

ALYCIA L. STIGALL

Associate Professor

Department of Geological Sciences, Ohio University

316 Clippinger Laboratories, Athens, OH, 45701

phone: (740) 593-0393 fax: (740) 593-0486

email: stigall@ohio.edu

EDUCATION

Ph.D. Geology, The University of Kansas, *with honors*, May 2004, thesis advisor Bruce S. Lieberman.

Thesis title: "Invasive species and biodiversity decline: Investigating the connection between biogeographic and evolutionary patterns during the Late Devonian biodiversity crisis"

M.S. Geology, The University of Kansas, *with honors*, May 2001, thesis advisor Bruce S. Lieberman.

Thesis title: "Invasive species and mass extinction: A phylogenetic and biogeographic study of the subclass Phyllocarida (Class Crustacea) during the Late Devonian biodiversity crisis"

B.S. Geological Sciences, The Ohio State University, *summa cum laude, with distinction in geological sciences, with honors in the liberal arts*, June 1999, thesis advisor Loren E. Babcock. Thesis title: "Phylogeny of Freshwater Crayfish"

B.S. Biology, The Ohio State University, *summa cum laude*, June 1999

PROFESSIONAL EXPERIENCE

Associate Professor, Ohio University, Department of Geological Sciences, September 2009 to present

Assistant Professor, Ohio University, Department of Geological Sciences, September 2004 to August 2009

Member, OHIO Center for Ecology and Evolutionary Studies, October 2006 to present

Member of Graduate Faculty, Ohio University, Ecology and Evolutionary Biology Program, September 2004 to present

Visiting Researcher, Yale University, Department of Geology and Geophysics, March to May, 2005

Post-doctoral Researcher, The Ohio State University, Department of Geological Sciences, June to August 2004

Adjunct Instructor, Washburn University, Department of Physics and Astronomy, June 2002 to May 2003

Graduate Teaching Associate, University of Kansas, Department of Geology, January to May 2000

Student Instructional Assistant, The Ohio State University, Department of Geological Sciences, September 1997 to March 1999

Student Research Assistant, The Ohio State University, Department of Biochemistry, March 1996 to June 1997

COURSES TAUGHT

Principles of Paleontology	Geol 341/541	Introduction to Geology	Geol 101
Earth and Life History	Geol 221	Historical Geology	Geol 255
Paleobiogeography	Geol 443/543	Paleoecology	Geol 448/548
Carbonate Depositional Systems I (lecture/lab) and II (field course)	Geol 454/554 and Geol 454A/554A		

GRANTS PENDING

"Lava, lakes, and life: Assessing the development of Jurassic lake ecosystems in Namibia." \$17,500, submitted to the National Geographic Society, 3/2008, co-PI Elizabeth Gierlowski-Kordesch pre-proposal approved for full proposal submission.

"ATOL: ACTol: Assembling the Cephalopod Tree of Life." \$2,999,298, submitted to the National Science Foundation, 3/2009, co-PI with PI Margaret Yacobucci (Bowling Green), co-PI Royal Mapes (OU), co-PI Michelle Nishiguchi (New Mexico State Univ.), co-PI Mike Vecchione (Smithsonian).

GRANTS AND FELLOWSHIPS AWARDED

- "The biogeographic impact of the Late Ordovician Richmondian Invasion: Assessing faunal dynamics by combining niche modeling and evolutionary history of Cincinnati brachiopods." \$152,000, National Science Foundation, 9/2009-8/2014.
- "Curatorial assistant for a newly acquired Cincinnati fossil collection." \$2230, Ohio University Program to Aid Career Exploration (PACE), 9/2009-6/2010.
- "Assessing the long term impacts of invasive species by analyzing biogeographic change in the fossil record: A case study from the Richmondian Invasion (Late Ordovician) in the Cincinnati, Ohio Region." \$12,000, Ohio University Baker Fund, 7/2008-6/2009.
- "Mapping and outreach development for Cincinnati fossils." \$2150, Ohio University Program to Aid Career Exploration (PACE), 9/2008-6/2009.
- "Using genetic algorithm modeling of sedimentary parameters to predict geographic ranges of species," \$50,000, American Chemical Society, Petroleum Research Fund, 6/2008-6/2010.
- Ohio University International Travel Fund Award, 2006, 2007, \$400 each
- "Using genetic algorithm modeling of sedimentary parameters to predict geographic ranges of species". \$5000, Ohio University Research Challenge, 9/2007-8/2008.
- "GIS and web-design for Cincinnati fossils", Ohio University Program to Aid Career Exploration (PACE), \$2100, 9/2007-6/2008.
- "Quantifying the Geographic Range of Late Devonian Species Using GIS and Niche Modeling Methods: Deciphering the Mechanics of Species Movement during a Mass Extinction Interval". \$5000, Ohio University Research Challenge, 6/2005-6/2006.
- "Investigating the connection between species invasions and speciation mode using GIS and phylogenetics during the Late Ordovician Mass Extinction," \$7405, Ohio University Research Council, 6/2005-6/2006.
- "Testing the Record of Climate Change in the Late Pennsylvanian of Southeastern Ohio," Co-PI with G. Nadon, \$25,000, Ohio University Post-doctoral Fellowship Program, 6/2005-6/2006.
- Madison and Lila Self Graduate Fellowship, University of Kansas, 2001-2005, \$125,000
- National Science Foundation Graduate Research Fellowship, 1999-2002, \$84,000
- Grinnell Fellowship, Department of Geology, University of Kansas, 1999-2004, \$20,000

AWARDS AND HONORS

- Outstanding Service Award, Department of Geological Sciences, Ohio University, 2009
- Outstanding Teaching Award, Department of Geological Sciences, Ohio University, 2008, 2009
- Nominated by the College of Arts and Sciences for the Class of 1950 Faculty Excellence Award, Ohio University, 2008
- Outstanding Researcher of the Year, Department of Geological Sciences, Ohio University, 2006
- Outstanding Teacher of the Year, Department of Geological Sciences, Ohio University, 2006
- Antarctic Service Medal of the United States of America, 2006
- Erasmus S. Haworth Distinguished Graduate Award, Ph.D. Level, University of Kansas Department of Geology, 2004
- Erasmus S. Haworth Distinguished Graduate Award, M.S. Level, University of Kansas Department of Geology, 2002

PROFESSIONAL SERVICE

- Paleontological Society Nominating Committee, 2008-2011
- Member of the Organizing Committee for the 2009 North American Paleontological Conference
- Paleontological Society North Central Section Chair, 2006-2007
- Geological Society of America Campus Representative to Ohio University, 2006 to present
- Member of the Paleobiology Database, 2005 to present
- Associate Editor of *Palaeontologica Electronica*, 2005 to present

Chair for technical sessions at GSA meetings in 2004, 2007, 2008
 Participant in the International Geosciences Programme (IGCP) Project 503: Ordovician Paleogeography and Paleoclimate, 2005 to present
 Participant in the International Geosciences Programme (IGCP) Project 499: Devonian Land-Sea Interaction: Evolution of Ecosystems and Climate, 2005 to present
 Journal article reviews for *Journal of Paleontology*, *PALAIOS*, *Palaeogeography*, *Palaeoclimatology*, and *Palaeoecology*, *Journal of Biogeography*, *Paleontographica Americana*, *Neues Jahrbuch für Geologie und Paläontologie*
 Proposal review for NSF- Sedimentary Geology and Paleobiology Program
 Textbook review for W.H. Freeman, McGraw Hill, Wiley Publishers
 Student Representative to Paleontological Society Council, 2002-2003
 Secretary of Osage Chapter of Association for Women in Geosciences, 2000-2002
 Treasurer of Alpha Chapter of Sigma Gamma Epsilon and Geology Club 2000-2001

PROFESSIONAL SOCIETIES

Geological Society of America	Paleontological Society
International Biogeography Society	Society for Sedimentary Geology (SEPM)
Palaeontological Association	

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

Richard Malizia	2009-	Testing niche evolution in Late Ordovician brachiopods
Nicole Dudei	2007-2009	The impact of the Richmondian Invasion on paleobiogeographic distribution of taxa in the Late Ordovician C4 sequence (Richmondian Stage, Cincinnati, Ohio) including a comparison of range reconstruction methods
Robert Swisher	2007-2009	Paleobiogeographical and evolutionary analysis of Late Ordovician C5 sequence brachiopod species with special reference to rhynchonellid taxa
Bradley Walls	2007-2009	Quantitative paleobiogeography of Maysvillian (Late Ordovician) brachiopod species on the Cincinnati Arch: A test of niche modeling methods for paleobiogeographic reconstruction
Kaitlin Clare Maguire	2006-2008	Paleobiogeography of Miocene to Pliocene Equinae of North America: A phylogenetic biogeographic and niche modeling approach
Brandon Klingensmith	2005-2007	GIS-based biogeography of Cincinnati (Upper Ordovician) brachiopods with special reference to <i>Hebertella</i>

UNDERGRADUATES MENTORED

Emily Callahan	2008-2009	Paleoecology of the Cincinnati Series (Upper Ordovician): A study of diversity and community structures; BS Honors thesis
Kristen Everman	2006-2007	Characterizing Jurassic Spinicaudata of Antarctica: Systematic and Paleoecological Implications; BS thesis
Tom Cullinan	2004-2005	Jurassic insects of Antarctica
Doug Roberts	2005	Population structure of Jurassic conchostracans of Antarctica
Maura Yates	2005	Ontogeny in Jurassic conchostracans of Antarctica

RESEARCH FUNDING RECEIVED BY STUDENTS FOR PROJECTS UNDER MY SUPERVISION

2008 Kaitlin Clare Maguire, OHIO Center for Ecology and Evolutionary Studies Fellowship, \$4100
 Nicole Dudei, Geological Society of America, Students Grants in Aid, \$1000
 Nicole Dudei, Geology Alumni Research Grant, Ohio University, \$250
 Robert Swisher, Geological Society of America, Students Grants- in-Aid, \$1160
 Robert Swisher, Geology Alumni Research Grant, Ohio University, \$250

- Bradley Walls, Geological Society of America, Students Grants- in-Aid, \$600
 Bradley Walls, Paleontological Society Boucot Student Research Grant, \$750
 Bradley Walls, Geology Alumni Research Grant, Ohio University, \$450
 2007 Kaitlin Clare Maguire, Geological Society of America, Students Grants in Aid, \$500
 Kaitlin Clare Maguire, Geology Alumni Research Grant, Ohio University, \$525
 Brandon Klingensmith, First Place, Ohio University Student Creativity and Research Fair,
 Geological Sciences and Geography Division, \$400
 Kristen Everman, Outstanding Undergraduate Oral Presentation, Joint Meeting of the North-
 Central and South Central GSA, \$150
 2006 Brandon Klingensmith, Geological Society of America, Students Grants in Aid, \$1400
 Brandon Klingensmith, Geology Alumni Research Grant, Ohio University, \$350
 Kristen Everman, Ohio University Provost's Undergraduate Research Fund, \$1410
 Kristen Everman, North Central Section of GSA, Undergraduate Research Grant, \$300

UNIVERSITY COMMITTEES AND SERVICE

Baker Fund Committee, 2008-2011
 Undergraduate Advising Coordinator, Department of Geological Sciences, 2009-present
 Geology Club Advisor, Department of Geological Sciences, 2008-present
 Geology Department Newsletter Editor 2008-present
 Petrology Search Committee, Department of Geological Sciences, 2008-2009
 Geological Sciences Alumni Graduate Research Grant Committee, Department of Geological Sciences,
 Chair 2005-2007, 2008-2009
 Sturgeon Visiting Professor Committee, Department of Geological Sciences, 2007-2008
 Faculty Fellowship Leave Committee, Department of Geological Sciences, 2007-2008
 Hydrogeology Search Committee, Department of Geological Sciences, 2007-2008
 Advisory Council Member, OHIO Center for Ecology and Evolutionary Studies, 2006-present
 Chair, Colloquium Committee, Department of Geological Sciences, 2006-present
 Colloquium Committee, Department of Geological Sciences, 2005-2006
 Undergraduate Recruiting Committee, Department of Geological Sciences, 2005-2006
 Web Page Committee, Department of Geological Sciences, 2004-2005

COMMUNITY SERVICE

Created educational poster about Pennsylvanian fossils in the Kohl's Ranch Area of Arizona for Kohl's
 Ranch Educational Outreach Program
 Presented "Tracking species through space and time: How species invasions contributed to the Late
 Devonian Biodiversity Crisis" for the Dry Dredgers, a Cincinnati association of amateur fossil
 collectors, April 2008
 Member of "The Clergy Letter Project", a group of scientists who volunteer to serve as resources for
 clergy members to learn the scientific basis of evolution, 2007- present
 Presented, "Life, death, and fossilization in the Jurassic ponds of Antarctica" for the Athens Public
 Library, November 2007
 Participant in faculty panel discussion following public viewing of "An Inconvenient Truth" at Ohio
 University, February, 2007. Event sponsored by Ohio University Office of Resource Conservation.
 Presented "Oceans: Now and in the Past" for Addaville (Ohio) Elementary School Right to Read Week,
 Presentations for each grade K-4, May 2006
 Speaker for Annual Women in Science and Engineering Program for 5th to 8th grade students, Ohio
 University, 2005-2006
 Judge for the Southeast Ohio Regional Science Fair, 2006-present
 Guest speaker for elementary and middle school science classrooms in the Athens, Ohio area, 2004-
 present

BIBLIOGRAPHY

*Last name formerly Rode

Journal Citation Index and number of times paper cited are indicated in parentheses after publication in bold and italics, respectively (updated 11/11/2008); Mean Citation Index for paleontology journals is 0.843.

Books

Lieberman, B.S., and **Stigall Rode, A.L.**, editors. 2005. Paleobiogeography: Generating New Insights into the Coevolution of the Earth and Its Biota. The Paleontological Society Papers, volume 11, 158 p.

Peer-reviewed journal articles ([†] indicates student author)

Articles in preparation:

O'Connor, P.M., **Stigall, A.L.**, and Stevens, N. In prep. Comparative biogeographic approach to assessing the paleobiogeography of Cretaceous Gondwana vertebrates. To be submitted to *Cretaceous Research*.

Stigall, A. L., Babcock, L.E., and Leslie, S.A. In prep. Ontogenetic changes in the microstructure of Jurassic cyzicid conchostracans (Crustacea, Branchiopoda, Spinicaudata) from Antarctica. To be submitted to *Lethaia*.

Stigall, A.L., and [†]Smith, J.E. GIS-based analysis of brachiopod biogeography in the type Cincinnati. To be submitted to *Paleontologica Electronica*.

Stigall, A.L. Speciation decline during the Late Devonian Biodiversity Crisis related to species invasions. To be submitted to *Science*.

[†]Swisher, R.E., and **Stigall, A.L.** Phylogenetic analysis of the Late Ordovician brachiopod genera, *Lepidocyclus*, *Hypsiptycha*, and *Hiscobeccus* (Order Rhynchonellida). To be submitted to *Journal of Paleontology*.

Articles in review:

[†]Dudei, N.L., and **Stigall, A.L.** In review. An ecological niche modeling approach to assess biogeographic response of brachiopod species during the Richmondian (Late Ordovician) Invasion in the Cincinnati Arch. *Palaeogeography, Palaeoclimatology, Palaeoecology*. Submitted 6/2009.

[†]Swisher, R.E., and **Stigall, A.L.** In review. Paleobiogeographic analysis of Richmondian (Late Ordovician) brachiopod species in the Cincinnati Arch region using Ecological Niche Modeling. *Palaeogeography, Palaeoclimatology, Palaeoecology*. Submitted 6/2009.

[†]Walls, B.J., and **Stigall, A.L.** In review. Distribution of brachiopod species of the Cincinnati Arch during the Late Ordovician: A niche modeling approach. *Paleobiology*. Submitted 6/2009.

[†]Walls, B.J., and **Stigall, A.L.** In review. A field based analysis of the accuracy of niche models applied to the fossil record. *Journal of Biogeography*. Submitted 5/2009.

Articles published or in press:

17) [†]Maguire, K.C., and **Stigall, A.L.** Accepted. Distribution of fossil horses in the Great Plains during the Miocene and Pliocene: An ecological niche modeling approach. *Paleobiology* (**3.225**).

- 16) **Stigall, A.L.** 2008. *Bicarinellata* a new name for *Bicarinella* Rode, Lieberman, and Rowell 2003 (Arthropoda, Bradoriida) preoccupied by *Bicarinella* Waterhouse 1966 (Mollusca, Gastropoda) and *Bicarinella* Akopyan 1976 (Mollusca, Gastropoda). *Journal of Paleontology*, 82(6): 1219. **(1.087)**
- 15) [†]Maguire, K.C., and **Stigall, A.L.** 2008. Paleobiogeography of Miocene Equinae of North America: A phylogenetic biogeographic analysis of the relative roles of climate, vicariance, and dispersal. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 267: 175-184. doi: 10.1016/j.palaeo.2008.06.014. **(2.162)**
- 14) **Stigall, A.L.**, and Hartman, J.H. 2008. A new spinicaudatan genus (Crustacea: "Conchostraca") from the Late Cretaceous of Madagascar" *Palaeontology*, 51(5): 1053-1067. **(1.025)**
- 13) Hendricks, J.R., Lieberman, B.S., and **Stigall, A.L.** 2008. Using GIS to study the paleobiogeographic and macroevolutionary patterns in soft-bodied Cambrian arthropods. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 264:163-175. doi:10.1016/j.palaeo.2008.04.014. **(2.162)**
- 12) **Stigall, A.L.**, Babcock, L.E., Briggs, D.E.G., and Leslie, S.A. 2008. Taphonomy of lacustrine interbeds in the Kirkpatrick Basalt (Jurassic), Antarctica. *Palaios*, 23(4): 344-355. doi:10.2110/palo.2007.p07-029r. **(1.919)**
- 11) **Stigall, A.L.**, and Hendricks, J.R. 2007. First report of a concavicularid interior (Crustacea: Thylacocephala) from the Devonian of North America. *Northeastern Geology and Environmental Science*, 29(2), 102-106.
- 10) Babcock, L.E., **Stigall, A.L.**, Leslie, S.A., Ford, L.A., Elliott, D., and Briggs, D.E.G. 2006. The "Preservation Paradox": Microbes as a Key to Exceptional Fossil Preservation in the Kirkpatrick Basalt (Jurassic), Antarctica. *The Sedimentary Record*, 4(4): 4-8.
- 9) **Stigall, A.L.**, and Lieberman, B.S. 2006. Quantitative Paleobiogeography: GIS, Phylogenetic Biogeographic Analysis, and Conservation Insights. *Journal of Biogeography*, 33 (12): 2051-2060. doi:10.1111/j.1365-2699.2006.01585.x. **(2.878, 5)**
- 8) **Stigall Rode, A.L.**, and Lieberman, B.S. 2005. Paleobiogeographic patterns in the Middle and Late Devonian emphasizing Laurentia. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 222 (3-4): 272-284. doi:10.1016/j.palaeo.2005.03.018. **(1.899, 2)**
- 7) **Stigall Rode, A.L.** 2005. Systematic revision of the Devonian brachiopods *Schizophoria* (*Schizophoria*) and "*Schuchertella*" from North America. *Journal of Systematic Palaeontology*, 3(2): 133-167. doi: 10.1017/S1477201905001537. **(1.156, 2)**
- 6) **Rode, A.L.**, and Lieberman, B.S. 2005. Integrating biogeography and evolution using phylogenetics and PaleoGIS: A case study involving Devonian crustaceans. *Journal of Paleontology*, 79(2): 267-276. doi: 10.1666/0022-3360(2005)079(0267:IEABAC)2.0.CO;2. **(0.960, 5)**
- 5) **Rode, A.L.**, and Lieberman, B.S. 2004. Using GIS to unlock the interactions between biogeography, environment, and evolution in Middle and Late Devonian brachiopods and bivalves. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 211(3-4): 345-359. doi: 10.1016/j.palaeo.2004.05.013 S0031-0182(04)00300-1. **(1.974, 10)**
- 4) **Rode, A.L.** 2004. Phylogenetic revision of the Devonian bivalve, *Leptodesma* (*Leiopteria*). *Yale University Postilla*, 229: 1-26. **(2)**
- 3) **Rode, A.L.**, Lieberman, B.S., and Rowell, A.J. 2003. A new Early Cambrian bradoriid (Arthropoda) from East Antarctica. *Journal of Paleontology*, 77(4): 693-699. doi: 10.1043/0022-3360(2003)077(0691:ANECBA)2.0.CO;2. **(0.922, 3)**
- 2) **Rode, A.L.**, and Babcock, L.E. 2003. Phylogeny of freshwater crayfish and some related lobster groups. *Journal of Crustacean Biology*, 23(2): 418-435. doi: 10.1043/0278-0372(2003)023(0418:POFAEF)2.0.CO;2. **(0.865, 8)**

- 1) **Rode, A.L.**, and Lieberman, B.S. 2002. Phylogenetic and biogeographic analysis of Devonian phyllocarid crustaceans. *Journal of Paleontology*, 76(2): 269-284. doi: 10.1043/0022-3360(2002)076(0271:PABAOD)2.0.CO;2.(0.856, 11)

Peer-reviewed Chapters in Edited Volumes

- 5) **Stigall, A.L.** 2009. Integrating GIS and phylogenetic biogeography to assess species-level biogeographic patterns: A case study of Late Devonian faunal dynamics. *In* P. Upchurch, A. McGowan, and C. Slater, (eds.), *Palaeogeography and Palaeobiogeography: Biodiversity in Space and Time*. CRC Press, expected publication March, 2009.
- 4) **Stigall, A.L.** 2008. Tracking species in space and time: Assessing the relationships between paleobiogeography, paleoecology, and macroevolution, p. 227-242. *In* P. H. Kelly and R. K. Bambach (eds.) *From Evolution to Geobiology: Research Questions Driving Paleontology at the Start of a New Century*. The Paleontological Society Papers, volume 14.
- 3) **Stigall Rode, A.L.**, and Lieberman, B.S. 2005. Using environmental niche modelling to study the Late Devonian biodiversity crisis, p. 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. (2)
- 2) Lieberman, B.S., and **Stigall Rode, A.L.** 2005. Paleobiogeography: tracking the coevolution of the earth and its biota, p. 1-3. *In* B.S. Lieberman and A.L. Stigall Rode (eds.) *Paleobiogeography: Generating New Insights into the Coevolution of the Earth and Its Biota*. The Paleontological Society Papers, volume 11.
- 1) **Stigall Rode, A.L.** 2005. The application of Geographic Information Systems to paleobiogeography: Implications for the study of invasions and mass extinctions, p. 77-88. *In* B.S. Lieberman and A.L. Stigall Rode (eds.) *Paleobiogeography: Generating New Insights into the Coevolution of the Earth and Its Biota*. The Paleontological Society Papers, volume 11. (2)

Published Abstracts († indicates student author)

- 37) †Dudei, N.L., and **Stigall, A.L.** 2009. Assessing biogeographic response of brachiopod species during the Richmondian (Late Ordovician) Invasion in the Cincinnati Arch using ecological niche modeling. 9th North American Paleontological Convention Abstracts. Cincinnati Museum Center Scientific Contribution Series, 3: 355-356.
- 36) †Swisher, R.E., and **Stigall, A.L.** 2009. Coordinated brachiopod species trends in the Cincinnati Arch following the Late Ordovician Richmondian Invasion, demonstrated through quantitative paleobiogeographic methods. 9th North American Paleontological Convention Abstracts. Cincinnati Museum Center Scientific Contribution Series, 3: 420-421.
- 35) †Walls, B.J., and **Stigall, A.L.** 2009. Utilization of ecological niche modeling methods to assess quantitative paleobiogeographic patterns of Maysvillian (Late Ordovician) brachiopod species of the Cincinnati Arch. 9th North American Paleontological Convention Abstracts. Cincinnati Museum Center Scientific Contribution Series, 3: 356-357.
- 34) **Stigall, A.L.** 2009. The biogeographic impact of species invasions on native brachiopods during the Richmondian Invasion (Late Ordovician, Cincinnati region). 9th North American Paleontological Convention Abstracts. Cincinnati Museum Center Scientific Contribution Series, 3: 176.
- 33) †Maguire, K.C., and **Stigall, A.L.** 2009. Ecological niche modeling of equids in the Great Plains during the Miocene. Abstracts with Programs, International Biogeography Society, Fourth Biennial Conference, xxx.
- 32) †Maguire, K.C., and **Stigall, A.L.** 2008. Predicted distribution of Equines in the Great Plains during the Miocene based on environmental variables. *Journal of Vertebrate Paleontology*, 28 (3 supplement): 110A.

- 31) †Dudei, N.L., and **Stigall, A.L.** 2008. Ecological niche modeling of Richmondian (Late Ordovician) brachiopods in the Cincinnati Arch: Early stages of a biotic invasion. Geological Society of America, Abstracts with Programs, 40 (6): 249-5.
- 30) †Maguire, K.C., and **Stigall, A.L.** 2008. Ecological Niche Modeling of Equids in the Great Plains during the Miocene. Geological Society of America, Abstracts with Programs, 40 (6): 125-12.
- 29) **Stigall, A.L.** 2008. New insight into diversity dynamics from specimen-based studies: Analyzing the Late Devonian speciation crisis. Geological Society of America, Abstracts with Programs, 40 (6): 130-1.
- 28) †Swisher, R.E., and **Stigall, A.L.** 2008. Quantitative paleobiogeographic analysis of habitat tracking patterns in the Cincinnati Arch following the Late Ordovician Richmondian Invasion. Geological Society of America, Abstracts with Programs, 40 (6): 130-12.
- 27) †Walls, B.J., and **Stigall, A.L.** 2008. Paleobiogeography of Cincinnati (Late Ordovician) brachiopod species utilizing ecological niche modeling methods. Geological Society of America, Abstracts with Programs, 40 (6): 249-4.
- 26) †Maguire, K.C., and **Stigall, A.L.** 2008. Combining Quantitative Methods in Historical and Ecological Paleobiogeography: A Case Study with Equidae (horses) from the Miocene of North America. Midwest Evolution and Ecology Conference, Abstracts with Programs, p. 24.
- 25) **Stigall, A.L.** 2007. Do invasive species cause extinction?: Comparing invasion events during intervals of Late Ordovician and Late Devonian biotic turnover. Geological Society of America, Abstracts with Programs, 39 (6): 370.
- 24) †Henderson, A., Nadon, G.C., and **Stigall, A.L.** 2007. Combined biotic and sedimentologic evidence for millennial-scale (6th-order) sea level fluctuations within the Portersville shale (Late Pennsylvanian), Conemaugh Group, Southeastern Ohio. Geological Society of America, Abstracts with Programs, 39 (6): 84.
- 23) Hendricks, J.R., Lieberman, B.S., and **Stigall, A.L.** 2007. Using GIS to study the paleobiogeography and macroevolution of soft-bodied Cambrian arthropods. Geological Society of America, Abstracts with Programs, 39 (6): 370.
- 22) †Maguire, K.C., and **Stigall, A.L.** 2007. The effect of climate on the paleobiogeography of the subfamily Equinae during the Miocene and Pliocene in North America. Geological Society of America, Abstracts with Programs, 39 (7): 23.
- 21) **Stigall, A.L.**, and Hembree, D.I. 2007. Beyond the phylogeny: Using phylogenetically-constrained data to infer biogeographic, evolutionary, and paleoecological patterns. Geological Society of America, Abstracts with Programs, 39 (3): 6.
- 20) †Everman, K.M., and **Stigall, A.L.** 2007. Characterizing Jurassic spinicaudatans of Antarctica: Systematic and Paleoecological Implications. Geological Society of America, Abstracts with Programs, 39 (3): 7.
- 19) †Klingensmith, B.C., and **Stigall, A.L.** 2007. Analyzing the relationship between sea level, geographic range, and invasion events in Cincinnati (Late Ordovician) brachiopods using GIS. Geological Society of America, Abstracts with Programs, 39 (3): 7.
- 18) †Maguire, K.C., and **Stigall, A.L.** 2007. Miocene-Pliocene Paleobiogeography of North American Equinae. Geological Society of America, Abstracts with Programs, 39 (3): 7.
- 17) **Stigall, A.L.** 2007. Depression of vicariant speciation during the Late Devonian Biodiversity Crisis related to species invasions. Abstracts with Programs, International Biogeography Society, Third Biennial Conference, 108.
- 16) †Klingensmith, B.C., and **Stigall, A.L.** 2006. Paleobiogeography of Cincinnati (Late Ordovician) brachiopods: Utilizing geographic information systems (GIS) to analyze species response to environmental change. Geological Society of America, Abstracts with Programs, 38 (7): 551.

- 15) **Stigall, A.L.** 2006. Faunal dynamics of the Late Devonian biodiversity crisis: A complex interplay of speciation, extinction, and biogeographic change. Geological Society of America, Abstracts with Programs, 38 (7): 337.
- 14) [†]Klingensmith, B.C., and **Stigall, A.L.** 2006. GIS-based mapping of brachiopod species ranges in the type Cincinnati. Geological Society of America, Abstracts with Programs, 38 (4): 14.
- 13) Hembree, D.I., Nadon, G.C., and **Stigall, A.L.** 2006. Linking Middle to Late Pennsylvanian climate change to variations in ichnofauna and pedogenic development in fluvial and lacustrine paleoenvironments of the Appalachian Basin. Geological Society of America, Abstracts with Programs, 38 (4): 5.
- 12) **Stigall Rode, A.L.**, Briggs, D.E.G., Leslie, S.A., and Babcock, L.E. 2005. Taphonomy of conchostracan-dominated lacustrine deposits in the Kirkpatrick Basalt (Jurassic, Antarctica). Geological Society of America, Abstracts with programs, 37(7):116.
- 11) **Stigall Rode, A.L.**, Leslie, S.A., and Babcock, L.E. 2005. Ontogenetic change in the microstructure of Jurassic conchostracans (Crustacea, Spinicaudata, Cyzicidae) from Antarctica: Implications for conchostracan phylogeny and taxonomy. North American Paleontological Conference. PaleoBios, 25 (Supplement to number 2): 112-113.
- 10) Babcock, L.E., **Rode, A.L.**, Leslie, S.A., Ford, L.A., Polak, K., and Becker, L. 2004. Microbially mediated precipitation and fossil preservation in the Kirkpatrick Basalt (Jurassic), Antarctica. Geological Society of America, Abstracts with programs, 36:475.
- 9) **Rode, A.L.** 2004. Using environmental niche modeling to assess the role of changing species ranges during the Late Devonian biodiversity crisis: A case study from the Appalachian Basin. Geological Society of America, Abstracts with programs, 36:527.
- 8) Babcock, L.E., Hollingsworth, J.S., **Rode, A.L.**, Ford, L.A., Borkow, P.S., Polak, K., Holmer, L.E., and Leslie, S.A. 2004. Macrofauna from the Poleta Formation (Cambrian) of Nevada: Influences of Sedimentary Conditions, Biodegraders, and Microbial Biofilms on Exceptional Preservation. IX International Conference of the Cambrian Stage Subdivision Working Group, Abstracts with Program, 34-35.
- 7) **Rode, A.L.** 2004. Quantifying ancient invasive species: Implications of Late Devonian paleobiogeography to modern conservation biology. Midwest Paleoabstracts; First Annual Symposium of Student Paleontological Research, Book of Abstracts, 1:20.
- 6) **Rode, A.L.**, and Lieberman, B.S. 2003. GIS and phylogenetics, a combined approach to understanding biogeographic changes in the Late Devonian. Invited paper: Understanding the Late Devonian Biotic, Climatic, and Oceanographic effects: Toward an integrated approach. Geological Society of America, Abstracts with programs, 35:385-386.
- 5) **Rode, A.L.** 2002. Using GIS to integrate species ranges, evolution, and eustasy during the Late Devonian biodiversity crisis. Invited paper: Paleobiogeography: Integrating Plate Tectonics and Evolution. Geological Society of America, Abstracts with programs, 34:315.
- 4) **Rode, A.L.**, and Lieberman, B.S. 2001. New Early Cambrian Bradoriida (?Crustacea) from Antarctica: Implications for bradoriid biogeography and evolution. Geological Society of America Annual Meeting, 2001, Abstracts with programs, 33:379.
- 3) **Rode, A.L.**, and Lieberman, B.S. 2001. Assessing the role of invasive species in mediating mass extinctions: A case study using Devonian phyllocarids. North American Paleontological Conference. Invited paper: New uses for the dead: Paleobiological contributions to conservation biology. PaleoBios, 21: 109.
- 2) **Rode, A.L.**, and Lieberman, B.S. 2000. Using phylogenetics and GIS to investigate the role in invasive species in the Late Devonian mass extinction. Geological Society of America Annual Meeting, 2000, Abstracts with programs, 32:368.

- 1) **Rode, A.L.**, and Babcock, L.E. 1999. Morphologic and DNA-based phylogeny of the freshwater crayfish and their close relatives. Geological Society of America Annual Meeting, 1999, Abstracts with programs, 31:43.

Other publications

- Stigall, A.L.** 2007. Book Review: Invasion Ecology. *Palaios*, DOI: 10.2110/palo.2007.BR017.
- Stigall, A.L.** 2007. Invitation to Joint South-Central North Central GSA Section Meeting. *Priscum*, 16(1), 9-10.
- Stigall, A.L.** 2006. Getting Started with GIS for Paleobiogeographic Reconstruction: Using Excel, PaleoGIS, Point Tracker, ArcView 3.x, and ArcGIS 9.x. Electronic book, <http://oak.cats.ohiou.edu/~stigall/PDFs/GISreconstructionguide.pdf/>.
- Rode, A.L.** 2004. Integration in paleontological research. *Priscum*, 12(2), 2-3.
- Rode, A.L.** 2003. Book Review: Macroevolutionary theory on macroecological patterns. *Ecoscience*, 10 (4): 546.
- Rode, A.L.** 2003. Sedimentary geology as key to conservation. *The Sedimentary Record*, 1(3): 9.
- Rode, A.L.** 2003. Book Review: Life as we know it: New ideas about the rise of modern animals. *London Times Literary Supplement*, August 22, no. 5238, p. 24.
- Rode, A.L.** 2002. Late Ordovician extinction, Pp. 462-465. *In* N. Eldredge (ed.), *Life on Earth: An Encyclopedia of Biodiversity, Ecology, and Evolution*. ABC-CLIO, Santa Barbara.
- Rode, A.L.** 2002. Late Triassic extinction, Pp. 465-467. *In* N. Eldredge (ed.), *Life on Earth: An Encyclopedia of Biodiversity, Ecology, and Evolution*. ABC-CLIO, Santa Barbara.
- Rode, A.L.** 2001. Contributor to *Laboratory for G-hawks: A comprehensive manual for introductory geology at the University of Kansas*, 2nd edition. McClellan B., Hembree D. I., and Wood, H. K. (eds.)
- Rode, A.L.** 2000. Contributor to *Laboratory for G-hawks: A comprehensive manual for introductory geology at the University of Kansas*, 1st edition. Csoma, A.E. and Hall, J. (eds.)

Conference Presentations (* indicates invited talk, † indicates student presenter)

- †Dudei, N.L., and **Stigall, A.L.** 2009. Assessing biogeographic response of brachiopod species during the Richmondian (Late Ordovician) Invasion in the Cincinnati Arch using ecological niche modeling. North American Paleontological Conference, Cincinnati, Ohio, June xx, 2009.
- †Swisher, R.E., and **Stigall, A.L.** 2009. Coordinated brachiopod species trends in the Cincinnati Arch following the Late Ordovician Richmondian Invasion, demonstrated through quantitative paleobiogeographic methods. North American Paleontological Conference, Cincinnati, Ohio, June xx, 2009.
- †Walls, B.J., and **Stigall, A.L.** 2009. Utilization of ecological niche modeling methods to assess quantitative paleobiogeographic patterns of Maysvillian (Late Ordovician) brachiopod species of the Cincinnati Arch. North American Paleontological Conference, Cincinnati, Ohio, June xx, 2009.
- ***Stigall, A.L.** 2009. The biogeographic impact of species invasions on native brachiopods during the Richmondian Invasion (Late Ordovician, Cincinnati region). North American Paleontological Conference, Cincinnati, Ohio, June xx, 2009.

- †Maguire, K.C., and **Stigall, A.L.** 2009. Ecological niche modeling of equids in the Great Plains during the Miocene. Abstracts with Programs, International Biogeography Society, Fourth Biennial Conference, Merida, Mexico, January xx, 2009.
- †Maguire, K.C., and **Stigall, A.L.** 2008. Predicted distribution of Equines in the Great Plains during the Miocene based on environmental variables. Annual Meeting of the Society of Vertebrate Paleontology, Cleveland, OH, October 17, 2008.
- †Dudei, N.L., and **Stigall, A.L.** 2008. Ecological niche modeling of Richmondian (Late Ordovician) brachiopods in the Cincinnati Arch: Early stages of a biotic invasion. Annual Meeting of the Geological Society of America, Houston, TX, October 7, 2008.
- †Maguire, K.C., and **Stigall, A.L.** 2008. Ecological Niche Modeling of Equids in the Great Plains during the Miocene. Annual Meeting of the Geological Society of America, Houston, TX, October 5, 2008.
- ***Stigall, A.L.** 2008. New insight into diversity dynamics from specimen-based studies: Analyzing the Late Devonian speciation crisis. Annual Meeting of the Geological Society of America, Houston, TX, October 9, 2008.
- †Swisher, R.E., and **Stigall, A.L.** 2008. Quantitative paleobiogeographic analysis of habitat tracking patterns in the Cincinnati Arch following the Late Ordovician Richmondian Invasion. Annual Meeting of the Geological Society of America, Houston, TX, October 9, 2008.
- †Walls, B.J., and **Stigall, A.L.** 2008. Paleobiogeography of Cincinnati (Late Ordovician) brachiopod species utilizing ecological niche modeling methods. Annual Meeting of the Geological Society of America, Houston, TX, October 7, 2008.
- ***Stigall, A.L.** 2008. Tracking species in space and time: Assessing the relationships between paleobiogeography, paleoecology, and macroevolution. Paleontological Society Short Course: From Evolution to Geobiology: Research Questions Driving Paleontology at the Start of a New Century. Houston, TX, October 4, 2008.
- Stigall, A.L.** 2008. Depression of vicariant speciation during the Late Devonian Biodiversity Crisis related to species invasions. Summer Symposium, Paleontological Research Institute, Ithaca, NY, July 24, 2008.
- †Maguire, K.C., and **Stigall, A.L.** 2008. Combining Quantitative Methods in Historical and Ecological Paleobiogeography: A Case Study with Equinae (horses) from the Miocene of North America. Midwest Evolution and Ecology Conference, Athens, OH, March 9, 2008.
- ***Stigall, A.L.** 2007. Do invasive species cause extinction?: Comparing invasion events during intervals of Late Ordovician and Late Devonian biotic turnover. Annual Meeting of the Geological Society of America, Denver, CO, October 30, 2007.
- †Henderson, A., Nadon, G.C., and **Stigall, A.L.** 2007. Combined biotic and sedimentologic evidence for millennial-scale (6th-order) sea level fluctuations within the Portersville shale (Late Pennsylvanian), Conemaugh Group, Southeastern Ohio. Annual Meeting of the Geological Society of America, Denver, CO, October 28, 2007.
- Hendricks, J.R., Lieberman, B.S., and **Stigall, A.L.** 2007. Using GIS to study the paleobiogeography and macroevolution of soft-bodied Cambrian arthropods. Annual Meeting of the Geological Society of America, Denver, CO, October 30, 2007. (post-doc presenter)
- †Maguire, K.C., and **Stigall, A.L.** 2007. The effect of climate on the paleobiogeography of the subfamily Equinae during the Miocene and Pliocene in North America. Annual Meeting of the Geological Society of America, Denver, CO, October 28, 2007.
- ***Stigall, A.L.**, and Hembree, D. I. 2007. Beyond the phylogeny: Using phylogenetically-constrained data to infer biogeographic, evolutionary, and paleoecological patterns. Geological Society of America, North Central & South Central Joint Sectional Meeting, Lawrence, KS, April 12, 2007.

- †Everman, K.M., and **Stigall, A.L.** 2007. Characterizing Jurassic spinicaudatans of Antarctica: Systematic and Paleocological Implications. Geological Society of America, North Central & South Central Joint Sectional Meeting, Lawrence, KS, April 12, 2007.
- †Klingensmith, B.C., and **Stigall, A.L.** 2007. Analyzing the relationship between sea level, geographic range, and invasion events in Cincinnati (Late Ordovician) brachiopods using GIS. Geological Society of America, North Central & South Central Joint Sectional Meeting, Lawrence, KS, April 12, 2007.
- †Maguire, K.C., and **Stigall, A.L.** 2007. Miocene-Pliocene Paleobiogeography of North American Equinae. Geological Society of America, North Central & South Central Joint Sectional Meeting, Lawrence, KS, April 12, 2007.
- Stigall, A.L.** 2007. Depression of vicariant speciation during the Late Devonian Biodiversity Crisis related to species invasions. International Biogeography Society, Third Biennial Meeting, Tenerife, Canary Islands, Spain, January 11, 2007.
- †Klingensmith, B.C., and **Stigall, A.L.** 2006. Paleobiogeography of Cincinnati (Late Ordovician) brachiopods: Utilizing geographic information systems (GIS) to analyze species response to environmental change. Geological Society of America, Annual Meeting, Philadelphia, PA, October 26, 2006.
- Stigall, A.L.** 2006. Faunal dynamics of the Late Devonian biodiversity crisis: A complex interplay of speciation, extinction, and biogeographic change. Geological Society of America, Annual Meeting, Philadelphia, PA, October 24, 2006.
- †Klingensmith, B.C., and **Stigall, A.L.** 2006. GIS-based mapping of brachiopod species ranges in the type Cincinnati. Geological Society of America, North Central Sectional Meeting, Akron, OH, April 20, 2006.
- Hembree, D.I., Nadon, G.C., and **Stigall, A.L.** 2006. Linking Middle to Late Pennsylvanian climate change to variations in ichnofauna and pedogenic development in fluvial and lacustrine paleoenvironments of the Appalachian Basin. Geological Society of America, North Central Sectional Meeting, Akron, OH, April 20, 2006. (post-doc presenter)
- ***Stigall, A.L.** 2006. Combining GIS and Phylogenetics in Palaeobiogeography: Assessing the role of Invasion events during Mass Extinctions. Palaeogeography and Palaeobiogeography: Biodiversity in Space and Time Meeting, Cambridge, UK, April 11, 2006.
- Stigall Rode, A.L.**, Briggs, D.E.G., Leslie, S.A., and Babcock, L.E. 2005. Taphonomy of conchostracan-dominated lacustrine deposits in the Kirkpatrick Basalt (Jurassic, Antarctica). Geological Society of America Annual Meeting, Salt Lake City, UT, October 16, 2005.
- ***Stigall Rode, A.L.** 2005. The application of GIS to paleobiogeography: Implications for the study of invasions and mass extinctions. Paleontological Society Short Course: Paleobiogeography: Generating New Insights into the Coevolution of the Earth and Its Biota. Salt Lake City, UT, October 15, 2005.
- Stigall Rode, A.L.**, Leslie, S.A., and Babcock, L.E. 2005. Ontogenetic change in the microstructure of Jurassic conchostracans (Crustacea, Spinicaudata, Cyzicidae) from Antarctica: Implications for conchostracan phylogeny and taxonomy. North American Paleontology Convention, Halifax, NS, June 27, 2005.
- Babcock, L.E., **Rode, A. L.**, Leslie, S.A., Ford, L.A., Polak, K., and Becker, L. 2004. Microbially mediated precipitation and fossil preservation in the Kirkpatrick Basalt (Jurassic), Antarctica. Geological Society of America Annual Meeting, Denver, CO, November 10, 2004.
- Rode, A.L.** 2004. Using environmental niche modeling to assess the role of changing species ranges during the Late Devonian biodiversity crisis: A case study from the Appalachian Basin. Geological Society of America Annual Meeting, Denver, CO, November 10, 2004.

- Babcock, L.E., Hollingsworth, J.S., **Rode, A.L.**, Ford, L.A., Borkow, P.S., Polak, K., Holmer, L.E., and Leslie, S.A. 2004. Macrofauna from the Poleta Formation (Cambrian) of Nevada: Influences of Sedimentary Conditions, Biodegraders, and Microbial Biofilms on Exceptional Preservation. IX International Conference of the Cambrian Stage Subdivision Working Group, Taebaek, South Korea, September 21, 2004.
- Rode, A.L.** 2004. Quantifying ancient invasive species: Implications of Late Devonian paleobiogeography to modern conservation biology. Midwest Symposium of Student Paleontological Research, Madison, WI, March 6, 2004.
- ***Rode, A.L.**, and Lieberman, B.S. 2003. 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" Geological Society of America Annual Meeting, Seattle, WA, November 4, 2003.
- ***Rode, A. L.** 2002. Using GIS to integrate species ranges, evolution, and eustasy during the Late Devonian biodiversity crisis. Geological Society of America Annual Meeting, Denver, CO, October 29, 2002.
- Rode, A. L.**, and Lieberman, B.S. 2001. New Early Cambrian Bradoriida (?Crustacea) from Antarctica: Implications for bradoriid biogeography and evolution. Geological Society of America Annual Meeting, Boston, MA, November 8, 2001.
- ***Rode, A.L.**, and Lieberman, B.S. 2001. Assessing the role of invasive species in mediating mass extinctions: A case study using Devonian phyllocarids. North American Paleontological Conference, Berkeley, CA, June 29, 2001.
- Rode, A.L.**, and Lieberman, B.S. 2000. Using phylogenetics and GIS to investigate the role in invasive species in the Late Devonian mass extinction. Geological Society of America Annual Meeting, Reno, NV, November 15, 2000.
- Rode, A.L.**, and Babcock, L.E. 1999. Morphologic and DNA-based phylogeny of the freshwater crayfish and their close relatives. Geological Society of America Annual Meeting, Denver, CO, October 25, 1999.
- Rode, A. L.** 1999. Morphologic and DNA-based phylogeny of the freshwater crayfish and their close relatives. Fourth Annual Graduate Student Retreat, University of Kansas, Natural History Museum and Biodiversity Research Center, October 16, 1999.

University Colloquia and Public Presentations

- ***Stigall, A.L.** 2008. Combining paleoecology and paleobiogeography to study the Late Devonian Mass Extinction. University of Wooster, Wooster, Ohio, October 23, 2008.
- ***Stigall, A.L.** 2008. Tracking species through space and time: How species invasions contributed to the Late Devonian Biodiversity Crisis. Cincinnati Dry Dredgers, Cincinnati, Ohio, April 25, 2008.
- ***Stigall, A.L.** 2008. Using GIS and phylogenetic biogeography to quantify biogeographic patterns in Late Devonian brachiopod and bivalve species invasions over short temporal intervals. Leading Edge of Earth and Planetary Science Lectures, Department of Geology and Geological Engineering, University of North Dakota, April 4, 2008.
- ***Stigall, A.L.** 2008. Taphonomy of high-latitude Jurassic lake deposits of Antarctica. Leading Edge of Earth and Planetary Science Lectures, Department of Geology and Geological Engineering, University of North Dakota, April 4, 2008.

- ***Stigall, A.L.** 2008. Tracking species through time: Combining phylogenetics, GIS, and niche modeling to unravel invasive species effects during the Late Devonian Biodiversity Crisis. Department of Geology, Colloquium Series, University of Cincinnati, January 18, 2008.
- ***Stigall, A.L.** 2007. Life, death, and fossilization in the Jurassic ponds of Antarctica. Athens Public Library, Athens, Ohio, November 15, 2007.
- ***Stigall, A.L.** 2006. Tracking species through time: Combining phylogenetics, GIS, and niche modeling to unravel invasive species effects during the Late Devonian Biodiversity Crisis. School of Earth Sciences, Colloquium Series, The Ohio State University, November 9, 2006.
- ***Stigall, A.L.** 2006. Extinction and evolution: Using paleontology to discover clues about ancient life. Women in Science and Engineering Program, Athens, OH, April 26, 2006.
- ***Stigall, A.L.** 2006. Tracking species through time: Integrating GIS and phylogenetics to examine the effect of species invasions during the Late Devonian Biodiversity Crisis. Department of Geology and Geophysics, Wilbert Lecture Series, Louisiana State University, February 17, 2006.
- ***Stigall, A.L.** 2005. Comparative taphonomy of fossils from Jurassic ponds of Antarctica: Understanding why these critters are preserved this way. Department of Geological Sciences Colloquium series, Ohio University, October 28, 2005.
- ***Stigall, A.L.** 2005. Deciphering the role of invasive species during the Late Devonian Mass Extinction: Using GIS to integrate paleobiogeography and paleoecology. Department of Geology Colloquium series, Miami University, Oxford, Ohio, September 21, 2005.
- ***Stigall Rode, A.L.** 2005. The role of invasive species during the Late Devonian Mass Extinction: Inferences from GIS and niche modeling systems. Department of Biological Sciences Ecolunch Series, Ohio University, February 2, 2005.
- ***Rode, A.L.** 2004. Fire and Ice: Searching for Jurassic fossils in Antarctica. Association for Women in Geosciences, Osage Chapter, Brown Bag Series, February 20, 2004.
- ***Rode, A.L.** 2004. Reconstructing Antarctic life: Searching for fossils on the seventh continent. Self Graduate Fellowship Luncheon Series, University of Kansas, February 10, 2004.
- ***Rode, A.L.** 2004. Integrating GIS and phylogenetics to unravel invasive species effects during the Late Devonian Mass Extinction. Department of Geological Sciences Colloquium series, Ohio University, January 30, 2004.
- ***Rode, A.L.** 2003. Integrating GIS and phylogenetics to unravel invasive species effects during the Late Devonian Mass Extinction. Department of Ecology and Evolutionary Biology Colloquium series, University of Kansas, September 25, 2003.
- ***Rode, A.L.** 2003. The Anatomy of a Mass Extinction: What species' ranges can tell us about faunal dynamics in the Late Devonian. Association for Women in Geosciences, Osage Chapter, Brown Bag Series, February 20, 2003.
- Rode, A.L.** 2002. Using GIS to integrate species ranges, evolution, and eustacy during the Late Devonian biodiversity crisis. G-Hawker Symposium, University of Kansas, Department of Geology, Nov. 16, 2002.
- Stigall, A.L.** 1999. Phylogenetic affinities of freshwater crayfish. Denman Undergraduate Research Forum, The Ohio State University, May, 1999.

Popular press articles featuring my research

"The evolution of discovery." November, 2008. *Perspectives Magazine*, Ohio University, Athens, Ohio.

"No bones about it: OSU Antarctica research suggests answer to soft-body fossil mystery." November 16, 2004. *The Columbus Dispatch*, Columbus, Ohio.

"Soft-shelled crab fossil style." November, 2004. *Astrobiology Magazine*. <http://www.astrobio.net/news/>.

"Ancient creature fossilized by the bacteria that ate it." November 10, 2004. *Research News*, Ohio State University, Columbus, Ohio.

"Scientists visit Antarctica: Research team returns to OSU with fossilized arthropods in frozen rocks." July 29, 2004. *The Lantern*, Ohio State University, Columbus, Ohio.

"Fishing for fossils." December 28, 2003. *The Antarctic Sun*, McMurdo Station, Antarctica.