

Bradley Lynn Deline
Curriculum Vitae

Assistant Professor
Department of Geosciences
University of West Georgia
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RESEARCH INTERESTS

My primary interest is in the history and diversity of shape in animals through time as well as the interactions between organisms and their environment. I am interested in the underpinnings and patterns of morphologic disparity, paleoecology and macroevolution within Pelmatozoan (stemmed) echinoderms, crinoid morphometrics and systematics, and experimental taphonomy.

EDUCATION

University of Cincinnati, Cincinnati, Ohio, 2009

Ph.D. in Geology

Thesis: The effects of scale, community structure and environment on Ordovician through Early Silurian Laurentian Crinoid disparity.

Advisor: Carlton Brett.

Committee: David Meyer, Arnold Miller, Colin Sumrall, Michael Foote

University of Cincinnati, Cincinnati, Ohio, 2006

M.S. in Geology

Thesis: Inter- and Intraspecific Morphological Variation of Crinoid Columnals in Relation to Water Depth in the Type Cincinnati (Upper Ordovician)

Advisor: David Meyer.

Committee: Arnold Miller, Carlton Brett

University of Michigan, Ann Arbor, Michigan, 2003

B.S. in Geological Sciences, minor in Biology

Advisors: Tomasz Baumiller and Daniel Fisher

OTHER EDUCATION

Paleobiology Database Intensive Summer Course in Analytical Paleobiology, Santa Barbara, CA. June - July, 2007.

Museum Curator Intern; Cincinnati Museum Center, Cincinnati, OH.
2006-2007

TEACHING EXPERIENCE

University of West Georgia

Assistant Professor, Department of Geosciences, 2010-present.

Courses Taught: Physical Geology Lecture, Physical Geology Laboratory, Historical Geology, Historical Geology Laboratory, Paleontology with Laboratory, Geology Seminar, and Dinosaurs!

University of West Georgia

Limited-Term Assistant Professor, Department of Geosciences, 2009-2010

Courses Taught: Physical Geology Lecture, Physical Geology Laboratory, Historical Geology, Historical Geology Laboratory, Paleontology with Laboratory, and Dinosaurs!

University of Cincinnati

Teaching Assistant, Department of Geology, 2003 – 2008.

Independently taught laboratories:

Introductory Geology Lab- Physical, Fall, 2006, 2007

Introduction to Physical Geology

Introductory Geology Lab- Winter, 2006, 2007

Geomorphic Processes

Introductory Geology Lab- Stratigraphy and Paleontology. Spring, 2006, 2007, 2008

Field intensive course covering sedimentology, stratigraphy, invertebrate paleontology and paleoenvironmental reconstruction.

Laboratories taught in conjunction with Faculty lecture:

Invertebrate Paleontology. Fall 2006.

Survey of invertebrate taxa and paleontological methods.

Geomorphology and Geologic Materials and Processes, Fall 2005.

Field based course using advanced techniques (GIS, groundwater sampling, sediment analysis) to examine groundwater movement and chemistry.

The Solid Earth: Tectonics, Fall 2004.

Introduction to structural geology.

Teaching assistant Courses taught with discussion section:

Physical Geology, Winter 2005, Winter 2007

Global Warming, Spring 2004

Natural Hazards, Winter, 2004

Geology of National Parks, Fall 2003

PROFESSIONAL SOCIETIES

Geological Society of America

Paleobiology Database

Paleontological Society

Sigma Xi

JOURNAL REVIEWER

Journal of Paleontology

Palaios

Southeastern Geology

SERVICE AND COMMUNITY OUTREACH

Carroll County Gem and Mineral Society, Villa Rica, GA

Guest Lecturer

March, 2010

Children's Learning Center, Carrollton, GA

Guest Speaker

February, 2010

University of Cincinnati, Department of Geology, 2008

Department Head search committee.

Kentucky Paleontology Society, Lexington, KY

Guest Lecturer:

Crinoid paleoecology, and disparity, June, 2008.

Falls of the Ohio State Park, Fossil Fest, Clarksville, IN

Guest Lecturer:

Crinoids through Time, September, 2007.

Dry Dredgers (amateur paleontology society), Cincinnati, OH

Guest lectures:

UC goes to China: International Palaeontological Congress; November, 2006.

Life History of a Female American Mastodon, February 2005.

University of Cincinnati, Cincinnati, OH, 2005

Geology tutor

AWARDS

Rawlinson Fellowship, University of Cincinnati Department of Geology, 2008 - 2009.

Departmental Good Spirits Award, Department of Geology, University of Cincinnati, 2007

Stephen J. Gould Grant, Paleontology Society, 2006.

Paul Sanders Award, Dry Dredgers, 2005 and 2006.

Harvey Sunderman Teaching Award, Department of Geology, University of Cincinnati, 2005 and 2006.

Kenneth Caster Summer Fellowship, Department of Geology, University of Cincinnati, 2005.

PROFESSIONAL FIELD TRIPS

2009. Stratigraphy and Paleontology of the Silurian and Devonian Strata in the Central Ohio Valley, the Falls of the Ohio and Quarries in Clark Co., Indiana. North American Paleontology Convention. Cincinnati OH.

2009. Mississippian Paleontology of South-Central Kentucky. North American Paleontology Convention. Cincinnati, OH.

2008. Silurian Stratigraphy across the Cincinnati Arch: Recalibrating the Layer Cake. North Central Geological Society of America Meeting. Evansville, IN.

2006. The Early Cretaceous Jehol Biota of Northern China: Feathered dinosaurs, Basal birds, Mammals, and Angiosperms. The Second International Palaeontological Congress. Beijing, China. 2006

2005. Ordovician Paleogeography and Paleoclimates. International Geological Correlation Program. Cincinnati, OH.

PUBLICATIONS

Deline, B. and Parsons-Hubbard, K. M. (in review) Marine brine seep yields a new type of soft-tissue preservation.

Deline, B. and W. I. Ausich., in press. Testing the Plateau; a Reexamination of Early Paleozoic Crinoid Disparity. *Paleobiology*.

Deline, B. and J. J. Zambito, 2010. Mazon-creek style soft tissue preservation in the Mississippian Nancy Member of the Borden Formation, Northeastern Kentucky: evidence for early siderite

- precipitation. *Southeastern Geology*, 47(1), 41-47.
- Deline, B., 2009. The effects of rarity and abundance distributions on measurements of local morphological disparity. *Paleobiology* 35:175-189.
- Sumrall, C.D. and Deline, B., 2009. A new species of the dual-mouthed paracrinoid *Bistomicystis* and a redescription of *Edrioaster priscus* from the Upper Ordovician Curdsville Member of the Lexington Limestone. *Journal of Paleontology* 83(1), 135-139.
- Deline, B. 2008. The first evidence of predatory or parasitic drilling in stylophoran echinoderms. *Acta Palaeontologica Polonica* 53(4), 739-743.
- Brett, C., Deline, B., McLaughlin, P., 2008. Attachment, facies distribution, and life history strategies in crinoids from the Upper Ordovician of Kentucky. Pp.23-55. *In*: W. Ausich and G. Webster eds., *Echinoderm Paleobiology*, Indiana University Press. Bloomington.
- Parsons-Hubbard, K. M., Powell, E. N., Raymond, A., Walker S., Brett, C., Ashton-Alcox, K., Shepard R. N., Krause R., and B. Deline. 2008. The taphonomic signature of a brine seep and the potential for Burgess Shale style preservation. *Journal of Shellfish Research* 27(1), 227-239.
- Deline, B., Baumiller, T. K.; Hoffmeister, A. P.; Kaplan, P.; Kowalewski, M.. 2003. Edge-drilling on the brachiopod *Perditocardinia* cf. *P. dubia* from the Mississippian of Missouri (USA) *Palaeogeography, Palaeoclimatology, Palaeoecology*. A. Aronowsky, ed.; 201(3-4), 211-219.

NON-PEER REVIEWED PUBLICATIONS

- Deline, B., 2009. Intraspecific morphological disparity of crinoid columnals in relation to water depth in the type Cincinnati (Upper Ordovician, 443-453 mya). Pp. 154-156. *In*: C. Brett, S. Holland, P. McLaughlin, and G. Storrs. eds., *Stratigraphic Renaissance in the Cincinnati Arch*. Cincinnati Museum Center, Cincinnati.
- Deline, B., C. Graham, M. Harris-Linton, and L. Heidtke. 2002. The effect of acid deposition on American beech growth. University of Michigan Biological Station Publications.

ABSTRACTS

- Deline, B., W. I. Ausich, and C. E. Brett. 2010. Comparing taxonomic and geographic scales in the morphologic disparity of Ordovician through Early Silurian Crinoids. *Abstracts with Programs*, Geological Society of America, Boulder, CO: Geological Society of America (GSA) National meeting, Denver CO, oral presentation given by Deline.
- Ausich, W. I. and B. Deline. 2010. What is a crinoid? The Third International Palaeontological Congress. The Palaeontological Association. London, England. Oral Presentation given by Ausich.
- Deline, B and W. I. Ausich. 2009. Morphologic Constraints and the rise of the Myelodactylids; a Reexamination of Early Paleozoic Crinoid Disparity. *Abstracts with Programs*, Geological Society of America, Boulder, CO: Geological Society of America (GSA) National meeting, Portland OR, oral presentation given by Deline.
- Parsons-Hubbard, K. M., R. Krause, and B. Deline. 2009. The potential for exceptional preservation at Brine and hydrocarbon seeps tested in situ in the Gulf of Mexico. Walcott 2009 An International Conference on the Cambrian Explosion. Banff, Alberta. Oral presentation given by Parsons-Hubbard.

Deline, B. and K. M. Parsons-Hubbard, K. M 2009. Marine Brine seep yields a new type of soft-tissue preservation. North American Paleontological Convention. Cincinnati, Ohio, Poster presentation given by Deline.

Parsons-Hubbard, K. M., R. Krause, and B. Deline. 2009. Still together after all these years: The persistence of articulation in crabs and urchins after 13 years. North American Paleontological Convention. Cincinnati, Ohio, Oral presentation given by Parsons-Hubbard.

Deline, B. 2008. A reexamination of Ordovician through Early Silurian crinoid morphologic disparity. *Abstracts with Programs*, Geological Society of America Boulder, CO: Geological Society of America (GSA) National meeting, Houston TX, oral presentation.

Deline, B. 2008. The effects of rarity and abundance distributions on measurements of local morphological disparity in Ordovician crinoids. *Abstracts with Programs*, Geological Society of America, Boulder, CO: Geological Society of America (GSA) North-Central meeting. Evansville, IN. oral presentation.

Deline, B., and Brett, C. E., 2007. Comparing local and regional morphologic diversity in Ordovician through Early Silurian Laurentian crinoids. *Abstracts with Programs*, Geological Society of America. Boulder, CO: Geological Society of America (GSA) National Meeting, Denver, CO, oral presentation given by Deline.

Deline, B., Brett, C., Meyer, D. 2006. Species differentiation and paleoecology of *Anomalocrinus* (Late Ordovician, Southern Ohio and Kentucky). *Ancient Life and Modern Approaches; Abstracts of the Second International Palaeontological Congress*, Beijing, China. Oral presentation given by Deline.

Brett, C., Deline, B., Mclaughlin, P., 2005. Attachment, facies distribution, and life history strategies in crinoids from the Upper Ordovician of Kentucky. *Abstracts with Programs*, Geological Society of America. Boulder, CO: Geological Society of America (GSA) National meeting, Salt Lake City, UT, oral presentation given by Brett.

Deline, B. Meyer, D., 2005. Inter and intraspecific morphological variation of crinoid columnals in relation to water depth in the Type Cincinnati (Upper Ordovician, 443-453 mya). *Abstracts with Programs*, Geological Society of America. Boulder, CO: Geological Society of America (GSA) National meeting, Salt Lake City, UT, oral presentation given by Deline.

Deline, B., Fisher, D. C., 2003. Carbon and oxygen isotope variation in tusk dentin of a female American Mastodon. *Abstracts with Programs*, Geological Society of America. Boulder, CO: Geological Society of America (GSA) national meeting, Seattle, WA, oral presentation given by Deline.

Baumiller, T. K., Ameziane, N., D'Hondt, J., Deline, B. L., Eleaume, M., Hoffmeister, A. P., Kowalewski, M. 2003. Drillholes in extant brachiopods and their implications for the history of predation. *Abstracts with Programs*, Geological Society of America, Boulder, CO: Geological Society of America (GSA) North Central meeting, Kansas City, MO, oral presentation given by Baumiller.

Deline, B., Bambach, R. K., Baumiller, T. K., Hoffmeister, A. P., Kaplan, P., Kowalewski, M., 2002. Edge drilling on the Paleozoic brachiopod *Perditocardinia* *Abstracts with Programs*, Geological Society of America, Boulder, CO : Geological Society of America (GSA), North Central meeting, Lexington, KY, poster presentation given by Deline.