

Raymond R. Rogers
Professor, Chair
Geology Department
Macalester College
Curriculum Vitae

I. EDUCATION

1985 B.S., Northern Arizona University, Department of Geology
1989 M.S., University of Montana, Geoscience Department
1995 Ph.D., University of Chicago, Department of Geophysical Sciences

II. ACADEMIC POSITIONS AND AFFILIATIONS

9/1995-8/1997 Assistant Professor, Department of Geology, Cornell College
9/1997-present Assistant/Associate/Full Professor/Chair (since 2002), Geology
Department, Macalester College
5/2006-present Adjunct Associate Professor and Advising Member of the Graduate College,
Department of Geology and Geophysics, University of Minnesota
11/2000–present Continuing Member of Taphonomy Working Group, Paleobiology
Database, National Center for Ecological Analysis and Synthesis
(NCEAS), University of California, Santa Barbara
1/2001-6/2010 Research Associate, Department of Geology, Field Museum of Natural
History, Chicago, IL

III. PUBLICATIONS

(Articles in Peer-Reviewed Journals)

- Rogers, R.R. 1990. Taphonomy of three dinosaur bone beds in the Upper Cretaceous Two Medicine Formation, northwestern Montana: Evidence for drought-related mortality: *Palaios* 5: 394-413.
- Rogers, R.R. 1992. Non-marine borings in dinosaur bones from the Upper Cretaceous Two Medicine Formation, northwestern Montana: *Journal of Vertebrate Paleontology* 12: 528-531.
- Sereno, P.C., C.A. Forster, R.R. **Rogers**, and A.M. Monetta. 1993. Primitive dinosaur skeleton from Argentina and the early evolution of Dinosauria: *NATURE* 361: 64-66.
- Rogers, R.R., C.C. Swisher III, P.C. Sereno, A.M. Monetta, C.A. Forster, and R.N. Martinez. 1993. The Ischigualasto tetrapod assemblage (Late Triassic, Argentina) and the $^{40}\text{Ar}/^{39}\text{Ar}$ dating of dinosaur origins: *SCIENCE* 260: 794-797.
- Rogers, R.R., and M. LaBarbera. 1993. Contribution of internal bony trabeculae to the mechanical properties of the humerus of the pigeon (*Columba livia*): *Journal of Zoology, London* 230: 433-441.
- Rogers, R.R., C.C. Swisher, and J.R. Horner. 1993. $^{40}\text{Ar}/^{39}\text{Ar}$ age and correlation of the non-marine Two Medicine Formation (Upper Cretaceous), northwestern Montana: *Canadian Journal of Earth Sciences*, 30, 1066-1075.
- Rogers, R.R. 1994. Nature and origin of through-going discontinuities in nonmarine foreland basin deposits, Upper Cretaceous, Montana: Implications for sequence analysis: *Geology* 22: 1119-1122.
- Rogers, R.R. 1998. Sequence analysis of the Upper Cretaceous Two Medicine and Judith River formations, Montana: nonmarine response to the Claggett and Bearpaw marine cycles: *Journal of Sedimentary Research* 68: 615-631.
- Krause, D.W., R.R. **Rogers**, C.A. Forster, J.H. Hartman, G.A. Buckley, and S.D. Sampson, 1999. The Late Cretaceous vertebrate fauna of Madagascar: Implications for Gondwanan Paleobiogeography: *GSA TODAY* 9: 1-7.

- Schweitzer, M.H., J.A. Watt, R. Avci, C.A. Forster, D.W. Krause, L. Knapp, R.R. **Rogers**, I. Beech, and M. Marshall. 1999. Keratin immunoreactivity in the Late Cretaceous bird *Rahonavis ostromi*: Journal of Vertebrate Paleontology 19: 712-722.
- Rogers, R.R., and S.M. Kidwell, 2000. Associations of vertebrate skeletal concentrations and discontinuity surfaces in nonmarine and shallow marine records: A test in the Cretaceous of Montana: Journal of Geology 108: 131-154.
- Rogers, R.R., J.H. Hartman, and D.W. Krause. 2000. Stratigraphic analysis of Upper Cretaceous Rocks in the Mahajanga Basin, northwestern Madagascar: Implications for ancient and modern faunas: Journal of Geology 108: 275-301.
- Fricke, H.C., and R.R. **Rogers**. 2000. A multiple taxon/multiple locality approach to providing oxygen isotope evidence for endothermic homeothermy in theropod dinosaurs: Geology 28, 799-802.
- Blob, R., M. Carrano, R.R. **Rogers**, C. Forster, and L. Espinoza, 2001. A new fossil frog from the Upper Cretaceous Judith River Formation of Montana: Journal of Vertebrate Paleontology 21: 190-194.
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- Rogers, R.R., A.B. Arcucci, F. Abdala, P.C. Sereno, C.A. Forster, and C.L. May. 2001. Paleoenvironment and taphonomy of the Chañares Formation tetrapod assemblage (Middle Triassic), Northwestern Argentina: Spectacular preservation in volcanogenic concretions: Palaios 16(5): 461-481.
- Rogers, R.R., D.W. Krause, and K. Curry Rogers, 2003. Cannibalism in the Madagascan dinosaur *Majungatholus atopus*. NATURE 422: 515-518.
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- Behrensmeyer, A.K., F.T. Fürsich, R.A. Gastaldo, S.M. Kidwell, M.A. Kosnik, M.Kowalewski, R.E. Plotnick, R.R. **Rogers**, J. Alroy. 2005. Are the most durable shelly taxa also the most common in the marine fossil record? Paleobiology 31: 607-623.
- Rogers, R.R. 2005. Fine-grained debris flows and extraordinary vertebrate burials in the Late Cretaceous of Madagascar. Geology 33: 297-300.
- Krause, D.W., P.M. O'Connor, K. Curry Rogers, S.D. Sampson, G.A. Buckley, R.R. **Rogers**. 2006. Late Cretaceous terrestrial vertebrates from Madagascar: Implications for Latin American biogeography. Annals of the Missouri Botanical Garden 93: 178-208.
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- Roberts, E.M.**, R.R. **Rogers**, and **B.Z. Foreman**. 2007. Continental insect borings in dinosaur bone: examples from the Late Cretaceous of Madagascar and Utah. Journal of Paleontology 81: 201-208.
- Rogers, R.R., D.W. Krause, K. Curry Rogers, A.H. Rasoamiaramanana, L. Rarahantarisoa. 2007. Paleoenvironment and paleoecology of *Majungasaurus crenatissimus* (Theropoda: Abelisauridae) from the Late Cretaceous of Madagascar. Journal of Vertebrate Paleontology 27, supplement to no. 2, Memoir 8: 21-31.
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- Foreman, B.Z., R.R. Rogers, A.L. Deino, K.R. Wirth, and J.T. Thole. 2008. Geochemical characterization of bentonite beds in the Two Medicine Formation (Campanian, Montana), including a new $^{40}\text{Ar}/^{39}\text{Ar}$ age. *Cretaceous Research* 29: 373-385.
- Fricke, H.C., R.R. Rogers, R. Backlund, C.N. Dwyer, S. Echt. 2008. Preservation of primary stable isotope signals in dinosaur remains, and environmental gradients of the Late Cretaceous of Montana and Alberta. *Palaeogeography, Palaeoclimatology, Palaeoecology* 266: 13-27.
- Trueman, C.N., M.R. Palmer, J. Field, K. Privat, N. Ludgate, V. Chavagnac, D.A. Eberth, R. Cifelli, R.R. Rogers. 2008. Comparing rates of recrystallisation and the potential for preservation of biomolecules from the distribution of trace elements in bones. *Palevol* 7: 145-158.
- Fricke, H.C., R.R. Rogers, and T.A. Gates. 2009. Hadrosaurid migration: inferences based on stable isotope comparisons among Late Cretaceous dinosaur localities. *Paleobiology* 35:270-288.
- Koenig, A.E., R.R. Rogers, and C.N. Trueman. 2009. Visualizing fossilization using laser ablation – inductively coupled plasma – mass spectrometry maps of trace elements in Late Cretaceous bones. *Geology* 37:511-514.
- Rogers, R.R., and M.E. Brady. In Press. Origins of microfossil bonebeds: insights from the Upper Cretaceous Judith River Formation of north-central Montana. *Paleobiology*.
- Samonds, K.E., I.S. Zalmout, M.T. Irwin, D.W. Krause, R.R. Rogers, and L.L. Raharivony. In Press. *Eotheroides lambondrano*, new middle Eocene seacow (Mammalia, Sirenia) from the Mahajanga Basin, northwestern Madagascar. *Journal of Vertebrate Paleontology*.
- Rogers, R.R., H.C. Fricke, V. Addona, R.R. Canavan, C.N. Dwyer, C.L. Harwood, A.E. Koenig, R. Murray, J.T. Thole, and J. Williams. In Review. Using laser ablation–inductively coupled plasma–mass spectrometry (LA-ICP-MS) to explore geochemical taphonomy of vertebrate fossils in the Upper Cretaceous Two Medicine and Judith River Formations of Montana. *Palaios*.

*red denotes undergraduate student author (past or present advisee)

(Bonebeds Book Project: University of Chicago Press)

- Rogers, R.R., D.A. Eberth, and A.R. Fiorillo (editors). 2007. *Bonebeds: Genesis, Analysis, and Paleobiological Significance*. University of Chicago Press. Chicago.
- My contributions include:*
- Preface
 - Rogers, R.R., and S.M. Kidwell. Chapter 1: A conceptual framework for the genesis and analysis of vertebrate skeletal concentrations. (pages 1-63)
 - Eberth, D.A., R.R. Rogers, A.R. Fiorillo. Chapter 5: A practical approach to the study of bonebeds. (pages 265-332)

(Book Chapters / Invited Contributions / Field Guides / Encyclopedia Contributions / Popular Articles)

- Rogers, R.R. 1993. Systematic patterns of time-averaging in the terrestrial vertebrate record: A Cretaceous case study, in S. M. Kidwell and A. K. Behrensmeyer (eds.), *Taphonomic Approaches to Time Resolution in Fossil Assemblages*, Short Courses in Paleontology Number 6: 228-249.
- Rogers, R.R. 1993. Marine facies of the Judith River Formation (Campanian) in the type area, north-central Montana. *Montana Geological Society, 1993 Fieldguide*: 61-69.
- Rogers, R.R. 1994. Collecting taphonomic data from vertebrate localities, in P. Leiggi and P. May (eds.), *Vertebrate Paleontological Techniques*, Cambridge University Press: 47-58.
- Rogers, R.R. 1997. Two Medicine Formation, in P. Currie and K. Padian (eds.), *The Dinosaur Encyclopedia*, Academic Press: 760-765.
- Rogers, R.R. 1997. Ischigualasto Formation, in P. Currie and K. Padian (eds.), *The Dinosaur Encyclopedia*, Academic Press: 372-374.

- Rogers, R.R. 2001. The Cambrian Explosion. Biology, Macmillan Science Library (R. Robinson, ed.), Macmillan Reference USA.
- Rogers, R.R. 2001. Paleontology. Biology, Macmillan Science Library (R. Robinson, ed.), Macmillan Reference USA.
- Rogers, R.R. 2003. How Old is Old: The Evolution of Life on Earth. Random House Children's Books, USA
- Gottfried, M.D., K. Curry Rogers, and R. **Rogers**. 2004. First record of Late Cretaceous coelacanths from Madagascar. *In*: Recent advances in the origin and early radiation of vertebrates (G. Arratia, ed.) (Festschrift volume for H.-P. Schultze). F. Pfeil, Berlin: 687-691.
- Rogers, R.R. 2006. Meat eating dinosaurs: Teeth marks tell of cannibalism. *Dig* (an archaeology magazine for children) 8: 22-23.
- Rogers, R.R., and D.W. Krause. 2007. Tracking an Ancient Killer. *SCIENTIFIC AMERICAN* (feature article in February 2007 issue): 42-51.

(Book Reviews)

- Rogers, R.R. 1991. review of J. Weigelt, 1989, *Recent Vertebrate Carcasses and their Paleobiological Implications* [translated by Judith Schaefer], University of Chicago Press. *Journal of Geology* 99: 893.
- Rogers, R.R. 1993. review of D.D. Gillette and M.G. Lockley, 1991, *Dinosaur Tracks and Traces*, Cambridge University Press. *Journal of Geology* 101: 128-129.
- Rogers, R.R., 2003. review of D.R. Carter and G.S. Beaupré, 2001, *Skeletal Function and Form: Mechanobiology of Skeletal Function, Aging, and Regeneration*, Cambridge University Press. *Palaios* 18(1): 79.

(Abstracts – All Linked to Conference Presentations)

- Sears, J.W., C.P. Weiss, S. Buckley, L. Angeloni, R. Kell, J. Kruger, P. Murphy, P. Reynolds, R. **Rogers**, and L. Strayer. 1987. Strain balance through a 25 km thick thrust system and problems in plunge projection over long distances, west-central Montana thrust belt: Geological Society of America, Abstracts with Programs, 1987 Annual Meeting: 837.
- Rogers, R.R. 1988. Taphonomy of a hadrosaur bonebed, Two Medicine Formation, northwestern Montana: *Journal of Vertebrate Paleontology* 8, Supplement to Number 3: 24A.
- Rogers, R.R., and S.D. Sampson. 1989. A drought-related mass death of ceratopsian dinosaurs (Reptilia: Ornithischia) from the Two Medicine Formation (Campanian) of Montana: *Journal of Vertebrate Paleontology* 9, Supplement to Number 3: 36A.
- Gyllenhaal, E.D., M.E. Patzkowsky, and R.R. **Rogers**. 1991. Gradients in paleo-precipitation in the Mesozoic and Cenozoic of the United States inferred from the distribution of climate-sensitive sediments and paleosols: Geological Society of America, Abstracts with Program, Annual Meeting: A342.
- Rogers, R.R., J.R. Horner, and C.C. Swisher. 1991. First radiometric dates from the Upper Cretaceous Two Medicine Formation, Montana: Geological Association of Canada Annual Meeting, Program with Abstract 16: A107.
- Rogers, R.R., C.A. Forster, C.L. May, A.M. Monetta, and P.C. Sereno. 1992. Paleoenvironment and taphonomy of the dinosaur-bearing Ischigualasto Formation (Upper Triassic, Argentina): Fifth North American Paleontological Convention, Abstracts and Program: 249.
- Rogers, R.R. 1993. Systematic patterns of time-averaging in the terrestrial vertebrate record: Two Medicine-Judith River interval, Montana: *Journal of Vertebrate Paleontology* 13, Supplement to Number 3: 54A.
- Rogers, R.R. 1993. Sequence stratigraphy of an alluvial to marine transect: Cretaceous Two Medicine-Judith River interval, Montana: Geological Society of America, Abstracts with Programs, 1993 Annual Meeting: A404.

- Arcucci, A.B., F. Abdala, R. **Rogers**, and P. Sereno. 1994. Tafonomia de la Formacion Chañares (Triasico Medio) Provincia de la Rioja, Argentina. VI Congreso Argentino de Paleontologia y Biostratigraphia, Trelew-Chubut: Resumenes Museo Paleontologico Edigio Feruglio: 16.
- Rogers, R.R., A.B. Arcucci, C.A. Forster, F. Abdala, and P.C. Sereno. 1994. Stratigraphic context and taphonomy of the Middle Triassic Los Chañares fauna, La Rioja Province, Argentina: *Journal of Vertebrate Paleontology* 14, Supplement to Number 3: 43A.
- Rogers, R.R. 1994. Regressive-transgressive turnaround in the marginal marine to nonmarine Judith River Formation (Campanian), Montana: From the obvious to the obscure: Geological Society of America, Abstracts with Programs, 1994 Annual Meeting: A431.
- Rogers, R.R., C.A. Forster, R.W. Blob, and M.T. Carrano. 1995. Late Cretaceous vertebrates by the sea: Diverse nonmarine assemblages in coastal facies of the Campanian Judith River Formation, north-central Montana: Geological Society of America, Rocky Mountain Section, Abstracts with Programs: 52.
- Rogers, R.R. 1995. Allostratigraphy of the Judith River Formation (Campanian) in the type area (Missouri Breaks), north-central Montana: Geological Society of America, Rocky Mountain Section. Abstracts with Programs: 53.
- Carrano, M.T., R.W. Blob, J.J. Flynn, C.A. Forster, and R.R. **Rogers**. 1995. Additions to the fauna of the Judith River Formation (Campanian) type area, north-central Montana, with possible range extensions of two genera of eutherian mammals: *Journal of Vertebrate Paleontology* 15, Supplement to Number 3: 21A.
- Rogers, R.R., and C.C. Swisher, 1996. The Claggett and Bearpaw transgression revisited: New $^{40}\text{Ar}/^{39}\text{Ar}$ data and a review of possible drivers: Geological Society of America, North-Central Section, Abstracts with Program, 28 (6): 62.
- Rogers, R.R. 1996. A nonmarine perspective on the sedimentology of the Claggett and Bearpaw transgressions: Geological Society of America, Rocky Mountain Section. Abstracts with Program, 28(4): 36-37.
- Rogers, R.R., and S.M. Kidwell. 1996. Comparative taphonomy of a nonmarine-marine transect: skeletal signatures of discontinuity surfaces in the Campanian Judith River-Bearpaw sequence, Montana: Sixth North American Paleontological Convention, Abstracts of Papers, Special Publication - The Paleontological Society 8: 326.
- Rogers, R.R., and D.A. Eberth. 1996. Stratigraphic utility of vertebrate microfossil assemblages in the Campanian of Montana and Alberta: *Journal of Vertebrate Paleontology* 16, Supplement to Number 3: 61A.
- Rogers, R.R., and C.L. May. 1996. Cyclic lacustrine sedimentation and volcanism in the Triassic Los Rastros Formation, La Rioja Province, Argentina: Geological Society of America, Annual Meeting, Abstracts and Program 28(7): 473.
- Benner, J.S.**, P.L. Garvin, and R.R. **Rogers**, 1997. Sedimentology and taphonomy of Pennsylvanian paleokarst deposits in the Middle Devonian Davenport Member, Wapsipinicon Fm., Scott Co., Iowa: Geological Society of America, North-Central Section, Abstracts with Programs, 29 (4), 4-5.
- Rogers, R.R., S.D. Sampson, and **E.M. Roberts**, 1997. Taphonomy of semi-arid depositional settings: A case study from the subtropical Late Cretaceous of Madagascar: *Journal of Vertebrate Paleontology* 17, Supplement to Number 3: 71A.
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- Fricke, H.C., and R.R. **Rogers**, 1997. Atmospheric water content in the Late Cretaceous relative to the present as determined by the oxygen isotope composition of phosphate from freshwater fish scales: Geological Society of America, Annual Meeting, Abstracts and Program, v. 29 (6): A-395.
- Rogers, R.R., and J.H. Hartman, 1998. Revised age of the dinosaur-bearing Maevarano Formation (Upper Cretaceous), Mahajanga Basin, Madagascar: *Journal of African Earth Sciences* 27: 160-162.
- Munyikwa, D., S.D. Sampson, R.R. **Rogers**, C.A. Forster, K.A. Curry, and B.D. Curtice, 1998. Vertebrate paleontology and geology of the Gokwe Formation, Zimbabwe: *Journal of African Earth Sciences* 27: 142-143.
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- Fricke, H.C., and R.R. **Rogers**, 1998. Oxygen isotope ratios of dinosaur tooth enamel and fish body scales: insights into climate during the Late Cretaceous: *Journal of Vertebrate Paleontology* 18, Supplement to Number 3, 43A.
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- Sandler, L.J.**, K. Chin, and R.R. **Rogers**, 1998. White River herbivore coprolites re-evaluated: Taphonomic and paleoecological implications: Geological Society of America, Annual Meeting, Abstracts and Program, v. 30 (6), A-31.
- Rogers, R.R., and S.M. Kidwell, 1999. Geological Origins of Bonebeds: *Journal of Vertebrate Paleontology* 19, Supplement to Number 3, 71A.
- Fiorillo, A.R., and R.R. **Rogers**, 1999. Bonebeds: A nomenclatural and historical overview: *Journal of Vertebrate Paleontology* 19, Supplement to Number 3, 44A.
- Eberth, D.A., R.R. **Rogers**, and D.B. Brinkman, 1999. The collecting and significance of data from mono-, pauci-, multi-taxic, and microfossil bonebeds: *Journal of Vertebrate Paleontology* 19, Supplement to Number 3, 43A.
- Rogers, R.R., and J.H. Hartman, 1999. Depositional setting and paleoclimate of the Maevarano Formation, Madagascar: Paleoenvironment of a remarkable Late Cretaceous vertebrate fauna: Abstracts VII International Symposium on Mesozoic Terrestrial Ecosystems, Buenos Aires, p. 56.
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- Miller, J.H.**, R.R. **Rogers**, K.R. Wirth, and R.K. Dunn. 2000. Preliminary analyses of paleosols in the Upper Cretaceous Maevarano Formation (Mahajanga Basin), northwestern Madagascar: Paleoclimatic implications: Geological Society of America, Annual Meeting, Abstracts and Program, v. 32, A305.
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- Rogers, R. R., A.B. Arcucci, and F. Abdala. 2001. Taphonomy of the Chañares Formation tetrapod assemblage (Middle Triassic), northwestern Argentina: Spectacular preservation in volcanogenic concretions: XVII Jornadas Argentinas de Paleontología de Vertebrados, Esquel – Chubut, 32.
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- Rogers, R.R., and J. Miller, 2002. Paleoenvironmental and taphonomic perspectives on the Late Cretaceous world of the abelisaurid theropod *Majungatholus atopus*. *Journal of Vertebrate Paleontology* 22, Supplement to Number 3, 100A.
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- Roberts, E.**, R. Rogers, and B. **Foreman**. 2003. An experimental approach to identifying and interpreting dermestid (Insecta, Coleoptera) bone modification. *Journal of Vertebrate Paleontology* 23 (suppl. to 3):89A.
- Steele, E., H. Fricke, and R. Rogers, 2003. Carbon isotope evidence for ecological niche partitioning among herbivorous dinosaurs of the Judith River Formation, Montana. *Journal of Vertebrate Paleontology* 23 (suppl. to no. 3): 100A.
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- Dwyer, C.N.**, R.R. Rogers, H. Fricke, and J.T. Thole. 2004. A comparative investigation of diagenesis in fossil teeth: A case study from the Upper Cretaceous Two Medicine and Judith River formations of Montana. Geological Society of America Abstracts with Programs, Vol. 36, no. 5: 64.
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- Harwood, C., R. **Rogers**, H. Fricke, and J. Thole. 2005. A comparative study of authigenic mineralization and rare earth element geochemistry of vertebrate microfossil assemblages in the Campanian Judith River Formation of Montana. Abstracts with Programs, Geological Society of America 37, no. 7: 301
- Harwood, C., and R. **Rogers**, 2006. Authigenesis of vertebrate fossils on a marine sequence boundary in the Upper Cretaceous Judith River Formation of north-central Montana, U.S.A. Geophysical Research Abstracts, vol. 8: 04901.
- Jankowski, K., C. Harwood, D. Patel, A. Ashley, D. Bell, J. Thole, and R. **Rogers**, 2006. Sedimentology and taphonomy of the Dakota Rose bonebed of the Cretaceous Carlile Shale near Milbank, South Dakota. Geological Society of America Abstracts with Programs 38(4): 68.
- Fricke, H., and R. **Rogers**. 2006. Stable isotope comparisons among Late Cretaceous dinosaur localities: Can inferences related to hadrosaur habitat preference and migration be drawn in light of diagenesis? Abstracts of Papers, Journal of Vertebrate Paleontology, vol. 26, suppl. No. 3: 106A.
- Brady, M., and R. **Rogers**. 2007. Exploring the origins of microfossil bonebeds. Abstracts of Papers, Journal of Vertebrate Paleontology, vol. 27, suppl. No. 3: 52A.
- Canavan, R., R. **Rogers**, A. Koenig, M. Brady, C. Harwood. 2008. A geochemical approach to deciphering the origins of microfossil bonebeds in the Upper Cretaceous Judith River Formation, Montana. Abstracts of Papers, Journal of Vertebrate Paleontology, vol. 28, suppl. No. 3: 60A.
- Foreman, B., H. Fricke, and R. **Rogers**. 2008. A multi-proxy, multi-depositional environment approach to reconstructing paleohydrologic conditions using stable isotopes across the Late Cretaceous (Campanian) foreland basin of Montana. Abstracts of Papers, Journal of Vertebrate Paleontology, vol. 28, suppl. No. 3: 79A.
- Kast, S., R. **Rogers**, K. Curry Rogers. 2008. Reconstructing Late Cretaceous climate in the Mahajanga Basin of northwestern Madagascar. Abstracts of Papers, Journal of Vertebrate Paleontology, vol. 28, suppl. No. 3: 99A.
- Koenig, A., R. **Rogers**, and C. Trueman. 2008. Visualizing fossilization histories in bones using high resolution elemental mapping. Abstracts of Papers, Journal of Vertebrate Paleontology, vol. 28, suppl. No. 3: 101A.
- *red denotes undergraduate student author (past or present advisee).**

IV. INVITED LECTURES

1991. Invited Speaker, Cretaceous Nonmarine Paleogeography and Paleobiology of Laurasia, Geological Association of Canada, Toronto (First Radiometric Dates from the Upper Cretaceous Two Medicine Formation, Montana)
1993. Invited Speaker/Author. "Taphonomic Approaches to Time Resolution in Fossil Assemblages", a short course of the Paleontological Society given at the 1993 Geological Society of America Meeting, Boston (Systematic Patterns of Time-Averaging in the Terrestrial Vertebrate Record: A Cretaceous Case Study)
1994. Invited Speaker, Evolutionary Morphology Lecture Series, University of Chicago (Taphonomy and Time-Averaging)
1994. Invited Speaker, Montana Geological Society, Billings, Montana (Geology of the Montana Group)
1995. Invited Speaker, Geological Society of America, Symposium of the Rocky Mountain Section, Late Cretaceous-Early Paleogene Paleofaunas and Paleoenvironments of the Northern Rocky Mountains (Late Cretaceous Vertebrates by the Sea: Diverse Nonmarine Assemblages in Coastal Facies of the Campanian Judith River Formation, North-Central Montana)

1996. Invited Speaker, University of Nebraska, Geology Lecture Series, (Sequence Stratigraphy and Comparative Taphonomy of a Marine-Nonmarine Transect)
1996. Invited Speaker, Geological Society of America, Symposium of the Rocky Mountain Section, Perspectives on the Cretaceous Western Interior Basin (A Nonmarine Perspective on the Sedimentology of the Claggett and Bearpaw Transgressions)
1996. Invited Speaker, Geological Society of America, Symposium of the North-Central Section, Mesozoic Paleoenvironments of North America (The Claggett and Bearpaw Transgression Revisited: New ⁴⁰Ar/³⁹Ar Data and a Review of Possible Drivers)
1996. Invited Discussant, Field Museum of Natural History, Spring Systematics Symposium, "The Andes"
1996. Invited Speaker, University of Iowa, Geology Lecture Series (Sequence Analysis of the Two Medicine-Judith River Interval)
1997. Invited Speaker, State University of New York, Stony Brook, Department of Anatomy Lecture Series (Geology And Taphonomy of the Maevarano Formation, Madagascar)
1998. Invited Keynote Speaker, Annual Pew Research Symposium, Washington University (Exploring the Fossil Record of Dinosaurs from Montana to Madagascar)
2000. Invited Speaker, Minnesota Geological Society (Major Evolutionary Events of the Late Paleozoic)
2001. Invited Speaker, Minnesota Geological Society (3 talks – Mass Extinctions, Relative and Absolute Dating, Argentina Dinosaurs)
2001. Invited Speaker, Geological Society of America, Topical Session at the National Meeting (Boston) (Stratigraphic Paleobiology - The stratigraphy of vertebrate skeletal concentrations: Insights gained from the Upper Cretaceous of Montana)
2002. Invited Speaker, Linda Hall Library of Science, Linda Hall Lecture Series (Journey to the Mesozoic of Madagascar: An Introduction to Dinosaurs of the Red Island)
2004. Invited Speaker, University of Minnesota – Duluth, Geology Department Seminar Series (Expedition to the Late Cretaceous of Madagascar: Geology and Taphonomy of a stressed Terrestrial Ecosystem)
2004. Invited Speaker, University of Wyoming, Geology Department Seminar Series (Expedition to the Late Cretaceous of Madagascar: Geology and Taphonomy of a Stressed Terrestrial Ecosystem)
2004. Invited Speaker, Norwich University, Geology Department Seminar Series (Expedition to the Late Cretaceous of Madagascar: Geology and Taphonomy of a Stressed Terrestrial Ecosystem)
2005. Invited Speaker, University of Utah, Geology Department Seminar Series (Expedition to the Late Cretaceous of Madagascar: Geology and Taphonomy of a Stressed Terrestrial Ecosystem)
2005. Invited Speaker, McGill University, Geology Department Seminar Series (Expedition to the Late Cretaceous of Madagascar: Geology and Taphonomy of a Stressed Terrestrial Ecosystem)
2005. Invited Speaker, Minnesota Geological Survey, Visiting Lecturer Series (Expedition to the Late Cretaceous of Madagascar: Geology and Taphonomy of a Stressed Terrestrial Ecosystem)
2005. Invited Speaker, University of Minnesota, Department of Geology and Geophysics Seminar Series (Expedition to the Late Cretaceous of Madagascar: Geology and Taphonomy of a Stressed Terrestrial Ecosystem)
2006. Invited Speaker, California State University - Fresno, Department of Geology Seminar Series (Expedition to the Late Cretaceous of Madagascar: Geology and Taphonomy of a Stressed Terrestrial Ecosystem)
2006. Invited Speaker, Royal Tyrrell Museum, Alberta, Heaton Lecture Series (Expedition to the Late Cretaceous of Madagascar: Geology and Taphonomy of a Stressed Terrestrial Ecosystem)

- 2007. Invited Speaker, Michigan State University, Department of Geological Sciences (Expedition to the Late Cretaceous of Madagascar: Geology and Taphonomy of a Stressed Terrestrial Ecosystem)
- 2008. Invited Speaker, Eastern Tennessee State University, Department of Biology (Expedition to the Late Cretaceous of Madagascar: Geology and Taphonomy of a Stressed Terrestrial Ecosystem)
- 2008. Invited Speaker, Minnesota Geological Society (The Latest on the Permian Extinction Event)
- 2009. Invited Speaker, University of Michigan, Department of Geological Sciences, (Expedition to the Late Cretaceous of Madagascar: Geology and Taphonomy of a Stressed Terrestrial Ecosystem AND Origins of Microfossil Bonebeds)

V. GRANTS, AWARDS

(External Grants / Awards - Prior to Macalester)

- 1987. Research Grant, Society of Sigma-Xi, in support of master's thesis research
- 1991. Research Grant, Society of Sigma-Xi, in support of Ph.D. research
- 1991. Research Grant, Geological Society of America, in support of Ph.D. research
- 1991. Outstanding Mention, Geological Society of America student award for grant proposal
- 1991. Research Grant, American Museum of Natural History (Theodore Roosevelt Fund), in support of Ph.D. research
- 1993. Romer Prize, best student paper, national meeting of the Society of Vertebrate Paleontology, Albuquerque
- 1994. Research Grant, The Dinosaur Society, in support of microfaunal and taphonomic work in the Judith River Formation (co-PI's R. Rogers, C. Forster and R. Blob)

(External Grants – Since Macalester)

- 1998. Research Grant, National Geographic Society, "Paleontology and Geology of the Limpopo Valley, Zimbabwe: Exploring Early Dinosaur Evolution in Southern Africa."
- 2003-2006. Research Grant, National Science Foundation – Geology and Paleontology (EAR-0319041), Collaborative/RUI Research: Stable Isotope Reconstruction of North American Terrestrial Environments During the Late Cretaceous (co-PI Fricke is a geochemist at Colorado College).
- 1997-2001. Research Grant, National Science Foundation - Geology and Paleontology, (EAR-9706302), "Late Cretaceous Vertebrates from Madagascar: Implications for Gondwanan Biogeography." (Co- PI's – D. Krause, C. Forster, S. Sampson, **R. Rogers**, and G. Buckley; Collaborator: J. Hartman)
- 1998. Research Experiences for Undergraduates Supplement, National Science Foundation - Geology and Paleontology, "Late Cretaceous Vertebrates from Madagascar: Implications for Gondwanan Biogeography." (Co-PI's – D. Krause and **R. Rogers**)
- 2001-2004. Research Grant, National Science Foundation – Geology and Paleontology (EAR-106477), "Late Cretaceous Vertebrates from Madagascar: Implications for Gondwanan Biogeography." (Co-PI's – D. Krause, C. Forster, S. Sampson, **R. Rogers**, and G. Buckley)
- 2005-2010. Research Grant, National Science Foundation – Geology and Paleontology (EAR-0446488), "Late Cretaceous Vertebrates from Madagascar: Implications for Gondwanan Biogeography." (Co-PI's – D. Krause, C. Forster, **R. Rogers**, P. O'Connor, and G. Buckley)
- 2005. Equipment Grant, National Science Foundation, EAR 0520870 – This grant funded the purchase of an X-Ray Diffractometer (XRD) for the Science Division (Keck Lab) (Co-PI's K. Wirth, J. Doyle, T. Varberg, **R. Rogers**, J. Rife).

(Internal Grants – Macalester)

- 1998-99 – Wallace Research Grant – funded meeting attendance (Mesozoic Terrestrial Ecosystems) and research in Argentina and Boston
- 1999 – Beltmann Student Research Grant – funded thesis research of Joshua Miller
- 1999 – Keck Collaborative Student – Faculty Research Grant – funded thesis research of Rebecca Terry
- 2000 - Beltmann Student Research Grant – funded thesis research of Rebecca Terry
- 2001 – Beltmann Student Research Grant – funded summer project of Jonathan Beland
- 2001 – Keck Collaborative Student – Faculty Research Grant – funded thesis research of Elizabeth Hajek
- 2002 - Beltmann Student Research Grant – funded thesis research of Brady Foreman
- 2002 - Keck Collaborative Student – Faculty Research Grant – funded thesis research of Michelle Casey
- 2002-03 – Wallace Research Grant – funded my research in Cretaceous of Montana
- 2003 - Keck Collaborative Student – Faculty Research Grant – funded thesis research of Brady Foreman
- 2003 - Beltmann Student Research Grant - funded thesis research of Mara Brady
- 2003 - Beltmann Student Research Grant – funded thesis research of Anna Jerve
- 2004 - Keck Collaborative Student – Faculty Research Grant – funded thesis research of Mara Brady
- 2004 - Beltmann Student Research Grant – funded thesis research of Cara Harwood
- 2005 - Beltmann Student Research Grant – funded thesis research of Cara Harwood
- 2005-06 – Wallace Research Grant (with K. Curry Rogers) – funded research in Cretaceous of Montana and senior thesis research of Robin Canavan
- 2006 - Beltmann Student Research Grant – funded senior thesis research of Sophia Kast
- 2007 - Beltmann Student Research Grant – funded senior thesis research of Robin Canavan
- 2007 - Keck Collaborative Student – Faculty Research Grant – funded thesis research of Sophia Kast
- 2008 - Beltmann Student Research Grant – funded senior thesis research of Jeffrey Dobbins
- 2008 - Beltmann Student Research Grant – funded senior thesis research of Ken Nelson
- 2009 – Beltmann Student Research Grant – funded senior thesis research of Jeffrey Dobbins

VI. UNDERGRADUATE SENIOR HONORS THESES ADVISED (primary advisor)

- 1999 - Lillian Sandler – *Taphonomy and paleoecology of an unusually well-preserved sample of herbivore coprolites from the Chadron Formation (Eocene), South Dakota*, 96 p.
- 2000 – Joshua Miller - *Paleosols as indicators of paleoclimate in the Upper Cretaceous Maevarano Formation, Mahajanga Basin, northwestern Madagascar*, 111 p. – PhD (2009), University of Chicago
- 2000 – Adrian Sutter - *A comparative taphonomic study of vertebrate fossilization in marine and terrestrial strata of the Upper Cretaceous Judith River Formation, North-Central Montana*, 65 p.
- 2001 - Rebecca Terry – *Character and significance of a silicified unconformity in Late Triassic – Early Jurassic strata of the Limpopo Valley, Southern Zimbabwe*, 123 p. – PhD (2007), University of Chicago, presently post-doc, Stanford University
- 2002 – Elizabeth Hajek - *Comparative sedimentology of two Late Cretaceous localities near New Ulm, Minnesota*, 83 p. - obtained MS from University of Wyoming, presently PhD candidate, University of Wyoming, and Assistant Professor, Pennsylvania State University
- 2003 - Michelle Casey – *Magnetostratigraphy of the Upper Cretaceous Maevarano and Berivotra formations, Mahajanga Basin, northwestern Madagascar*, 130 p. – obtained MS from Virginia Tech, presently PhD candidate, Yale University

- 2004 - Brady Foreman – *Geochemical characterization and discrimination of bentonites in the Upper Cretaceous Two Medicine Formation, northwestern Montana*, 58 p. – presently PhD candidate, University of Wyoming
- 2004 - Anna Jerve – *Geochemical analysis and characterization of paleosols from the Masorobe Member of the Upper Cretaceous Maevarano Formation, Mahajanga Basin, northwestern Madagascar*, 53 p. – obtained MS (2006), Michigan State University, presently PhD candidate, Uppsala University (Sweden)
- 2005 - Brett Dennis-Duke - *Revisiting the magnetostratigraphy of the Upper Cretaceous Berivotra and Maevarano Formations, northwestern Madagascar*, 57 p.
- 2005 - Josephine Williams – *Authigenic cements and rare earth element concentrations in fossil bones from the Upper Cretaceous Two Medicine Formations, northwestern Montana*, 60 p.
- 2005 - Christopher Dwyer - *A comparative investigation of diagenesis fossil teeth from the Upper Cretaceous Two Medicine and Judith River Formations of Montana*, 78 p.
- 2005 - Mara Brady – *An experimental and field-based approach to the taphonomy of microvertebrate assemblages: a case study in the Judith River Formation of north-central Montana*, 135 p. – presently PhD candidate, University of Chicago
- 2006 - Cara Harwood – *Authigenic mineralization and geochemical taphonomy of vertebrate microfossils from the Upper Cretaceous Judith River Formation of Montana*, 107 p. – currently PhD candidate, University of California, Davis
- 2008 – Walter “Scott” Persons – *A field and laboratory study of the Ediacaran fossils of Hewitt’s Cove: Evidence of tectonic deformation and consideration of paleobiology*, 57 p. – currently MS candidate, University of Alberta (Edmonton)
- 2008 – Sophia Kast – *Reconstructing Late Cretaceous climate in the Mahajanga Basin of northwestern Madagascar*, 92 p.
- 2008 – Robin Canavan – *Authigenic cements and rare earth element signatures in microfossil bonebeds from the Upper Cretaceous Judith River Formation, north-central Montana*, 74 p. – presently PhD candidate, University of Wyoming
- 2009 – Ken Neson – *Clay and framework mineralogy of the Upper Cretaceous (Campanian) Judith River Formation, north-central Montana* – masters candidate, University of Georgia
- 2009 – Rachel Murray – *Characterizing environments of fossilization in the Two Medicine and Judith River Formations, Upper Cretaceous, Montana*.

VII. PROFESSIONAL AFFILIATIONS AND SERVICE

- Associate Editor, *Palaios*, 2002 – present
- Distinguished Lecturer – Paleontological Society (2003-2005)
- Judge, Romer Prize Award Committee, Society of Vertebrate Paleontology, 1999 – present
- Judge, Paleontological Society Grant-in-Aid Committee, 1998 - 2000
- Member - Geological Society of America (since 1995), Society of Vertebrate Paleontology (since 1987), Society of Economic Paleontologists and Mineralogists (since 2002)