

Harry Rowe

Professional Summary

January 30, 2013

Business address: The University of Texas at Austin
Bureau of Economic Geology
University Station, Box X
Austin, TX 78713-8924

E-mail address: harry.rowe@beg.utexas.edu

Academic Background

B.A. Geology, Miami University of Ohio, 1993
M.S. Earth and Planetary Sciences, University of New Mexico, 1995
Ph.D. Geological and Environmental Sciences, Stanford University, 2002

Areas of Expertise

- A. Chemostratigraphy of mudrock systems.
- B. Paleooceanography of marginal marine systems.
- C. Development of x-ray fluorescence for rapid core/hand sample analysis.
- D. Paleoclimatology records in karst environments.
- E. Stable isotope geochemistry.

Professional Work Experience

- A. Present Position: Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (August 2012 - Present).
- B. Assistant Professor, Earth and Environmental Sciences, Univ. of Texas at Arlington (August 2008 - August 2012).
- C. Assistant Professor, Earth and Environmental Sciences, Univ. of Kentucky (July 2002 - July 2008).
- D. Visiting Assistant Professor, Univ. of Illinois-Chicago (September 2001 - May 2002).

Committee Responsibilities and Professional Activities

Member, Mudrock Systems Research Laboratory Industry Associates Consortium, Bureau of Economic Geology, Arlington, Texas, 2012 – present
Director, Stable Isotope Facility, University of Texas at Arlington, 2009 - 2012
Director, Stable Isotope Facility, University of Kentucky, 2002 – 2008
Advisor for 2 PhD and 20+ MS students at University of Kentucky and UT Arlington

Examples of Publications

- Rowe, H., Hughes, N., and Robinson, K., 2012, The quantification and application of handheld energy-dispersive x-ray fluorescence (ED-XRF) in mudrock chemostratigraphy and geochemistry: *Chemical Geology*, v. 324–325, p. 122–131.
- Algeo, T. J., and Rowe, H., 2012, Paleooceanographic applications of trace-metal concentration data: *Chemical Geology*, v. 324–325, p. 6–18.

- Johnson, C., Hudson, S. M., Rowe, H. D., and Efendiyeva, M. A., 2010, Geochemical constraints on the Palaeocene-Miocene evolution of eastern Azerbaijan, with implications for the South Caspian basin and eastern Paratethys: *Basin Research*, v. 22, p. 733–750, doi: 10.1111/j.1365-2117.2009.00427.x.
- Hardt, B., Rowe, H. D., Springer, G. S., Cheng, H., and Edwards, R. L., 2010, The seasonality of east central North American precipitation based on three coeval Holocene speleothems from southern West Virginia: *Earth and Planetary Science Letters*, v. 295, p. 342–348.
- Algeo, T. J., Rowe, H. D., Hower, J. C., Schwark, L., and Heckel, P. H., 2008, Oceanic denitrification during late Carboniferous glacial-interglacial cycles: *Nature Geoscience*, v. 1, p. 709–714, doi:10.1038/ngeo307.
- Rowe, H. D., Loucks, R. G., Ruppel, S. C., and Rimmer, Susan, 2008, Mississippian Barnett Formation, Fort Worth Basin, Texas: bulk geochemical inferences and Mo-TOC constraints on the severity of hydrographic restriction: *Chemical Geology*, v. 257, p. 16–25.
- Piper, D. Z., Perkins, R. B., and Rowe, H. D., 2007, Rare-earth elements in the Permian Phosphoria formation: paleoproxies of ocean geochemistry: *Deep-Sea Research II, Topical Studies in Oceanography*, v. 54, p. 1396–1413.
- Algeo, T. J., Ellwood, B. B., Nguyen, T. K. T., Rowe, H. D., and Maynard, J. B., 2007, The Permian-Triassic boundary at Nhi Tao, Vietnam: evidence for recurrent influx of sulfidic watermasses to a shallow-marine carbonate platform: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 252, p. 304–327.
- Algeo, T. J., Hannigan, R., Rowe, H. D., Brookfield, M., Baud, A., Krystyn, L., and Ellwood, B. B., 2007, Sequencing events across the Permian-Triassic boundary, Guryul Ravine (Kashmir, India): *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 252, p. 328–346.
- Rowe, H. D., Theissen, K. M., Zinniker, D. A., Moldowan, J. M., and Dunbar, R. B., 2005, Pronounced occurrence of long-chain alkenones and dinosterol in a 25,000 year lipid molecular fossil record from Lake Titicaca, South America: *Geochimica et Cosmochimica Acta*, v. 69, no. 3, p. 623–636.
- Rowe, H. D., and Dunbar, R. B., 2004, Hydrologic-energy balance constraints on the Holocene lake-level history of Lake Titicaca, South America: *Climate Dynamics*, v. 23, p. 439–454.
- Rowe, H. D., Guilderson, T. P., Dunbar, R. B., Southon, J. R., Seltzer, G. O., Mucciarone, D. A., Fritz, S. C., and Baker, P. A., 2003, Timing of late Quaternary lake level change: Lake Titicaca, South America: *Global and Planetary Change*, v. 38, p. 273–290.
- Rowe, H. D., Ruppel, S. C., Rimmer, Susan, and Loucks, R. G., 2009, Core-based chemostratigraphy of the Barnett Shale, Permian Basin, Texas: *Gulf Coast Association of Geological Societies Transactions*, v. 59, p. 675-686.