



DR. CHRISTOPHER M. LOWERY

PALEOCEANOGRAPHY, MICROPALAEONTOLOGY, STRATIGRAPHY

Institute for Geophysics
Jackson School of Geosciences
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EDUCATION

Ph.D. Geosciences, University of Massachusetts, Amherst – May 2015

Dissertation title: “Oceanographic Controls on the Expression of Cretaceous Oceanic Anoxic Events in the Western Interior Sea”

Advisor: R. Mark Leckie

M.S. Geosciences, University of Massachusetts, Amherst – September 2014

Project Title: “Middle Miocene Sea Level Variability Recorded by Foraminifera from Marion Plateau, ODP Leg 194”

Advisor: R. Mark Leckie

B.S. Geology, University of Mary Washington – June 2009

Magna Cum Laude

Advisor: Neil Tibert

APPOINTMENTS

[2015-present] **Richard T. Buffler Postdoctoral Fellow**, Institute for Geophysics, University of Texas, Austin

[Summer 2015] **Postdoctoral Researcher**, University of Massachusetts, Amherst

[2009-2015] **Research Assistant**, University of Massachusetts, Amherst

[2014] **Instructor**, GEO-102, Smith College, Northampton, MA

[Summer 2013] **Micropaleontologist**, BP Gulf of Mexico New Wells Delivery

[Summer 2011] **Research Geologist**, BP North American Gas

[2010] **Ranger Service Academy Coordinator**, Philmont Scout Ranch, Cimarron, NM

[2009] **Ranger Trainer**, Philmont Scout Ranch, Cimarron, NM

[2006-2008] **Ranger**, Philmont Scout Ranch, Cimarron, NM

[2007] **Laboratory Assistant**, University of Mary Washington

PEER-REVIEWED PUBLICATIONS

15. **Lowery, C.M.**, Bralower, T.J., Owens, J.D., Rodríguez-Tovar, F.J., Jones, H. Smit, J., Whalen, M.T., Claeys, P., Farley, K., Gulick, S.P.S., Morgan, J.V., Green, S., Chenot, E., Christeson, G.L., Cockell, C.S., Coolen, M.J.L., Ferrière, L., Gebhardt, C., Goto, K., Kring, D.A., Lofi, J., Ocampo-Torres, R., Perez-Cruz, L., Pickersgill, A.E., Poelchau, M., Rae, A.S.P., Rasmussen C., Rebolledo-Vieyra, M., Riller, U., Sato, H., Tikoo, S.M., Tomioka, N., Urrutia-Fucugauchi, J., Vellekoop, J., Wittmann, A., Xiao, L., Yamaguchi, K.E., Zylberman, W. *Accepted*. Rapid recovery of life at ground zero of the End Cretaceous mass extinction. *Nature*.
14. **Lowery, C.M.**, Leckie, R.M., Bryant, R., Elderbak, K., Parker, A., Polyak, D., Schmidt, M., Snoeyenbos-West, O., and Sterzinar, E., (2018). The Late Cretaceous Western Interior Seaway as a model for oxygenation change in epicontinental restricted basins, *Earth Science Reviews*, v. 177, p. 545-564 doi:10.1016/j.earscirev.2017.12.001.

13. **Lowery, C.M.**, Cunningham, R., Barrie, C.D., Bralower, T.J., and Snedden, J.W. (2017). The northern Gulf of Mexico during OAE2 and the relationship between water depth and black shale development, *Paleoceanography*, v. 32 doi:10.1002/2017PA003180.
12. Artemieva, N., Morgan, J., Gulick, S., Bralower, T., Chenot, E., Christeson, G., Claeys, P., Cockell, C., Collins, G.S., Coolen, M.J.L., Ferrière, L., Gebhardt, C., Goto, K., Green, S., Jones, H., Kring, D.A., Le Ber, E., Lofi, J., Long, X., **Lowery, C.M.**, Mellet, C., Ocampo-Torres, R., Osinski, G., Perez-Cruz, L., Pickersgill, A., Poelchau, M., Rae, A., Rasmussen, C., Rebolledo-Vieyra, M., Riller, U., Sato, H., Schmitt, D.R., Smit, J., Tikoo, S., Tomioka, N., Urrutia-Fucugauchi, J., Whalen, M. Wittman, A., Yamaguchi, K.E., and Zylberman, W. (2017). Quantifying the release of climate-active gases by large meteorite impacts with a case study of Chicxulub. *Geophysical Research Letters*, v. 44 doi: 10.1002/2017GL074879.
11. Kring, D.A., Claeys, P., Gulick, S.P.S., Morgan, J.V., Collins, G.S., Bralower, T., Chenot, E., Christeson, G., Cockell, C., Coolen, M.J.L., Ferrière, L., Gebhardt, C., Goto, K., Green, S., Jones, H., Le Ber, E., Lofi, J., Long, X., **Lowery, C.M.**, Mellet, C., Ocampo-Torres, R., Osinski, G., Perez-Cruz, L., Pickersgill, A., Poelchau, M., Rae, A., Rasmussen, C., Rebolledo-Vieyra, M., Riller, U., Sato, H., Schmitt, D.R., Smit, J., Tikoo, S., Tomioka, N., Urrutia-Fucugauchi, J., Whalen, M. Wittman, A., Yamaguchi, K.E., and Zylberman, W. (2017). Chicxulub and the exploration of large peak-ring impact craters through scientific drilling. *GSA Today* v. 27 doi: 10.1130/GSATG352A.1.
10. Denne, R.A., Callendar, A.D., Engelhardt-Moore, N., Hinote, R.E., **Lowery, C.M.**, (2017). *Gavelinella breardi*, a new name for the Turonian Gulf Coast marker species *Anomalina* "W." *Journal of Foraminiferal Research*, v. 47, p. 358-365, doi: 10.2113/gsjfr.47.4.358.
9. **Lowery, C.M.** and Leckie, R.M. (2017). Biostratigraphy of the Cenomanian-Turonian Eagle Ford Shale of South Texas, *Journal of Foraminiferal Research* v. 47, p. 105-128. doi: 10.2113/gsjfr.47.2.105
8. Fraass, A.J. and **Lowery, C.M.** (2017). Defining uncertainty and error in planktic foraminiferal oxygen isotope measurements, *Paleoceanography* v. 32, doi: [10.1002/2016PA003035](https://doi.org/10.1002/2016PA003035).
7. Owens, J.D., Lyons, T.W., Hardisty, D.S., **Lowery, C.M.**, Lu, Z., Lee, B., Jenkyns, H.C. (2017). Patterns of local and global redox variability during the Cenomanian–Turonian Boundary Event (Oceanic Anoxic Event 2) recorded in carbonates and shales from central Italy, *Sedimentology* v. 64, p.168-185 <http://dx.doi.org/10.1111/sed.12352>
6. **Lowery, C.M.**, Leckie, R.M., and Sageman, B.B., (2017). Micropaleontological Evidence for Redox Changes in the OAE3 Interval of the US Western Interior: Global vs. Local Processes: *Cretaceous Research* v. 69, p. 34-48. <http://dx.doi.org/10.1016/j.cretres.2016.08.011>
5. **Lowery, C.M.** (2016). Expression of the Cenomanian-Turonian Oceanic Anoxic Event 2 in the Gulf of Mexico: A Review, in Lowery, C.M., Snedden, J., and Rosen, N., *Eds.*, *35th Annual Perkins Rosen Conference Proceedings*, Gulf Coast Section of the Society of Economic Paleontologists and Mineralogists, p. 450-478.
4. Morgan, J., Gulick, S., Bralower, T., Chenot, E., Christeson, G., Claeys, P., Cockell, C., Collins, G.S., Coolen, M.J.L., Ferrière, L., Gebhardt, C., Goto, K., Jones, H., Kring, D.A., Le Ber, E., Lofi, J., Long, X., **Lowery, C.M.**, Mellet, C., Ocampo-Torres, R., Osinski, G., Perez-Cruz, L., Pickersgill, A., Poelchau, M., Rae, A., Rasmussen, C., Rebolledo-Vieyra, M., Riller, U., Sato, H., Schmitt, D.R., Smit, J., Tikoo, S., Tomioka, N., Urrutia-Fucugauchi, J., Whalen, M. Wittman, A., Yamaguchi, K.E., and Zylberman, W., (2016). The formation of peak rings in large impact craters, *Science* v. 354, p. 878-882. <http://dx.doi.org/10.1126/science.aah6561>

3. **Lowery, C.M.**, Corbett, M.J., Leckie, R.M., Watkins, D., Staerker, T.S., Donovan, A.D., Miceli Romero, A., and Pramudito, A. (2014). Foraminiferal and nannofossil paleoecology and paleoceanography and the Cenomanian-Turonian Eagle Ford Shale across southern Texas. *Palaeogeography, Palaeoclimatology, Palaeoecology* Vol. 413, p. 49-65.
<http://dx.doi.org/10.1016/j.palaeo.2014.07.025> [invited paper]
2. Donovan, A.D., Staerker, T.S., Pramudito, A., Li, W., Corbett, M.J., **Lowery, C.M.**, Miceli Romero, A., and Gardner, R.D. (2012). The Eagle Ford outcrops of West Texas: a field laboratory for understanding heterogeneities within unconventional mudstone reservoirs, *GCAGS Journal*, Vol. 1, p.162-185.
1. John, C.M., Karner, G.D., Browning, E., Leckie, R.M., Mateo, Z., Carson, B., and **Lowery, C.**, (2011). Timing and magnitude of Miocene eustasy derived from the mixed siliciclastic-carbonate record of the northeastern Australian margin. *Earth and Planetary Science Letters*: Vol. 304, No 3-4, p. 455-467.

PAPERS SUBMITTED/IN REVIEW

4. Riller, U., Poelchau, M.H., Rae, A.S.P., Schulte, F., Melosh, H.J., Collins, G.S., Grieve, R.A.F., Morgan, J.V., Gulick, S.P.S., Lofi, J., McCall, N., Kring, D., and **Expedition 364 Science Party**. *Submitted*. Rock Fluidization during peak ring formation of large impact craters. *Nature*.
3. Christeson, G.L., Gulick, S.P.S., Morgan, J.V., Gebhardt, C., Le Ber, E., Lofi, J., Nixon, C., Rae, A., Rebolledo-Vieyra, M., Schmitt, D.R., Bralower, T., Chenot, E., Claeys, P., Cockell, C., Coolen, M.J.L., Ferrière, L., Green, S., Goto, K., Jones, H., Kring, D.A., Long, X., **Lowery, C.M.**, Mellet, C., Ocampo-Torres, R., Osinski, G.R., Perez-Cruz, L., Pickersgill, A., Poelchau, M., Rasmussen, C., Riller, U., Sato, H., Smit, J., Tikoo, S., Tomioka, N., Urrutia-Fucugauchi, J., Whalen, M., Wittman, A., Yamaguchi, K.E., Zylbermann, W., *in revision*, Extraordinary rocks of the Chicxulub Crater Peak-ring: Physical property measurements from IODP/ICDP Expedition 364 *Earth and Planetary Science Letters*.
2. Owens, J.D., Lyons, T.W., and **Lowery, C.M.** *submitted*. Quantifying the missing sink for global organic carbon burial during a Cretaceous oceanic anoxic event. *Earth and Planetary Science Letters*.
1. Fraass, A.J., Leckie, R.M., **Lowery, C.M.**, and DeConto, R. *in review*. Flow reversal in the Central American Seaway during or after the Oligocene Miocene Transition: Precision in Biostratigraphy, *Paleoceanography*.

OTHER PUBLICATIONS

6. Morgan, J., Gulick, S., Bralower, T., Chenot, E., Christeson, G., Claeys, P., Cockell, C., Collins, G.S., Coolen, M.J.L., Ferrière, L., Gebhardt, C., Goto, K., Jones, H., Kring, D.A., Le Ber, E., Lofi, J., Long, X., **Lowery, C.**, Mellet, C., Ocampo-Torres, R., Osinski, G., Perez-Cruz, L., Pickersgill, A., Poelchau, M., Rae, A., Rasmussen, C., Rebolledo-Vieyra, M., Riller, U., Sato, H., Schmitt, D.R., Smit, J., Tikoo, S., Tomioka, N., Urrutia-Fucugauchi, J., Whalen, M., Wittman, A., Yamaguchi, K.E., and Zylberman, W., (2017), *Initial Reports of the International Ocean Discovery Program*, v. 364. College Station, TX, doi:10.14379/iodp.proc.364.2017.
5. Gulick, S., Morgan K., Mellet, C.L., Bralower, T., Chenot, E., Christeson, G., Claeys, P., Cockell, C., Collins, G.S., Coolen, M.J.L., Ferrière, L., Gebhardt, C., Goto, K., Jones, H., Kring, D.A., Le Ber, E., Lofi, J., Long, X., **Lowery, C.**, Ocampo-Torres, R., Osinski, G., Perez-Cruz, L., Pickersgill, A., Poelchau, M., Rae, A., Rasmussen, C., Rebolledo-Vieyra, M., Riller, U., Sato, H., Schmitt, D.R., Smit, J., Tikoo, S., Tomioka, N., Urrutia-Fucugauchi, J., Whalen, M., Wittman, A., Yamaguchi, K.E., and Zylberman, W., (2017). Chicxulub: drilling the K-Pg impact crater. *International Ocean Discovery Program Expedition 364 Preliminary Report*. College Station, TX. doi:10.14379/iodp.pr.364.2017

4. **Lowery, C.M.**, Snedden, J., and Rosen, N., Editors, (2016). 35th Annual Perkins Rosen Conference Proceedings, Gulf Coast Section of the Society of Economic Paleontologists and Mineralogists.
3. Rosenthal, Y., Mountain, G., and **Shipboard Scientific Party**, (2013). Site survey and coring of potential IODP drill sites in the Western Pacific Warm Pool. RR1313 Cruise Report (IODP Proposal 799), 31 p.
2. Staerker, T.S., Febo, L., Corbett, M.J., and **Lowery, C.M.**, (2013). *Field Guide to the Micropaleontology of the Eagle Ford (Boquillas) Formation: West Texas*. NAMS Microfossils III Conference Field Seminar.
1. Donovan, A.D., Staerker, T.S., Li, W., Pramudito, A., Evernick, J., McClain, T., Agrawal, A., Banfield, L., Land, S., Corbett, M.J., **Lowery, C.M.**, and Miceli Romero, A., (2011). *Field guide to the Eagle Ford (Boquillas) Formation: West Texas*. AAPG Annual Meeting 2011.

CONFERENCE PRESENTATIONS

Oral Presentations

21. **Lowery, C.M.**, Jones, H., Bralower, T.J., Smit, J., Rodríguez-Tovar, F.J., Whalen, M.T., Owens, J.D., IODP-ICDP Expedition 364 Science Party (2017). Long-term recovery of life in the Chicxulub Crater, AGU Fall Meeting, P23H-07.
20. **Lowery, C.M.**, Jones, H., Bralower, T.J., Smit, J., Rodríguez-Tovar, F.J., Whalen, M.T., Owens, J.D., and Exp. 364 Science Party, (2017). Recovery of Life at Ground Zero. *Pardee Keynote Sessions*. GSA Abstracts with Programs. Vol. 49, doi: 10.1130/abs/2017AM-303167.
19. **Lowery, C.M.**, Jones, H., Bralower, T.J., Smit, J., Owens, J.D., and Exp. 364 Science Party, (2017). The Recovery of life in the Chicxulub Crater Following the End Cretaceous Mass Extinction, Geologic Problem Solving with Microfossils IV, Abstracts with program p. 62-63.
18. **Lowery, C.M.**, Jones, H., Bralower, T.J., Smit, J., Owens, J.D., and Exp. 364 Science Party, (2017). The Recovery of life in the Chicxulub Crater following the end Cretaceous mass extinction: Lunar and Planetary Science Conference abstracts with programs [2156](#).
17. **Lowery, C.M.**, Snedden, J.W., Cunningham, R., and Barrie, C., (2016). Expression of the Cenomanian-Turonian Oceanic Anoxic Event 2 in the Northern Gulf of Mexico. GCSSEPM Perkins-Rosen Research Conference, *Program with Abstracts* p. 15.
16. **Lowery, C.M.**, (2016). The Marine Tuscaloosa in the Sun Spinks Core. GCSSEPM Perkins-Rosen Research Conference Core Workshop.
15. **Lowery, C.M.**, Snedden, J.W., Gulick, S., and Exp. 364 Science Party, (2016). The Chicxulub impact in the Gulf of Mexico: New insights from seismic and IODP drilling. TGS Gulf of Mexico Symposium. **[invited keynote]**
14. **Lowery, C.M.**, Snedden, J.W., Cunningham, R., and Ganey-Curry, P.E., (2016). Expression of the Cenomanian-Turonian Oceanic Anoxic Event 2 in the Northern Gulf of Mexico. SEPM Research Conference: Oceanic Anoxic Events.
13. Sageman, B.B., Leckie, R.M., Barclay, R., and **Lowery, C.M.**, (2016). Cretaceous ocean-climate perturbations revealed in the Cenomanian-Campanian strata of Colorado: Field trip associated with symposium honoring the scientific contributions of Michael A. Arthur. Geological Society of America Pre-Meeting Field Trip 412.
12. **Lowery, C.M.**, Leckie, R.M., (2015). Temporal and geographic distribution of anoxia in the hemipelagic carbonates of the Turonian-Campanian Niobrara Formation, U.S. Western Interior. Geological Society of America *Abstracts with Programs*, Vol. 47, No. 7, p. 171.
11. Leckie, R.M., Elderbak, K., **Lowery, C.M.**, Parker, A.L., (2015). Paleooceanography and

- Paleoenvironmental changes of the Cenomanian/Turonian Boundary Interval (94-93 Ma): the record of Oceanic Anoxic Event 2 in the Western Interior Sea. *Geological Society of America Abstracts with Programs*, Vol. 47, No. 7, p. 171.
10. **Lowery, C.M.**, Leckie, R.M., (2015). Biotic Record of "OAE3" in the U.S. Western Interior Sea: Global Event or Local Signature? *Climates of the Past, Lessons of the Future*. Ascona, Switzerland.
 9. **Lowery, C.M.**, Leckie, R.M., (2015). Microfossil record of the paleoenvironment of the Late Cretaceous Niobrara Formation, Western Interior U.S. American Association of Petroleum Geologists Annual Convention and Exposition, *Abstracts with Programs*
 8. **Lowery, C.M.**, Tessin, A., Leckie, R.M., (2014). Foraminiferal record of oceanographic and biotic changes in the Western Interior Seaway before and during OAE3. *Geological Society of America, Abstracts with Programs*, Vol. 46 No. 6.
 7. **Lowery, C.M.**, Browning, E.B., Leckie, R.M., John, C.M., (2013). Foraminifera as proxies for Miocene sea level change and sequence boundaries: observations from the Marion Plateau, ODP Leg 194. NAMS Microfossils III Conference, *Abstracts with Programs*, p. 85-86.
 6. **Lowery, C.M.**, Corbett, M. J., Leckie, R.M., Watkins, D., Staerker, T.S., and Donovan, A.D., (2013). Foraminiferal evidence of paleoceanographic transitions in the Cenomanian-Turonian Eagle Ford Shale across southern Texas. NAMS Microfossils III Conference, *Abstracts with Program*, p. 85.
 5. Fraass, A.J., Dameron, S., Leachman, J., **Lowery, C.M.**, Nathan, S.A., and Leckie, R.M., (2013). FACTbase: a new solution of Foram identification. NAMS Microfossils III Conference, *Abstracts with Programs*, p.51.
 4. John, C.M., Browning, E., **Lowery, C.M.**, Leckie, R.M., Karner, G.D., and Schouten, S., (2012). Miocene History of the East Antarctic Ice-sheet Inferred from the Eustatic and Paleocceanographic Record of The Marion Plateau, Northeastern Australia (ODP Leg 194). AGU Fall Meeting, PP13C-05.
 3. **Lowery, C.M.**, Corbett, M.J., Pramudito, A., Miceli Romero, A., Leckie, R.M., Watkins, D.K., Donovan, A., and Staerker, T.S., (2012). Foraminiferal paleoecology and paleoceanography of the Cenomanian-Turonian Eagle Ford Shale at Lozier Canyon, Texas. *Geological Society of America, Abstracts with Programs*. Vol. 44, No. 7, p.323
 2. **Lowery, C.M.**, Browning, E., Leckie, R.M. and John, C.M., (2012). Revised Miocene biostratigraphy of the Marion Plateau, NE Australia margin, and implications for sequence stratigraphy and paleoceanography. *Geological Society of America Abstracts with Programs*, Vol. 44, No. 2 p.104
 1. **Lowery, C.M.**, Corbett, M., Miceli Romero, A., Leckie, R.M., Watkins, D.K., Donovan, A., and Staerker, T.S. (2011). Multi-proxy correlation of the Eagle Ford Shale in west Texas to the Bridge Creek Limestone (Cenomanian-Turonian GSSP) in central Colorado. *Geological Society of America Abstracts with Programs*, Vol. 43, No. 5, p. 377.

Posters

10. **Lowery, C.M.**, Snedden, J., Cunningham, R., Barrie, C., and Leckie, R.M., (2016). The Cenomanian-Turonian Oceanic Anoxic Event 2 in the Western Interior US and Gulf of Mexico: Decoupled Black Shale Deposition and Carbon Isotopes. AGU Fall Meeting, PP51C-2317.
9. Fraass, A.J. and **Lowery, C.M.**, (2016). Defining Uncertainty and Error in Planktic Foraminiferal Oxygen Isotope Measurements. AGU Fall Meeting, PP31C-2292.
8. **Lowery, C.M.**, Fraass, A.J., (2015). (Sample) Size Matters: Defining Error in Planktic Foraminiferal Isotope Measurement. AGU Fall Meeting, PP53B-2328.
7. **Lowery, C.M.**, Corbett, M.C., Leckie, R.M., (2013). Foraminiferal biostratigraphy and paleoecology of the Turonian-Coniacian Austin Chalk in west Texas. *Geological Society of America Abstracts with Programs*, vol. 45 no. 7, p. 332.
6. **Lowery, C.M.**, Browning, E., Leckie, R.M., and John, C. (2012). High-resolution record of Early to

Middle Miocene climate variability from Site 1195, Marion Plateau, NE Queensland margin. AGU Fall Meeting, PP23A-2028.

5. **Lowery, C.**, Corbett, M., Leckie, R.M., Watkins, D., Donovan, A., and Staerker, T.S. (2012). Foraminiferal paleoecology of the Cenomanian-Turonian Eagle Ford Shale at Lozier Canyon, West Texas. Cioppino Conference 2012.
4. Corbett, M., **Lowery, C.M.**, Miceli Romero, A., Watkins, D.K., Leckie, R.M., Li, W., Pramudito, A., Donovan, A., and Staerker, T.S. (2011). A Bio-chemostratigraphic framework of Oceanic Anoxic Event 2 at Lozier Canyon, TX: correlations to the Western Interior Seaway and comparisons to sequence stratigraphic surfaces. Geological Society of America *Abstracts with Programs*, Vol. 43, No. 5, p. 611
3. **Lowery, C.M.**, Leckie, R.M., Browning, E., and John, C. (2010). Revised biostratigraphy for ODP Leg 194, Marion Plateau, NE Australia: dating and timing of sea level events. *Forams 2010 Abstracts with Programs*, p. 133.
2. **Lowery, C. M.**, Browning, E., Leckie, R.M., and John, C. (2010). New biostratigraphic time scale for ODP Leg 194, Marion Plateau, NE Australia. Geological Society of America *Abstracts with Programs*, Vol. 42, No. 2, p. 166.
1. **Lowery, C. M.**, Smith, S.P., Tibert, N.E., Hemming, S., Zimmerman, S.H., and Hemming, G. (2008). The viability of Ostracoda as proxies for Pleistocene-Holocene climate change at Mono Lake, California. Geological Society of America *Abstracts with Programs*, Vol. 40, No. 4, p. 22.

GRANTS AND FELLOWSHIPS

[2017]	-NSF-OCE-1737351 Collaborative Proposal: Chicxulub Impact Effects and the Recovery of Life Using Scientific Drilling Investigations at Ground Zero	
	Postdoc non-PI contributor <i>my support out of \$1.2 million total:</i>	\$33,750
	-IODP Post Expedition Award (PI) – Exp. 364 Chicxulub Impact Crater	\$14,997
[2016]	-IODP Workshop Proposal (PI) – IODP Early Career Proposal Workshop	\$40,000
	-IODP Travel and Salary Support (PI) – Exp. 364 Chicxulub Impact Crater	\$19,330
	-Travel Grant – IODP Antarctic Climate History Workshop	\$600
	-UNOLS Chief Scientist Training Cruise travel/science funding	\$1,250
[2014]	-Travel Grant – IsoAstro Workshop	\$1,400
[2013]	-Travel Grant – IODP Survey Cruise 799	\$2,000
	-Travel Grant – IODP Cretaceous Greenhouse Workshop	\$2,000
[2012]	-NSF Travel Grant – Urbino Summer School of Paleoclimatology	\$3,000
	-UMass Isenberg Innovation Challenge – F.A.C.T. Base, 1 st Place,	\$26,500
	-BP Research Grant – Eagle Ford Shale Foraminiferal Biostratigraphy and Paleoecology, East Texas subsurface	\$35,488
	-Ed Picou Fellowship – Foraminiferal Biostratigraphy of the Niobrara	\$2,400
[2011]	-BP Research Grant – Eagle Ford Shale Foraminiferal Biostratigraphy and Paleoecology, Del Rio, TX	\$36,871
[2010]	-Cushman Foundation – Student Travel Grant (Forams 2010)	\$1,250
	-Geological Society of America – Miocene Sea Level History of the Marion Plateau, NE Australia Margin	\$3,519
[2008-09]	-UMW Undergraduate Research Grant – Foraminiferal Evidence for Milankovitch-Scale Sea Level Oscillations in L. Cretaceous Deposits in IA	\$1,500
[2007-08]	-UMW Undergraduate Research Grant – Climate Studies of Lacustrine Sediments near Mono Lake, CA	\$2,500

AWARDS

- [2012] -1st Place UMass Isenberg Innovation Challenge – FACTBase Foraminifer database
- [2011] -1st Place Poster for Technical Excellence, BP Technofest
- [2004] -Eagle Scout

STUDENTS MENTORED

- [2017-18] -Blake Chapman (undergrad senior honors student)
- [2016-17] -Tessa Cayton (undergrad, sample prep techniques and data interpretation)

FIELD EXPERIENCE

- [2016] -**Shipboard Biostratigrapher**, IODP Exp. 364, Chicxulub Impact Crater
-**Co-Chief Scientist**, *R/V Thomas G. Thompson* Cruise TN-338
- [2014] -Kaiparowits Plateau Drilling Project, UT
-Niobrara Formation sampling, KS, WY, CO, NM
- [2013] -**Science Party Member**, IODP Site Survey Cruise 799 – *R/V Roger Revelle*
- [2010-11] -Characterization and sampling of the west Texas Eagle Ford Group
- [2007] -Undergraduate field work at Mono Lake, CA

WORKSHOPS, SHORT COURSES, AND SUMMER SCHOOLS

- [2017] -IODP workshop – Early Career Scientist Proposal Writing Workshop – Austin, TX
- [2016] -IODP workshop – Antarctica’s Cenozoic Ice and Climate History - College Station, TX
-UNOLS Chief Scientist Training Cruise – *RV Thomas G. Thompson*
- [2014] -AGU Communicating Climate Science Workshop – San Francisco, CA
-IsoAstro Geochronology Workshop, Madison, WI.
- [2013] -Agglutinated Foraminifera Short Course, Houston, TX.
-IODP workshop – “Exploring the Cretaceous Greenhouse through Scientific Drilling”, London.
- [2012] -IODP workshop – “Communicating Ocean Drilling Science” San Francisco, CA.
“Reconstructing Earth’s Deep Time History: The State of the Art in 2012” Charlotte, NC
-Urbino Summer School of Paleoclimatology, Urbino, Italy.
- [2011] -5-College Colorado Plateau Field Trip, graduate student leader.
-Paleoclimate Proxy Workshop, Yale University.
- [2009] -ExxonMobil Basin Analysis Short Course, Northampton, MA.

PROFESSIONAL DEVELOPMENT

- [2014] -UMass Center for the Integration of Research, Teaching, and Learning workshop series
- [2013] -Skills for College Teachers – 2 credit graduate course

SERVICE

- Peer Reviewer: *Geology, Paleobiology, Sedimentology, Palaeo3, Cretaceous Research, Journal of Foraminiferal Research, Marine Micropaleontology, Journal of African Earth Sciences, GCSSEPM*
- [2017] -Convener, “Biotic and Climatic Perturbations in the Marine Realm” (PP34A), AGU Fall Meeting
-Lead Proponent – IODP proposal 917-Pre Florida Straits Paleoclimate and Tectonics
-Lead Organizer – IODP Early Career Scientist Proposal Writing Workshop, Austin, TX, Jan. 23-25, 2017 <http://usoceandiscovery.org/workshop-early-career-2017/>
 - [2016] -Technical Committee Co-Chair, GCSSEPM Perkins-Rosen Research Conference,

- Houston, TX, December 4-7, 2016
- [2015] -Proponent, IODP Proposal 853-Full2: The South Atlantic Transect
 - [2015] -Convener, “Decoding Paleoenvironmental Proxies – Developments, Challenges, Refinements, Mechanisms” (PP011), AGU Fall Meeting
 - [2014] -Convener, “Ocean climate dynamics: carbon cycle and oxygenation perturbations” (PP007), AGU Fall Meeting
 - [2014] -Committee member, Geomorphology/Earth Surface Processes faculty search, UMass Geosciences Dept.
 - [2012-13] -Guest Lecture Series Coordinator, University of Massachusetts Dept. of Geosciences

INVITED LECTURES

- [2018] -American Museum of Natural History
- [2018] -Oklahoma State University
- [2018] -Coastal Carolina University
- [2018] -University of Texas, Austin Deford Lecture
- [2016] -Texas Museum of Science and Technology
- [2016] -University of Massachusetts
- [2015] -Woods Hole Oceanographic Institute
- [2015] -University of South Carolina
- [2015] -University of Texas San Antonio

OUTREACH

- [2017] -Explore UT community fair
- [2017] -St. Elmo Elementary School Career Day
- [2017] -Stonington, CT Rotary Club
- [2016] -“Ship” to shore skype calls to schools for IODP Exp. 364
- [2016] -Presenter, Hot Science Cool Talks #100 Science Fair
- [2013, 2015] -STEM Career Day, Holyoke Catholic High School

Website - https://www.jsg.utexas.edu/researcher/christopher_lowery/

Blogs - <http://pacwarmpool.blogspot.com/> (contributor)

<http://csw.unols.org/scientist-posts/> (contributor)

<https://esoexpedition364chicxulubimpactcrater.wordpress.com/> (contributor)

Reddit AMA on Exp. 364 Chicxulub Impact Crater:

https://www.reddit.com/r/science/comments/4j09fl/science_ama_series_we_are_drs_gulick_morgan_and/?ref=search_posts

SELECTED MEDIA COVERAGE

The Atlantic – “A Foreboding Similarity in Today’s Oceans and a 94-Million-Year-Old Catastrophe”

https://www.theatlantic.com/science/archive/2018/01/suffocating-oceans/550415/?utm_source=atlw

PBS NOVA – “The Day the Dinosaurs Died” <http://www.pbs.org/wqbh/nova/evolution/day-dinosaurs-died.html>

EOS <https://eos.org/articles/after-obliteration-how-long-until-life-returned>

BBC Two Documentary “The Day the Dinosaurs Died”: <http://www.bbc.co.uk/programmes/b08r3xhf>

Texas Standard (NPR): <http://www.texasstandard.org/stories/when-the-asteroid-hit-dinosaurs-went-extinct-but-other-life-bounced-back-relatively-quickly/>

Air and Space Mag: <http://www.airspacemag.com/daily-planet/after-asteroid-impact-180962688/>

Discover Magazine: http://blogs.discovermagazine.com/fieldnotes/2016/05/02/drilling-chicxulub-crater-dinosaur-apocalypse/#.V9sYI_krKUK

Daily Mail: <http://www.dailymail.co.uk/sciencetech/article-4357222/Life-returned-quickly-dino-killing-asteroid.html>

Alcalde: <http://alcalde.texasexes.org/bigone/>