

Clint M. Miller, Ph.D. Candidate

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Education

- Ph.D., Geochemistry, Rice University** 2012 – Current
Thesis: The Role of Anaerobic Oxidation of Methane on Carbon and Sulfur Cycles
Advisor: Gerald R. Dickens
- M.S., Environmental Geochemistry, Texas A&M University** 2009
Thesis: Surface Energy Components of Natural Minerals and Aggregates
Advisor: Bruce E. Herbert
- Level Three Certificate, Modern Standard Arabic, University of Damascus, Syria** 2006
Focus: Modern Standard Arabic
- B.S., Geology, Texas A&M University** 2004
Advisor: Bruce E. Herbert

Positions Held

- Graduate Research Assistant, Rice University 2012 – Current
Head Geochemist, SWERUS East Siberian Climate, Cryosphere, Carbon Expedition 2014
Shipboard Scientist, RR1313 Western Pacific Warm Water Pool Site Survey Cruise 2013
Geochemist, W&M Environmental Group, Houston, Texas 2009 – 2012
Graduate Research Assistant, Texas A&M University 2006 – 2009
Summer Intern, Pastor, Behling, and Wheeler LLC, Round Rock, Texas 2009
Research Scientist, National Taiwan University 2008

Honors and awards

- First Place Overall Poster, Gulf Coast Association of Geological Societies 2015
Honorable Mention Poster, American Association of Petroleum Scientists Student EXPO 2015
Chevron Fellowship 2013 – 2014
BP Outstanding Geoscientist Award 2013
Mills Bennet Fellowship 2012 – 2013
First Place University Wide Poster, Texas A&M University 2010

Grants

- The Role of Anaerobic Oxidation of Methane on Carbon and Sulfur Cycles.
Meckel Family Named Research Grant. 2014
Carbon Cycling in Methane Charged Continental Margins.
Horst & Jessie von Bandat Memorial Research Grant. 2013
Surface Energy Components of Natural Minerals and Aggregates.

TxDOT Aggregate Research Consortium Research Grant.	2009
Evaluating Arsenic Availability in Taiwanese Soils using DOWEX M4195, Fe ³⁺ Substituted, Resin.	
National Science Foundation, EAPSI Research Grant.	2008

Publications

Miller, C. M., Dickens, G. R., and Lyons, T.: The Role of Anaerobic Oxidation of Methane in Carbon and Sulfur Cycles - Solid and Dissolved Fluxes from Three Methane Charged Sites. In Prep.

Miller, C. M., Dickens, G. R., Jakobsson, M., Johansson, C, Koshurnikov, A., and O'Regan, M., Extreme Methane Flux – Herald Canyon, East Siberian Arctic Shelf. Cryosphere, In Prep.

Miller, C. M., Dickens, G. R., Jakobsson, M., Johansson, C, Koshurnikov, A., O'Regan, M., and Muschitiello, F., Low methane concentrations in sediment along the continental slope north of Siberia: Inference from pore water geochemistry, Biogeosciences, In Review.

Stranne, C., O'Regan, M., Dickens, G. R., Crill, P., Miller, C., Preto, P., and Jakobsson, M.: Dynamic simulations of potential methane release from East Siberian continental slope sediments, *Geochemistry Geophysics Geosystems*, 17, 872-886, 2016.

Miller, C., Little D. N., Bhasin A., Gardner N., and Herbert B.: Surface Energy Characteristics and Impact of Natural Minerals on Aggregate-Bitumen Bond Strengths and Asphalt Mixture Durability. *Transportation Research Record: Journal of the Transportation Research Board* 2267, 45-55, 2012.

Miller, C. M., Vasconcelos, K. L., Little, D. N., & Bhasin, A.: Investigating aspects of aggregate properties that influence asphalt mixtures performance. Research Report for DTFH61-06-C-00021, Texas A & M University at College Station and The University of Texas at Austin, Texas, 2011.