

ERIN H. LECKEY
University of Colorado, Boulder, CO
Erin.Leckey@colorado.edu

EDUCATION

University of Colorado, Boulder, CO

Doctoral student (current) in Geological Sciences, degree expected May 2011

University of California, Santa Barbara, CA

Master of Science in Geological Sciences, March 2004

Whitman College, Walla Walla, WA

Bachelor of Arts in Biology-Geology, May 1997

PROFESSIONAL EMPLOYMENT

August 2005-current: Graduate Assistant, CU Museum of Natural History, University of Colorado, Boulder; including time as Interim Collections Manager of Invertebrate Paleontology

2003-August 2004: Database Enterer, Paleobiology Database, Vertebrate Working Group, National Center for Ecological Analysis and Synthesis, University of California, Santa Barbara

2000-2004: Greenhouse Assistant, Ecology, Evolution and Marine Biology Department, University of California, Santa Barbara

1999-2003: Teaching Assistant, Geological Sciences Department, University of California, Santa Barbara

PROFESSIONAL MEMBERSHIPS

Ecological Society of America

Botanical Society of America

Geological Society of America

Paleontological Society

Association for Women Geoscientists

AWARDS

2009-2010 Zena Hunter Andrews Fellowship, University of Colorado

2007-2008 Shell Oil Company Student Award, University of Colorado

GRANTS

External Grants

Evolving Earth Foundation

Co PIs - Erin Leckey and Dena Smith

The Evolution of Neogene Plant-Insect Interactions: Does Climate Drive Herbivory?

Dates: Summer 2009 – Summer 2010

Amount: \$2,841

Geological Society of America

Sole PI

The Evolution of Neogene Plant-Insect Interactions: Does Climate Drive Herbivory?

Dates: Summer 2009 – Summer 2010

Amount: \$2,900

Paleontological Society (Yochelson Student Research Award)

Sole PI

Insect damage and climate in fossil and modern floras
Dates: Summer 2007 – Summer 2008
Amount: \$500

Internal Grants

Beverly Sears Award, University of Colorado

Sole PI

The evolution of leaf herbivory: do insects and plants tell the same story? Dates: Summer 2010-Summer 2011.

Amount: \$890.

Walker Van Riper Award, University of Colorado Museum of Natural History

Sole PI

Changes in herbivore damage on oak leaves along an environmental gradient

Dates: Summer 2007 – Summer 2008

Amount: \$1,000

Walker Van Riper Award, University of Colorado Museum of Natural History

Sole PI

Plant-insect interactions in middle Miocene ecosystems

Dates: Summer 2006 – Summer 2007

Amount: \$1,210

MANUSCRIPTS:

Published:

Alroy, J., M. Aberhan, D. Bottjer, M. Foote, F. Fürsich, P. Harries, A. Hendy, S. Holland, L. Ivany, W. Kiessling, M. Kosnik, C. Marshall, A. McGowan, A. Miller, T. Olszewski, M. Patzkowsky, S. Peters, L. Villier, P. Wagner, N. Bonuso, P. Borkow, B. Brenneis, M. Clapham, L. Fall, C. Ferguson, V. Hanson, A. Krug, K. Layou, **E. Leckey**, S. Nürnberg, C. Powers, J. Sessa, C. Simpson, A. Tomasovych, C. Visaggi, 2008. Phanerozoic Trends in the Global Diversity of Marine Invertebrates, *Science*, v. 4, pp. 97-100.

In Preparation:

Leckey, E.H., D.M. Smith and C.R. Nufio. The effect of elevation and climate on leaf herbivory in deciduous and evergreen oaks. *To be submitted to Oecologia, October, 2010.*

Leckey, E.H., D.M. Smith and D.M. Erwin. Host-fidelity of oak gall wasps (Hymenoptera: Cynipidae) through 20 million years of paleofloral evidence. *To be submitted to Journal of Paleontology, November, 2010.*

Leckey, E.H. and D.M. Smith. Accounting for collector bias when using museum collections to conduct paleoecological studies. *To be submitted to Palaios, February, 2011.*

PUBLISHED ABSTRACTS

Leckey, E.H. and D.M. Smith, 2010. Using the fossil record to examine long-term patterns in the evolution of insects and their host plants. Do gall wasps maintain host-fidelity over geologic time? *Abstracts of the Annual Meeting*, Geological Society of America.

Leckey, E.H. and D.M. Smith, 2009. Museum collections are better than expected: minimal effects of collection bias in detecting insect herbivory on fossilized leaves. *Abstracts of the Annual Meeting*, Geological Society of America.

Leckey, E.H. and D.M. Smith, 2009. The effects of elevation and climate on oak leaf herbivory: implications for fossil studies. *Abstracts of the Annual Meeting*, Ecological Society of

America.

- Leckey, E. H.** and D.M. Smith, 2007. Plant-insect interactions and climate from the Miocene of Nevada. *Abstracts of the Annual Meeting*, Ecological Society of America.
- Leckey, E.H.** and D.M. Smith, 2006, "Plant-insect interactions in the Middle Miocene of Nevada", *Abstracts of the Annual Meeting*, Geological Society of America, v. 38, n. 7.
- Leckey, E.H.**, Tiffney, B.H. and S. Sweeney, 2003, "Cretaceous plant-animal interactions: can distribution patterns of herbivorous dinosaurs and plants be used to test for co-evolution", *Abstracts of the Annual Meeting*, Geological Society of America, v. 35, n. 6.
- Leckey, E.H.**, B.H. Tiffney and S. Sweeney, 2003, "Cretaceous distribution patterns of herbivorous dinosaurs and vascular plants", *PaleoBios*, v. 22, n. 1. supp..
- Leckey, E.H.** and B.H. Tiffney, 2002, "Cretaceous distribution patterns of herbivorous dinosaurs and vascular plants: using map sequences to examine co-evolutionary patterns" *Abstracts of the Annual Meeting*, Geological Society of America, v. 34.
- Leckey, E.**, 2002, "Cretaceous distribution patterns of herbivorous dinosaurs and vascular plants: using map sequences to examine evolutionary patterns", *PaleoBios*, v. 22, n. 1. supp.
- Neill, A.R., **Leckey, E.H.** and K.R. Pogue, 1997, "Pleistocene dikes in Tertiary rocks; downward emplacement of Touchet Bed clastic dikes into co-seismic fissures, south-central Washington," *Abstracts of the Annual Meeting*, Geological Society of America, Cordilleran Section, vol. 29, no. 5.

TEACHING

Guest Lectures in Classes at the University of Colorado, Boulder

"Evolution and Speciation" in GEOL 3410, Paleobiology. 9/09.

"Examining Plant-Insect Interactions in Fossil and Modern Ecosystems" in GEOL 3410, Paleobiology. 9/09.

Guest Lectures in Classes at the University of California, Santa Barbara

"Mass Extinctions" in GEO 20, Geological Catastrophes. 5/09

Teaching Assistantships at University of California, Santa Barbara

1999/2000

History of Life, Dr. Bruce Tiffney, Instructor

Principles of Paleontology*, Dr. Bruce Tiffney, Instructor

Historical Geology, Dr. Joel Thompson, Instructor

2000/2001

History of Life, Dr. Bruce Tiffney, Instructor

Principles of Paleontology*, Dr. Bruce Tiffney, Instructor

Historical Geology, Dr. Luann Becker, Instructor

Physical Geology, Dr. York Mandra, Instructor (summer session)

2001/2002

History of Life, Dr. Bruce Tiffney, Instructor

Principles of Paleontology*, Dr. Bruce Tiffney, Instructor

Geological Catastrophes, Dr. Mark Kamerling, Instructor

Dinosaurs, Robin Whatley, Instructor (summer session)

2002/2003

History of Life, Dr. Bruce Tiffney, Instructor

Principles of Paleontology*, Dr. Bruce Tiffney, Instructor

Historical Geology, Robin Whatley, Instructor

* indicates lab taught as a separate course

MENTORSHIP (primary co-mentor with Dena Smith)

Chelsea Corson, Ecology and Evolutionary Biology, University of Colorado – Plant insect interactions in the Miocene Clarkia Formation (University Research Opportunities Program 2008).

Nina Xiong, Ecology and Evolutionary Biology, University of Colorado – Climate variables as predictors of insect damage levels in modern oak forests (NIH/HHMI Scholar Program 2008).

Katherine Fornash, Department of Geosciences, University of Arizona – Plant-insect interactions and climate change in the Cenozoic of western North America. (Research Experience in Solid Earth Science for Students Program 2007).

PUBLIC EDUCATION AND OUTREACH

2010 Docent Training, CU Museum of Natural History, “The History of Life”

2010 Guest presenter, Colorado Native Plant Society, “Plant-Insect Interactions in the Fossil Record.”

2010 Volunteer educator, YMCA of Boulder Valley summer museum tour

2009 Co-developer, teaching modules on fossils and evolution for 3rd graders, Boulder Valley School District.

2009 Presenter, CU Museum of Natural History paleontology training for elementary school teachers

2008 Volunteer educator, CU Museum of Natural History’s program “Girls at the Museum Exploring Science”, CU Boulder

2008-current Volunteer, Boulder Valley Head Start Program

2003 – Co-organized paleontological outreach program, Isla Vista Elementary School, Goleta, CA

TEACHING AND PROFESSIONAL DEVELOPMENT WORKSHOPS ATTENDED (last 2 years)

Faculty Teaching Excellence Program - Teaching your First Day of Class; Interdisciplinary Teaching/Interdisciplinary Learning

Graduate Teaching Program – Creating Assessment Tools that Work; Creating Grading Rubrics