

Daniel D.A. Duncan

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EDUCATION:

1995 B.S. Geology, University of Florida
1987 B.S. Food Science and Technology with a minor in Chemistry, Virginia Polytechnic Institute and State University

PROFESSIONAL EXPERIENCE:

2007 – present Research Scientist Associate II, The University of Texas Institute for Geophysics, Jackson School of Geosciences, University of Texas at Austin

- Operation, field planning and maintenance of research vessel R/V Itasca (22')
- Acquisition, processing, and visualization of marine geophysical, water column, and sedimentary samples/data
- Sedimentary Laboratory Manager
- Naturally-occurring Radioisotope Laboratory Manager
- Teaching Assistant, Marine Geology and Geophysics Field (GEO f348K/f397F)

1999 - 2007 Lab Supervisor/Teacher, Tulane University, New Orleans, Louisiana

- Sedimentary laboratory Manager
- Organized and maintained budget requirements for research grants awarded from NSF, NASA, EPA and NRL.
- Oversee graduate student chemical analyses.
- Field acquisition and processing of sediment and water column samples
- Maintain radiochemical instrumentation for prepared sample analyses

1991-1998 Radiochemistry Technician, Environmental Science and Engineering, Gainesville, Florida

- Chemical preparation and analysis of water and soil samples for radiochemical, trace metals and water quality analyses
- Processed data from instrumentation and prepared data packages for specific clients such as the United States' Department of Energy and the Department of Defense

COMPUTER SKILLS:

MS Office Caris Hips and Sips, Adobe CS5, Fledermaus, ArcGIS, Qinsy, Genie 2000

FIELD EXPERIENCE:

- 2011 Bonnet Carre, LA - Marine geology and geophysics survey (UT Austin) R/V Lake Itasca
- Grand Isle, LA – Marine geology and geophysics field course (UT Austin) R/V Lake Itasca, R/V Manta
- Panama City, FL - Marine geology and geophysics cruise (UT Austin, University of Washington at Seattle, ONR,) R/V Sharp
- Empire, LA - Marine geology and geophysics survey (UT Austin) R/V Lake Itasca
- 2010 Fraser River, British Columbia, Canada - Marine geology and geophysics survey (UT Austin, Simon Fraser University, University of British Columbia), R/V Lake Itasca
- Empire, LA - Marine geology and geophysics survey (UT Austin), R/V Lake Itasca
- Galveston Bay, Bolivar Roads, offshore Gulf of Mexico - Marine geology and geophysics field course (UT Austin), R/V Acadiana and R/V Lake Itasca
- Fresh Water Bayou, Gulf of Mexico, LA - (UT Austin), R/V Acadiana
- 2009 Empire, LA - Marine geology and geophysics survey (UT Austin), R/V Lake Itasca
- Port Aransas, TX - Marine geology and geophysics field course (UT Austin), R/V Manta and R/V Lake Itasca
- Barataria Bay, LA - Marine geology and geophysics survey (UT Austin, LUMCON), R/V Grey Goose
- 2008 Empire, LA - Marine geology and geophysics survey (UT Austin), R/V Lake Itasca
- Atchafalaya Basin, LA - Marine geology and geophysics survey (UT Austin, Univ of Florida), R/V Acadiana

- 2007 Atchafalaya Basin, LA - Marine geology and geophysics survey (UT Austin, Univ of Florida), R/V Acadiana, R/V Pelican
- 2006 Atchafalaya Basin, LA - Marine geology and geophysics survey (UT Austin, Univ of Florida), R/V Eugenie
- 2000-2005 Mississippi Shelf, Louisiana Shelf, Gulf of Mexico, & Mississippi River - Sediment and water sampling cruises (Tulane University), R/Vs Pelican, Acadiana, and Eugenie

CONFERENCE ABSTRACTS AND PRESENTATIONS:

- Ramirez, M. T., Allison, M. A., & Duncan, D.D, 2011, Spatial and temporal variability of reach-scale morphodynamics in the lower Mississippi River, Coherent Flow Structure Conference, SFU.
- Davis, M.B., Gulick, S.P., Allison, M.A., Goff, J.A., Duncan, D.D., & Sastrup, S. 2010. The University of Texas Institute for Geophysics Marine Geology and Geophysics Field Course. Abstract ED13A-0611.
- Davis, M.B., Gulick, S.P., Allison, M.A., Goff, J.A., Duncan, D.D., Sastrup, S., 2010, The University of Texas Institute for Geophysics Field Marine Geology and Geophysics Course, *Eos Trans. AGU*, 91(26), Ocean Sci. Meet. Suppl., Abstract ED15B-11.
- Roe, K., Rosenheim, B.E., Kolker, A.S., Butcher, K.A., Allison, M.A., Nittrouer, J.A., Duncan, D.A., Nyman, J., and Adamic, J., 2009. The effect of flood events on the partitioning of labile and refractory carbon in the Missouri-Mississippi River system. *Eos Trans. AGU*, 90(52), Fall Sci. Meet. Suppl., Abstract B33C-0401.
- Allison, M.A., Sheremet, A., Duncan, D.A. III, and Jaramillo, S., 2008. Floc behavior in high turbidity winter storm events on the Atchafalaya delta inner shelf, Louisiana. AGU Ocean Sciences Meeting, Orlando, FL, March.
- Allison, M.A., Sheremet, A., Duncan, D.A. and Jaramillo, S., 2006. Evidence for hyperpycnal sediment control on evolution of the Mississippi and Atchafalaya deltaic clinofolds. *Eos Trans. AGU*, 90(52), Fall Sci. Meet. Suppl., Abstract OS14A-03.
- Stewart C.M., McKee, B.A., Duncan, D.D., & Ferrell R.E., 2004, Source Determination and Residence Time Indications for a Large River System, *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract H53B-1238.
- Kozlowski, G.J., Powell, R.T., McKee, B.A., Wilson-Finelli, A., & Duncan, D.D., 2002, The effects of wind-driven resuspension events on the flux of metals across the sediment-

water interface in a shallow estuarine environment, Lake Pontchartrain, LA, *Eos Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract OS61A-0205.

Corbett, D.R., B.A. Mckee, D. Duncan. Naturally-occurring radioisotopes as indicators of sediment cycling in river-dominated ocean margins. American Society of Limnology and Oceanography, Albuquerque, New Mexico, Feb. 12-16, 2001.

REFERREED PUBLICATIONS:

Corbett, R., B. McKee, and D. Duncan. 2004. An evaluation of mobile mud dynamics in the Mississippi River Deltaic region. *Marine Geology*. 209, 91-112.

TECHNICAL REPORTS:

Allison, M.A. and Duncan, D.A., 2006. Assessing Quantity and Quality of Sand Available in the Lower Atchafalaya River Channel for Coastal Marsh and Barrier Island Restoration in Louisiana. Final Technical Report for Subcontract C-190360, Governor's Applied Coastal Research and Development Program, Baton Rouge, 63 p.