Curriculum Vitae

Samuel Jackson Bentley, Sr.
Professor of Geology
Harrison Chair in Sedimentary Geology
Vice President for Research and Economic Development

134 David Boyd Hall
Louisiana State University (LSU)
Baton Rouge, LA 70803
Phone: (225) 578-4422
Louisiana Professional Geologist License #123
Email:sjb@lsu.edu
www.lsu.edu/geology
www.lsu.edu/research

Leadership Experience and Collaborative Skills

- Demonstrated ability to build and work with multidisciplinary teams of diverse composition (academic, government, NGO, indigenous) to achieve complex objectives
- Demonstrated ability to envision new projects in research and higher education, and to develop necessary framework to build from vision to a successful reality
- Experience in consensus building, conflict resolution, planning for success
- Skill in use of budgetary and performance data to plan strategically

Areas of Scientific Expertise

- Marine Sedimentology, focusing on processes and geological products of fluvial-marine dispersal systems
- Geological, climatic, and anthropogenic controls on coastal river deltas
- Sediment Radiochemistry, focusing on measurement of seabed processes using U-series and fallout isotopes

International Experience

- Record of grant success in US (federal and state agencies), Canada (federal and indigenous governments), New Zealand
- Five years residing in Newfoundland, Canada, as a federally funded academic researcher

- Funded for research (coastal to deep-sea settings) in Papua New Guinea, New Zealand, Canada (Scotian Slope, Hudson Bay, Labrador Sea, Baffin Bay, Hudson Strait), New Caledonia, Gulf of Mexico (onshore and offshore Mississippi Delta; Mississippi-Alabama shelf), with additional oceanographic field experience in Indonesia, Solomon Islands, Australia, Germany, Florida Keys, Alaska

Google Scholar

H-index 30 (as of August 2021)
https://scholar.google.com/citations?hl=en&user=iwHynpoAAAAJ

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

2019-Present	***Vice President for Research and Economic Development***, LSU Office of Research and Economic Development
2019	***Interim Vice President for Research and Economic Development***, LSU Office of Research and Economic Development
2017-2019	***Associate Dean for Research and Administration***, LSU College of Science
2017-2019	***Associate Director***, Coastal Studies Institute, LSU
2017	***Erich and Lea Sternberg Professor***, LSU Honors College
2012-2017	***Director***, Coastal Studies Institute, LSU
2014-Present	***Professor and Harrison Chair in Sedimentary Geology***, Department of Geology and Geophysics, LSU
2011-2014	***Associate Professor and Harrison Chair in Sedimentary Geology***, Department of Geology and Geophysics, LSU
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, Canada
2006-Present	***Adjunct Professor***, Department of Oceanography and Coastal Sciences, LSU
2004-2006	***Associate Professor***, Department of Oceanography and Coastal Sciences, LSU
1999-2004	***Assistant Professor***, Department of Oceanography and Coastal Sciences, LSU

1998-1999 ***Postdoctoral Fellow***, Naval Research Laboratory, Stennis Space Center

Recent LSU Achievements in Research and Economic Development under Bentley's leadership

- LSU earned a record $166.1 million in grant and contract awards in FY2021 (up from long-term average near $150 million)
- LSU achieved a 55% increase in biotechnology awards to LSU from 2019 ($24 million) to 2021 ($37.3 million),
- LSU doubled the campus success rate for NSF CAREER awards from 2019 to 2020 and maintained that success in 2021.
- LSU achieved a record number of US patents for FY2021 (67), ranking in the top 100 universities internationally for US utility patents in 2020.
- US Army Grant of $10 million upgrade to light- and transmission-electron microscopy facilities at LSU, with Bentley as PI
- NSF ADVANCE Award, coPI, focused on success of intersectional women faculty in STEM colleges at LSU.
- Review and likely reorganization of existing ORED funding program within LSU to provide more balanced support for wider range of faculty needs than at present
- Development of new communications and proposal-development programs to support the achievements above.

Prior Accomplishments

Associate Dean for Research and Administration, LSU College of Science, 2017-2019

- Developed and led study of possible future costs to College of Science for faculty expansion proposed for 2019-2013
- Developed and led a first-ever study of College of Science faculty return on investment for all hires 2006-2018, based on startup costs and grant revenue generated
- Participated in 2018 NSF ADVANCE proposal to study and support success of female faculty and intersectionality in LSU STEM departments. Although the proposal was not funded, the process taught me a tremendous amount about challenges faced by women faculty, about feminist intersectionality, and about the LSU climate, based on our seven months of work, and a climate study.
- Developed and led study of cost to College of Science for "stop the tenure clock" requests, due to delayed lab construction 2013-2019
- Developed and led study of cost to College of Science for Science faculty lost to other universities
- Developed and led College of Science effort to develop six new interdisciplinary strategic initiatives, Fall 2017, using NSF-style panel competition

Director, LSU Coastal Studies Institute (CSI), 2012-2017

- Led expansion of LSU Coastal Studies Institute to become one of the largest and most robust interdisciplinary research units on the LSU campus, from eight faculty in one college to ~30 faculty across five colleges, and six staff

- Led turnaround from multiple years of budget deficits to balanced budgets
- Obtained new lines of graduate research support for CSI

Chair, LSU Coastal Sustainability and Environment Working Group, 2012

- Tasked with envisioning new approaches to coastal research centers at LSU
- Led study of existing LSU coastal research units, and the reorganization of the Coastal Studies Institute (chartered 1954) to become a campus-wide unit
- Established new lines of financial support for CSI based on new indirect cost return to the Institute

Professor and Billy and Ann Harrison Chair in Sedimentary Geology, LSU Geology and Geophysics, 2011-Present

- Terrebonne Parish Indian Education Program Annual Youth Leadership Program 2014-Present, co-lead for workshop with emphasis on teaching Native American students about college educational opportunities
- Co-lead (with R. Twilley) on NSF Coastal SEES grant, 2014-2019, studying coupling among delta morhpodynamics, community flood risk, and river-management policies for the Mississippi River, spanning years of 1850-2100. In this study, we are establishing the radius-of-influence for sediment dispersal in from river-sediment diversions, we have identified key environmental factors that drive population migration within and out of the Delta, and we have determined that deltaic land loss has had driven a large increase in community flood risk from hurricane surge since ca. 1850
- PI on BOEM-funded study (2013-2019) of submarine landslides on the Mississippi River Delta Front, including the first regional geological and geophysical surveys of the Delta Front since 1977-1979. This work is leading to a new understanding of temporal and spatial scales of mass transport on the Delta Front

Canada Research Chair in Seabed Processes, Earth Sciences Department, Memorial University of Newfoundland, 2006-2011

- PI for Canadian federal grants that obtained five years of my salary (12 months per year), full startup costs for a new marine geological lab, and oceanographic field and lab support for five years of research in the Canadian Arctic and Subarctic
- Chief scientist for first coastal-fjord geological and marine-ecosystem surveys of Torngat Mountains National Park, Northern Labrador, Canada's newest national park at that time
- Partnered with Inuit Government (co-managers with Parks Canada of Torngat Mountains National Park) and Inuit community leaders for exchange of scientific knowledge and traditional ecological knowledge of the park region
- Chief Scientist for ArcticNet oceanographic research cruise on the November 2009 CCGS Amundsen survey of Hudson Strait, western Labrador Sea, and fjords of the Torngat Mountains National Park.

Assistant/Associate Professor, LSU Department of Oceanography and Coastal Sciences

- NSF CAREER Award (2001)
- Tiger Athletic Foundation Teaching Award (2003)
- Designed and gained approval for a new minor in Oceangraphy (2004), and new undergraduate oceanography course sequence; this was the first undergraduate academic program developed by the Department of Oceanography to that date

Honors

2017	***Eric and Lea Sternberg Professorship***, top honor awarded annually by the LSU Ogden Honors College
2011-Present	***Billy and Ann Harrison Endowed Chair in Sedimentary Geology,*** LSU Department of Geology and Geophysics
2010-2012	***Research Councilor*** (internationally-elected position), Society for Sedimentary Geology
2006-2011	***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*** , 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***
1985	**Bachelor of Arts in Theater, *Magna Cum Laude***, University of Georgia
1985-1986	**University of Georgia Graduate School Scholarship**
1985-Present	***Member,* Phi Beta Kappa Society**
Offered	***NRL-SSC Visiting Scientist Fellowship*** for Summer 2000 (declined due to scheduling conflicts)

Professional and Administrative Appointments

2018-Present	***Member***, Coastal Advisory Team for the Louisiana 2023 Coastal Master Plan, appointed by the Louisiana Coastal Protection and Restoration Authority.

2018-Present ***Member***, Pool of Experts for Second UN World Oceans Assessment (nominated by US Department of State, appointed by UN)

2017-2019 ***Coordinator***, Louisiana State University (LSU) College of Science Strategic Plan Development

2016-Present ***Member***, LSU 2017 Strategic Plan, Coast & Environment Subcommittee

2016-2018 ***Member***, Coastal Research Council, LSU Office of Research and Economic Development

2016 ***Member***, Review Panel for East China Normal University State Key Laboratory for Estuarine and Coastal Research

2015-2017 ***Academic Stakeholder Representative***, Framework Development Team for Louisiana's 2017 Coastal Master Plan

2015-Present ***Guest Educator***, Terrebonne Parish Indian Education Program Youth Leadership Weekend Workshops

2014-2017 ***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

2013-2017 ***Director***, LSU Coastal Studies Institute (appointed by Vice Chancellor for Research and Economic Development)

2013 ***Member***, LSU Transition Advisory Team, Research and Discovery Subcommittee

2012-2013 ***Member***, Search Committee for LSU Vice Chancellor for Research and Economic Development

2012-2015 ***Chair***, Education and Knowledge Transfer Working Group of the Community Surface Dynamics Modeling System (NSF Facility, csdms.colorado.edu)

2012-2015 ***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

2011-2016 ***Guest Lecturer***, Williams College-Mystic Seaport Maritime Studies Program, Mississippi Delta Field Seminar, Spring and Fall semesters, every year

2011-2014 ***Chair*** (2011-2013) and ***Member***, 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 ***Board Member***, Royal Engineers and Consultants, Corporate Advisory Board

2010-2014 ***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 New Zealand
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
2007-2012	***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)
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	***Judge***, 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

Selected Media Activities Highlighting Research and Engagement

Sep 2018	Interview on LSU CSI and coastal land loss published in geoscience news magazine AAPG Explorer: https://explorer.aapg.org/story/articleid/49225/louisiana-coastal-loss-drives-environmental-disenfranchisement
Dec 2017	Interviewed by ***AGU TV*** for segment on Coastal Louisiana Land Loss https://www.youtube.com/watch?v=Gn9cYI5wv0Q
Aug 2017	***Science Magazine*** Featured in an article on submarine landslides on the Mississippi River Delta Front: http://www.sciencemag.org/news/2017/08/germans-torpedoed-ship-during-world-war-ii-wreck-now-revealing-secrets-about-underwater
Feb 2017	***Institut de Recherche pour le Développement*** **(IRD)** Featured in a video produced by the French agency to document an international expedition to study mangroves in New Caledonia. https://www.youtube.com/watch?v=TJBJmxhlIds
July 2016	***American Association for the Advancement of Science (AAAS)*** highlighted LSU CSI collaborative paper on the Mississippi Delta: https://www.eurekalert.org/pub_releases/2016-07/lsu-nsc070616.php
Jan 2016	***The Advocate*** Featured in article on new CSI/USGS paper on hurricanes and wetland sedimentation. Also featured in ***Louisiana Sportsman Magazine*** article on the same paper. http://www.theadvocate.com/baton_rouge/news/article_eaaba7e6-dc7a-52db-bbee-2285d16e9019.html
Sept 2013	***The Science Channel*** Featured in the show Strip the City – New Orleans episode. Summary article: http://www.nola.com/tv/index.ssf/2014/02/strip_the_city_from_discovery.html
June 2013	***NOLA.com*** Participated in the heated public discussion of diversion strategies for coastal restoration covered in this article: http://www.nola.com/environment/index.ssf/2013/06/st_bernard_and_plaquemines_par.html#incart_river
May 2013	***Louisiana State House of Representatives*** Gave testimony on LSU coastal activities to the Natural Resources Committee. http://www.theadvocate.com/baton_rouge/news/politics/legislature/article_3050b4ec-633d-57c9-97c8-839c45e82cb4.html
April 2013	***Houma Today*** CSI reorganization led by Bentley featured in news article: http://www.houmatoday.com/news/20130128/lsu-reorganizing-coastal-studies-institute

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.

1. 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.
2. SJ 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.
3. 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.pdfp. 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.)
4. 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.pdfp. 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.)
5. Bentley, S.J., and Baustian, M, 2006, **Coastal Marine Geology: A Laboratory Manual**. Privately published for summer field course. 56 p.
6. 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.
7. 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 Atmopheric Research Client Report HAM2004-149**, 135 p.

8. 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.
9. 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.
10. 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.
11. 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, Published or In Press

Underlined name indicates student author at time of research
* indicates corresponding author

1. Haddadian, S, *CE Ozdemir, BL Goodlow, G Xue, SJ Bentley, 2021, Direct Numerical Simulations of Miniature Along-Shelf Current-Supported Turbidity Currents: Conceptual Investigation of Velocity Structure and Drag Coefficient. Journal of Geophysical Research: Oceans, 126: 8, e2020JC016736
2. *DeLong, K. L., Gonzalez, S., Obelcz, J. B., Truong, J. T., Bentley, S. J. Sr, Xu, K., Reese, C. A., Harley, G. L., Caporaso, A., Shen, Z. & Middleton, B. A., 2021: Late Pleistocene baldcypress (Taxodium distichum) forest deposit on the continental shelf of the northern Gulf of Mexico. Boreas. https://doi.org/10.1111/bor.12524. ISSN 0300-9483.
3. *Mallarino, G., J Francis, S Jorry, J Daniell, A Droxler, G Dickens, SJ Bentley, 2021, Timescale dependent sedimentary record during the past 130 kyr from a tropical mixed siliciclastic–carbonate shelf edge and slope: Ashmore Trough (southern Gulf of Papua). Sedimentology, https://doi.org/10.1111/sed.12867
4. Li, G., *K Xu, ZG Xue, H Liu, SJ Bentley, 2021, Hydrodynamics and sediment dynamics in Barataria Bay, Louisiana, USA. Estuarine, Coastal and Shelf Science 249, 107090
5. Ou, Y, *ZG Xue, C Li, K Xu, JR White, SJ Bentley, Z Zang, 2020, A numerical investigation of salinity variations in the Barataria Estuary, Louisiana in

connection with the Mississippi River and restoration activities. Estuarine, Coastal and Shelf Science, 2020

6. *Zang, Z., ZG Xue, K Xu, SJ Bentley, Q Chen, EJ D'Sa, 2008, The role of sediment-induced light attenuation on primary production during Hurricane Gustav (2008). Biogeosciences, 2020
7. *Zang, Z, ZG Xue, K Xu, CE Ozdemir, Q Chen, 2020, A Numerical Investigation of Wave-Supported Gravity Flow During Cold Fronts Over the Atchafalaya Shelf. Journal of Geophysical Research: Oceans, 2020
8. Robichaux, Patrick, Kehui Xu, Samuel J Bentley, Michael Miner, Z George Xue, 2020, Morphological evolution of a mud-capped dredge pit on the Louisiana shelf: Nonlinear infilling and continuing consolidation. Geomorphology 354: 1, 107030, https://doi.org/10.1016/j.geomorph.2019.107030
9. Huang, Wei, Chunyan Li, John R White, Sibel Bargu, Brian Milan, Samuel J. Bentley, 2020, Numerical Experiments on variation of freshwater plume and leakage effect from Mississippi River diversion in the Lake Pontchartrain Estuary. Journal of Geophysical Research Oceans, https://doi.org/10.1029/2019JC015282
10. Maloney, Jillian, Samuel J. Bentley, Kehui Xu, Ioannis Y. Georgiou, Navid H. Jafari, Michael D. Miner, 2020, Mass wasting on the Mississippi River Subaqueous Delta. Earth Science Reviews, https://doi.org/10.1016/j.earscirev.2019.103001
11. Chaytor, Jason D., Wayne E. Baldwin, Samuel J. Bentley, Melanie Damour, Douglas Jones, Jillian Maloney, Michael D. Miner, Jeff Obelcz and Kehui Xu, 2019, Short- and long-term movement of mudflows of the Mississippi River Delta Front and their known and potential impacts on oil and gas infrastructure. Geological Society, London, Special Publications, 500, https://doi.org/10.1144/SP500-2019-183
12. Wang, Jiaze, Kehui Xu, Samuel J Bentley, Crawford White, Xukai Zhang, Haoran Liu, 2019, Degradation of the Plaquemines sub-delta and relative sea-level in eastern Mississippi deltaic coast during the Late Holocene. Estuarine, Coastal and Shelf Science Volume 227, 31 October 2019, 106344
13. Li, An, Frank T.-C. Tsai, Kehui Xu, Jiaze Wang, Crawford White, Samuel J. Bentley, Qin J. Chen, 2019, Modeling sediment texture of river-deltaic wetlands in the Lower Barataria Bay and Lower Breton Sound, Louisiana, USA. Geo-Marine Letters https://doi.org/10.1007/s00367-019-00566
14. Xu, Kehui, Samuel Bentley, John Day, Angelina Freeman, 2019, A Review of Sediment Diversion in the Mississippi River Deltaic Plain. Estuarine, Coastal, and Shelf Processes, https://doi.org/10.1016/j.ecss.2019.05.023.
15. Bomer, E.J., Bentley, S.J., Crawford, F., Hughes, J.E.T., et al., 2019, Sediment Dynamics and Stratigraphic Evolution of Middle Barataria Bay and Middle Breton Sound, Louisiana, USA: Implications for the Implementation of River-Sediment Diversions. Estuarine, Coastal, and Shelf Science, https://doi.org/10.1016/j.ecss.2019.03.0.
16. Zang, Zhengchen, George Xue, Kehui Xu, Samuel J Bentley, Qin Chen, Eurico J D'Sa, Qian Ge, 2019, A Two Decadal (1993–2012) Numerical Assessment of Sediment Dynamics in the Northern Gulf of Mexico, Water https://doi.org/10.3390/w11050938

17. Denommee, K.D*., Harazim, D., and Bentley, S.J., 2019, Mud deposition and diagenesis within an Early Paleozoic clinothem: Power Steps Formation, Newfoundland, Canada. Geological Magazine, . DOI: https://doi.org/10.1017/S0016756819000402
18. Reese, C.A.*, Grant L. Harley, Kristine DeLong, Samuel J. Bentley, Kehui Xu, Suyapa Gonzalez, Jonathan T. Truong, Jeffrey Obelcz, Alicia Caporaiso, 2018, Stratigraphic pollen analysis performed on a Late-Pleistocene cypress forest preserved on the northern Gulf of Mexico continental shelf: paleoenvironmental implications. Journal of Quaternary Science 33 (8), 865-870.
19. Wang, J.*, Xu, K., Restreppo, G.A., Bentley, S.J., Meng, X., and Zhang, X., 2018, *The coupling of bay hydrodynamics to sediment transport and microtidal wetlands stability under high rates of relative sea level rise*. Marine Geology https://doi.org/10.1016/j.margeo.2018.08.
20. Restreppo, G.*, Bentley, S.J., Xu, K., and Wang, J., 2018, *Riverine Sediment Contribution to Distal Wetlands: Fourleague Bay, LA*. **Estuaries and Coasts**, doi.org/10.1007/s12237-018-0453-0.
21. Obelcz, J*., Xu, K., Bentley, S.J., O'Connor, M. and Miner, M.D., 2018. *Mud-capped dredge pits: An experiment of opportunity for characterizing cohesive sediment transport and slope stability in the northern Gulf of Mexico***. Estuarine, Coastal and Shelf Science**, https://doi.org/10.1016/j.ecss.2018.04.039
22. Wicks, C.M*., Paylor, R.L. and Bentley, S.J., 2018. *Estimating surface/subsurface sediment mixing in karst settings using ^{7}Be isotopes*. **Water Resources Research**, https://doi.org/10.1002/2017WR022192
23. Maloney, J.M*., S.J. Bentley, K. Xu, J. Obelcz, I.Y. Georgiou, M. Miner, 2018, *Mississippi River subaqueous delta is entering a stage of retrogradation*. Invited research article, **Marine Geology** https://doi.org/10.1016/j.margeo.2018.03.001.
24. Sha, X.*, Xu, K., Bentley, S.J., and Robichaux, P.A., 2018, *Characterization and modeling of sediment settling, consolidation, and suspension to optimize coastal Louisiana restoration*. **Estuarine Coastal and Shelf Sciences**, https://doi.org/10.1016/j.ecss.2018.02.0.
25. Thomas, M.L*., Warny, S., Jarzen, D.M., Bentley, S.J., Droxler, A.W., Harper, B.B., Nittrouer, C.A. and Xu, K., 2018. Palynomorph evidence for tropical climate stability in the Gulf of Papua, Papua New Guinea, over the latest marine transgression and highstand (14,500 years BP to today). **Quaternary International**. https://doi.org/10.1016/j.quaint.2017.12.035
26. Gonzalez, S*., Samuel J. Bentley, Kristine DeLong, Kehui Xu, Jeffrey Obelcz, Truong Johnathon, Grant Harley, Reese Carl A., Alicia Caporaso, 2017, Facies reconstruction of a late Pleistocene cypress forest discovered on the northern Gulf of Mexico continental shelf, **Gulf Coast Association of Geological Societies Transactions**, v. 67, p. 133-146.
27. Denommee, K.C.*, Bentley, S.J. & Harazim, D. **Geo-Marine Letters** (2017) Mechanisms of muddy clinothem progradation on the Southwest Louisiana Chenier Plain inner shelf. https://doi.org/10.1007/s00367-017-0525-3
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flux: Insights from the Mississippi River Delta Front. **Geology** (2017) 45 (8): 703-706. DOI:https://doi.org/10.1130/G38688.1.

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33. Septama, E*., and Bentley, SJ., 2016, Late Quaternary geomorphology, seabed evolution, and terrigenous sediment delivery to the Pandora and Moreseby Troughs, Gulf of Papua. **Marine Geology** doi:10.1016/j.margeo.2016.06.004.
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35. Xu, K.*, Bentley, S.J., Robichaux, P., Sha, X., and Yang, H., 2016, Implications of texture and erodibility for sediment retention in receiving basins of Coastal Louisiana diversions. **Water** 2016, 8(1), 26; doi: 10.3390/w8010026.
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40. 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. **Palynology** DOI: 10.1080/01916122.2015.1014526.

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43. Howell, AL., 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. (Howell was my MS student, and this work grew out of the 2004 NSF-S2S project with myself, Droxler, Peterson, Dickens, and others.)
44. 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.
45. 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 and PhD with me.)
46. Denommee, K.C*., and Bentley, S.J., 2013, *Clinoform mechanics on the Southwest Louisiana Continental Shelf*, **Gulf Coast Association of Geological Societies Transactions**, 63: 205-212.
47. 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.)
48. 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.)
49. 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.)
50. 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.
51. 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.)

52. 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.)
53. 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 paper was based on a summer field course I taught with NSF-CAREER support at LUMCON.)
54. Muhammad*, Z., Bentley, S.J., et al., 2008, *Excess ^{210}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.)
55. 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.)
56. Carson*, B., Droxler, A.W., Dickens, G., S. Bentley, et el., 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.)
57. 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.)
58. 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 as a Visiting Scientist.)
59. 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.)

60. 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.)
61. 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.
62. 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 and is now doing a PhD with me.)
63. 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.)
64. 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.)
65. 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.*
66. 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.
67. 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.)
68. 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.)
69. 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.

70. 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.
71. 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.
72. 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.
73. 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.
74. 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.
75. Bentley, S. J*., Rotondo, K., Roberts, H. H., Stone, G. W., & Huh, O. K., 2003. *Transport and accumulation of cohesive fluvial sediments on the inner shelf: From the Atchafalaya River downdrift to the Louisiana Chenier Plain*. **Proceedings of the International Conference on Coastal Sediments 2003**.
76. 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 Transactions** 53: 210-216.
77. 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.
78. 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.
79. Patterson*, Luke J., Muhammad, Zahid, and Bentley, Samuel J, Britsch, L. Del and Dillon, Douglas L., 2003, *^{210}Pb and ^{137}Cs geochronology of the Lake Fausse Pointe region of the Lower Atchafalaya Basin*. **Gulf Coast Association of Geological Societies Transactions** 668-675.
80. 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.
81. 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.
82. 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.
83. 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.

84. 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.
85. 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.
86. Bentley*, S.J., Y. Furukawa, and W.C. Vaughan, 2000, *Record of event sedimentation in Mississippi Sound*. **Transactions of the Gulf Coast Association of Geological Societies** 617-625.
87. 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.
88. 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.
89. 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.
90. 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

2018	***Speaker***, East China Normal University, Oct. 2018, World Deltas Symposium, Shanghai, China
2018	***Speaker***, Dauphin Island Sea Lab, Invited seminar, November 2018, Dauphin Island, Alabama
2018	***Speaker***, University of Southern Mississippi Invited Seminar, May 2018, Stennis Space Center, Mississippi
2017	***Speaker***, International Association for Hydro-Environment Engineering and Research, Annual Conference, Aug 2017, Kuala Lumpur, Malaysia
2017	***Speaker***, Acoustical Society of America, National Meeting, Dec 2017, New Orleans
2016	***Speaker***, American Geophysical Union Fall Meeting, Special Session on Cohesive Sediment Transport, Dec 2016, San Francisco
2016	***Speaker and Review Panelist***, East China Normal University, Oct 2016, Shanghai, China
2015-Present	***Speaker and Guest Educator***, Terrebonne Parish Indian Education Youth Leadership Workshop

2015 ***Speaker***, Tulane University Department of Earth Sciences, Nov 2015, New Orleans

2015 ***Erudite Fellow/Visiting Scholar***, Cochin University of Science and Technology, Sept 2015, Kochi, India

2015 ***Speaker***, Naval Research Laboratory Cohesive Sediments Meeting, July 2015, Senigallia, Italy

2014 ***Speaker***, International Deltas Meeting, July 2014, Istomino, Russia

2013 ***Speaker***, Coalition to Restore Coastal Louisiana, Executive Board Meeting, July 2013, 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 2013, Baton Rouge, LA. Invited testimony on river-sediment diversions for coastal restoration

2013 ***Speaker***, Louisiana House of Representatives, Natural Resources Committee, May 2016, Baton Rouge, LA. Invited testimony on river-sediment diversions for coastal restoration

2013 ***Workshop Leader***, Community Surface Dynamics Modeling System (CSDMS) Annual Meeting, Mar 2013, Boulder, CO. Workshop Leader and coordination of CSDMS Strategic Plan for Education and Knowledge Transfer Working Group of CSDMS (www.csdms.colorado.edu)

2012 ***Instructor***, ASCE Coasts, Oceans, Ports, and Rivers Institute (ASCE's Continuing Education program), July 2012 Baton Rouge, LA

2011-2016 ***Guest Lecturer***, Williams College-Mystic Seaport Maritime Studies Program, Mississippi Delta Field Seminar, Spring and Fall semesters, Cocodrie, LA

2010 ***Speaker***, AAPG Mudstones Session, Apr 2010,New Orleans

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)

Conference Presentations

Underline indicates student researcher

Liu, H., K. Xu, S. J. Bentley, C. Wilson, Z. Xue, and M. D. Miner, 2018, Sediment transport and geomorphologic response in multiple dredge pits near Ship Shoal of coastal Louisiana. **American Geophysical Union Fall Meeting,** Washington DC, December 2018

Myers, R., S. J. Bentley, and A. Swales, 2018, Sediment Accumulation and Bioturbation

in a tropical-carbonate mangrove forest on a Pacific atoll: Ouvéa, New Caledonia. **American Geophysical Union Fall Meeting,** Washington DC, December 2018

Twilley, R., S. J. Bentley, S. C. Hagen, D. A. Edmonds, K. Xu, N. Lam, and Q. J. Chen, 2018, DELTA SEES: Sustainability of Deltaic Coastlines. **American Geophysical Union Fall Meeting,** Washington DC, December 2018

Harazim, D., K. C. Denommee, S. J. Bentley, and J. M. Macquaker, 2018, Volcaniclastic turbidites are high-volume, in-situ clay mineral factories. In *AGU Fall Meeting Abstracts*. 2018.

Bentley, S. J., and C. Magliolo. Overbank Sediment Capture in the Upper Delta Plain of the Mississippi River, 2018, **American Geophysical Union Fall Meeting,** Washington DC, December 2018

Restreppo, G. A., and S. J. Bentley, 2018, Contrasting Recent Sedimentation Rates and Sediment Characteristics Between Fluvially Connected and Disconnected Distal Coastal Marshes in Southeastern Louisiana, USA. **American Geophysical Union Fall Meeting,** Washington DC, December 2018

Tornqvist, T., Allison, M., Bentley, S.J., and Hemmerling, S., 2017, U32A: Coastal Louisiana: Canary in the Coal Mine for Low-Elevation Coastal Zones, AGU Union Panel, **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

Reese, A., Harley, G.L., DeLong, K.L., Bentley, S.J., Xu, K., Gonzalez Rodriguez, S.M., Truong, J.R., Obelcz, J., Caporaso, A., A Stratigraphic Pollen Record from a Late Pleistocene Cypress Forest, Northern Gulf of Mexico Continental Shelf, **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

Gonzalez Rodriguez, S.M., Bentley, S.J., Obelcz, J., Truong, J.T., DeLong, K.L., Xu, K., Harley, G.L., Reese, C.A., Caporaso, A., Shen, Z., Stratigraphic Reconstruction of a Late Pleistocene Cypress Forest Discovered on the Northern Gulf of Mexico Continental Shelf, **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

Truong, J.T., DeLong, K.L., Bentley, S.J., Xu, K., Harley, G.L., Reese, A., Gonzalez, S., Obelcz, J., Caporaso, A., Preliminary Micropaleontological Investigation of a Preserved, Late Pleistocene Cypress Forest on the Northern Gulf of Mexico Inner Shelf, **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

DeLong, K.L., Harley, G.L., Bentley, S.J., Xu, K., Reese, A., Caporaso, A., Obelcz, J., Gonzalez Rodriguez, S.M., Truong, J.T., Shen, Z, Raines, B., A New View of Glacial Age Coastal Wetlands from a Well-Preserved Underwater Bald Cypress Forest in the Northern Gulf of Mexico, **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

Aarons, A., Twilley, R., Bentley, S.J., Vertical Record of Ecological Change and Carbon Storage in a Young Emergent Mississippi River Coastal Deltaic Floodplain, **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

Obelcz, J., Xu, K., Bentley, S.J., Wood, W.T., Georgiou, I.Y., Maloney, J.M., Miner, M.D., Sneaky Submarine Landslides and How to Quantify Them: A Case Study from the Mississippi River Delta Front Contrasting Geophysical and Machine Learning Techniques, **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

Li, A., Tsai., F.T-C, Jafari, N., Chen, Q.J., Bentley., S.J., A Geostatistical Toolset for Reconstructing Louisiana's Coastal Stratigraphy using Subsurface Boring and Cone

Penetrometer Test Data, **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

Wang, J., Xu, K., Restreppo, G.A., Bentley, S.J., Meng, X., Zhang, X., The Coupling of Bay Hydrodynamics with Sediment Supply and Micro-tidal Wetland Stability under High Rates of Relative Sea Level Rise., **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

Clarke, R.C., Bentley, S.J., Wang, H., Smith, J., What Role do Nor'Easters have on the Jamaica Bay Wetlands Sediment Budget? **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

Shrull, S., Wilson, C., Snedden, G., Bentley, S.J., Spatial Trends and Variability of Vertical Accretion Rates in the Barataria Basin, Louisiana, U.S.A., using Pb-210 and Cs-137 radiochemistry, **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

Hu, K., Chen, Q.J., Xu, K., Bentley, S.J., *Wang, J.*, A Numerical Study of Hydrodynamics and Sediment Transport in Fourleague Bay, Louisiana, **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

Restreppo, G.A., Bentley, S.J., *Wang, J.*, Xu, K., Trends in Accretion Rates of Riverine Sediments in a Distal Bay and Wetlands Using 7-Beryllium as a Tracer: Fourleague Bay, Louisiana, **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

Xu, K., Bentley, S.J., Li, C., Miner, M.D., Obelcz, J., O'Connor, M., Robichaux, P.A., Wang, J., Sediment Transport and Infilling Processes of Mud-Capped Dredge Pits on Louisiana Shelf, **American Geophysical Union Fall Meeting,** New Orleans, December 2017.

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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, *^{210}Pb and ^{137}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, WA, 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, FL (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, FL (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, UT, 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, TX, 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, HI, 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, FL (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, FL (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, MA, 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, MA, 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, NV, 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, NV, 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, TX, 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

Council of Colleges of Arts & Sciences
American Association for the Advancement of Science
American Geophysical Union
Society for Sedimentary Geology

Grant Activities

[Bracketed percent indicates funding share to Bentley]

Total funding to Bentley at LSU 2011-2019 as PI or Senior coPI: approximately $7,509,689; $ credit $2,144,572

Proposals funded at Louisiana State University (LSU), 2011-2020:

Principal Investigators: Samuel Bentley, Kevin Xu, and Matthew Hiatt. Proposal Title: *2019 Survey of the Mississippi River Near the Middle Breton Diversion Location*. Funding Agency: Louisiana Coastal Protection and Restoration Authority, via Tulane University Subaward. Funding Level: **$651,327 [33%]**. Duration: 2019-2020.

Principal Investigators: Kevin Xu, Samuel Bentley, Yanxia Ma, George Xue. Proposal Title: *Enhancing Sediment Retention Rates of Receiving Basins of Louisiana Sediment Diversions*. Funding Agency: Louisiana Center of Excellence, through The Water Institute of Gulf**.** Funding level: **$292,495 [40%].** Duration: 2017-2019.

Principal Investigators: Kevin Xu, Kanchan Maiti, Sibel Bargu, Samuel Bentley, John White, Carol Wilson, George Xue. Proposal Title: *Development of a Monitoring Program for Water Quality and Biogeochemical Processes of Louisiana Sediment Borrow Areas*. Funding Agency: Bureau of Ocean Energy Management. Funding level: **$579,077 [16%].** Duration: 2017-2020.

Principal Investigators: Kevin Xu, Samuel Bentley, Chunyan Li, Rick Shaw. Proposal Title: *Assessment of Ship Shoal Borrow Areas for Coastal Restoration of Louisiana Barrier Islands*. Funding Agency: Bureau of Ocean Energy Management. Funding level: **$460,914 [30%].** Duration: 2016-2019.

Principal Investigators: Karen Luttrell, Joshua Kent, Samuel Bentley. Proposal Title: *Acquisition of Gravimetric Instrumentation in Support of a New Quasigeoid Model for Accurate Elevations in Louisiana*. Funding Agency: Louisiana Board of Regents. Funding level: **$153,000 [5%].** Duration: June 2016-June 2017.

Principal Investigators: Kristine DeLong, Grant Harley, Samuel Bentley, Kevin Xu, Andy Reese. Proposal Title: *Investigation of an Ancient Bald Cypress Forest in the Northern Gulf of Mexico, U.S.A.* Funding Agency: Bureau of Ocean Energy Management. Funding level: **$261,075 [33%].** Duration: 2015-2018.

Principal Investigators: Robert Twilley, Samuel Bentley, Nina Lam, Jim Chen, Kevin Xu. Proposal Title: *Coastal SEES Collaborative Research: Changes in actual and perceived coastal flood risks due to river management strategies.* Funding Agency: NSF. Funding Level: **$1,200,000 [20%].** Duration: September 2015-August 2019.

Principal Investigators: Jim Chen, Robert Twilley, George Xue, Junhong Liang, et al. Proposal Title: *CyberSEES: Type 2: A Coastal Resilience Collaboratory: Cyber-*

enabled Discoveries for Sustainable Deltaic Coasts. Funding Agency: NSF. Funding level: **$1,199,154 [8%].** Duration: 2015-2019.

Principal Investigators: Samuel Bentley. Proposal Title: *CPRA Support for Technical Liaison to Master Plan 2017 Science and Engineering Board*. Funding Agency: Coastal Protection and Restoration Authority. Funding level: **$6,608 [100%].** Duration: August 2014-December 2014.

Principal Investigators: Eugene Turner, Samuel Bentley, Vincent Wilson. Proposal Title: *Recruitment of Superior Graduate Students in the Earth, Ocean, and Environmental Sciences*. Funding Agency: Louisiana Board of Regents. Funding level: **$656,000 [33%].** Duration: Aug 2014 – Aug 2018.

Principal Investigators: Kevin Xu, Samuel Bentley. Proposal Title: *Characterization and Modeling of Sediment Settling, Consolidation, and Suspension to Optimize the Retention Rate of Sediment Diversions for Coastal Restoration.* Funding Agency: Louisiana Coastal Protection and Restoration Authority Applied Research Program. Funding level: **$90,956 [50%].** Duration: 2014-2015.

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: **$604,366 [55%].** Duration: August 2013-July 2018. 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 Kevin Xu, Samuel Bentley, and Chunyan Li. Proposal Title: *Assessment of Mud-Capped Dredge Pit Evolution on the Outer Continental Shelf of northern Gulf of Mexico*. Funding Agency: Bureau of Ocean Energy Management. Funding level: **$357,099 [30%].** Duration: August 2014-July 2017.

Principal Investigator: Samuel Bentley. Proposal Title: *Sediment Capture in Unleveed Floodplains of the Mississippi River*. Funding agency: Louisiana Coastal Protection and Restoration Authority. Funding level: **$72,135 [100%].** Duration: July 2015-June 2017.

Principal Investigators: Samuel Bentley, Kevin Xu, and Jim Chen. The Water Institute of Gulf *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: **$296,927 [40%].** Duration: June 2014-Dec. 2015.

Principal Investigators: Samuel Bentley. Proposal Title: *CWPPRA PPL-23, Coast 2050 Region 2 Academic Advisor*. Funding Agency: Louisiana Universities Marine Consortium. Funding level: **$9,000 [100%].** Duration: 2013-2015.

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: **$207,170 [50%].** Duration: June 2013-Dec. 2015. This is the first 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: Paleotempestology of the Caribbean region: 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: **$299,902 [10%].** Duration: June 2011-June 2015.

Principal Investigator: Samuel Bentley. Proposal Title: *Sedimentation Processes on Marsh Island, Alabama.* Funding Agency: Royal Engineers LLC. Funding level: **$4,230 [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: **$99,957 [20%].** 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.

<u>Projects Completed Prior to 2011:</u>

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%, 0% overhead].** Duration: April 2007-March 2011.

Principal Investigators: Barber, Sydor, Bentley, Prinsenberg. Proposal Title: *Freshwater-Marine Coupling in Hudson Bay*. Funding Agency: ArcticNet. Funding Level: **$365,000 [25%, 0% overhead].** 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%, 0% overhead].** Duration: July 2006 – June 2011.

Principal Investigator: Bentley. Proposal Title: *Canada Research Chair in Seabed Processes and Seabed Imaging*. Funding Agency: Canada Research Chair Secretariat. Funding Level: **$500,000 [100%, 0% overhead]**. Duration: July 2006 – June 2011.

Principal Investigator: Bentley. Proposal Title: *Infrastructure for Seabed Processes and Imaging Laboratory*. Funding Agency: Canada Foundation for Innovation and Government of Newfoundland and Labrador. Funding level: **$679,000 [100%, 0% overhead]**. Funding Period: July 2006 – October 2009.

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 [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}Pb-^{137}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

2011-Present	approximately 12 manuscripts and 6 NSF proposals reviewed per year.
2016	*Invited Reviewer*, NSF Career Proposal Review – 6 proposals reviewed by special invitation
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]
Spring	2013	GEOL	4164-001	3.64	3.74[0.25]	3.64[0.26]	3.75	3.80[0.19]	3.51[0.42]
Spring	2013	GEOL	7132-001	3.89	3.66[0.27]	3.64[0.27]	3.91	3.72[0.21]	3.48[0.4]
Fall	2013	GEOL	3032	3.70	3.76[0.11]	3.63[0.42]	3.67	3.69[0.23]	3.49[0.42]
Spring	2014	GEOL	4164	3.78	3.62[0.12]	3.73[0.20]	3.82	3.53[0.20]	3.49[0.38]

Fall	2014	GEOL	3032	3.53	3.52[0.30]	3.63[0.25]	3.45	3.31[0.47]	3.47[0.40]
Fall	2015	GEOL	3032	3.99	3.67[0.35]	3.74[0.26	3.91	3.48[0.48]	3.62[0.32]
Spring	2016	GEOL	4164	3.78	3.50[0.24]	3.73[0.24]	3.79	3.38[0.48]	3.61[0.34]

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
Spring	2013	GEOL	4164-001	3.83	3.83[0.19]	3.51[0.40]	25	32
Spring	2013	GEOL	7132-001	4.0	3.72[0.21]	3.51[0.42]	11	11
Fall	2013	GEOL	3032	3.73	3.78[0.16]	3.49[0.42]	30	36
Spring	2014	GEOL	4164	3.82	3.35[0.32]	3.61[0.30]	33	35
Fall	2014	GEOL	3032	3.64	3.28[0.53]	3.47[0.44]	41	44
Fall	2015	GEOL	3032	4.0	3.46[0.58]	3.61[0.39]	36	42
Spring	2016	GEOL	4164	3.71	3.33[0.44]	3.61[0.36]	14	20

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, 2016 - 40 students.

GEOL 3032 Introduction to Sedimentology and Depositional Environments. 3 hours lecture, 1 hour lab. Fall 2011-2016 - 45 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:
11 completed, 0 in progress
MS Theses:
20 completed, 0 in progress
PhD Dissertations:
12 completed, 1 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, December 2013
Matthew Smith, LSU G&G BS, May 2014
James Smith, LSU G&G BS, May 2015
Suyapa Gonzales, LGU G&G BS, December 2016
Brianna Crenshaw, LSU G&G BS May 2018
Ryder Myers, LSU G&G BS December 2018
Rory Escobedo, LSU G&G BS 2021

BS Honors Thesis Committee Member for:
Lindsay Prothro, LSU BS, May 2013
Shane Cone, LSU BS, May 2013
Patrick Robichaux, LSU BS, May 2015
Jennifer Kenyon, LSU BS, May 2016
Abigail Heath, LSU BS, December 2017
Ryder Myers, LSU BS, December 2018

Graduate Students

Graduate Advisor for:
1. Kristina Rotondo, LSU DOCS MS, May 2004
2. Triniti Dufrene, LSU DOCS MS, May 2005
3. Brian Velardo, LSU DOCS MS, May 2005
4. Luke Patterson, LSU DOCS MS, May 2006
5. Skyler Neylon, LSU DOCS MS, May 2006
6. Mitch Andrus, LSU DOCS MS, August 2007

7. Kathryn Denommee, Memorial MS, May 2010
8. Elisabeth Kahlmeyer, Memorial MS, December 2010
9. Jeff Fabre, LSU G&G MS, May 2012
10. Ashley Howell, LSU G&G MS, August 2013
11. Laura Sorey, LSU G&G MS, May 2014
12. Greg Keller, LSU G&G MS, December 2015
13. Jeff Bomer, LSU G&G MS, August 2016
14. Ethan Hughes, LSU G&G MS, December 2016
15. Chris Magliolo, LSU G&G MS, December 2017
16. Meg O'Connor, LSU G&G MS, May 2017
17. Ryan Clarke, LSU G&G MS, May 2018
18. JT Truong, G&G MS, August 2018
19. Suyapa Gonzalez Rodriguez, G&G MS, August 2018
20. Andrew Courtois, G&G MS, December 2018

1. Lawrence Febo, LSU G&G PhD, December 2008
2. Zahid Muhammad, LSU DOCS PhD, August 2009
3. Peter Huelse, Memorial PhD, December 2011
4. Erlangga Septama, Memorial PhD, December 2015
5. Lina Stolze, Memorial PhD, December 2015
6. Marie Thomas, LSU G&G PhD, co supervised with S. Warny, May 2015
7. Kathryn Denommee, LSU G&G PhD, December 2015
8. Jill Banks, LSU G&G PhD, December 2016
9. Crawford White, LSU G&G PhD December 2017
10. Jeffrey Obelcz, LSU DOCS PhD, co-supervised with K. Xu, December 2017
11. Giancarlo Restreppo, LSU G&G PhD, May 2019
12. Mitch Andrus, LSU G&G PhD May 2020
13. Jeff Duxbury, LSU G&G PhD, expected May 2023

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
David Wells, LSU DOCS PhD, May 2007
Chris Smith, LSU DOCS PhD, 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, December 2013
Brittany Schwarzkopf, LSU DOCS MS, May 2014
Tom Bianchette, LSU DOCS PhD, May 2015
Marie Thomas, LSU G&G, PhD, May 2015
Emad Elfar, LSU G&G, PhD, May 2016
Andrew Swales, University of Sidney, Australia, PhD, May 2017
Shannon Ferguson, LSU G&G, PhD, May 2017
Randy Paylor, LSU G&G PhD, May 2017
Patrick Robichaux, LSU DOCS MS, December 2017
Jiaze Wang, LSU DOCS PhD, May 2018
Yuting Li, LSU G&G PhD, May 2018
Ian Floyd, LSU Civil & Environmental Engineering PhD, expected Dec 2019
John Zheng, LSU DOCS PhD, expected May 2020
Wokil Bam, LSU DOCS PhD, expected May 2020