 [.24]	3.57 [.36]
Fall	2012	GEOL	3032-002	3.71	3.78 [.15]	3.69 [.23]	3.57	3.72 [.24]	3.57 [.36]

Semester	Year	Rubric	Course #	Question 10 (Instructor Rating)			Responses	Enrollment
				Candidate	Dept (Upper UG)	BASC (Upper UG)		
Spring	2011	GEOL	4164-001	3.69	3.44 [.47]	3.51 [.42]	13	22
Fall	2011	GEOL	3032 1-2	3.54	3.32 [.36]	3.55 [.4]	28	45
Spring	2012	GEOL	7132-001	3.71	3.70 [.16]	3.67 [.27]	17	18
Fall	2012	GEOL	3032-001	3.56	3.75 [.2]	3.61 [.38]	9	20
Fall	2012	GEOL	3032-002	3.71	3.75 [.2]	3.61 [.38]	7	18

Teaching history

*LSU Geology and Geophysics*

GEOL 7132 Dynamics of Sedimentation. 2 hours lecture, 1 hour lab. Spring 2012, 2013, 2014

- 15 students.

GEOL 4164 Deltaic Geology. 2 hours lecture, 1 hour lab. Spring 2011, 2013, 2014

- 26 students.

GEOL 3032 Introduction to Sedimentology and Depositional Environments. 3 hours lecture, 1 hour lab. Fall 2011, 2012, 2013, 2014 - 40 students.

*Memorial University of Newfoundland, Earth Sciences Department*

EASC 6320 Advanced Sedimentology. 3 hours lecture. Spring 2008, 2009, 2010  
- 8 students.

EASC 4302 Advanced Marine Geology. 3 hours lecture. Spring 2007, 2008 - 30  
students.

EASC 2702 Introduction to Sedimentology and Stratigraphy. 3 hours lecture, 1 hour  
lab. Fall 2006, 2007, 2008, 2009, 2010 - 45 students.

*LSU Oceanography and Coastal Sciences*

OCS 2009 Introduction to the Marine Environment: Physical and Geological  
Processes (New Course), Section 1. 3 hours lecture, 1 hour lab. Spring 2003,  
2005  
- 10 students.

OCS 4001 Introduction to Sediment Radiochemistry (New Course), Section 6. 1 hour  
lecture. Spring 2002, 2004 - 9 students.

OCS 4210 Geological Oceanography, Section 1. 3 hours lecture. Fall 2001, 2002, 2003,  
2004, 2005 - 14 students.

OCS 1005 Introduction to Oceanography, Sections 1 and 2. 3 hours lecture each. Fall  
2000 – 160 students.

Student Mentoring

Summary

BS Honors/Senior Theses:

*7 completed*

MS Theses:

*13 completed, 3 in progress*

PhD Dissertations:

*2 completed, 7 in progress*

Undergraduate Students

*BS Honors/Senior Thesis Advisor for:*

Stephanie Johnson, Memorial BS, December 2007

Elisabeth Kahlmeyer, Memorial BS, May 2008

Trisandhi Gosine, Memorial BS, May 2009

Kendra Carrigan, Memorial BS, December 2010

Ed Lo, LSU G&G BS, expected December 2013

Matthew Smith, LSU G&G BS May 2014

James Smith, LSU G&G, BS expected May 2015

*BS Honors Thesis Committee Member for:*

Lindsay Prothro, LSU BS, May 2013

Shane Cone, LSU BS, May 2013

Patrick Robichaux, LSU BS expected May 2015



### Graduate Students

#### *Graduate Advisor for:*

Kristina Rotondo, LSU DOCS MS, May 2004  
Trinity Dufrene, LSU DOCS MS, May 2005  
Brian Velardo, LSU DOCS MS, May 2005  
Luke Patterson, LSU DOCS MS, May 2006  
Skyler Neylon, LSU DOCS MS, May 2006  
Mitch Andrus, LSU DOCS MS, August 2007  
Zahid Muhammad, LSU DOCS PhD, August 2009  
Kathryn Denomme, Memorial MS, May 2010  
Elisabeth Kahlmeyer, Memorial MS, December 2010  
Peter Huelse, Memorial PhD, December 2011  
Jeff Fabre, LSU G&G MS, May 2012  
Ashley Howell, LSU G&G MS, August 2013  
Laura Sorey, LSU G&G MS, May 2014

Greg Keller, LSU G&G MS expected August 2015  
Jeff Bomer, LSU G&G MS expected May 2016  
Ethan Hughes, LSU G&G MS expected May 2016  
Erlangga Septama, Memorial PhD, expected December 2015  
Lina Stolze, Memorial PhD, expected December 2015  
Kathryn Denomme, LSU G&G PhD, expected December 2015  
Jill Banks, LSU G&G PhD, expected December 2015  
Crawford White, LSU G&G PhD, expected May 2016  
Mitch Andrus, LSU G&G PhD, expected December 2016  
Brian Vosburg, LSU G&G PhD, expected December 2016

### Thesis Committee Membership

#### *Member of Thesis Committee for:*

Katherine Wheelock, LSU DOCS MS 2003  
Paul Libbers, LSU Chemical Engineering MS 2002  
Fernando Flores, LSU Petroleum Engineering PhD 2002, Dean's representative  
Lynn Valencic, LSU Physics and Astronomy PhD 2003, Dean's representative  
Allen Reed, LSU DOCS PhD, May 2004  
Lauren Mione, LSU DOCS MS, December 2004  
Micah Russell, LSU DOCS MS, December 2004  
Melissa Baustian, LSU DOCS MS, May 2005  
Thorpe Halloran, LSU RNR PhD, May 2006  
Hilary Collis, LSU DOCS MS, Dec 2006  
Jeff Agnew, LSU G&G PhD, May 2007  
Kevin Boswell, LSU DOCS PhD, May 2006  
Lawrence Febo, LSU G&G PhD, May 2007  
David Wells, LSU DOCS PhD program, May 2007  
Chris Smith, LSU DOCS PhD program, May 2007  
Matt Johnston, Memorial MS, December 2010  
Julio Salcedo, Memorial PhD, May 2011

Elizabeth Chamberlain, LSU G&G MS, May 2012  
Kolawole Bello, LSU G&G MS, December 2012  
Zachary Hendershott, LSU G&G MS, August 2012  
Hunter Berch, LSU G&G MS, August 2013  
Taylor Berlin, LSU G&G MS, expected December 2013  
Randy Paylor, LSU G&G PhD, expected December 2014  
Brittany Schwarzkopf, LSU DOCS MS, expected May 2014  
Tom Bianchette, LSU DOCS PhD, expected May 2014  
Marie Thomas, LSU G&G, PhD, expected May 2015  
Shannon Ferguson, LSU G&G, PhD, expected May 2015  
Ian Floyd, LSU Civil & Environmental Engineering PhD, expected May 2016  
Emad Elfar, LSU G&G, PhD, expected May 2016