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CURRENT POSITION:

Full Professor and Senior Curator, University of Kansas

FIELD OF SPECIALIZATION: Invertebrate Paleontology

RESEARCH INTERESTS: Macroevolution, Paleobiology, Biogeography, Phylogenetics

EDUCATION

- 1991—1994 Ph.D. Columbia University, Geological Sciences, thesis title: "The Evolution of the Hamilton Group Fauna and a Hierarchical Perspective on Evolutionary Analysis", advisor Niles Eldredge
1989—1991 M.A. Columbia University, Geological Sciences, advisor Niles Eldredge
1984—1988 A. B. Harvard University, Geological Sciences, Summa Cum Laude, advisor Stephen Jay Gould

POST-DOCTORAL FELLOWSHIPS

- 1996—1998 NSF Postdoctoral Fellowship in the Earth Sciences, advisor Andrew Knoll, Harvard University
1994—1995 Advisor Elisabeth Vrba, Yale University

PROFESSIONAL POSITIONS AND APPOINTMENTS

- 2012—present Professor, with tenure, Department of Ecology and Evolutionary Biology, *University of Kansas*
2007—2012 Professor, with tenure, Department of Geology, *University of Kansas*
2007—present Senior Curator, Division of Invertebrate Paleontology, Biodiversity Institute, *University of Kansas*
2007—2012 Courtesy Professor, Department of Ecology and Evolutionary Biology, *University of Kansas*
2005—2007 Interim Director, Paleontological Institute and Treatise on Invertebrate Paleontology, *University of Kansas*
2005—2007 Acting Curator, Division of Invertebrate Paleontology, Natural History Museum and Biodiversity Institute, *University of Kansas*
2004—2004 Visiting Professor, Department of Geology and Geophysics, *Yale University*, and Visiting Curator, Division of Invertebrate Paleontology, Peabody Museum of Natural History. Funds provided by Yale Institute for Biospheric Studies and Yale Peabody Museum.
2002—2007 Associate Professor, with tenure, Department of Geology, *University of Kansas*
2002—2007 Courtesy Associate Professor, Department of Ecology and Evolutionary Biology, *University of Kansas*
1999—2002 Courtesy Assistant Professor, Department of Ecology and Evolutionary Biology, *University of Kansas*
1998—2002 Assistant Professor, Department of Geology, *University of Kansas*
1998—1998 Instructor, *Harvard University*
1995—present Curatorial Affiliate, Peabody Museum of Natural History, *Yale University*
1995—1995 Instructor, *Yale University*

CV ORGANIZED BY CATEGORY AND PAGE

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ACADEMIC HONORS, AWARDS, AND RECOGNITION FOR RESEARCH

2011	2008 publication in <i>Gondwana Research</i> one of the top 3 (ranked second) most cited articles according to <i>Scopus</i> (see bibliography)
2009	Jan F. and Mary L. van Sant Geology Excellence Award , \$6000
2008	Research featured on <i>National Science Foundation</i> Multimedia Gallery: http://www.nsf.gov/news/mmg/mmg_disp.cfm?med_id=63223&from=search_list
2007	Research featured in <i>Nature</i> , <i>New York Times</i> , <i>National Geographic</i> , etc., see <i>PLoS One</i> article in bibliography
2005—present	Fellow of the <i>Paleontological Society</i>
2004	Research featured in <i>Geotimes</i> , etc., see <i>Journal of the Geological Society of London</i> article in bibliography
2004	Research featured in <i>Nature</i> , <i>New Scientist</i> , <i>CNN.com</i> , etc., see <i>International Journal of Astrobiology</i> article in bibliography
2003	Jan F. and Mary L. van Sant Geology Excellence Award , \$4000
2002	Schuchert Award , <i>Paleontological Society</i> , to a paleontologist under 40 whose research and career demonstrates excellence and promise
2002	Research featured in <i>New Scientist</i> ., see <i>PNAS</i> article in bibliography
2000	Jan F. and Mary L. van Sant Geology Excellence Award , \$5000
2000—2003	<i>Paleontological Society</i> distinguished lecturer
1998	Honorable Mention, Best Paper for 1998, <i>Journal of Paleontology</i>
1989—1993	<i>Rudin Doctoral Fellowship</i> for Graduate Research at the <i>American Museum of Natural History</i>
1991	Honorable Mention, Best Paper for 1991, <i>Journal of Paleontology</i>
1988	<i>Phi Beta Kappa</i>
1985—1988	<i>John Harvard</i> Scholarship
1985—1986	<i>Donald Pritzker Memorial</i> Scholarship
1984—1985	<i>Harvard College</i> Scholarship

GRANTS AWARDED

- 2013—2016 NSF Systematic Biology, “Integrating fossil data into likelihood-based phylogenetic analyses with trilobites as a model system” \$448,665, PI, Mark Holder, I am the co-PI
- 2012—2015 NSF Emerging Frontiers, Advancing Digitization of Biological Collections, “Digitization TCN: Collaborative Research: Digitizing Fossils to Enable New Syntheses in Biogeography- Creating a PALEONICHES-TCN” \$950,000 (\$600,000 to KU), I am the lead PI, with co-PIs at KU Una Farrell and Jim Beach and collaborators at San José State and Ohio University
- 2007—2013 NSF Systematic Biology RevSys, “Revisionary systematics of Cheirurid trilobites.” \$450,000 (\$213,000 to KU), I am the PI with PI Jonathan Adrain
- 2005—2008 NSF Sedimentary Geology and Paleobiology, “An integrative paleontological and paleoenvironmental study of the Middle Cambrian Spence, Wheeler, and Marjum soft-bodied faunas of Utah.” \$250,000 (\$110,000 to KU), I am the PI with co-PI’s Derek Briggs, Mary Droser, and Robert Gaines
- 2004—2010 NSF DBI, “Archiving the history of life: High-density storage to solve space needs for an invertebrate paleontology research and teaching collection.” \$251,708, I am the PI with co-PI’s Roger Kaesler and Steve Hasiotis
- 2004—2007 NASA Exobiology, “Did a gamma ray burst cause the late Ordovician mass extinction?” \$417,552, co-PI with PI Adrian Melott and co-PI’s Claude Laird, Mikhail Medvedev, and Larry Martin
- 2003—2006 KU Endowment Association, Self Faculty Scholar Award, \$150,000, I am the PI
- 2001—2005 NSF Geology and Paleontology, “A Sequence, Chemo-, and Biostratigraphic Study of Late Early Cambrian Rocks, Southern Selwyn Basin, Mackenzie Mountains, N.W.T., Canada.” \$212,000 (\$117,000 to KU), I am the co-PI with PI Mike Pope
- 2001—2002 National Geographic, “Early Cambrian Climate and Evolution.” \$20,000, I am the co-PI with PI Mike Pope and co-PI Mario Coniglio
- 2001—2004 NSF-REU Research Experience for Undergraduates. \$181,000, one of 10-co-PI’s along with PI Helen Alexander
- 2000—2003 NSF-OPP Antarctic Geology and Geophysics, “Characterization of the Fauna of the Middle Cambrian Nelson Limestone: A Fauna of Relevance to Antarctic Geology.” \$60,000, I am the PI
- 2000—2003 NSF EPSCoR First Award, “Assessing the Long Term Effects of Invasive Species Using the Fossil Record.” \$35,000, I am the PI
- 1998—1998 Carl O. Dunbar Research Award, Yale University, \$500
- 1995—1997 NSF Postdoctoral Fellowship in the Earth Sciences, \$72,000
- 1993—1993 Conchologists of America Graduate Student Research Grant, \$1,500
- 1993—1993 Theodore Roosevelt Research Grant, AMNH, \$1,500
- 1993—1993 Long Island Shell Club Grant-in-Aid of Research-1993- \$1,000
- 1990—1990 Conchologists of America Graduate Student Research Grant, \$1,500

BIBLIOGRAPHY

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MAJOR PUBLICATIONS —BOOKS

6. **Lieberman, B. S.** *Paleontology and the Origin of Species: A Macroevolutionary Synthesis*. Oxford University Press, New York. In prep.
5. Wiley, E. O., and **B. S. Lieberman**. 2011. *Phylogenetics, 2nd edition*. J. Wiley & Sons, New York. 432 p.
4. **Lieberman, B. S.**, and R. A. Kaesler. 2010. *Prehistoric Life: Evolution and the Fossil Record*. Wiley/Blackwell Scientific, Oxford, UK, 385 p.
Reviews: Favorably in *About.com - Dinosaurs*, April 2010
Recommended: http://birdbookerreport.blogspot.com/2010_08_01_archive.html
3. **Lieberman, B. S.**, A. Stigall Rode, editors. 2005. *Paleobiogeography: Generating New Insights into the Coevolution of the Earth and Its Biota*. Paleontological Society Papers 11, Paleontological Society, Lawrence, KS, 158 pp.
2. Adrain, J., G. D. Edgecombe, and **B. S. Lieberman**, editors. 2001. *Fossils, Phylogeny, and Form: An Analytical Approach*. Plenum Press/Kluwer Academic Publishers, New York.
Reviews: Favorably in *Palaeontological Association Newsletter* no. 50, 2002
Favorably in *Paleobiology* vol. 29(2), p. 298-302, 2003
1. **Lieberman, B. S.** 2000. *Paleobiogeography: Using Fossils to Study Global Change, Plate Tectonics, and Evolution*. Plenum Press/Kluwer Academic Publishers, New York.
Reviews: Favorably in *American Scientist* vol. 89, Jan.-Feb. 2001
Favorably in *Quarterly Review of Biology* vol. 76, Sept. 2001
Recommended in *Choice* vol. 38, April 2001
Favorably in brief review in *American Paleontologist* vol. 9, Feb. 2001
Mentioned in *Harvard Magazine*, May-June 2001
Favorably in *Northeastern Naturalist* vol. 11(3), 2004

MAJOR PUBLICATIONS —SPECIAL ISSUES OF JOURNALS EDITED

1. **Lieberman, B. S.**, editor. 2012. *Biogeography: The Geography of Evolution. Evolution: Education and Outreach Vol. 5, #4*.

MAJOR PUBLICATIONS —JOURNAL ARTICLES AND BOOK CHAPTERS

*=MONOGRAPH

99. Olcott Marshall, A., B. M. Anderson, R. L. Wehrbein, L. A. Gonzalez, B. S. Lieberman, and C. P. Marshall. 2013. A molecular view of the Burgess Shale-type preservation mechanism. In review.
98. Holder, M. T., E. O. Wiley, and **B. S. Lieberman**. 2013. A software implementation of modified Brooks Parsimony Analysis. *Journal of Biogeography*. In review.
97. **Lieberman, B. S.**, and A. L. Melott. 2013. Declining volatility, a general property of disparate systems: from fossils, to stocks, to the stars. *Palaeontology* 56:1297-1304. doi: 10.1111/pala.12017.
96. Saupe, E. E., J. R. Hendricks, A. T. Peterson, and **B. S. Lieberman**. 2013. Climate change and marine molluscs: a tale of mostly extinctions. *Journal of Biogeography*. Accepted.
95. Alvaro, J. Javier, P. Ahlberg, L. E. Babcock, O. L. Bordonaro, D. K. Choi, R. A. Cooper, G. K. Ergaliev, I. W. Gapp, M. G. Pour, N. C. Hughes, J. B. Jago, I. Korovnikov, J. R. Laurie, **B. S. Lieberman**, J. R. Paterson, T. V. Pegel, L. E. Popov, A. W. A. Rushton, M. F. Tortello, Z. Zhou, and A. Zylinska. 2013. Global Cambrian trilobite paleobiogeography assessed using Parsimony Analysis of Endemicity. *Geological Society of London, Memoir Series*: 38:273-296. Early Palaeozoic Biogeography and Palaeogeography, D. Harper and T. Servais (eds.).

94. Myers, C. E., R. A. MacKenzie III, and **B. S. Lieberman**. 2013. A GIS approach to studying greenhouse biogeography: invasion and extinction in the Cretaceous Western Interior Seaway. *Paleobiology* 39:135-148.
Note, article featured on January 24, 2013 in:
<http://phenomena.nationalgeographic.com/2013/01/24/fossils-of-future-past>
93. Gapp, I. W., C. R. Congreve, and **B. S. Lieberman**. 2012. Unraveling the phylogenetic relationships of the Eccoptochilinae, an enigmatic array of Ordovician cheirurid trilobites. *PLoS One* 7(11): e49115, <http://dx.plos.org/10.1371/journal.pone.0049115> .
92. **Lieberman, B. S.** 2012. The geography of evolution and the evolution of geography. *Evolution Education and Outreach* 5:521-525. (DOI) 10.1007/s12052-012-0414-1
91. **Lieberman, B. S.** 2012. Adaptive radiations in the context of macroevolutionary theory: a paleontological perspective. *Evolutionary Biology* 39:181-191.
90. Peterson, A. T., and **B. S. Lieberman**. 2012. Species' geographic distributions through time: playing catchup with changing climates. *Evolution Education and Outreach* 5:569-581. DOI: 10.1007/s12052-012-0385-2.
89. Marshall, A. Olcott, R. L. Wehrbein, **B. S. Lieberman**, and C. P. Marshall. 2012. Raman spectroscopic investigations of Burgess Shale-type preservation: a new way forward. *Palaios* 27:288-292.
88. Abe, F. R., and **B. S. Lieberman**. 2012. Quantifying morphological change during an evolutionary radiation of Devonian trilobites. *Paleobiology* 38(2):292-307.
87. **Lieberman, B. S.**, and A. L. Melott. 2012. Whilst this planet goes cycling on: What role for periodic astronomical phenomena in large scale patterns in the history of life? Pp. 37-50 in J. Talent (Ed.), *Earth and Life: Global Biodiversity, Extinction Intervals, and Biogeographic Perturbations Through Time, International Year of Planet Earth*. Springer, Berlin.
- Note, article in volume one of few mentioned favorably in book review in Geological Magazine, November, 2012, p. 1133.*
86. **Lieberman, B. S.**, and P. Cartwright. 2011. Macroevolutionary patterns and processes during the Cambrian radiation: Integrating evidence from fossils and molecules. *Açoreana* 7:15-38.
85. Congreve, C. R., and **B. S. Lieberman**. 2011. Phylogenetic and biogeographic analysis of sphaerexochine trilobites. *PloS One* 6:e21304.
84. **Lieberman, B. S.** 2011. Presentation of the 2008 Paleontological Society Medal to Niles Eldredge. *Journal of Paleontology* 85:806.
83. Gapp, I. W., **B. S. Lieberman**, M. C. Pope, and K. Dilliard. 2011. New olenelline trilobites from the Northwest Territories, Canada, and the phylogenetic placement of *Judomia absita*. *Zootaxa* 2918:15-28.
82. Myers, C., and **B. S. Lieberman**. 2011. Sharks that pass in the night: Using GIS to investigate competition in the Cretaceous Western Interior Seaway. *Proceedings of the Royal Society, Series B.* 278:681-689. doi: 10.1098/rspb.2010.1617.
81. Yu-nan, W., Di-ying, H., and **B. S. Lieberman**. 2010. New *Isoxys* (Arthropoda) from the Cambrian Mantou Formation, Shandong Province. *Acta Palaeontologica Sinica* 49:398-406.
80. Abe, F. R., **B. S. Lieberman**, M. C. Pope, and K. Dilliard. 2010. New information on olenelline trilobites from the Early Cambrian Sekwi Formation, northwestern Canada. *Canadian Journal of Earth Sciences* 47:1445-1449.
79. **Lieberman, B. S.**, and T. S. Karim. 2010. Tracing the trilobite tree from the root to the tips: a model marriage of fossils and phylogeny. *Arthropod Structure & Development* 39:111-123.
78. Congreve, C. R., and **B. S. Lieberman**. 2010. Phylogenetic and biogeographic analysis of deiphonine trilobites. *Journal of Paleontology* 84:128-136.
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77. Dilliard, K., M. C. Pope, S. T. Hasiotis, and **B. S. Lieberman**. 2010. Active Synsedimentary Tectonism on a Mixed Carbonate-Siliciclastic Continental Margin: Third-Order Sequence Stratigraphy of a ramp to basin transition, Lower Sekwi Formation, Selwyn Basin, Northwest Territories, Canada. *Sedimentology* 57:513-542.
76. Abe, F. R., and **B. S. Lieberman**. 2009. The Nature of evolutionary radiations: A case study involving Devonian trilobites. *Evolutionary Biology* 36:225-234.
75. Moore, R. A., and **B. S. Lieberman**. 2009. Preservation of Early and Middle Cambrian soft-bodied arthropods from the Pioche Shale, Nevada, USA. *Palaeogeography, Palaeoclimatology, Palaeoecology* 277:57-62.
74. Hendricks, J. R., **B. S. Lieberman**, and A. L. Stigall. 2008. Using GIS to study the paleobiogeography of soft-bodied Cambrian arthropods. *Palaeogeography, Palaeoclimatology, and Palaeoecology* 264:163-175.
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72. **Lieberman, B. S.** 2008. Stephen Jay Gould's evolving, hierarchical thoughts on stasis. Pp. 227-241 in W. D. Allmon, P. Kelley, and R. Ross (Eds.), *Stephen Jay Gould: Reflections on His View of Life*. Oxford University Press, New York.
71. **Lieberman, B. S.** 2008. The Cambrian radiation of bilaterians: Evolutionary origins and palaeontological emergence; earth history change and biotic factors. *Palaeogeography, Palaeoclimatology, Palaeoecology* 258:180-188.
70. **Lieberman, B. S.**, and N. Eldredge. 2008. Punctuated equilibria. *Scholarpedia* 3(1): 3806 http://www.scholarpedia.org/article/Punctuated_equilibria .
69. Briggs, D. E. G., **B. S. Lieberman**, J. R. Hendricks, S. L. Halgedahl, R. D. Jarrard. 2008. Middle Cambrian arthropods from Utah. *Journal of Paleontology* 82:238-254.
68. Meert, J. G., and **B. S. Lieberman**. 2008. The Neoproterozoic assembly of Gondwana and its relationship to the Ediacaran-Cambrian Radiation. *Gondwana Research* 14:5-21 (Focus Paper).
One of the top 3 (ranked second) most cited articles according to Scopus, http://www.elsevier.com/wps/find/P06.cws_home/main#top3
67. **Lieberman, B. S.** 2008. Emerging syntheses between palaeobiogeography and macroevolutionary theory. Neil W. Archbold Memorial Publication, eds. G. R. Shi, D. McCann, J. Talent, and R. Peirson. *Proceedings of the Royal Society of Victoria* 120(1):51-57.
66. Hendricks, J. R., and **B. S. Lieberman**. 2008. New phylogenetic insights into the Cambrian radiation of arachnomorph arthropods. *Journal of Paleontology* 82:585-594.
65. **Lieberman, B. S.**, and S. T. Hasiotis. 2007. Memorial to Roger L. Kaesler (1937-2007). *Geological Society of America Memorials* 36:31-34.
64. Dilliard, K., M. C. Pope, M. Coniglio, S. T. Hasiotis and **B. S. Lieberman**. 2007. Stable isotope geochemistry of the Lower Cambrian Sekwi Formation, Northwest Territories, Canada: Implications for ocean chemistry and secular curve generation. *Palaeogeography, Palaeoclimatology, Palaeoecology* 256:174-194.
63. Cartwright, P., S. L. Halgedahl, J. R. Hendricks, R. D. Jarrard, A. C. Marques, A. G. Collins, and **B. S. Lieberman**. 2007. Exceptionally preserved jellyfishes from the Middle Cambrian. *PLoS ONE* 2(10) e1121:1-7.
Note, article featured in on or around October 30 - November 6, 2007
National Science Foundation Website, Press Release 07-159
Nature, Research highlights, Vol. 450, 15 November 2007, p. 323
National Geographic News, <http://news.nationalgeographic.com/news/2007/10/071031-jellyfish.html>
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<http://www.nytimes.com/2007/11/06/science/06objell.html?ex=1352091600&en=2648029a809334b2&ei=5088&partner=rssnyt&emc=rss>

- Science Daily, <http://www.sciencedaily.com/releases/2007/10/071030211210.htm>
 Geotimes, *Research in the News*, December 2007, vol. 52(12): 13.
 And many other newspapers and websites including:
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http://fe8.news.re3.yahoo.com/s/livescience/20071030/sc_livescience/oldestknownjellyfishfossilsfound
http://news.xinhuanet.com/english/2007-10/31/content_6983759.htm
<http://www.scenta.co.uk/engineering/1708325/the-500-million-year-old-jellyfish-fossil.htm>
<http://www.allheadlinenews.com/articles/70090002298>
 San Francisco Chronicle, <http://www.sfgate.com/cgi-bin/article.cgi?file=/c/a/2007/11/05/MN6NT5D99.DTL>
 Lawrence Journal World, print and online,
http://www2.ljworld.com/news/2007/oct/31/fossil_exposes_jellyfishes_real_age/?city_location
 Deseret Utah Morning News, <http://deseretnews.com/article/1,5143,695223745,00.html>
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<http://www1.folha.uol.com.br/fsp/ciencia/fe0511200701.htm>
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<http://www.geo.uu.nl/ngv/geonieuws/geonieuwsart.php?artikelnr=875>
American Paleontologist 15(4):12.
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 60. **Lieberman, B. S.**, W. Miller. III, and N. Eldredge. 2007. Paleontological patterns, macroecological dynamics and the evolutionary process *Evolutionary Biology* 34:28-48.
 59. Moore, R. A., S. C. McKenzie, and **B. S. Lieberman**. 2007. A Carboniferous synziphosurine (Xiphosura) from the Bear Gulch Limestone, Montana, USA. *Palaeontology* 50:1-7.
 58. Stigall, A. L., and **B. S. Lieberman**. 2006. Quantitative Paleobiogeography: GIS, Phylogenetic biogeographic analysis, and conservation insights. *Journal of Biogeography* 33:2051-2060.
 57. **Lieberman, B. S.** and A. Stigall Rode. 2005. Paleobiogeography: Tracking the coevolution of the Earth and its biota. Pp. 1-3 in B. S. Lieberman and A. Stigall Rode (Eds.), *Paleobiogeography: Generating New Insights into the Coevolution of the Earth and Its Biota*. Paleontological Society Papers 11, Paleontological Society, Lawrence, KS.
 56. **Lieberman, B. S.** 2005. Earth history change: The pacemaker of evolution. Pp. 5-13 in B. S. Lieberman and A. Stigall Rode (Eds.), *Paleobiogeography: Generating New Insights into the Coevolution of the Earth and Its Biota*. Paleontological Society Papers 11, Paleontological Society, Lawrence, KS.
 55. Briggs, D. E. G., **B. S. Lieberman**, S. L. Halgedahl, and R. D. Jarrard. 2005. A new vetulicolian from the Middle Cambrian of Utah and the phylogenetic position of a problematic group. *Palaeontology* 48:681-686.
 54. Rode, A. L., and **B. S. Lieberman**. 2005. Paleobiogeographic patterns in the Middle and Late Devonian emphasizing Laurentia. *Palaeogeography, Palaeoclimatology, Palaeoecology* 222:272-284.
 53. **Lieberman, B. S.** 2005. Geobiology and paleobiogeography: Tracking the coevolution of the Earth and its biota. *Palaeogeography, Palaeoclimatology, Palaeoecology* 219:23-33.

52. **Lieberman, B. S.** 2005. Range expansion, extinction, and biogeographic congruence: a deep time perspective. Pp. 111-124 in L. Heaney and B. Riddle (Eds.), *Frontiers in Biogeography: New Directions in the Geography of Nature*. Sinauer Press, Sunderland, MA.
51. Stigall Rode, A. L., and **Lieberman, B. S.** 2005. Using environmental niche modelling to study the Late Devonian biodiversity crisis. Pp. 93-180 in D. J. Over, J. R. Morrow, and P. B. Wignall (Eds.), *Understanding Late Devonian and Permian-Triassic Biotic and Climatic Events: Towards an Integrated Approach*. Developments in Palaeontology and Stratigraphy, Elsevier, Amsterdam.
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49. Rode, A. L., and **B. S. Lieberman**. 2005. Integrating biogeography and evolution using phylogenetics and PaleoGIS: a case study involving Devonian crustaceans. *Journal of Paleontology* 79:267-276.
48. Eldredge, N., J. Thompson, P. Brakefield, S. Gavrillets, D. Jablonski, J. Jackson, R. Lenski, **B. S. Lieberman**, M. McPeck, W. Miller, III. 2005. The dynamics of evolutionary stasis. *Paleobiology* 31:133-145.
47. Randell, R. D., **B. S. Lieberman**, S. T. Hasiotis, and M. C. Pope. 2005. New chancelloriids from the early Cambrian Sekwi Formation with a comment on chancelloriid affinities. *Journal of Paleontology* 79:1002-1011.
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45. **Lieberman, B. S.** 2004. Revised biostratigraphy, systematics, and paleobiogeography of the trilobites from the Middle Cambrian Nelson Limestone, Antarctica. *University of Kansas Paleontological Contributions* 14:1-23.
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43. Meert, J. G., and **B. S. Lieberman**. 2004. A palaeomagnetic and palaeobiogeographic perspective on latest Neoproterozoic and early Cambrian tectonic events. *Journal of the Geological Society of London* 161:1-11.
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20. **Lieberman, B. S.** 2002. Paleobiogeography: From Evolution to Global Change. *Geological Society of America Annual Meeting*, Abstracts with programs.
19. Meert, J. G., and **B. S. Lieberman**. 2002. Paleogeography & biogeography in the Neoproterozoic: some hints about Rodinia. *Geological Society of America Annual Meeting*, Abstracts with programs.
18. Cornette, J. L., **B. S. Lieberman**, and R. H. Goldstein. 2002. A significant relationship between macroevolutionary origination rates and Phanerozoic PCO₂ levels. *Geological Society of America Annual Meeting*, Abstracts with programs.

17. **Lieberman, B. S.** 2002. Taking the pulse of the Cambrian radiation. *SICB Annual Meeting*, Abstracts with programs and *American Zoologist* 41:1506.
16. **Lieberman, B. S.** 2001. Using biogeography to constrain the timing of the Cambrian radiation. *Geological Society of America Annual Meeting*, Abstracts with programs: A430.
15. Rode, A., and **B. S. Lieberman.** 2001. New Early Cambrian bradoriida (Crustacea?) from Antarctica: Implications for bradoriid biogeography and evolution. *Geological Society of America Annual Meeting*, Abstracts with programs: A379.
14. Rode, A., and **B. S. Lieberman.** 2001. Assessing the role of invasive species in mediating mass extinctions: a case study using Devonian phyllocarids. *North American Paleontological Convention Abstracts with Programs*, *PaleoBios* 21(2):A109.
13. **Lieberman, B. S.** 2001. Using phylogenetic palaeobiogeography of trilobites to study Cambrian global change. *3rd International Conference on Trilobites and Their Relatives*. April 4, 2001, Oxford, United Kingdom. Abstracts, p. 21.
12. **Lieberman, B. S.** 2000. Quantitative paleontological approaches to reconstructing tectonic events involving Gondwanan cratons. *American Geophysical Union Fall Meeting*, Abstracts. San Francisco, *EOS Transactions AGU*, 81(48).
11. **Lieberman, B. S.** 2000. A new Early Cambrian Lagerstätten and Disparate Selectivities During Cambrian Extinctions. *Geological Society of America Annual Meeting*, Abstracts with programs: A301.
10. Rode, A., and **B. S. Lieberman.** 2000. Using GIS and Phylogenetics to Study the Role of Invasive Species During the Late Devonian Biodiversity Crisis. *Geological Society of America Annual Meeting*, Abstracts with programs: A368.
9. **Lieberman, B. S.** 1999. Phylogenetic paleobiogeography: strengths, methods, and case studies. *Geological Society of America Annual Meeting*, Abstracts with programs: A138.
8. **Lieberman, B. S.** 1998. A Probabilistic Analysis of Rates of Evolution During the Cambrian Radiation. *Geological Society of America Annual Meeting*, Abstracts with programs: A233.
7. Smith, L. H., and *Geological Society of America Annual Meeting.* 1998. Disparity of the Olenelloid Trilobites and the Cambrian Radiation. *Geological Society of America Annual Meeting*, Abstracts with programs: A233.
6. **Lieberman, B. S.** 1997. Early Cambrian Cladistic Biogeography, 1997. *Geological Society of America Annual Meeting* Abstracts with programs: A30.
5. **Lieberman, B. S.** and E. S. Vrba. 1995. Evolutionary and biogeographic impacts of the Acadian orogeny on eastern North American trilobite clades. *Geological Society of America Northeastern Sectional Meeting*, Abstracts with programs: 64-65.
4. **Lieberman, B. S.** 1994. Patterns and processes of stasis in species-lineages. *Geological Society of America Annual Meeting*, Abstracts with programs: A454.
3. **Lieberman, B. S.** 1994. Patterns and processes of stasis in species-lineages. *Geological Society of America Northeastern Sectional Meeting*, Abstracts with programs: 32.
2. **Lieberman, B. S.,** W.D. Allmon, and N. Eldredge. 1992. Phylogenetic Trends and Speciation: Analyzing Macroevolutionary Processes. *Geological Society of America Annual Meeting*, Abstracts with Programs: A139.
1. **Lieberman, B. S.,** W.D. Allmon, and N. Eldredge. 1992. Levels of Selection: An Analysis of the Forces Driving Diversification in the Turrillid Gastropods. *North American Paleontological Convention*, *Paleontological Society Special Publication* 6:185.

ELECTRONIC DATA DISSEMINATION

Trilobites Life Desk: Encyclopedia of Life, created classification and added content including photographs, phylogenies, biogeography, bibliographic information, and descriptive text with students Curtis Congreve and Wes Gapp, <http://trilobites.lifedesks.org/>

Utah's Cambrian Life, virtual museum on biogeography and evolution of Burgess Shale Type soft-bodied faunas from the Cambrian of Utah, designed and added content including

photographs, phylogenies, biogeography, bibliographic information and descriptive text with J. Hendricks (post-doc), <http://www.kumip.ku.edu/cambrianlife>

EXHIBIT DESIGN

- Trilobites: Extinct Evolutionary Marvels*, helped develop content including text, videos, phylogenies, and chose appropriate specimens with current museum staff members Bruce Scherting and Theresa MacDonald, on public exhibit as of September 2011.
- The History of Life: A Brief Survey*, helped develop content including text, videos, phylogenies, and also chose appropriate specimens with collections manager Una Farrell and museum staff members Bruce Scherting and Greg Ornay, on public exhibit as of July 2012.

INVITED SYMPOSIA AND TALKS

79. Adaptive radiations in the context of macroevolutionary theory. Topical session on the coevolution of the Earth and Life: The role of the physical environment in species evolution. *Geological Society of America Annual Meeting*, Denver, CO, October 27, 2012.
78. Macroevolutionary consequences of profound climate change on niche evolution: An examination of marine mollusks over the past 3 million years. Topical session on the coevolution of the Earth and Life: The role of the physical environment in species evolution. *Geological Society of America Annual Meeting*, Denver, CO, October 27, 2012 (presented by E. Saupe).
77. Biogeographic responses of mollusk species to Plio-Pleistocene environmental change in the western Atlantic. Topical session on the coevolution of the Earth and Life: The role of the physical environment in species evolution. *Geological Society of America Annual Meeting*, Denver, CO, October 27, 2012 (presented by J. Hendricks).
76. Paleo-ENM: A valuable quantitative tool for understanding the coevolution of the Earth and of life. Topical session on the coevolution of the Earth and Life: The role of the physical environment in species evolution. *Geological Society of America Annual Meeting*, Denver, CO, October 27, 2012 (presented by C. Myers).
75. Five two hour lectures on a range of topics from *Applying Biodiversity Science to Paleontology*, to *Stasis*, to *Astrobiology*, to *Phylogenetic Biogeography*, to the *History of Biogeography*, to *Evidence for Periodicity in the Fossil Record*, to the *Nature of Evolutionary Radiations*, all part of a short course emphasizing Macroevolution at the 1st *International Winter School on Evolution* (all expenses paid). *University of Lisbon, Portugal*, March 11-15, 2013.
74. Comparing and contrasting parsimony and maximum likelihood approaches to paleontological phylogenetics using trilobites as a model system. Topical session on the origins of arthropod diversity. *Geological Society of America Annual Meeting*, Charlotte, NC, November 6, 2012 (presented by I. W. Gapp).
73. The PALEONICHES-TCN. Integrated Digitized Biocollections (iDigBio) Summit II, *Florida Museum of Natural History*, Gainesville, FL, October 22, 2012.
72. Applying biodiversity science to paleontology. Department of Ecology & Evolutionary Biology, *University of Kansas*, Lawrence, KS, September, 11, 2012.
71. Applying biodiversity science to paleontology. Department of Ecology, Evolution, and Organismal Biology, *Iowa State University*, Ames, IA, August, 30, 2012.
70. Applying biodiversity science to paleontology. Integrated Digitized Biocollections (iDigBio) Paleo Workshop Keynote speaker, *Florida Museum of Natural History*, Gainesville, FL, April, 28, 2012.

69. Applying biodiversity science to paleontology. Department of Evolution, Ecology, and Organismal Biology, *Ohio State University*, Columbus, OH, March, 8, 2012.
68. Tempo and mode in evolution reframed in the light of phylogenetic thinking. Topical session on species and speciation in the fossil record. *Geological Society of America Annual Meeting*, Minneapolis, MN, October, 10, 2011.
67. Quantifying catastrophe: estimating speciation and extinction rates in trilobites during the end Ordovician mass extinction event. Topical session on phylogenetic approaches to paleobiology: diversity, rates and trends. *Geological Society of America Annual Meeting*, Minneapolis, MN, October, 9, 2011 (presented by C. Congreve).
66. Building phylogenetic trees for trilobites using maximum likelihood. Topical session on phylogenetic approaches to paleobiology: diversity, rates and trends. *Geological Society of America Annual Meeting*, Minneapolis, MN, October, 9, 2011 (presented by I. W. Gapp).
65. Climate change and marine mollusks: a tale of invasions, immigration, and extirpation. Topical session on whole organism paleoecology: exploring ecology through time. *Geological Society of America Annual Meeting*, Minneapolis, MN, October, 11, 2011 (presented by E. Saupe).
64. True is it that we have seen better days? Biogeography and survivorship in the Cretaceous Western Interior Seaway. Topical session on whole organism paleoecology: exploring ecology through time. *Geological Society of America Annual Meeting*, Minneapolis, MN, October, 11, 2011 (presented by C. Myers).
63. Application of Raman spectroscopy on Burgess Shale type preservation. Topical session on new ideas on studying exceptionally preserved fossils: what to do next? *Geological Society of America Annual Meeting*, Minneapolis, MN, October, 9, 2011 (presented by R. Wehrbein).
62. Darwin, fossils, and evolution. *KU Mini College*, The Commons, Lawrence, KS, June 8, 2011.
61. Applying biodiversity science to paleontology. Florida Museum of Natural History, *University of Florida*, Gainesville, FL, March 17, 2011.
60. From natural history to biodiversity studies: paleontological data enabling new syntheses in ecology and evolution. Topical session on geological and paleobiological collections: best practices for preservation, access, and use in a changing world. *Geological Society of America Annual Meeting*, Denver, CO, November, 3, 2010.
59. Using GIS to investigate bias in the fossil record: a case study of the late Cretaceous Western Interior Seaway of North America. Topical session on paleontology, paleobiogeography, and stratigraphy of the Late Cretaceous North American seas: a tribute to Bill Cobban. *Geological Society of America Annual Meeting*, Denver, CO, November, 2, 2010 (presented by C. Myers).
58. Raman spectroscopic insights into Burgess Shale-type preservation. Topical session on Lagerstätten through time: an examination of exceptional preservation pathways from the terminal Proterozoic through today. *Geological Society of America Annual Meeting*, Denver, CO, November, 2, 2010 (presented by A. Marshall Olcott).
57. Macroevolution: On the birth, death, and persistence of species. Symposium S2 Macroevolution and the modern synthesis, *International Palaeontological Congress (IPC3)*, London, United Kingdom, July 2, 2010.
56. Macroevolution and paleontology: Expanding Darwinism. International Darwin Day Guest Speaker, *University of Minnesota*, Duluth, MN, February 11, 2010.
55. Darwin, the fossil record, and evolution. *Washburn University*, Topeka, KS, November 12, 2009.
54. Darwin, geology, and the growth of macroevolutionary theory. Topical session on Darwin, Geology and Evolution: Impact of Darwinian views on scientific theory-making. *Geological Society of America Annual Meeting*, Portland, OR, October, 19, 2009.

53. Macroevolution and paleontology: Expanding Darwinism. Symposium called “Darwin’s Mistake and what we are doing to correct it” (all expenses paid). *University of the Azores, Ponta Delgada, Azores, Portugal*, September 21, 2009.
52. Studying tempo and mode in evolutionary radiations: An integrated, quantitative approach. Topical Session on Integrative Systematic Paleontology for a New Century: Advancing Evolutionary, Phylogenetic, Biogeographic, and Ecologic Theory with Specimen-Based Studies. *Geological Society of America Annual Meeting, Houston, TX*, October 9, 2008 (presented by F. Abe).
51. Paleontological Society Medal citation for Niles Eldredge, Paleontological Society 2008 Awards Reception, *Geological Society of America Annual Meeting, Houston, TX*, October 6, 2008.
50. Paleobiogeography in Deep Time: Evolution in the Fossil Record. Short Course on Biogeography (all expenses paid). *University of the Azores, Ponta Delgada, Azores, Portugal*, September 15-19, 2008.
49. Building the Tree of Life: Using Evolutionary Patterns to Reconstruct the Evolutionary Process. B. S. Lieberman and E. O. Wiley. *Tree of Life Symposium, Spooner Hall, University of Kansas*, March 4, 2008.
48. The fossil contribution for the understanding of Metazoan evolution. *Brazilian Congress of Zoology*, Invited Plenary Speaker (all expenses paid), February 20, 2008, *Curitiba, Brazil*.
47. Using GIS to study the paleobiogeography and macroevolution of soft-bodied Cambrian arthropods. Topical Session on Selectivity of ancient and modern extinctions: bridging the gap between neontological prediction and paleontological observation. *Geological Society of America Annual Meeting, Denver, CO*, October 30, 2007 (presented by J. Hendricks).
46. Exploring major patterns in the history of animal life. *Geological Society of America Joint North Central/South Central Sectional Meeting*, Roger L. Kaesler-Scientist and editor: his contributions to paleontology through research and the Treatise on Invertebrate Paleontology (S2). Sponsored by the Paleontological Society, *Lawrence, KS*, April 12, 2007
45. Macroevolutionary Synthesis: Fossils, Life and the Environment. Invited speaker at symposium on Hierarchy Theory and Evolution, *Festival della Scienza, Genoa, Italy*, November 4, 2006.
44. Citation for Roger L. Kaesler’s Geological Society of America Distinguished Service Award, Presidential Address and Awards Ceremony. *Geological Society of America Annual Meeting, Philadelphia, PA*, October 21, 2006,
43. Biogeographic Patterns and Evolutionary Processes During the Cambrian Radiation. Invited key note speaker, symposium on Palaeobiogeography at the *Second International Palaeontological Congress, Peking University, Beijing, China*, June 21, 2006.
42. Biogeography in Deep Time: Evolution in the Fossil Record. *Iowa State University, Ames, Iowa*, April 14, 2006.
41. Paleobiogeography: Tracking the coevolution of the Earth and its biota. Introduction to Paleontological Society sponsored short course on Paleobiogeography: Generating New Insights into the Coevolution of the Earth and Its Biota. Held immediately before the *Geological Society of America Annual Meeting, Salt Lake City, UT*, October 15, 2005 (with Alycia Stigall Rode).
41. Earth history change: The pacemaker of evolution. Paleontological Society sponsored short course on Paleobiogeography: Generating New Insights into the Coevolution of the Earth and Its Biota. Held immediately before the *Geological Society of America Annual Meeting, Salt Lake City, UT*, October 15, 2005.
40. The Taphonomy of Lower and Middle Cambrian arthropods from the Pioche Shale of Nevada. Topical session "Paleoenvironments and taphonomy of Cambrian lagerstätten"

- at the *Geological Society of America Annual Meeting, Salt Lake City, UT*, October 19, 2005 (presented by R. Moore).
39. Soft bodied fossils from the Middle Cambrian of Utah, USA. *Fourth International Symposium on the Cambrian System*, August 18th, 2005, Keynote lecture, *Nanjing Institute of Paleontology, Nanjing, China* (presented by Derek Briggs).
 38. Session chair, introductory speaker and discussant, session "What is evolution?" *World Summit on Evolution, Galapagos, Ecuador*, June 9-12, 2005.
 37. The Cambrian Radiation: Investigating Biology's Big Bang. *Palaeontological Institute, University of Zurich, Switzerland*, May 31, 2005.
 36. Biogeography in Deep Time: Evolution in the Fossil Record. *Institute for Systematic Botany, University of Zurich, Switzerland*, May 30, 2005.
 35. The Cambrian Radiation: Investigating Biology's Big Bang. Seminar series, *Department of Geosciences, University of Iowa, Iowa City, IA*, April 8, 2005.
 34. Did a Gamma Ray Burst initiate the late Ordovician mass extinction? *Western Interior Paleontological Society Symposium*, March 12, 2005, *Colorado School of Mines, Golden, CO* (presented by W. K. Berry).
 33. Paleobiogeography, Workshop on Historical Biogeography at the *International Biogeography Society meeting*, January 5, 2005, *National Conservation Training Center, Shepherdstown, WV*.
 32. A new Carbon isotope curve for the Early Cambrian Sekwi Formation, Selwyn Basin, Northwest Territories, Canada. Topical session "Ocean chemistry through the Precambrian and Paleozoic" at the *Geological Society of America Annual Meeting, Denver, CO* November 10, 2004, (presented by K. Dilliard).
 31. Did a Gamma Ray Burst initiate the late Ordovician mass extinction? Pardee Keynote Symposium on "Pre-Mesozoic Impacts" at the *Geological Society of America Annual Meeting, Denver, CO*, November 9, 2004.
 30. Biogeography and the Nature and timing of the Cambrian radiation, *Paleontological Society Short Course, Denver, CO*, November 6, 2004.
 29. Biogeography in Deep Time: Evolution in the Fossil Record. *Yale Institute for Biospheric Studies Seminar Series, Yale University, New Haven, CT*, October 22, 2004.
 28. Distinguished Visiting Speaker Program, *California State University, Northridge*, April 29, 2004 "Stasis and stabilizing selection: evaluating mechanisms of stasis" and April 30, 2004 "The Cambrian radiation: Investigating biology's big bang".
 27. Stephen Jay Gould: His evolving, hierarchical thoughts on stasis. Pardee Keynote Symposium on "His view of life: Reflections on the scientific legacy of Stephen J. Gould" at the *Geological Society of America Annual Meeting, Seattle, WA*, November 2, 2003.
 26. Earliest traces of life on land: arthropod trackways and other ichna in Early Cambrian (*Nevadella* zone) intertidal to supratidal deposits, Mackenzie Mountains, Northwest Territories, Canada. Topical session "New perspectives on Neoproterozoic-Early Paleozoic development of western Laurentia: in honor of John Cooper" at the *Geological Society of America Annual Meeting, Seattle, WA*, November 4, 2003 (presented by S. Hasiotis).
 25. Deep subtidal deposits, Early Cambrian Sekwi Formation, Northwest Territories, Canada. Topical session "New perspectives on Neoproterozoic-Early Paleozoic development of western Laurentia: in honor of John Cooper" at the *Geological Society of America Annual Meeting, Seattle, WA*, November 4, 2003 (presented by M. Pope).
 24. GIS and phylogenetics, a combined approach to understanding biogeographic changes in the Late Devonian. Topical session "Understanding Late Devonian biotic, climatic and oceanographic events: Toward an integrated approach" at the *Geological Society of America Annual Meeting, Seattle, WA*, November 4, 2003 (presented by A. Rode).
 23. The Cambrian radiation: Investigating paleontology's big bang. *Cornell University, symposium for the opening of the Museum of the Earth, Ithaca, NY*, October 6, 2003.

22. Macroevolution, biogeography, and the search for congruence. *International Biogeography Society Inaugural Meeting, Mesquite, NV*, January 5, 2003.
21. Organized Topical Session at *Geological Society of America Annual Meeting*, Paleobiogeography: Integrating Plate Tectonics and Evolution (T81). Sponsored by the Paleontological Society, *Denver, CO*, October 28, 2002.
20. Paleobiogeography: From Evolution to Global Change. *Geological Society of America Annual Meeting, Denver, CO* topical session- Paleobiogeography: Integrating Plate Tectonics and Evolution (T81). October 28, 2002.
19. Investigating Biology's Big Bang. *University of Arkansas, Fayetteville, Department of Geosciences Seminar Series*, February 22, 2002.
18. Biogeography and Rates of Evolution. *University of Chicago, Evolutionary Morphology Seminar Series*, February 7, 2002.
17. Taking the Pulse of the Cambrian radiation. *Society for Integrative and Comparative Biology (SICB). Anaheim, CA*, January 6, 2002.
16. Assessing the role of invasive species in mediating mass extinctions: a case study using Devonian phyllocarids. *North American Paleontological Convention, Berkeley, CA*, June, 2001 (A. Rode presented).
15. The Cambrian Radiation: Understanding Biology's Big Bang. *Department of Geology, Brigham Young University, Provo, UT*, March 1, 2001.
14. Quantitative paleontological approaches to reconstructing tectonic events involving Gondwanan cratons. *American Geophysical Union Fall Meeting, Tectonophysics Symposium (T07), San Francisco, CA*, December 19, 2000 (A. Rode presented).
13. Biogeography with and without the fossil record. *Evolutionists' Society, Lawrence, KS*, November 2, 1999.
12. Phylogenetic paleobiogeography: strengths, methods, and case studies. *Geological Society of America Annual Meeting, Denver, CO*, Paleontological Society theme session- Beyond Phylogeny Reconstruction: Tree-Based Analyses in Paleontology, October 25, 1999.
11. Presentation of the Strimple Award. *Paleontological Society Luncheon, Toronto, Canada*, October 27, 1998.
10. Deep History Biogeography. *University of Toronto Symposium on Biogeography, Toronto, Canada*, October 24, 1998.
9. Using Biogeography to Study Paleogeographic Patterns and Geological Processes. *University of Texas at Arlington, Geology Seminar Series*, December 4, 1997.
8. A Probabilistic Analysis of the Cambrian Radiation, and Using Phylogenies to Study Evolutionary Patterns and Processes. *2nd International Trilobite Conference, St. Catharines, Ontario*, August 22 and 23 1997.
7. Biogeographic Patterns and Geological Processes. *University of Toronto, Evolutionary Biology Seminar Series, Toronto, Canada*, October 2, 1996.
6. Testing Faunal Origination and Stability in the Hamilton Group Using Phylogenetic Analysis. *North American Paleontological Convention. Symposium on Community Unity. Washington, D.C.*, June 11, 1996.
5. Biogeography and Evolutionary Patterns in Trilobite Clades of Eastern North America During the Middle Devonian Acadian Orogeny. *Symposium on Appalachian Biogeography. Virginia Polytechnic Institute, Blacksburg, VA*, June 27, 1995.
4. Evolutionary and Biogeographic Impacts of the Acadian Orogeny on Eastern North American Trilobite Clades. *Geological Society of America, Northeastern Sectional Meeting, Hartford, CT*. Paleontological Society Symposium on Biotic Responses to Tectonic-Environmental Events. March 21, 1995.
3. Patterns and Processes of Stasis and Change in Species-Lineages. *Geological Society of America Annual Meeting, Seattle, WA*. Paleontological Society Theme Session on New Perspectives on Faunal Stability. October 27, 1994.

2. Patterns and Processes of Stasis and Change in Hamilton Group Species-Lineages. *Geological Society of America, Northeastern Sectional Meeting, Binghamton, NY*. Paleontological Society Symposium on Variation in Fossil Taxa. March 29, 1994.
1. Phylogenetic Trends and Speciation. Paleontological Society Symposium on Speciation in the Fossil Record. *Geological Society of America Annual Meeting, Cincinnati, OH*, October 27, 1992.

OTHER SCIENTIFIC PRESENTATIONS

31. Paleoniches: using collection data to study species' distribution through time Paleontological Association Annual Meeting, UCD, Dublin Ireland, Dec 16th-18th, 2013 (presented by U. Farrell).
30. Declining volatility, a macroevolutionary property of disparate systems: from fossils, to stocks, to the stars. *Geological Society of America Annual Meeting, Charlotte, NC*, November 5, 2012.
29. New insights into the evolutionary history and biogeography of the Early Cambrian olenelline trilobites. *Geological Society of America Annual Meeting, Portland, OR*, October 21, 2009 (presented by I. W. Gapp).
28. The nature of evolutionary radiations: abiotic factors as mechanisms. *Geological Society of America Annual Meeting, Portland, OR*, October 20, 2009 (presented by F. Abe).
27. Testing the controls on species' distributions in the fossil record: competition and biogeography in the Western Interior Seaway. *Geological Society of America Annual Meeting, Portland, OR*, October 19, 2009 (presented by C. Myers).
26. Biogeographic and phylogenetic patterns of two groups of cheirurid trilobites during the end Ordovician mass extinction. *Geological Society of America Annual Meeting, Portland, OR*, October 19, 2009 (presented by C. Congreve).
25. Raman imaging of Early and Middle Cambrian soft-bodied arthropods from the Pioche Shale, Nevada, U.S.A. *Walcott, 2009, Charles D. Walcott and the Discovery of the Burgess Shale, An International Conference on the Cambrian Explosion, Banff, Alberta, Canada*, August 5, 2009 (presented by C. Marshall).
24. Considering the case for biodiversity cycles: reexamining the evidence for periodicity in the fossil record. *Geological Society of America Annual Meeting, Denver, CO*, October 31, 2007.
23. Investigating evolutionary radiations using morphometrics, biogeography, and speciation rates: a case study involving Devonian trilobites. *Geological Society of America Annual Meeting, Denver, CO*, October 28, 2007 (presented by F. Abe).
22. Spectral analysis of biodiversity cycles and galactic dynamics. *American Physical Society April Meeting, Jacksonville, FL*, April 14, 2007 (presented by A. L. Melott).
21. New insights into the Cambrian radiation: phylogenetic patterns in Cambrian arachnomorphs (Arthropoda). *Geological Society of America Annual Meeting, Philadelphia, PA*, October 24, 2006, (presented by J. Hendricks).
20. Reconstructing the Cambrian radiation. *Geological Society of America Annual Meeting, Philadelphia, PA*, October 24, 2006, (presented by J. Lipps).
19. Crown-group cnidarians from the Cambrian of Utah. *Geological Society of America Annual Meeting, Philadelphia, PA*, October 24, 2006.
18. Biogeography and rates of evolution during a taxic radiation: calmoniid trilobites (Devonian) of the Malvinokaffric Realm. *Geological Society of America Annual Meeting, Philadelphia, PA*, October 25, 2006 (presented by F. Abe).
17. Determination of Sr-isotope composition of the Lower Cambrian Sekwi Formation, Northwest Territories, Canada, using solution chemistry and laser ablation. *Geological Society of America Annual Meeting, Philadelphia, PA*, October 25, 2006, (poster presented by K. Dilliard with several other co-authors).
16. Integrated Carbon isotope curve, sea level history, and biostratigraphy for the Early Cambrian Sekwi Formation, Selwyn Basin, Northwest Territories, Canada, *Earth System Processes*

- 2, *Geological Society of America and Geological Association of Canada, August 9, 2005, Calgary, Alberta, Canada* (poster presented by K. Dilliard with several other co-authors).
15. Random walks in the history of life. *Geological Society of America Annual Meeting, Seattle, WA, November 4, 2003* (presented by J. Cornette).
 14. Early Cambrian algal, archaeocyathan, *Tabulaconus* mounds, Sekwi Formation, Selwyn Basin, Mackenzie Mountains, Canada. *Geological Society of America Annual Meeting, Seattle, WA, November 5, 2003* (poster presented by J. Murphy with several other co-authors).
 13. Paleogeography & biogeography in the Neoproterozoic: some hints about Rodinia. *Geological Society of America Annual Meeting, Denver, CO, October 28, 2002* (presented by J. Meert).
 12. A significant relationship between macroevolutionary origination rates and Phanerozoic PCO₂ levels. *Geological Society of America Annual Meeting, Denver, CO, October 29, 2002* (presented by J. Cornette).
 11. Hasiotis, S. T., K. A. Dilliard, and M. C. Pope. 2003. Using Ichnofossils to better understand depositional processes, facies relationships, and sequence stratigraphy in the Early Cambrian Sekwi Formation. *American Association of Petroleum Geologists Meeting, Abstracts with Programs 12:A72*.
 10. Using biogeography to constrain the timing of the Cambrian radiation. *Geological Society of America Annual Meeting, Boston, MA, November 8, 2001*.
 9. New Early Cambrian bradoriida (Crustacea?) from Antarctica: Implications for bradoriid biogeography and evolution. *Geological Society of America Annual Meeting, Boston, MA, November 8, 2001* (presented by A. Rode).
 8. Using phylogenetic palaeobiogeography of trilobites to study Cambrian global change. *3rd International Conference on Trilobites and Their Relatives. Oxford, United Kingdom, April 4, 2001*.
 7. A new Early Cambrian Lagerstätten and Disparate Selectivities During Cambrian Extinctions. *Geological Society of America Annual Meeting, Reno, Nevada, November 15, 2000*.
 6. Using GIS and Phylogenetics to Study the Role of Invasive Species During the Late Devonian Biodiversity Crisis (along with A. Rode). *Geological Society of America Annual Meeting, Reno, Nevada, November 15, 2000*.
 5. A Probabilistic Analysis of Rates of Evolution During the Cambrian Radiation. *Geological Society of America Annual Meeting, Toronto, Canada, October 28, 1998*.
 4. Disparity of the Olenelloid Trilobites and the Cambrian Radiation, *Geological Society of America Annual Meeting, Toronto, Canada, October 28, 1998*.
 3. Early Cambrian Cladistic Biogeography. *Geological Society of America Annual Meeting, Salt Lake City, UT, October 20, 1997*.
 2. Levels of Selection and Macroevolutionary Patterns in the Turrillid Gastropods. *North American Paleontological Convention, Chicago, IL, July 1, 1992*.
 1. Cell-lineage Drive and Macroevolutionary Patterns in the Turrillid Gastropods. *Society for the Study of Evolution Annual Meeting, Berkeley, CA, June 19, 1992*.

POPULAR TALKS

15. Museum Studies Director's Forum: Darwin, the Fossil Record, and Evolution. January 27, 2012, *University of Kansas Student Union*.
14. Science On Tap: Trilobites, Extinction, and Evolution. February 16, 2010, *Free State Brewery, Lawrence, KS*.
13. The Cambrian Explosion. January 24th, 2010, Kansas City, MO. The Kansas and Missouri Paleontological Society Second Annual Dinner and Lecture.
12. Charles Darwin: Galloping Gourmand? November 20th, 2009, Darwin Cabaret, *University of Kansas Commons*.
11. Trilobites. February 12, 2009, *Raintree Montessori School* Students, tour of Museum facilities emphasizing trilobite collections.

10. Darwin, Evolution, and the Fossil Record. Wild Science Series, *KU Natural History Museum*, February 4, 2009.
9. Cambrian Life. October 9 2008, *Raintree Montessori School*, Lawrence, KS.
8. Dinosaurs, What Did They Look Like and How Did They Evolve? October 9 2006, *Raintree Montessori School*, Lawrence, KS.
7. Fossils and Geological Time, April 25, 2005, *Raintree Montessori School*, Lawrence, KS.
6. African Dinosaurs, December 3, 2004, *New England School of Montessori*, Milford, CT.
5. Dinosaurs and other fossils. March 3, 2003, *Raintree Montessori School*, Lawrence, KS.
4. The Fossils Speak: The Evidence for Darwin's Theory. July 9, 2000, *University of Kansas Natural History Museum*.
3. The Cambrian Radiation: Investigating Biology's Big Bang. November 27, 1999, *Yale University Peabody Museum of Natural History*, New Haven, CT.
2. Trilobites and biogeography. August 29, 1999, *Kansas-Missouri Paleontological Society*.
1. Cell-lineage selection and the evolution of Tertiary gastropods. June, 1991, *New York Paleontological Society*.

TELEVISION/RADIO BROADCASTS AND MEDIA INTERVIEWS

29. "Forecasting the End of the World: Gamma Ray Burst", interview and research featured, *The Weather Channel*, television series on natural disasters, this episode featured the effects of a gamma ray burst and its possible relationship to the end Ordovician mass extinction, premiered March 21, 2013.
28. "Fossil Facebook: Digitization of Fossils Going Public", interview about NSF grant digitizing fossils, *KCUR 89.3 Kansas City*, June 26, 2012:
<http://kcur.org/post/fossil-facebook-digitization-fossils-going-public>
27. "Mysterious Sea Monster Plant Fossil Baffles Scientists", interview about new discovery of strange Ordovician fossil, *LiveScience*, April 25, 2012:
<http://www.livescience.com/19897-mysterious-sea-monster-fossil-baffles.html>
26. "Driven to extinction?", interview about work on invasive species and Late Devonian biodiversity crisis, *Columbus (Ohio) Dispatch*, January 16, 2011:
<http://www.dispatch.com/live/content/science/stories/2011/01/16/driven-to-extinction.html>
25. "Rotting fish spoil ideas about early life-forms simplicity", interview about work on Cambrian Burgess Shale type fossils in *Scientific American Online* January 31, 2010:
<http://www.scientificamerican.com/article.cfm?id=early-vertebrate-evolution>
24. "Animal Armageddon", 1st episode, interview and research featured, *Animal Planet (Discovery network)* television series on mass extinctions, this episode featured the Ordovician mass extinction and in particular our hypothesis that seeks to explain it, February 12, 2009.
23. "Evolve: Jaws", interview and research featured, *History Channel* television series on Evolution, August 12, 2008.
22. "Evolve: Eyes", interview and research featured, *History Channel* television series on Evolution, July 30, 2008.
Note, this show was nominated for an Emmy Award in the category of Outstanding Science, Technology, or Nature Programming.
21. "Gamma Ray Bursts", interview and research featured, *History Channel* television series "Mega Disasters", September 19, 2007.
20. Interview and research featured, *KSNT-TV* (NBC, Topeka), September 19, 2007, 10PM News.
19. "Rapid evolution in early trilobites fueled by high variation", *Geotimes* Web Extra, July 27, 2007, interview and comment,
www.geotimes.org/july07/article.html?id=WebExtra072707.html
18. "Do cosmic forces control life on Earth?", *MSNBC.com*, and *Space.com* April 23, 2007.
Interview and research mentioned, www.msnbc.msn.com/id/18277613 ;
www.space.com/scienceastronomy/070423_cosmic_evo.html

17. "Early Life", *Discovery Channel Radio* (SETI Radio Network), 10 minute interview on the Cambrian explosion, www.seti.org/site/pp.asp?c=ktj2j9MMIsE&b=178892, March 22, 2007.
16. "Extinctions", interview and research featured, *National Geographic Channel* television series "Naked Science", November 2, 2006.
15. "Wikipedia v. Britannica: Reader Beware", interview, *Geotimes*, April, 2006, vol. 51(4), p. 46-47.
14. "Evolution of a Controversy", interview and photograph, *Kansas Alumni Magazine*, Issue 1, 2006, p. 23-29.
13. "Teaching Biology in Kansas", interview on *KUJH-TV* (Cable, Lawrence, KS) News, November 1, 2005, 5:30PM.
12. "Gamma rays the likely cause of mass extinctions", interview, July 30, 2005, *New Scientist*.
11. "Do we live in a cosmic shooting gallery?", interview, November 2005, *Astronomy Magazine*, p.34-41.
10. "Gamma Ray Bursts and mass extinctions", interview on *KUJH-TV* (Cable, Lawrence, KS) News, November 12, 2003, 5:30PM.
9. "Move Over, Laurentia", interview in *Science*, September, 13, 2002.
8. "Nature Steps on the Gas: Is the Rate of Evolution Going to Speed Up Again?", interview and article featured in *New Scientist*, June 22, 2002.
7. "Evolution Back in Kansas", interview on Science in Action, *BBC World Service*. February 9, 2001.
6. "Fossils Support Darwin's Theory", interview and photograph, *University Daily Kansan*, July 12, 2000.
5. "Scope's Week Activities", interview, *KSHB-TV* (NBC, Kansas City) News, July 9, 2000, 5PM and 10PM.
4. "Survival of the Fittest", interview and photograph, *Kansas Alumni Magazine*, 2000 no. 1.
3. "Fossils evolving in Kansas", interview on the Leading Edge, *BBC World Service*. September 10, 1999.
2. "Evolution and Creationism", interview on Science in Action, *BBC World Service*. August 25, 1999.
1. "Horseshoe Crabs: Bluebloods of the Oceans", interview for *National Public Radio*, September, 1990.

MISCELLANEOUS

5. Back of the book review blurb for "*Bringing Fossils to Life, 3rd edition*", D. Prothero, 2013, Columbia University Press.
4. Mentioned and research described in "*American Genesis: The Evolution Controversies from Scopes to Creation Science*", J. Moran, 2012, Oxford University Press.
3. Back of the book review blurb and acknowledged on inside cover for "*Mystery Predator of the Cambrian*", J. Roach, 2007, DeepTime Press.
2. Back of the book review blurb for "*Evolution-What the Fossils Say and Why it Matters*", D. Prothero, 2007, Columbia University Press; review featured on amazon.com:
1. Mentioned and research described in "*Reinventing Darwin: The Great Debate at the High Table of Evolutionary Theory*", N. Eldredge, 1995, Wiley.

WORKING GROUPS

- 2012—present Chair, Paleontology Working Group, *iDigBio*, NSF sponsored collections network.
- 1999—2002 Member of working group studying rates of evolution, NSF sponsored *National Center for Ecological Analysis and Synthesis (NCEAS)*, University of California, Santa Barbara.

GRADUATE STUDENTS (M.S.) WHOSE COMMITTEE I HAVE CHAIRED

- 2008—2012 Sarah Spears Gibson, (co-advise with Hans-Peter Schulze), M.S.
2007—2009 Ian Wes Gapp, M.S.
2006—2008 Curtis Congreve, M.S. with Honors
2004—2005 William Keith Berry
2002—2003 Robert Randell
2001—2002 Jim Cornette, M.S. with Honors
1999—2001 Alycia Rode (now Stigall), NSF Graduate Student Fellow, M.S. with Honors,
currently Associate Professor, Department of Geology, Ohio University

GRADUATE STUDENTS (PH.D.) WHOSE COMMITTEE I HAVE CHAIRED

- 2010—present Erin Saupe, Self Graduate Fellow (co-advise with Paul Selden)
2009—present Ian Wes Gapp
2009—2013 Curtis Congreve, Ph.D. awarded Spring 2013, as of Fall 2013 Post-doc,
Pennsylvania State University
2007—2013 Corinne Myers, Madison and Lila Self Graduate Fellow, Ph.D. with honors,
awarded April 2013, as of August 2013 NASA Astrobiology Institute Post-doc, Harvard
University/MIT
2004—2010 Francine Abe (Department of Ecology and Evolutionary Biology, co-advise with
Ed Wiley), Ph.D. with honors, awarded June 2010
2001—2004 Alycia Rode (now Stigall), NSF Graduate Student Fellow and Madison and Lila
Self Fellow, Ph.D. with Honors, currently Associate Professor, Department of Geology,
Ohio University

**GRADUATE STUDENTS (PH.D.) WHOSE COMMITTEE I HAVE SERVED ON AS AN
EXTERNAL REVIEWER**

- 2008 Talia Karim, University of Iowa
2005 John Paterson, Macquarie University, Australia

POST-DOCTORAL FELLOWS MENTORED

- 2013— Michelle Casey, Ph.D. Yale University
2005—2008 Jonathan Hendricks, Ph.D. Cornell University, Currently Assistant Professor,
Department of Geology, San José State University
2005—2006 Rachel Moore, Ph.D. University of Bristol (U.K.), Currently at Wiley-Blackwell,
London, UK

GRADUATE STUDENTS (M.A.) IN MUSEUM STUDIES ADVISED

- 2011—2013 Ben Miller, Master's in Museum Studies with Honors 2013
2011—2013 Megan Perez, Master's in Museum Studies 2013
2010—2011 Cristina Chavez, Master's in Museum Studies 2011, exhibits project manager,
Corpus Christi Museum of Science and History.
2009—2011 Amanda Millhouse, Master's in Museum Studies 2011, currently collections
management staff, Department of Paleobiology, USNM.
2007—2010 Soo Hyun Kim, Master's in Museum Studies with Honors 2010, currently Ph.D.
student, University of Wisconsin.
2006—2007 Robert Elder, Master's in Museum Studies 2007, currently registrar, National
Museum of the Pacific War.
2003—2005 Erika Dickey, Master's in Museum Studies with Honors 2005.

GRADUATE STUDENTS (M.S. AND PH.D.) WHOSE COMMITTEE I HAVE SERVED ON

Joe Andrew, 1998-2002 Ph. D. awarded with honors 5/02

Rod Pellegrini, 1998-2003 M.S. awarded 12/03
 Kristina Watabe, 2001-2001 M.S. awarded 12/01
 Jess Cundiff, 1999-2001 M.S. awarded 3/01
 Tom Stanley, 1999-1999 Ph.D. with honors
 Dan Hembree, 2002-2005 Ph.D. with honors 5/05
 Tim Perkins, 2003-2004 M.S. candidate
 Sara Marcus, 1998-2002 Ph.D. candidate
 Jon Smith, 2003-2007 Ph.D. awarded 12/07
 Brian Platt, 2005-2012 Ph.D. with honors 4/12
 Emily Tremain, 2005-present M.S. candidate
 Celina Suarez, 2005-2011 Ph.D. with honors 5/11
 Marina Suarez, 2005-2009 Ph.D. with honors 8/09
 David LoBue, 2007-2009 M.S. candidate
 Alvin Bonilla, 2008-present Ph.D. candidate
 Erin Saupe, 2007-2009 M.S. with honors, 2009-2010 Ph.D. candidate
 Jul Ruth Emry, 2010-2012 M.S. candidate
 Karen Ohmes Lechtenberg, 2010-present M.S. candidate, (outside committee member,
 Department of Geology)
 James Lamsdell, 2010-present Ph.D. candidate (outside committee member, Department of
 Geology)
 Randol Wehrbein, 2010-present M.S. candidate (outside committee member, Department of
 Geology)
 Brendan Anderson, 2011-2013, M.S. awarded 6/13 (outside committee member, Department of
 Geology)
 Chris Schiele, 1998-2000 (outside committee member, Department of Ecology and
 Evolutionary Biology)
 Rafa Rodriguez, 2000-2002 (outside committee member, Department of Ecology and
 Evolutionary Biology), Ph.D. awarded 5/02
 Kevin Tang, 1998-2002 (outside committee member, Department of Ecology and
 Evolutionary Biology), Ph.D. awarded 9/02
 Nancy Holcroft, 2000-2002 (outside committee member, Department of Ecology and
 Evolutionary Biology)
 Stylianos Chatzimanolis, 2000-2004 (outside committee member, Department of Ecology
 and Evolutionary Biology), Ph.D. awarded 5/04
 Kathryn Mickle, 2006-2012 (outside committee member, Department of Ecology
 and Evolutionary Biology), Ph.D. awarded with honors 4/12
 Brian Thomas, 2005-2005 (outside committee member, Department of Physics and
 Astronomy), Ph.D. awarded with honors 5/05
 Eli Greenbaum, 2005-2006 (outside committee member, Department of Ecology
 and Evolutionary Biology), Ph.D. awarded with honors 1/06
 Harim Cha, 2002-2007 (outside committee member, Department of Ecology and
 Evolutionary Biology)
 Anna Clark, 2004-2007 (outside committee member, Department of Ecology and
 Evolutionary Biology), Ph.D. awarded 7/07
 Shannon Devaney, 2004-2008 (outside committee member, Department of Ecology and
 Evolutionary Biology), Ph.D. awarded fall 2008
 Dan Williams, 2005-2009 (outside committee member, Department of Ecology and
 Evolutionary Biology), Ph.D. awarded 8/09
 Daniel Bennett, 2006-2010 (outside committee member, Department of Ecology and
 Evolutionary Biology), Ph.D. awarded with honors 5/10
 Matt Davis, 2007-2009 (outside committee member, Department of Ecology and
 Evolutionary Biology), Ph.D. awarded with honors 12/09
 Joanna Cielocha, 2009-2013 (at first outside committee member, then Department of Ecology and

Evolutionary Biology), Ph.D. awarded with honors 4/13
Choru Shin, 2010-present (at first outside committee member, then Department of Ecology and Evolutionary Biology)
Crystal Maier, 2011-present (at first outside committee member, then Department of Ecology and Evolutionary Biology)
K. Taro Eldredge, 2010-2013 (at first outside committee member, then Department of Ecology and Evolutionary Biology)
Mabel Alvarado, 2013-present, Ph.D. candidate
Stephen Baca, 2013-present, M.S. candidate
Cory Hills, 2007-2011 (outside committee member, Department of Music), DMA with Honors awarded 3/11
Sarah Reynolds, 2007-present (outside committee member, Department of Physics and Astronomy)
Drew Overholt, 2011-2013 (outside committee member, Department of Physics and Astronomy), Ph.D. with honors awarded 3/13

UNDERGRADUATES MENTORED

2008 Lyle Hansen, Creative Campus Student Project Grant award for project “An Evolution of Perception”
2006 Katie Nold, Geology 399 (currently a graduate student in the Department of Geology, Indiana University)
2005 Christopher Thomas Reinhard, spring of 2005, Undergraduate Research Opportunity, Department of Ecology and Evolutionary Biology (currently a graduate student in the Department of Geology, University of California, Riverside)
2004 Luis Vargas, Undergraduate Research Award, KU Honors Program
2000—2002 Deanna Morris, for NSF OPP project

RECOGNITION FOR TEACHING

Invited to Faculty Food for Thought- Fall 2005-2010
Invited to Majors Dinner, Scholarship Hall- Fall 2010
Center for Teaching Excellence Award for excellence in graduate education- Spring 2007

PROFESSIONAL SERVICE

Grant panels, NSF workshops and related:

2012 Integrated Digitized Biocollections (iDigBio) Paleo Workshop, Florida Museum of Natural History, Gainesville, FL, April 26-28, 2012.
2009 NSF Future directions in Biodiversity and Systematics Workshop, NESCent, Durham, NC, September 8-11, 2009.
2008 Panelist for NSF Assembling the Tree of Life (AToL), May 19-20, 2008.
2007 Panelist for NSF Systematic Biology & Biotic Surveys and Inventories, October 22-24, 2007.

Grants reviewed for: *American Chemical Society; American Philosophical Society; Louisiana Board of Regents; National Environmental Research Council (U.K.); National Science Foundation Geology and Paleontology/Sedimentary Geology and Paleobiology; National Science Foundation Earth Sciences Major Research Instrumentation (MRI); National Science Foundation Office of Polar Programs; National Science Foundation Systematic Biology and Biodiversity Inventories; Romanian National Council for Scientific Research; South African National Research Foundation; Swiss National Science Foundation.*

Editorships and editorial boards:

2010—2011	Palaeontology article of the future project, <i>Palaeo3</i>
2009—present	Editorial board, <i>Lethaia</i>
2007—present	Editorial board, <i>Evolution: Education and Outreach</i>
2007—2012	Editorial board, <i>Open Access Paleontology</i>
2007—present	Associate Editor, <i>Journal of Paleontology</i>
2007—2012	Associate Coordinating Editor, <i>Treatise on Invertebrate Paleontology</i> , Trilobita
2006—2008	Associate Editor, <i>Palaios</i>
2005—2006	Coordinating Editor, <i>Treatise on Invertebrate Paleontology</i> , Trilobita
2002—2005	Associate Coordinating Editor, <i>Treatise on Invertebrate Paleontology</i> , Trilobita
1999—2002	Associate Editor, <i>Transactions of the Kansas Academy of Science</i>
1998—present	Associate Editor, <i>Paleontological Contributions of the University of Kansas</i>

Journal articles reviewed for 42 different journals: *American Malacological Bulletin*; *American Museum of Natural History publications*; *Annals of the Carnegie Museum of Natural History*; *Memoirs of the Association of Australasian Palaeontologists*; *BMC Evolutionary Biology*; *Bulletin de l'Institut Royal des Sciences naturelles de Belgique, Sciences de la Terre*; *Bulletin of the Geological Society of Denmark*; *Bulletins of American Paleontology*; *Canadian Journal of Earth Sciences*; *Current Biology*; *Ecography*; *Evolution*; *Evolution: Education and Outreach*; *Evolutionary Biology*; *Geobios*; *Geological Journal*; *Geological Magazine*; *Geological Society of America Memoirs*; *Geology*; *Geosphere*; *Gondwana Research*; *Hydrobiologia*; *Journal of Biogeography*; *Journal of Paleontology*; *Journal of Systematic Palaeontology*; *Malacological Review*; *Memoirs of the Association of Australasian Palaeontologists*; *Molecular Phylogenetics and Evolution*; *Naturwissenschaften*; *Neues Jahrbuch für Geologie und Paläontologie*; *Open Paleontology Journal*; *Palaeogeography, Palaeoclimatology, and Palaeoecology*; *Palaios*; *Paleobiology*; *Palaeontology*; *PLoS One*; *Proceedings of the Royal Society, Biological Sciences*; *Revista Brasileira de Paleontologia*; *Scholarpedia*; *Science*; *Sedimentary Record*; *Theory in Biosciences*.

Books reviewed for: *American Journal of Science*; *American Paleontologist*; *BioScience*; *New York Times Review of Books*; *Palaeontological Association*; *Palaeontologia Electronica*; *Palaios*; *Quarterly Review of Biology* (for titles see above).

Advisor for book projects to: *Wiley-Blackwell Scientific*; *Columbia University Press*; *Oxford University Press*; the *Systematic's Association*, UK; *Topics in Geobiology Book Series*, *Springer Publishing*; *Four A's Publishing* (El Dorado, CA).

Major national and international service:

2006—present	Treasurer and Executive Officer, <i>International Palaeontological Association</i>
2012—present	Internal Advisory Committee, <i>Integrated Digitized Biocollections (iDigBio)</i> https://www.idigbio.org/
2006—2009	<i>United Nations, International Year of Planet Earth</i> – Scientific Implementation Team – Earth and Life – Origins of Diversity
2005—2007	Advisory committee for <i>Treatise on Invertebrate Paleontology</i> to the <i>Geological Society of America</i> Annual Meeting,
2005—2011	<i>Paleontological Society</i> Committee on Fellowship
2010	Science committee, <i>International Palaeontological Congress (IPC3)</i> , London, UK, June 28-July 3, 2010

Evaluation of promotion and tenure files:

- 2011 Outside evaluator for Promotion to Full Professor, Department of Earth Sciences, *Syracuse University*
- 2009 Outside evaluator for Tenure file, Department of Geological Sciences, *University of Wisconsin, Milwaukee*
- 2009 Outside evaluator for Tenure file, Department of Earth Sciences, *University of New England, Australia*
- 2007 Outside evaluator for Tenure file, *American Museum of Natural History, New York City*
- 2005 Outside evaluator for Tenure file, Department of Geological Sciences, *University of Florida*
- 2001 Outside evaluator for Promotion to Full Professor file, Department of Geology, *University of Texas, Arlington*

Service for state and local governments:

- 2010 Provided input on legislative issue relating to paleontological resources for *Nevada state legislature*
- 2009 Evaluated status of trilobites for *U.S. Customs*, Orlando, Florida
- 2005 Evaluated sensitivity of paleontology resources in Cherokee County, KS for *BHE Environmental, Inc.*

Meeting organizer:

- 2007 Organized Symposium at *Geological Society of America* Joint North Central/South Central Sectional Meeting, Roger L. Kaesler-Scientist and editor: his contributions to paleontology through research and the Treatise on Invertebrate Paleontology (S2). Sponsored by the *Paleontological Society*, Lawrence, KS, April 12, 2007.
- 2005 Co-organizer for *Paleontological Society* short course at *Geological Society of America Annual meeting*.
- 2002 Organized Topical Session at *Geological Society of America Annual Meeting*, Paleobiogeography: Integrating Plate Tectonics and Evolution (T81). Sponsored by the *Paleontological Society*, Denver, CO, October 28, 2002.

Miscellaneous:

- 2012 Expert catalyst for *Synectics World* www.synecticsworld.com corporate innovation session working with a Fortune 500 health care company. Topic on paleontology and attainable vs. unattainable, January 4th.
- 2008—2009 *Paleontological Society* Student Posters Award Evaluator, *Geological Society of America Annual Meeting*
- 2000—2010 Ballot canvas committee, *Paleontological Society*
- 1997, 2000, 2001, 2007 *Geological Society of America Annual Meetings* Session Chair

UNIVERSITY AND DEPARTMENT/MUSEUM COMMITTEES AND SERVICE

- 2013—present Annual Faculty Evaluation Committee, Department of Ecology & Evolutionary Biology
- 2013—present Web Page Development Committee, Department of Ecology & Evolutionary Biology
- 2013 Guest lecture, *Biology 428*, Introduction to Systematics, Spring
- 2013 Panorama Grants Committee, Spring, Biodiversity Institute
- 2012—present University Core Curriculum Committee
- 2012—present University Committee on Sabbatical Leaves
- 2012 Workshop on assessing the KU Core Curriculum
- 2012—2013 Graduate Program Committee, Department of Ecology & Evolutionary Biology

2012—present Undergraduate Biology Program Steering Committee, Department of Ecology & Evolutionary Biology

2012—present Museum Studies Planning Committee

2011—2012 Search committee member, Director of Museum Studies search

2011—2012 Undergraduate studies committee, Department of Geology

2010 Fossil field trip, Southwest Junior High

2009—2011 Biodiversity Institute Strategic Research Planning Committee

2009—2010 Biodiversity Institute Promotions Committee

2009 Chairman, Chair search, Department of Geology

2008—present Museum Studies Admissions Committee

2008 Guest lecture, NSF C-Change *IGERT* class

2009, 2011, 2012 Guest lecture, *Biology 550* Systematics class

2007 Tour of Natural History Museum for SACNAS (Society for Advancement of Chicanos and Native Americans in Science) visit to KU

2007—2012 Museum Studies Advisory Council

2007—2008 Search committee member, Extragalactic Observer search, Department of Physics and Astronomy

2007—present UKAN Teach Program Faculty Advisory Council

2007—2008 Documenting Undergraduate Learning

2007 Panorama Grants Committee, Biodiversity Research Center

2007 General Education Assessment Interviewer

2007—2011 Promotion and Tenure Committee, Department of Geology

2006—2007 Search committee member, Systematic Entomologist search, Department of Ecology and Evolutionary Biology

2006 Assisted with section on trilobites for Kansas Geological Survey Educational Series 16, “Windows to the Past: A guidebook to common invertebrate fossils of Kansas” by Liz Brosius

2005—2006 Chairman, Distinguished Professor in Invertebrate Paleontologist search, Department of Geology

2005—2006 Search committee member, Paleobiogeochemistry search, Department of Geology

2005—2006 Search committee member, Theoretical Systematist search, Department of Ecology and Evolutionary Biology

2005—2010 Chairman, Undergraduate studies committee, Department of Geology

2005—2009 Paleo. Club Faculty Advisor

2005 University Majors fair for high school students

2005, 2009, 2011 University Majors fair

2005 Co-organizer, KU Evolutionists’ society meeting and talks series

2004—present Teaching evaluations for Department Promotion and Tenure Committee

2003—2004 Geology Department Seminar Coordinator

2003 Department of Geology Open House

2003 South Junior High (Lawrence) Career Day volunteer

2003 Chairman, Chair search, Department of Geology

2003 Search committee member, Chair search, Department of Ecology and Evolutionary Biology

2002—2005 University Distinguished Professor Committee

2002 Search committee member, Chair search, Department of Ecology and Evolutionary Biology

2001—2009 Library committee (sole member), Department of Geology

2000—2004 Commencement Marshall

2000—2001 Search committee member, Paleoecology search, Department of Geology

1999—2004 Undergraduate studies committee, Department of Geology
1999 Search committee member, Plant Systematist search, Department of Ecology and
Evolutionary Biology

PROFESSIONAL SOCIETIES

American Geological Institute
Geological Society of America
International Biogeography Society
International Palaeontological Association
Kansas Academy of Science
Paleontological Research Institution
Paleontological Society
Sigma Xi
Society of Integrative and Comparative Biology
Society of Systematic Biologists