

STEPHEN T. HASIOTIS, Ph.D.
Curriculum Vitae
Updated 112213

EDUCATION

University of Colorado, Boulder Geological Science PhD degree granted 5/97
Thesis Advisors Erle G. Kauffman and Mary J. Kraus. Thesis Title: *Redefining
Continental Ichnology and the Scoyenia Ichnofacies*. Defended April, 1997

University of Buffalo, NY Geology MS degree granted 2/91
Thesis Advisor Charles E. Mitchell. Thesis Title: *Paleontology, Sedimentology, and
Paleoecology of the Upper Triassic Chinle Formation in the Canyonlands Area,
southeastern Utah*. Defended December, 1990

University of Buffalo, NY Geology BS degree granted 5/85
Teacher Education Cert certifi. granted 5/85
- Earth Science
- General Science
- Chemistry

EMPLOYMENT HISTORY

2012–present Courtesy Appointment to the Department of Geography, University of Kansas,
appointed 3/12

2011–present Professor, Department of Geology, University of Kansas, appointed 7/11

2008–present Adjunct Senior Research Fellow (status level B; unpaid position), Department of
Archaeology, Flinders University, Adelaide, Australia, appointed from 12/01/08–
12/01/11

2005–present Curatorial Affiliate, Peabody Museum of Natural History, Yale University, New
Haven, CT. 5-year appointment with the Invertebrate Paleontology Section
(renewed until 2015)

2005–2011 Associate Professor, Department of Geology, University of Kansas, appointed 8/05

2002–2007 Courtesy Appointment to the University of Kansas Natural History Museum and
Center for Biodiversity Research

2001–2005 Assistant Professor, Department of Geology, University of Kansas appointed 8/01

1999–2001 Visiting Assistant Professor, Indiana State University, Department of Geography,
Geology, and Anthropology, Terre Haute, Indiana: Paleontology, Introduction to
Earth Science, Oceanography, Historical Archaeology, Introductory Geology
Laboratory Coordinator

1998–1999 Post-doctoral Fellow, Exxon Production Research Company (now ExxonMobil Upstream Research Company), Houston, TX; Next Generation Sequence Stratigraphy Group

1997–1998 Post-doctoral Student, University of Colorado, Boulder (off campus through Vanderbilt University); Antarctic Triassic burrows

1997 Summer Internship with Exxon Production Research Company, Fluvial/Tidal Group, Houston, TX; Reservoir characterization of sandstones and trap assessment of mudstones in continental environments

KU TEACING RECORD

A. List of Courses Taught

Course Number & Title	Semester/year	#Enrolled
GEOL 729 Ichnology	2013 Fall	8
GEOL 791 IchnoBioGeoSciences	2013 Fall	13
GEOL 728 Paleopedology	2012 Spring	6
GEOL 791 IchnoBioGeoSciences	2012 Spring	8
GEOL 304 History of the Earth	2012 Fall	8
GEOL 105 History of the Earth	2012 Fall	124
GEOL 729 Ichnology	2012 Fall	5
GEOL 791 IchnoBioGeoSciences	2012 Fall	6
GEOL 728 Paleopedology	2012 Spring	4
GEOL 791 IchnoBioGeoSciences	2012 Spring	7
GEOL 729 Ichnology	2011 Fall	3
GEOL 791 IchnoBioGeoSciences	2011 Fall	6
GEOL 791 IchnoBioGeoSciences	2011 Spring	9
GEOL 791 IchnoBioGeoSciences	2010 Fall	8
GEOL 729 Ichnology	2010 Fall	6
GEOL 304 History of the Earth	2010 Fall	8
GEOL 105 History of the Earth	2010 Fall	124
GEOL 791 IchnoBioGeoSciences	2010 Spring	7
GEOL 728 Paleopedology	2010 Spring	2
SABBATICAL	2009 Fall	
GEOL 560 Introduction to Field Geology	2009 Summer	24
GEOL 791 IchnoBioGeoSciences	2009 Spring	7
GEOL 521 Paleontology	2009 Spring	45
GEOL 791 IchnoBioGeoSciences	2008 Fall	3
GEOL 729 Ichnology	2008 Fall	12
GEOL 560 Introduction to Field Geology	2008 Summer	24
GEOL 791 IchnoBioGeoSciences	2008 Spring	4
GEOL 521 Paleontology	2008 Spring	34
GEOL 791 IchnoBioGeoSciences	2007 Fall	4

GEOL 729 Paleopedology	2007 Fall	7
GEOL 304 Historical Geology	2007 Fall	5
GEOL 105 History of the Earth	2007 Fall	176
GEOL 560 Introduction to Field Geology	2007 Summer	25
GEOL 521 Paleontology	2007 Spring	22
GEOL 791 IchnoBioGeoSciences	2006 Fall	5
GEOL 729 Ichnology	2006 Fall	4
GEOL 304 Historical Geology	2006 Fall	8
GEOL 105 History of the Earth	2006 Fall	179
GEOL 560 Introduction to Field Geology	2006 Summer	19
GEOL 791 IchnoBioGeoSciences	2006 Spring	5
GEOL 521 Paleontology	2006 Spring	20
GEOL 304 Historical Geology	2005 Fall	8
GEOL 105 History of the Earth	2005 Fall	179
GEOL 560 Introduction to Field Geology	2005 Summer	20
GEOL 921 Ichnology	2005 Spring	8
GEOL 791 IchnoBioGeoSciences	2005 Spring	5
GEOL 304 History of the Earth	2004 Fall	7
GEOL 105 History of the Earth	2004 Fall	157
GEOL 560 Introduction to Field Geology	2004 Summer	26
GEOL 791 IchnoBioGeoSciences	2004 Spring	7
GEOL 721 Paleosols	2004 Spring	5
GEOL 304 History of the Earth	2003 Fall	12
GEOL 105 History of the Earth	2003 Fall	180
GEOL 921 Ichnology Seminar	2003 Spring	3
GEOL 721 Paleosols Seminar	2002 Fall	10
GEOL 304 History of the Earth	2002 Fall	7
GEOL 105 History of the Earth	2002 Fall	153
GEOL 921 Ichnology Seminar	2002 Spring	5
GEOL 304 History of the Earth	2001 Fall	12
GEOL 105 History of the Earth	2001 Fall	153

B. Undergraduate Advising Record

2013 Megan Stahl	School of Education	Undergraduate Research Experience
2011 Darren Dunn	Department of Geology	Special Studies in Geology
2010 Andrew Williams	Industrial Arts & Design	Special Studies in Geology
2010 Jeanette Reynolds	School of Education	Undergraduate Research Experience
2010 Jessica Wiele	Department of Geology	Special Studies in Geology
2008 Joshua Spradlin	School of Education	Independent Study
2008 Emily La Fleur	School of Education	Undergraduate Research Experience
2008 Brett Kessling	School of Education	Undergraduate Research Experience
2008 Tim Hoffman	School of Education	Undergraduate Research Experience

2007 Emily Laut	Department of Geology	Special Studies in Geology
2007 Robert Wallace	School of Education	Undergraduate Research Experience

C. Graduate and Postgraduate Advising Record

Committee Chair: Doctoral

2013 Rebecca Dorward, in progress
2012 Nicole Dzenowski, in progress
2012 James Golab, in progress
2011 Adam Jackson, in progress
2010 Amanda Falk (co-chair with Martin; deceased), in progress
2010 Joshua Schmerge (co-chair with Martin; deceased), in progress
2010 Brian Platt, completed
2010 Julie Retrum (co-chair with Gonzalez), completed
2008 Jon Smith, completed
2007 David Burnham, completed
2005 Daniel Hembree, completed

Committee Chair: Masters

2013 Sean Fischer, in progress
2013 Tabatha Gabay, in progress
2013 Alexa Goers, in progress
2013 Joshua Hogue, in progress
2013 Robert Radar, in progress
2012 Andrew Connolly, in progress
2012 Matt Dowden (co-advise with Selden), in progress
2012 Sean Hammersburg, in progress
2011 Derek Raisanen, in progress
2011 Kim Drager (Co-chair with Dan Hirmas, Geography), in progress
2010 John Counts, completed
2010 Robin Moore, in progress
2010 Matt Jones, in progress
2010 Alicia Rosales (co-advise with Goldstein), in progress
2011 Wade Jones, completed
2011 Kim Montague (co-advise with Walton), completed
2011 David Riese, completed
2011 Joshua Schmerge, completed
2010 Sarah Wildermuth, in progress
2009 Amanda Falk (co-advise with Martin), completed
2010 David LoBue, completed
2008 Kenneth Bader (co-advise with Martin), completed
2005 Debra Jennings, completed
2005 Brian Platt, completed

Other Graduate Committee Service

2010 Alan Halfen, PhD Geography, completed
2010 Terri Woodburn, PhD Geography, completed
2010 Goran Miksa, PhD completed; Geology and Mining, University of Zagreb, Croatia
2011 Mark Bowen (PhD Geography)
2010 Marina Suarez (PhD Geology)
2010 Ezra Kulczycki (PhD Geology)
2009 Patty Ryberg (PhD EEB)
2006 Jillian Garvey (PhD; Zoology, La Trobe University, Melbourne, Victoria, Australia)
2005 Omar Torres (PhD EEB)
2004 Katrina Gobetz (PhD EEB)

2010 Michelle Mary, PhD Geology, in progress
2011 Hannah Wassermann (MS Geology)
2008 Jamie Conrad (MS Environmental Sciences, Arkansas State University, Jonesboro)
2007 Derek Kellogg (MS EEB)
2006 Sam Teeters (MS Geology)
2004 Jennifer Castle (MS Geology)
2004 Peter Dillet (MS Geology)
2004 Julie Retrum (MS Geology)
2003 Kristen Myshrall (MS Geology)
2002 Scott W. Heath (MS Geology)

D. Honors and Awards for Teaching

N/A

RESEARCH RECORD

A. Research Publications

Major Publications

141. Counts, J.C., and **Hasiotis, S.T.**, 2013 accepted. Distribution, paleoenvironmental implications, and sequence stratigraphic significance of trace fossils and paleosols in Lower Permian continental deposits of western Kansas. *Journal of Sedimentary Research*, 45 pages.
[MS student research; contributed to idea for the thesis, ichnology-paleosol relations, and writing, reviewed text and revisions]

140. Falk, A.R., Lim, J-D, and **Hasiotis, S.T.**, 2013 accepted. A Behavioral Analysis of Fossil Bird Tracks from the Haman Formation (Republic of Korea) Shows a Nearly Modern Avian Ecosystem. *Vertebrata Palasiatica*, 70 manuscript pages.
[PHD student research; contributed to interpretations and discussions, writing and revisions, reorganization]
139. Fiorillo, A.F., Fanti, F, Hulst, C., and **Hasiotis, S.T.**, 2013 accepted. New ichnological, paleobotanical and detrital zircon data from an unnamed rock unit in Yukon-Charley Rivers National Preserve (Cretaceous: Alaska): Stratigraphic implications for the region. *PALAIOS*, 35 manuscript pages.
[Join research project with colleagues, discovered specimens in field]
138. Platt, B. F., and **Hasiotis, S.T.**, 2013 accepted. Novel Neoichnology of Elephants: Nonlocomotive Interactions with Sediment, Locomotion Traces in Partially Snow-Covered Sediment, and Implications For Proboscidean Paleoichnology. GSA Special paper on Ichnology, 45 manuscript pages.
[Student research; helped devise research plan, shared writing, revisions]
137. Ash, S.R., **Hasiotis, S.T.**, 2013. New occurrences of the controversial Late Triassic plant fossil *Sanmaiguelia* Brown and associated ichnofossils in the Chinle Formation of Arizona and Utah, USA. *Neues Jahrbuch für Geologie und Paläontologie - Abhandlungen*, v. 268(1), 65-82.
[Discovered samples, shared research; collected specimens, shared writing, revisions]
136. Chakraborty, A., **Hasiotis, S.T.**, Ghosh, B., and Bhattacharya, H.N., 2013, Fluvial Trace Fossils in the Middle Siwalik (Sarmatian-Pontian) of Darjeeling Himalayas, India. *Journal of Earth System Science*, 27 manuscript pages.
[Invited to assist research; examined specimens, assisted with writing, revisions]
135. Das Gupta, S., Fang, J., Brake, S.S., and **Hasiotis, S.T.**, 2013. Stable carbon isotopic composition of lipids in Euglena-dominated biofilms from an acid mine drainage site: implications of carbon limitation, microbial physiology, and biosynthetic pathways: *Chemical Geology* v. 354, p. 15-21.
[Student research; helped devise research plan, shared writing, revisions]
134. Giles, J.M., Soreghan, M.J., Benison, K.C., Soreghan, G.S., and **Hasiotis, S.T.**, 2013, Lakes, Loess, and Paleosols in the Permian Wellington Formation of Oklahoma: Implications for Paleoclimate and Paleogeography of the Midcontinent. *Journal of Sedimentary Research*, v. 83, p. 825-846.
[Invited to assist with research; assisted with revisions to interpretations, implications of research]
133. **Hasiotis, S. T.**, McPherson, J., and Reilly, M., 2013. Using Ichnofossils to Reconstruct the Depositional History of Sedimentary Successions in Alluvial, Coastal Plain, and Deltaic

- Settings. 2013 International Petroleum Technical Conference Proceedings, Beijing, China, p. 1-48.
[Shared research program; did the majority of writing, revisions]
132. Schmerge, J.D., Riese, D.J., and **Hasiotis, S.T.**, 2013. Vinegaroon (Arachnida: Thelyphonida: Thalyphonidae) trackway production and morphology: Implications for media and moisture control on trackway morphology and a proposal for a novel system of interpreting arthropod trace fossils. *PALAIOS*, v. 28, p. 116-128.
[Student research; contributed to ichnology-paleosol relations and writing, reviewed text and revisions]
131. Ainsworth, R.B., **Hasiotis, S. T.**, Amos, K.J., Vakerelov, B.K., Krapf, C.B.E., and Sandstrom, M., 2012. Tidal deposits in an intercratonic lake. *Geology*, v. 40(7), p. 607-610.
[Shared research program; shared writing, revisions]
130. Brake, S. S., and **Hasiotis, S. T.**, 2012. Potential Metal Attenuation by Eukaryotic-Dominated Communities in Acid Mine Drainage at the Green Valley Coal Mine Site, Indiana. In, Comer, J. (ed.), *Effects of Abandoned Mine Land Reclamation on Ground and Surface Water Quality in Indiana*, Indiana Geological Survey Special Report 72, Bloomington, Indiana, p. 285-300.
[Shared research program; shared writing, revisions]
129. Das Gupta, S., Fang, J., Brake, S. S., **Hasiotis, S. T.**, and Zhang, L. 2012. Biosynthesis of Sterols and Wax Esters by *Euglena* of Acid Mine Drainage Biofilms: Implications for Eukaryotic Evolution and the Early Earth. *Chemical Geology*, v. 306-307, p. 139-145.
[Student dissertation project from shared research program; shared writing, revisions]
128. Dubois, M., Goldstein, R. H., and **Hasiotis, S. T.**, 2012. Climate controls on siliciclastic sedimentation in an aggradational landscape in marine-continental (carbonate-siliciclastic) Wolfcampian cyclothems. *Sedimentology*, v. 59, p. 1782-1816.
[Student research; contributed to ichnology-paleosol relations and writing, reviewed text and revisions]
127. **Hasiotis, S. T.**, 2012. An Overview of the Diversity and Patterns in Bioturbation preserved in Cambro-Ordovician Carbonate and Siliciclastic Deposits of Laurentia. In, Derby, J., Fritz, S. A. Longacre, W. A. Morgan, and C. A. Sternbach, eds., *The Great American Carbonate Bank*. AAPG Memoir 89, p. 113-125.
126. **Hasiotis, S. T.**, and Platt, B.F., 2012. Exploring the sedimentary, pedogenic, and hydrologic factors that control the occurrence and role of bioturbation in soil formation and horizonation in continental deposits: An integrative approach. *The Sedimentary Record*, v. 10(3), p. 4-9.
[My research program; principal author of this synthesis with input from former student]

125. **Hasiotis, S. T.**, Reilly, M., Amos, K, Lang, S., Kennedy, D., Todd, J., Michel, E., and Platt, B.F. 2012. Actualistic studies of the spatial and temporal distribution of terrestrial and aquatic traces in continental environments to differentiate lacustrine from fluvial, eolian, and marine environments. In, Berganz, O.W., Bartov, Y., Bohacs, K., and Nummedal, D., eds., *Lacustrine Sandstone Reservoirs and Hydrocarbon Systems*. AAPG Memoir 95, p. 433-489.
[Shared research program; principal author of this synthesis]
124. Hirmas, R., Platt, B. F., and **Hasiotis, S.T.**, 2012. Determination of calcite and dolomite content in soils and paleosols by continuous coulometric titration. *Soil Science Society of America Journal*, v. 76, p. 1100-1106 . DOI: 10.2110/JSR.2010.059.
[Spin-off of student research; my research area, helped collect samples, shared writing, revisions]
123. Platt, B. F., **Hasiotis, S.T.**, and Hirmas, R., 2012. Empirical determination of physical controls on megafaunal footprint formation through neoichnological experiments with elephants. *PALAIOS*, v. 27, p. 725-737.
[Student research; helped devise research plan, shared writing, revisions]
122. Dubiel, R.F., and **Hasiotis, S.T.**, 2011, Deposystems, paleosols, and climatic variability in a continental system: the Upper Triassic Chinle Formation, Colorado Plateau, U.S.A. In, Davidson, S., and North, C. eds., *From River to Rock Record: The Preservation of Fluvial Sediments and their Subsequent Interpretation*. SEPM Special Publication No. 97, p. 393-421.
[Shared research program; paleosols and ichnology and facies analysis my portion]
121. Falk, A., Martin, L.D., and **Hasiotis, S. T.**, 2011. A morphologic criterion for distinguishing bird tracks. *Journal of Ornithology*, v. 152, p. 701–716. DOI 10.1007/s10336-011-0645-x.
[Shared research program; help design and guide research and write manuscript]
120. Fairchild, J.M., and **Hasiotis, S. T.**, 2011. Terrestrial and aquatic neoichnological laboratory experiments with the freshwater crayfish *Orconectes*: trackways on media of varying grain size, moisture, and inclination. *PALAIOS*, v. 26, p. 790-804. DOI: 10.2110/palo.2011.p11-066r.
119. Fiorillo, A.R., **Hasiotis, S. T.**, Kobayashi, Y., Breithaupt, B.H., and McCarthy, P.J., 2011. Bird tracks from the Upper Cretaceous Cantwell Formation of Denali National Park, Alaska, U.S.A.: a new perspective on ancient northern polar vertebrate biodiversity. *Journal of Systematic Paleontology*, v. 9(1), p. 33-49.
[Shared research program; discovered some of the material; shared writing]
118. Retrum, J.B., **Hasiotis, S.T.**, and Kaesler, R.L., 2011. Neoichnological experiments with the freshwater ostracode *Heterocypris incongruens*: implications for reconstructing

aquatic settings. *PALAIOS*, v. 26, p. 509-518.
[Help devise research plan, assisted with lab work, writing, revisions]

117. Riese, D.J., **Hasiotis, S.T.**, and Odier, G., 2011. Burrows excavated by mammals or therapsids in the Navajo Sandstone and their association with other organisms represented by trace fossils in a wet desert ecosystem. *Journal of Sedimentary Research*, v. 81, p. 299-325. DOI: 10.2110/jsr.2011.25
[Devised the research plan, assisted with fieldwork, research, writing, revisions]
116. Vlahović, I, Goran, M., Mrinjek, E., **Hasiotis, S.T.**, Velić, I, Tišljarić, J., and Matićec, D., 2011. Response of tracemakers to temporary platform drowning: lower Cenomanian of southern Istria (Western Croatia). *PALAIOS*, v. 26(9), p. 567-577 .DOI: 10.2110/paleo.p11-002r
[Assisted with fieldwork, interpreted ichnofossil significance, writing, revisions]

-----Last Promotion-----

115. Brake, S.S., and **Hasiotis, S.T.**, 2010. Eukaryote-dominated biofilms and their significance in acid environments. *Geomicrobiology Journal Special Issue*, v. 27 (6), p. 534-558.
[Shared research program; shared writing, revisions]
114. Dilliard, K. A., Pope, M. C., Coniglio, M., **Hasiotis, S. T.**, and Lieberman, B.S., 2010. Sequence stratigraphy of the Lower Sekwi Formation, Selwyn Basin, Northwest Territories, Canada. *Sedimentology*, v. 57, p. 513-542.
[Student research; helped to collect data, review the text and figures]
113. Falk, A., **Hasiotis, S. T.**, and Martin, L.D., 2010. Feeding traces associated with bird tracks from the Lower Cretaceous Haman Formation, South Korea. *PALAIOS*, v. 25, p. 730-741.
[Student research; helped formulate the research plan, shared writing, revisions]
112. **Hasiotis, S. T.**, and Halfen, A.F., 2010. The Story of O: The Dominance of Organisms as a Soil-Forming Factor From an Integrated Geologic Perspective and Field and Experimental Studies Approach. In: Gilkes, R.J., and Prakongkep, N., (eds), *Proceedings of the 19th World Soil Congress, Brisbane, Queensland, Australia*. p. 100-103. ISBN 978-0-646-53783-2.
[Principal author of this synthesis]
111. Halfen, A.F., and **Hasiotis, S. T.**, 2010. Downward Thinking: Rethinking The “Up” in Soil Bioturbation. In: Gilkes, R.J., and Prakongkep, N., (eds), *Proceedings of the 19th World Soil Congress, Brisbane, Queensland, Australia*. p. 21-24. ISBN 978-0-646-53783-2.
[Student research; helped devise research plan, shared writing, revisions]
110. Halfen, A.F., and **Hasiotis, S.T.**, 2010. Neoichnological study of the traces and burrowing

- behaviors of the Western Harvester Ant *Pogonomyrmex occidentalis* (Insecta: Hymenoptera: Formicidae): Paleopedogenic and Paleoecological Implications. *PALAOIS*, v. 25(11), p. 703-720.
[Student research; helped devise research plan, shared writing, revisions]
109. Montague, K. E., Walton, A.A., and **Hasiotis, S. T.**, 2010. Euendolithic microborings in basalt glass fragments in hyaloclastites: extending the ichnofabric index to microbioerosion. *PALAIOS*, v. 25, p. 393-399.
[Student research; helped devise research plan, shared writing, revisions]
108. Platt, B. F., **Hasiotis, S.T.**, and Hirmas, R., 2010. Use of low-cost Multistripe Laser Triangulation (MLT) scanning technology for three-dimensional, quantitative paleoichnological and neoichnological studies. *Journal of Sedimentary Research*, v. 80(7), 21 pages; DOI: 10.2110/JSR.2010.059.
[Student research; helped devise research plan, shared writing, revisions]
107. Bader, K. S., **Hasiotis, S. T.**, and Martin, L.D., 2009. Trace fossils on dinosaur bones from a quarry in the Upper Jurassic Morrison Formation, Wyoming: Taphonomic Implications. *PALAIOS*, v. 24, p. 140-158.
[Student research; helped devise research plan, shared writing, revisions]
106. Counts, J.W., and **Hasiotis, S. T.**, 2009. Neoichnological experiments documenting burrowing behaviors and traces of the masked chafer beetle (Coleoptera: Scarabaeidae: *Cyclocephala* sp.): Behavioral significance of extant soil-dwelling insects to understanding backfilled trace fossils in the continental realm. *PALAIOS*, v. 24, p. 75-92.
[Student research; helped devise research plan, shared writing, revisions]
105. Fiorillo, A.R., **Hasiotis, S. T.**, and Kobayashi, Y, 2009. A Pterosaur Manus Track from Denali National Park, Alaska Range, Alaska, United States. *PALAIOS*, v. 29, p. 466-472.
[Shared research program; discovered the specimen, shared writing, revisions]
104. Smith, J.J., **Hasiotis, S. T.**, Woody, D. T., and Kraus, M. J. 2009. Transient dwarfism of soil fauna during the Paleocene-Eocene Thermal Maximum. *Proceedings of the National Academy of Science*, Early Edition, www.pnas.org/cgi/doi/10.1073/pnas.0909674106, p. 1-6., plus supplemental data.
[Student research; NSF-funded research plan, shared writing, revisions]
103. Eggermont, H., Kennedy, D., **Hasiotis, S. T.**, Verschuren, A. and Cohen, A., 2008. Distribution of living larval Chironomidae (Insect: Diptera) along a depth transect at Kigoma Bay, Lake Tanganyika: implications for palaeoenvironmental reconstruction. *African Entomology*, v. 16, p. 162-184.
[Student research; helped collect materials, shared some writing]

102. Hembree, D. I., and **Hasiotis, S. T.**, 2008. Miocene Vertebrate and Invertebrate Burrows Defining Compound Paleosols in the Pawnee Creek Formation, Colorado, U.S.A. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 270, p. 349-365.
[Student research; helped devise research plan, helped collect data; shared writing, revisions]
101. Brake, S. S., and **Hasiotis, S. T.**, 2008. Eukaryote-dominated biofilms in extreme environments: the overlooked contributors of information to the geologic record. *PALAIOS*, v. 23(3), p. 121-123.
[Shared research program; shared writing, revisions]
100. Garvey, J. and **Hasiotis, S. T.** 2008. Trace fossils of the Lower Carboniferous Snowy Plains Formation, Victoria, Australia. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 258, p. 257-276.
[Student research; helped devise research, shared writing, revisions]
99. **Hasiotis, S. T.**, 2008. Reply to the Comments by Bromley et al. of the paper “Reconnaissance of the Upper Jurassic Morrison Formation ichnofossils, Rocky Mountain Region, USA: paleoenvironmental, stratigraphic, and paleoclimatic significance of terrestrial and freshwater ichnocoenoses” by Stephen T. Hasiotis. *Sedimentary Geology*, v. 208, p. 61-68.
98. Platt, B. F., and **Hasiotis, S. T.**, 2008. New dinosaur tail-drag trace from the Upper Jurassic Morrison Formation, Big Horn basin, Wyoming. *PALAIOS*, v. 23(1), 3-13.
[Student research; helped devise research plan, shared writing, revisions]
97. Smith, J.J., and **Hasiotis, S. T.**, 2008. Traces and burrowing behaviors of the cicada nymph *Cicadetta calliope*: Neoichnology and paleoecological significance of extant soil-dwelling insects. *PALAIOS*, v. 23, p. 503-513.
[Student research; NSF-funded research plan, devised research, shared writing, revisions]
96. Smith, J.J., **Hasiotis, S. T.**, Woody, D. T., and Kraus, M. J., 2008. Crayfish-controlled pedogenic Features and implications for climate change recorded in alluvial deposits, Paleogene Willwood Formation, Bighorn Basin, Wyoming. *Journal of Sedimentary Research*, v. 78, p. 323-334.
[Student research; NSF-funded research plan, helped devise research, shared writing, revisions]
95. Smith, J. J., **Hasiotis, S. T.**, and Kraus, M. J., Woody, D., 2008. Morphology and paleoenvironmental implications of adhesive meniscate burrows (AMB), Paleogene Willwood Formation, Bighorn Basin, Wyoming. *Journal of Paleontology*, v. 82(2), p. 267-278.
[Student research; NSF-funded research plan, helped devise research, shared writing, revisions]

94. Smith, J.J., **Hasiotis, S. T.**, Kraus, M. J., and Woody, D. T., 2008. Relationship of floodplain ichnocoenoses to paleopedology, paleohydrology, and paleoclimate in the Willwood Formation during the Paleocene-Eocene Thermal Maximum (PETM) at Polecat Bench, Bighorn Basin, Wyoming. *PALAIOS*, v. 23, p. 696-711.
[Student research; NSF-funded research plan, shared writing, revisions]
93. Bohacs, K., **Hasiotis, S. T.**, and Demko, T. M., 2007. Continental ichnofossils of the Green River and Wasatch Formations, Eocene, Wyoming: a preliminary survey, proposed relation to lake-basin types, and application to integrated paleoenvironmental interpretation. *The Mountain Geologist*, v. 44(2), p. 79-108.
[Shared research program; discovered many materials, shared writing, revisions]
92. Dilliard, K. A., Pope, M. C., Montanez, I., **Hasiotis, S. T.**, and Lieberman, B.S., 2007. Stable isotope geochemistry of the Lower Cambrian Sekwi Formation, Northwest Territories, Canada: Implications for Ocean chemistry and secular curve generation. *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 256, p. 174-194.
[Student research; helped to collect data, review the text and figures]
91. Fang, J., **Hasiotis, S. T.**, Das Gupta, S., Brake, S. S., Brazalynski, B. S., 2007. Microbial community structure of a stromatolite from an acid mine drainage system: implications for the role of microeukaryotes in the formation of ancient Fe-rich stromatolites. *Chemical Geology*, v. 243, p. 191-204.
[Shared research program; helped devise research, shared writing, revisions]
90. **Hasiotis, S. T.**, 2007. Continental ichnology: fundamental processes and controls on trace-fossil distribution. In, Miller, W. III (ed.), *Trace Fossils—Concepts, Problems, Prospects*, Elsevier Press, p. 268-284.
89. **Hasiotis, S. T.**, Kraus, M. J., and Demko, T. M., 2007. Climate controls on continental trace fossils. In, Miller, W. III (ed.), *Trace Fossils—Concepts, Problems, Prospects*, Elsevier Press, p. 172-195.
[Principal author of this synthesis; shared research program]
88. **Hasiotis, S. T.**, Platt, B. F., Hembree, D. I., and Everhart, M., 2007. The trace-fossil record of vertebrates. In, Miller, W. III (ed.), *Trace Fossils—Concepts, Problems, Prospects*, Elsevier Press, p. 196-218.
[Principal author of this synthesis and research]
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Minor Publications

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[Shared Research Program; primary author of this synthesis]
12. Taylor, E.T. and **Hasiotis, S. T.**, 2007. Change is Good, Isn't it? *PALAIOS*, v. 22, p. 1-2.
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[Coeditors of *PALAIOS*; shared writing, revisions]
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8. Lieberman, B.S. and **Hasiotis, S. T.**, 2005. Paleontology along the Canol Road: Byway of cultural, natural, and evolutionary history. *Kansas Alumni Magazine*, v. 103, p. 64-65.
[Assisted with writing, revisions]

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7. Scott, E. C., Matzke, N. J., Branch, G...**Hasiotis, S. T.**....Zegura, S. L. 2004. The Morphology of Steve. *Annals of Improbable Research*, July-August, 2004, p. 24-29.
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4. **Hasiotis, S. T.**, and Wegweiser, M., 2002. A synopsis of the 2001 Boston Geological Society of America Topical Session No. 140, “Traces” of Soil Ecosystems through the Phanerozoic: New Insights into Terrestrial Paleoecology, Paleohydrology, and Paleoclimate. *Priscum News Letter*, Paleontological Society, v. 11(1), p. 7.

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3. **Hasiotis, S. T.** 1998. Continental trace fossils, Upper Triassic Chinle Formation, Petrified Forest National, Arizona. Department of Interior Internal-Use Document, Interpretation and Resource Management Offices, Petrified Forest National Park, Arizona, 40 p. Invited.
2. **Hasiotis, S. T.**, 1997. Abuzz before flowers... *Plateau Journal*, Museum of Northern Arizona, v. 1, p. 20-27.

1. **Hasiotis, S. T.** 1992. Fossils from the Upper Triassic Chinle Formation, Canyonlands area, southeastern Utah: Paleoclimatic Implications. *Park Paleontology, Fossil Resources in the National Park Service*, v. 2, p. 3-4.

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15. Brake, S. S., Arango, I., and **Hasiotis, S. T.**, in preparation. Composition, morphology, and distribution of stromatolite-building microbial consortia, Green Valley Coal Mine Site, Indiana, USA. *Environmental Geology*, 42 manuscript pages.
[Student research; helped devise research plan, shared writing, revisions]
14. Counts, J.W., and **Hasiotis, S. T.**, in preparation. Ichnotaxonomy of meniscate backfilled burrows in immature to mature alluvial paleosols, Lower Permian Council Grove Group, western Kansas. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 39 manuscript pages.
[Student research; helped devise research plan, shared writing, revisions]
13. Bader, K. S., and **Hasiotis, S. T.**, in preparation. Insect borings in dinosaur bones from fluvial deposits in the Upper Jurassic Morrison Formation of northeastern Wyoming. *Journal of Paleontology*, 49 manuscript pages.
[Student research; helped devise research plan, shared writing, revisions]
12. **Hasiotis, S. T.** in preparation. Late Triassic crayfish and associated benthic fauna from lacustrine facies of the Chatam Group (Newark Supergroup), Durham Basin, North Carolina. *Postilla*, 38 manuscript pages.
11. **Hasiotis, S.T.**, and Mitchell, C. M., in preparation. Earliest known crayfish fossils (Decapoda: Cambaridae?) from the Upper Triassic Chinle Formation, southeastern Utah, U.S.A.. To be submitted to the *Journal of Paleontology*.
[Shared research; devised research plan, shared writing, revisions]
10. **Hasiotis, S. T.**, Dubiel, R. F., and Franczyk, K. J. in preparation. Lacustrine ichnofossils from the Late Eocene Uinta Formation, Uinta Basin, northeastern Utah. *Palaeogeography, Palaeoclimatology, Paleocology*, 30 p.
[Shared research; devised research plan, shared writing, revisions]
9. **Hasiotis, S. T.**, Lieberman, B. S., Dilliard, K. A., and Pope, M. C., in preparation. Earliest trace-fossil evidence for the transition of animal life to land. *PALAIOS*, 16 manuscript pages.
[Shared research; discovered locality, devised concept, shared writing, revisions]

8. Platt, B. F., **Hasiotis, S. T.**, Kvale, E., and Kraus, M. J. in preparation. Integrating ichnofossils, paleosols, and sedimentary facies to interpret avulsion in floodplain deposits in the Upper Jurassic Morrison Formation, Big Horn Basin, Wyoming. *Journal of Sedimentary Research*, 70 manuscript pages.
[Student research; helped devise research plan, shared writing, revisions]
7. Schmerge, J., **Hasiotis, S.T.**, and Martin, L.D., in review 2012. Body mass increase of small mammals across the Eocene-Oligocene boundary near Douglas Wyoming: a statistical analysis. *Journal of Paleontology*, 27 manuscript pages.
[Student research; help devise research plan, shared writing, revisions]
6. Falk, A., **Hasiotis, S. T.**, and Martin, L.D., in review. A behavioral analysis of bird tracks from the Lower Cretaceous Lakota Formation, South Dakota, U.S.A. *PALAIOS*, 29 manuscript pages.
[Student research; help devise research plan, shared writing, revisions]
5. Jones, W.J., and **Hasiotis, S.T.**, in review. Lungfish burrows of the Upper Devonian Catskill Formation, north-central Pennsylvania, USA: morphological distinction and evolutionary implications. *Palaeontology*, 46 manuscript pages.
[Student research; devised research plan, shared writing, revisions]
4. Riese, D.J., and **Hasiotis, S.T.**, in review. *Labyrinthopolis odieri* and *Schemalitos psalihyponomes* (New ichnogenera and ichnospecies): vertebrate burrows in the Lower Jurassic Navajo Sandstone. *Journal of Paleontology*, 46 manuscript pages.
[Student research; devised research plan, shared writing, revisions]
3. Schmerge, J., **Hasiotis, S.T.**, and Martin, L.D., in review. Body mass increase of small mammals across the Eocene-Oligocene boundary: possible effect of climate change. *Journal of Vertebrate Paleontology*, 34 manuscript pages.
[Devised the research plan, assisted with research, writing, revisions]
2. Schmerge, J., **Hasiotis, S.T.**, and Martin, L.D., in review. Reduction in body mass of mammalian communities across the Eocene-Oligocene boundary near Douglas Wyoming: a statistical analysis. *PALAIOS*, 37 manuscript pages.
[Student research; help devise research plan, shared writing, revisions]
1. Lobue, D.J., and **Hasiotis, S.T.**, in review. Ichnotaxonomic assessment of Mazon Creek area trace fossils, Illinois, USA. *Fieldiana*, 115 manuscript pages.
[Student research; devised research plan, assisted with research, writing, revisions]

B. Scholarly Presentations

Major Presentations

286. Connolly, A.M., Golab, J.A., Wolfe, B.A., Wildermuth, S., Jackson, A., Hammersburg, S.R., Jones, M., Goers, A., Fischer, S., Radar, R., Huber, M., Hogue, J., Moelling, L., Gabay, T., Dorward, B., Falk, A.R., Dzenowski, N., Raisanen, D., and **Hasiotis, S.T.**, 2013, A new Ichnology Website at the University of Kansas (<http://ichnology.ku.edu>): A guide to identify trace fossils, interpret organism behaviors, and reconstruct paleoenvironments and paleoecosystems, and understand the stratigraphic record of behavior. North American Paleontological Conference, Gainesville, FL, February 14-18, 1 p.
285. **Hasiotis, S.T.**, Jackson, A.M., Flaig, P.P., and Isbell, J.L., 2013 accepted, Ichnocoenoses and Ichnofacies of marine and continental deposits in Permian–Triassic strata of the Beacon Supergroup, Beardmore Glacier Area, Central Transantarctic Mountains, Antarctica. America Association of Petroleum Geologists National Meeting, Houston, TX, April 6-9, 1 p.
284. **Hasiotis, S.T.**, and Rankey, G., 2013 accepted, Ichnofacies and Ichnoporosity-Ichnopermeability in Carbonate Strata: Comparison of Recent, Holocene, and Pleistocene Successions of Crooked-Acklins Platform, Bahamas. America Association of Petroleum Geologists National Meeting, Houston, TX, April 6-9, 1 p.
283. Connolly, A.M., Golab, J.A., Wolfe, B.A., Wildermuth, S., Hammersburg, S.R., Dzenowski, N., Schmerge, J., Falk, A.R., and **Hasiotis, S.T.**, 2013, From *Abelichnus* to *Zoophycos*: An online catalogue of ichnotaxa. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 325.
282. Connolly, A.M., Martin, L.D., and **Hasiotis, S.T.**, 2013, The paleobiogeographical effects of the parietal foramen on mosasaurs. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 699.
281. Counts, J.W., and **Hasiotis, S.T.**, 2013, Compound and cumulative paleosols in core from the Lower Permian (Asselian-Sakmarian) Council Grove Group of western Kansas: Implications of ichnofossil-rich paleosols developed in loess. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 699.
280. Dzenowski, N., **Hasiotis, S.T.**, and Rasmussen, D.L., 2013, Vertebrate burrows within pedogenically modified deposits from the Lower Permian (Wolfcampian) Cedar Mesa Sandstone of southeastern Utah. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 326.
279. Falk, A.R., and **Hasiotis, S.T.**, 2013, A new experimental setup for testing the effect of media consistency on avian track morphology and linking traces produced to behavior. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p.

278. Fiorillo, A.R., McCarthy, P.J., and **Hasiotis, S.T.**, 2013, Crayfish burrows from the latest Cretaceous Lower Cantwell Formation (Denali National Park, Alaska): Their morphology and paleoclimatic significance. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 898.
277. Flaig, P.P., **Hasiotis, S.T.**, Isbell, J.L., and Sieger, D.N., 2013, Sedimentology and ichnology of Permo-Triassic strata at Lamping Peak, Central Transantarctic Mountains, Antarctica: Paleopolar forests, lakes, and braided rivers in a greenhouse world. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 896.
276. Golab, J.A., **Hasiotis, S.T.**, and Rasmussen, D.L., 2013, Preliminary study of on the ichnopedofacies of the mixed carbonate-siliciclastic, Lower Permian Halgaito Formation, Goosenecks, southeastern Utah. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 326.
275. Halfen, A.F., and **Hasiotis, S.T.**, 2013, Perspectives of a young scientist on the contributions of Don Johnson and the future of bioturbation research. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 632.
274. Hammersburg, S.R., **Hasiotis, S.T.**, Robison, Gunther, L., Gunther, V., and Jamison, P., 2013, The ichnotaxonomy of the Cambrian Spence Shale of Utah: Preliminary Results. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 328.
273. **Hasiotis, S.T.**, Flaig, P.P., Isbell, J.L., Gulbranson, E.L., and Sieger, D.N., 2013, Ichnofossils as proxies for polar ecosystems and climates: An example of a hydroclimate shift in Permian-Triassic continental deposits of the Beardmore Glacier region of Antarctica. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 896.
272. **Hasiotis, S.T.**, Halfen, A.F., Counts, J.W., Wasserman, H., Platt, B.F., Hembree, D.I., Jones, M., Hirmas, D.R., and Smith, J.J., 2013, Exploring old and new frontiers in continental ichnology—Evaluating its place in ichnology and role in geology. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 898.
271. **Hasiotis, S.T.**, Halfen, A.F., Counts, J.W., Kraus, M.J., Smith, J.J., and Hembree, D.I., 2013, Bioturbation is the major process in the evolution of soils and landscapes—Evidence from modern and deep time. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 633.
270. **Hasiotis, S.T.**, Long, J., and Sieger, D.N., 2013, Preliminary report on sweat bee nests in tidally influenced delta plain deposits of the Eocene Queen City Formation, San Antonio,

- Texas. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 900.
269. Jackson, A.M., and **Hasiotis, S.T.**, 2013, First report of large-diameter burrows from the Morrison Formation at Skyline Drive, Cañon City, Colorado. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 845.
268. Woodburn, T.L., **Hasiotis, S.T.**, and Johnson, W.C., 2013, Role of bioturbation in buried paleosol pedogenesis. Geological Society of America National Meeting, Denver, CO, October 27-30, v. 45(7), p. 348.
267. Drager, K., Hirmas, D., and **Hasiotis, S.T.**, 2013, Effects of ant (*Formica subsericea*) bioturbation on soil physical and hydrological properties. Soil Science Society of America, Annual Meeting, Tampa, Florida, 1 p.
266. Falk, A.R., Lim, J.-D., Martin, L.D., and **Hasiotis, S.T.**, 2013, Following in the footsteps of dinosaurs: ancient avian feeding behaviour from the Haman Formation of South Korea. European Association of Vertebrate Paleontology Meeting, Normandy, France, June 9-12, 1 p.
265. Flaig, P.P., **Hasiotis, S.T.**, Isbell, J.L., and Jackson, A., 2013, River-Dominated Deltas of the Mackellar Formation at Turnabout Ridge, Central Transantarctic Mountains, Antarctica: Hyperpycnal Flows and Highly-Stressed Conditions. Oral Presentation, 10th International Conference on Fluvial Sedimentology, Leeds, UK (2013).
264. Flaig, P.P., **Hasiotis, S.T.**, Jackson, A. M., and Isbell, J.L., 2013. Lower Permian Antarctic Marine Deltas of the Mackellar Formation: Turnabout Ridge, Beardmore Glacier Region, Central Transantarctic Mountains, Antarctica. Talk accepted for presentation at AAPG National Meeting, Pittsburg, PA.
263. **Hasiotis, S.T.**, Halfen, A.F., Wasserman, H.N., Hirmas, D., and Counts, J., 2013. Alteration of Original Porosity and Permeability in Continental Deposits by Soil Biota: Concepts and Examples. Oral Presentation accepted for presentation at AAPG National Meeting, Pittsburg, PA.
262. **Hasiotis, S. T.**, McPherson, J., and Reilly, M., 2013. Using Ichnofossils to Reconstruct the Depositional History of Sedimentary Successions in Alluvial, Coastal Plain, and Deltaic Settings. 2013 International Petroleum Technical Conference, Oral Presentation, Beijing, China, p. 1.
261. Jackson, A. M., **Hasiotis, S.T.**, Flaig, P.P., and Isbell, J.L., 2013. Ichnology and Sedimentology of the Lower Permian Mackellar Formation at Turnabout Ridge and Buckley Island, Beardmore Glacier, Central Transantarctic Mountains (CTAM), Antarctica: A Shallow Deltaic Marine Environment. Poster accepted for presentation at

AAPG National Meeting, Pittsburg, PA. AAPG Search and Discovery Article #90163.

260. van der Kolk, D.A., Flaig, P.P., **Hasiotis, S.T.**, and Wood, L.L. 2013. Applying GigaPan Robotic Photo-Panorama technology to Enhance Facies and Architectural analyses of the Upper Cretaceous Schrader Bluff and Prince Creek Formations at Shivugak Bluffs, North Slope of Alaska, USA Poster presentation, American Association of Petroleum Geologists Annual Convention and Exhibition, Pittsburg, PA (2013)
259. **Hasiotis, S.T.**, and Flaig, P. P., 2012. Continental Trace Fossils of the Lower Triassic Fremouw Formation, Beardmore Glacier Area, Central Transantarctic Mountains, Antarctica: Implications for Pangean Ichnodiversity and Paleogeography, Oral presentation, 34th International Geological Congress, Brisbane, Australia
258. **Hasiotis, S.T.**, Flaig, P.P., and Jackson, A. M., 2012. Horseshoe crabs lived in Permo-Triassic Antarctic freshwater rivers and lakes: Trace fossil evidence from the Buckley and Fremouw Formations, Beardmore Glacier Area, Central Transantarctic Mountains (CTAM), Antarctica. Talk presented at GSA National Meeting, Charlotte, NC.
257. **Hasiotis, S.T.**, Flaig, P.P., Jackson, A.M., and Isbell, J.L., 2012. First report of marine trace fossils from fluvio-deltaic-shallow marine deposits in the Lower Permian Mackellar Formation, Beardmore Glacier Area, Central Transantarctic Mountains, Antarctica: Salinity stressed aquatic conditions. Talk presented at 34th International Geological Congress, Brisbane, Australia.
256. **Hasiotis, S.T.**, Hirmas, D.R., and Halfen, A.F., 2012. Sediment Mixing Depths and Rates in Continental Environments and the Creation of Macrochannels and Macropores: Lessons Learned and Implications for Alerting Porosity and Permeability by Bioturbation. American Association of Petroleum Geologists National Meeting, Long Beach, CA, Abstracts with Programs, v. 43, p. 506.
[lead researcher]
255. Jackson, A. M., **Hasiotis, S.T.**, Flaig, P.P., and Isbell, J.L., 2012. Preliminary report of trace fossils and sedimentology indicate a shallow marine deltaic environment for the Lower Permian Mackellar Formation at Turnabout Ridge and Buckley Island, Beardmore Glacier, Central Transantarctic Mountains (CTAM), Antarctica. Talk presented for GSA National Meeting, Charlotte, NC.
254. Jones, M.F., and **Hasiotis, S.T.**, 2012. Preliminary report on the trackway-making ability of bats (Phyllostomidae, Carollinae). Annual Meeting Geological Society of America, Charlotte, North Carolina, USA.
253. Raisanen, D.C.W., and **Hasiotis, S.T.**, 2012. Preliminary Report on Morphological Analysis of Possible Mammal Burrows in the Salt Wash Member of the Upper Jurassic Morrison

- Formation, Southeastern Utah. Annual Meeting Geological Society of America, Charlotte, North Carolina, USA.
252. Wildermuth, S.C., and **Hasiotis, S.T.**, 2012. A diverse high-latitude ichnofauna from the Permian Pagoda and Mackellar formations (Beacon Supergroup), Shackleton Glacier area, Central Transantarctic Mountains, Antarctica. Annual Meeting Geological Society of America, Charlotte, North Carolina, USA.
251. Fang, J., Das Gupta, S., Brake, S.S., **Hasiotis, S.T.**, and Zhang, L., 2011, Biosynthesis of sterols and wax esters by *Euglena* of acid mine drainage biofilms: Implications for eukaryotic evolution and the early Earth: Goldschmidt Conference, August 14-19, 2011, Prague, Czech Republic.
[part of lead researcher with Fang and Brake]
250. Flaig, P.P., Isbell, J.L., and **Hasiotis, S.T.**, 2011. Tectonically driven facies and architectural change across the Permian-Triassic boundary: Beardmore Glacier region, Central Transantarctic Mountains, Antarctica. Geological Society of America Annual Meeting Minneapolis, MN. GSA Abstracts with Programs, v. 43, p. 602.
[Assisted with research; part of my larger project; collected specimens, revised writing]
249. Halfen, A.F., and **Hasiotis, S.T.**, 2011. Soil mixing rates of the western harvester ant: a neoichnological perspective on the importance of the ant in the paleopedological record. Geological Society of America Annual Meeting Minneapolis, MN. GSA Abstracts with Programs, v. 43, p. 380.
[Student research; helped devise research plan, assisted with writing]
248. **Hasiotis, S.T.**, and Flaig, P.P., 2011. New insights on the Permian-Triassic boundary from the Beardmore Glacier area, Central Transantarctic Mountains, Antarctica: Implications from the integrated ichnology, sedimentology, paleontology, and paleosols of the uppermost Buckley Formation and lowermost Fremouw Formation. Geological Society of America Annual Meeting Minneapolis, MN. GSA Abstracts with Programs, v. 43, p. 506.
[lead researcher]
247. Hirmas, D.R., Platt, B.F., and **Hasiotis, S.T.**, 2011, Determination of calcite and dolomite content in soils and paleosols by continuous coulometric titration. Paper 68440. Abstracts, 2011 International Annual Meeting, ASA-CSSA-SSSA. ASA, Madison, WI. [CD-ROM].
246. Platt, B.F., and **Hasiotis, S.T.**, 2011. Network analysis of the dinosaur-dominated ecosystem of the Upper Jurassic Morrison Formation, Western Interior North America. Geological Society of America Annual Meeting Minneapolis, MN. GSA Abstracts with Programs, v. 43, p. 380.
[Student research; helped devise research plan, revised writing]

245. Smart, S.M., Buren, D.D., Brake, S.S., Wolf, S.F., and **Hasiotis, S. T.**, 2011. Establishing stromatolite-building eukaryotic biofilm in a controlled laboratory setting. Geological Society of America Annual Meeting Minneapolis, MN. GSA Abstracts with Programs, v. 43, p. 584.
[Student research; helped devise research plan, revised writing]
244. Flaig, P.P., **Hasiotis, S. T.**, Van der Kolk, D., and Fiorillo, A., 2011. Light aircraft, trenching tools, and inflatables—old tools used for new frontiers in trace fossil research. Northeast-Northcentral Geological Society of America Section Meeting, March 20–22, Pittsburgh, PA, 1 p.
[Shared Research Program; written by the two primary authors]
243. **Hasiotis, S. T.**, Hirmas, D.R., Platt, B.F., and Reynolds, J., 2011. New frontiers in ichnology using MLT (Multistripe laser triangulation) and rapid prototyping technology for three-dimensional analysis, printing, and sharing of modern and ancient traces with other ichnophiles. Northeast-Northcentral Geological Society of America Section Meeting, March 20–22, Pittsburgh, PA, 1 p.
[Student and shared research; help devise research plan, written by three primary authors]
242. **Hasiotis, S.T.**, van der Kolk, D.A., Flaig, P.P., and Wood, L.J., 2011, Preliminary Report on the Trace Fossils in a Shoreface to Coastal-plain Transition: The Schrader Bluff and Prince Creek Formations at Shivugak Bluff, North Slope, Alaska, Poster Presentation, American Association of Petroleum Geologists Pacific Section Meeting, Anchorage Alaska.
241. Smith, J.J., **Hasiotis, S.T.**, Kraus, M.J., and Woody, D.T., 2011. Ichnologic and paleopedologic trends during an abrupt global-warming event: Paleocene-Eocene Thermal Maximum interval, Willwood Formation, Bighorn Basin, Wyoming. TerQua Conference, Tate Geological Museum, Casper College, WY, Program with Abstracts, p. 14.
240. Smith, J.J., Platt, B.F., Retrum, J.B., and **Hasiotis, S.T.**, 2011. Neoichnology of extant earthworm (Annelida: Oligochaeta) casts to estimate *Edaphichnium lumbricatum* tracemaker body sizes. Geological Society of America Annual Meeting Minneapolis, MN. GSA Abstracts with Programs, v. 43, p. 380.
[Student research; helped devise research plan, revised writing]
239. van der Kolk, D.A., Flaig, P.P., **Hasiotis, S.T.**, and Wood, L.J., 2011, High-latitude Shoreface to Coastal-plain Transitions: The Schrader Bluff and Prince Creek Formations at Shivugak Bluff, North Slope, Alaska, Poster Presentation, American Association of Petroleum Geologists Pacific Section Meeting, Anchorage Alaska

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238. Brake, S. S., **Hasiotis, S. T.**, and Buren, D.D., 2010. Semiquantitative analysis of precipitates in an iron-rich stromatolite derived from the biological activity of eukaryote-dominated biofilms in an acid mine drainage environment. Geological Society of America National Meeting, p. 1.
[Shared Research Program; student research guided and written by the two primary authors]
237. Eickhoff, B.A., Brake, S.S., and **Hasiotis, S.T.**, 2010. SEM analyses reveal complex stromatolitic fabric build by eukaryotic microorganisms in an acid mine drainage system. Geological Society of America North-Central and South-Central Section, Abstracts with Programs, v. 42(2), p. 61.
[Shared Research Program; student research guided by the two primary authors]
236. Eickhoff, B.A., Brake, S.S., and **Hasiotis, S.T.**, 2010. Complex stromatolitic structures in an acid mine drainage environment: A consequence of eukaryotic-dominated biofilms. Geological Society of America National Meeting, Abstracts with Programs, p. 1.
[Shared Research Program; student research guided by the two primary authors]
235. Falk, A.R., and **Hasiotis, S.T.**, 2010. First report of specific bird feeding traces—probe and peck marks—from the Lower Cretaceous Haman Formation, South Korea. Geological Society of America National Meeting, Abstracts with Programs, p. 1.
[Student research; help devise research plan, shared writing]
234. Halfen, A.F., and **Hasiotis, S.T.**, 2010. New Insights of Soil Bioturbation by the Ant and Other Soil-Dwelling Organisms: Modern and Paleopedologic Significance. American Association of Petroleum Geologists Annual Meeting, New Orleans, Louisiana, 13F.
[Student research; help devise research plan, shared writing]
233. **Hasiotis, S.T.**, 2010. Biota as a major soil-forming factor and ecosystem engineers through recent Earth history based on continental trace fossils—Soil biota as geoengineers. Geological Society of America Rocky Mountain Section, Abstracts with Programs, v. 42(3), p. 3.
232. **Hasiotis, S.T.**, and Kraus, M.J., 2010. Organisms as a major soil-forming factor, ecosystem engineers, and their significance to the Critical Zone: a deep-time perspective. SEPM-NSF Workshop “Paleosols and Soil Surface Analog Systems”, September 21-25, 2010, Petrified Forest National Park, Arizona, p. 19.
[Shared research program; primary author of this synthesis]
231. **Hasiotis, S.T.**, Moffat, I., and Reilly, M., 2010. Preliminary Report on the Neoichnology, Sedimentology, and Geomorphology of Pointbar and Levee Deposits of the Darling River on Bindara Station, Pooncarie, New South Wales, Australia. American Association of Petroleum Geologists Annual Meeting, New Orleans, Louisiana, 6B.
[Shared research program; primary author of this contribution]

230. **Hasiotis, S.T.**, and Rasmussen, D.L., 2010. Enigmatic, large- and mega-diameter burrows in the Lower Permian Cedar Mesa Sandstone, Comb Ridge and Moqui Dugway, southeastern, Utah. Geological Society of America Rocky Mountain Section, Abstracts with Programs, v. 42(3), p. 2.
[Shared research program; primary author of this contribution]
229. **Hasiotis, S.T.**, Rasmussen, D.L., and Rasmussen, G.L., 2010. Initial report on the trace fossils in the Pennsylvanian-Permian(?) Cutler Formation, Ouray, Colorado. Geological Society of America National Meeting, Abstracts with Programs, p. 1.
[Shared research program; primary author of this contribution]
228. **Hasiotis, S.T.**, Rasmussen, D.L., Rasmussen, G.L., and Rasmussen, L., 2010. Bivalve burrows and associated trace fossils in the Upper Pennsylvanian (Virgilian) Halgaito Formation near Mexican Hat, Utah. Geological Society of America National Meeting, Abstracts with Programs, p. 1.
[Shared research program; primary author of this contribution]
227. Hirmas, D.R., **Hasiotis, S.T.**, and Platt, B.F., 2010. Field application of Multistripe laser triangulation (MLT) scanning to enhance and quantify descriptions of soils and exogenic trace morphology. Geological Society of America National Meeting, Abstracts with Programs, p. 1.
[Shared research program; assisted with writing]
226. Jones, W.J. and **Hasiotis, S.T.**, 2010. Lungfish burrows and earliest record of estivation by vertebrates, Upper Devonian Catskill Formation, Pennsylvania, USA. Geological Society of America National Meeting, Abstracts with Programs, p. 1.
[Student research; devised research plan, shared writing]
225. Jones, W.J. and **Hasiotis, S.T.**, 2010. Paleoenvironmental associations of trace fossils in the Upper Devonian Catskill Formation of north-central Pennsylvania. American Association of Petroleum Geologists Annual Meeting, New Orleans, Louisiana, 13A.
[Student research; devised research plan, shared writing]
224. Lobue, D.J., and **Hasiotis, S.T.**, 2010. Ichnotaxonomic assessment of Mazon Creek Area trace fossils. Geological Society of America North-Central and South-Central Section, Abstracts with Programs, v. 42(2), p. 93.
[Student research; helped devise research plan, shared writing]
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[Student research; devised research plan, shared writing]

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[Student research; helped devise research plan, shared writing]
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[Student research; devised research plan, shared writing]
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[Student research; helped devise research plan, shared writing]
219. Platt, B.F., **Hasiotis, S.T.**, and Hirmas, D.R., 2009. Three-dimensional ichnofossil analyses using multistribe laser triangulation (MLT) technology: Quantifying trace-fossil morphology, bioturbation patterns, and ichnopedologic fabrics in sedimentary rocks. American Association of Petroleum Geologists Annual Meeting, New Orleans, Louisiana, 9C.
[Student research; helped devise research plan, shared writing]
218. Halfen, A.F. and **Hasiotis, S.T.**, 2009. Significance of the Western Harvester Ant in Soil Bioturbation and Pedological Development: Results of Neoichnology Experiments. Soil Science Society of America International Conference. Pittsburgh, PN.
[Student research; helped devise research plan, shared writing]
217. Halfen, A.F., and **Hasiotis, S.T.**, 2009. Significance of the Western Harvester Ant in Soil Bioturbation and Pedological Development: Results of Neoichnology Experiments. Geological Society of America Annual Meeting. Portland, OR. (Same title but different material presented at this meeting)
[Student research; helped devise research plan, shared writing]
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[Shared research program; helped devise research using ichnology; primary writer]
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[Shared research program; helped devise research using ichnology; primary writer]
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[Student research; helped with identifications, interpretations, revised writing]
211. Platt, B.F., Hirmas, D.R. and **Hasiotis, S.T.** 2009. Footprints in the landscape: Quantifying bioturbation in soils and paleosols with multistriple laser triangulation (MLT) technology. In Abstracts, International Annual Meeting, ASA-CSSA-SSSA, Pittsburgh, PA. 1-4 Nov.
[Student research; helped devise research plan, shared writing]
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[Student research; helped devise research plan, shared writing]
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[Student research; devised research plan, shared writing]
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[Student research; devised research plan, shared writing]
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[Student research; helped devise research plan, shared writing]

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[Student research; helped devise research plan, shared writing]
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[Shared research program; codiscovered site and data collection, shared writing]
201. Galston, L., Havholm, K., and **Hasiotis, S. T.**, 2008. Reinterpretation of the trace fossil-bearing Devil’s Island Sandstone, Keweenaw Rift, northern Wisconsin. Institute of Lake Superior Geology conference, Marquette, Michigan, 2 p.
[Student research; helped devise research plan, shared writing]
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[Principal author of this synthesis]

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[Principal author of this synthesis]
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[Shared NSF-research program; shared writing]
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[Student research; helped devise research plan, shared writing]
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[Student research; helped devise research plan, shared writing]
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[Student research; helped collect, revised writing]
192. Zonneveld, J.P., Gingras, M.K., and **Hasiotis, S. T.**, 2008. Differentiating freshwater & brackish-water successions using trace fossils. American Association of Petroleum Geologists National Meeting, San Antonio, Texas, 1 p.
[Shared research program; shared writing]
191. Counts, J. W. and **Hasiotis, S. T.**, 2007. Neoichnologic experiments with modern scarabaeid beetle larvae: implications for backfilled trace fossils in Permian continental deposits, Hugoton Gas Field, western Kansas. American Association of Petroleum Geologists Annual Meeting, Long Beach, California, 23 April, 1 p.
[Student research; devised research plan, shared writing]

190. Counts, J. W. and **Hasiotis, S. T.**, 2007. Neoichnology of scarab beetle larvae: modern analogs for backfilled trace fossils. North-central–South-central Geological Society of America Section Meeting, Lawrence, Kansas, 12 April, 1 p.
[Student research; devised research plan, shared writing]
189. Fairchild, J. M. and **Hasiotis, S. T.**, 2007. Neoichnologic trackway experiments using the freshwater crayfish *Orconectes*. North-central–South-central Geological Society of America Section Meeting, Lawrence, Kansas, 13 April, 1 p.
[Student research; devised research plan, shared writing]
188. Fang, J., **Hasiotis, S. T.**, Das Gupta, S., Brake, S. S. and Brazlinski, D., 2007. Microbial Biomass and community structure of a stromatolite from an acid mine drainage system as determined by lipid analysis. North-central–South-central Geological Society of America Section Meeting, Lawrence, Kansas, 13 April, 1 p.
[Shared research program; shared writing]
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[Shared research program; shared writing]
185. **Hasiotis, S. T.**, 2007. Using trace fossils to interpret the hydroclimatological settings of dryland alluvial-lacustrine systems: examples from the Neales fan area, Lake Eyre, Simpson Desert, Australia. Geological Society of America Annual Meeting, Denver, Colorado, v. 39, no. 6, p. 435.
184. **Hasiotis, S. T.** and Hardesty, J., 2007. The reviewing and editing style of Roger Kaesler: helping others to express better their science. North-central–South-central Geological Society of America Section Meeting, Lawrence, Kansas, 12 April, 1 p.
[PALAIOIS Coeditor and Managing editor; shared writing]
183. **Hasiotis, S. T.**, Kraus, M.J., Smith, J.J., and Counts, J.W., 2007. Pedofabrics and Ichnofabrics: A Case for Developing Ichnopedologic Units. In, Gingras, M. K. and Zonneveld, J.-P. (eds.), International Ichnofabric Workshop IX, August 12-19, Calgary, Alberta, Canada, p. 36.
[Shared NSF-research program; primary author, shared writing]
182. **Hasiotis, S.T.**, Kraus, M.J., Smith, J.J., Counts, J.W., and Woody, D., 2007. Continental

- ichnofossils as climate-indicator proxies in deep geologic time: Integrating ichnology and paleopedology to access changes in paleohydrology and paleoclimate. American Association of Petroleum Geologists Annual Convention, Abstracts and Program, v. 16. [Shared NSF-research program; primary author, shared writing]
181. **Hasiotis, S. T.**, Odier, G., Rasmussen, D, and McCormick, T., 2007. Preliminary report on new vertebrate burrow localities in the Lower Jurassic Navajo Sandstone, Moab area, southeastern Utah: architectural and surficial burrow morphologies indicative of mammals or therapsids, and social behavior. North-central–South-central Geological Society of America Section Meeting, Lawrence, Kansas, 13 April, 1 p. [Shared research program; primary author]
180. Kraus, M.J., Fricke, H. and **Hasiotis, S. T.**, 2007. Implications of new carbon isotope stratigraphy for the Paleocene-Eocene Thermal Maximum, Sand Creek Divide, Bighorn Basin, Wyoming. Geological Society of America Annual Meeting, Philadelphia, Pennsylvania, v. 38(7), p. 148. [Shared NSF-research program; review writing]
179. LoBue, D. and **Hasiotis, S. T.**, 2007. Neoichnological study of the turtle *Sternotherus odertus* trackways. North-central–South-central Geological Society of America Section Meeting, Lawrence, Kansas, 12 April, 1 p. [Student research; devised research plan, shared writing]
178. McLean, M., Fang, J., Das Gupta, S, Brake, S. S., **Hasiotis, S. T.**, and Brazlinski, D., 2007. Cyanobacteria, unexpected microbes in acid mine drainage. Geological Society America Annual Meeting, Denver, Colorado, v. 39(6), p. 66. [Shared research program; helped collect material, reviewed text]
177. Montague, K. E., **Hasiotis, S. T.**, and Walton, A.A., 2007. Endolithic microborings in basalt glass fragments in hyaloclastites: extending the ichnofabric index to microbioerosion. North-central–South-central Geological Society of America Section Meeting, Lawrence, Kansas, 13 April, 1 p. [Student research; helped devise research plan, shared writing]
176. Morrow, J.R., and **Hasiotis, S. T.**, 2007. Infaunal response through mass-extinction episodes: predictive models and observed patterns. Geological Society of America Annual Meeting, Denver, Colorado, v. 39(6), p. 206. [Shared research program; shared writing]
175. Platt, B., and **Hasiotis, S. T.**, 2007. Track-making behavior of modern elephants as an analog for footprint formation by sauropod dinosaurs. North-central–South-central Geological Society of America Section Meeting, Lawrence, Kansas, 12 April, 1 p. [Student research; helped devise research plan, shared writing]

174. Smith, J. J. and **Hasiotis, S. T.**, 2007. Traces and burrowing behaviors of the cicada nymph *Melampsalta calliope*: Neoichnology and paleoecological significance of modern soil-dwelling insects. North-central–South-central Geological Society of America Section Meeting, Lawrence, Kansas, 12 April, v. 39(3), p. 54.
[Student research; devised research plan, shared writing]
173. Smith, J.J., **Hasiotis, S. T.**, Kraus, M. J., and Woody, D. T., 2007. Ichnofossils of ancient soil biota show changes in abundance, stratigraphic distribution, and size during a rapid global-warming event: Paleocene-Eocene thermal maximum interval, Paleogene Willwood Formation, Bighorn Basin, Wyoming. Geological Society of America Annual Meeting, Denver, Colorado, v. 39(6), p. 207.
[Shared NSF-research program and plan; student research, shared writing]
172. Woody, D. T., Kraus, M. J., Smith, J.J., and **Hasiotis, S. T.**, 2007. Abrupt paleoenvironmental change during the Paleocene-Eocene thermal maximum in the Bighorn Basin, Wyoming. Geological Society of America Annual Meeting, Denver, Colorado, v. 39(6), p. 192.
[Shared NSF-research program and plan; student research, reviewed writing]
171. Counts, J. W. and **Hasiotis, S. T.**, 2006. Ichnology of cyclothem deposits in the Lower Permian Council Grove Group. Geological Society of America Annual Meeting, Philadelphia, Abstracts with Program, v. 38, p. 435.
[Student research; helped devise research plan, shared writing]
170. Dilliard, K., Hart, G., Pope, M., Lieberman, B., and **Hasiotis, S. T.**, 2006. Determination of Sr-isotope composition of the Lower Cambrian Sekwi Formation, Northwest Territories, Canada, using solution chemistry and laser ablation. Geological Society of America Annual Meeting, Philadelphia, Abstracts with Program, v. 38, p. 484.
[Student research; helped collect material, reviewed writing]
169. **Hasiotis, S. T.**, 2006. Traces of Life and the Morrison Formation: How Ichnofossils reveal details of Late Jurassic Landscapes of the Western Interior. Tate Museum Conference June 7-9, Closing Keynote Address, Casper, Wyoming, 1 p.
168. **Hasiotis, S. T.** and Kraus, M.J., 2006. Significance of different types of trace fossils and Ichnocoenoses to interpreting paleohydrological and paleoenvironmental settings of paleosols in the Paleogene Willwood Formation, Bighorn Basin, Wyoming, U.S.A. Geological Society of America Annual Meeting, Philadelphia, Abstracts with Program, v. 38, p. 435.
[Shared NSF-research program; shared writing]
167. **Hasiotis, S. T.**, and Kraus, M. J., 2006. Alluvial floodplain and splay ichnocoenoses, Eocene Willwood Formation, Big Horn Basin, Wyoming, USA. American Association of

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[Shared NSF-research program; shared writing]
166. **Hasiotis, S. T.**, Porter, M., Sprague, A., Abreu, V., Beaubouef, R., Knabe, K., and Violet, J. 2006. Using trace fossils in deep-water deposits to interpret paleoenvironments and facies distributions: examples from the continental slope, West Africa. American Association of Petroleum Geologists International Meeting, Perth, Australia, 1 p.
[Primary research program; shared writing]
165. **Hasiotis, S. T.**, Walton, A. A., Roberts, J. A., Goldstein, R. H., 2006. Distinguishing between trace fossils as organism-substratum interactions and traces of chemical fingerprints from life. *Lunar and Planetary Science* 37, 1522.pdf.
[Primary research program; shared writing]
164. Odier, G., **Hasiotis, S. T.**, Rasmussen, D, and McCormick, T., 2006. Preliminary report on dewatering pipes in the lower part of the Lower Jurassic Navajo Sandstone, Canyonlands National Park, southeastern Utah: implications for pluvial episodes and the occurrence of lakes, trees, and mammal burrows. Geological Society of America Annual Meeting, Philadelphia, Abstracts with Program, v. 38, p. 144.
[Shared research; shared writing]
163. Platt, B. F., and **Hasiotis, S. T.**, 2006. Elephant footprints as modern analogs of sauropod dinosaur tracks: experimental design and preliminary results. 138th Annual Meeting, Kansas Academy of Science, *Transactions of the Kansas Academy of Science*, 109(3/4): 247-267.
[Student research; helped devise research plan, shared writing]
162. Platt, B. F., and **Hasiotis, S.T.**, 2006. Neoichnological experiments with modern elephants to quantify properties of megafaunal footprint formation: preliminary results, Geological Society of America Abstracts with Programs, v. 38, no. 7, p. 537.
[Student research; helped devise research plan, shared writing]
161. Smith, J.J. and **Hasiotis, S. T.**, 2006. Morphologic and paleoenvironmental implications of adhesive meniscate burrows (AMB), Paleogene Willwood Formation and other continental deposits. 138th Annual Meeting, Kansas Academy of Science, *Transactions of the Kansas Academy of Science*, 109(3/4): 247-267.
[NSF-research program; student research, shared writing]
160. Smith, J.J., **Hasiotis, S. T.**, Kraus, M. J., and Woody, D. T., 2006. Morphology and paleoenvironmental implications of adhesive meniscate burrows (AMB), Paleogene Willwood Formation and other continental deposits. Geological Society of America Annual Meeting, Philadelphia, Abstracts with Program, v. 38(7), p. 536.
[Shared NSF-research program; student research, shared writing]

159. Brake, S. S. and **Hasiotis, S. T.**, 2005. Eukaryote-dominated biofilms in acid mine drainage. Geological Society of America National Meeting, Salt Lake City, Abstracts with Program, v. 37(7), p. 205.
[Shared research program; shared writing]
158. Dilliard, K, Pope, M., **Hasiotis, S. T.**, Lieberman, B. S., Coniglio, M., 2005. Integrated Carbon isotope curve, sea-level history, and biostratigraphy for the Early Cambrian Sekwi Formation, Selwyn Basin, Northwest Territories, Canada. Earth Systems Processes 2, August 8-11, Calgary, Alberta, Canada. Geological Society of America Abstracts with Programs, p. 46
[Student research; helped collect material, reviewed writing]
157. Fang, J., **Hasiotis, S.T.**, and Brake, S.S., 2005, Lipid biomarkers indicating microbial diversity in an eukaryotic stromatolite of an acid mine drainage, Green Valley, Indiana. 22nd International Meeting on Organic Geochemistry, Seville, Spain.
[Shared research program; shared writing]
156. Gingras, M, **Hasiotis, S. T.**, and Zonneveld, J.-P., 2005. Discerning fresh- and brackish-water trace fossils and identifying the transition between the twain. Geological Society of America National Meeting, Salt Lake City, Abstracts with Program, v. 37(7), p. 340.
[Shared research program; shared writing]
155. **Hasiotis, S. T.**, 2005. 300-million-year trace-fossil record of terrestrial and freshwater burrowing crayfish from North America. Fossils X3: International Meeting of Palaeoarthropodology, Palaeoentomology, and Fossil Amber, South African National Botanical Institute, Pretoria, South Africa, p. 44.
154. **Hasiotis, S. T.**, 2005. Preservation of ichnofossils and body fossils in continental environments: understanding the depositional conditions, soil forming processes, and the taphonomic filter. Fossils X3: International Meeting of Palaeoarthropodology, Palaeoentomology, and Fossil Amber, South African National Botanical Institute, Pretoria, South Africa, p. 20.
153. **Hasiotis, S. T.**, 2005. Insect trace fossils—their use as proxies for biodiversity, and indicators of palaeoenvironment, palaeoecology, palaeohydrology, and palaeoclimate. Fossils X3: International Meeting of Palaeoarthropodology, Palaeoentomology, and Fossil Amber, South African National Botanical Institute, Pretoria, South Africa, p. 20-21.
152. **Hasiotis, S. T.**, 2005. Using Ichnofossils and Ichnocoenoses to Interpret Paleoenvironmental and Paleoecological settings of the Upper Jurassic Morrison Formation, Western Interior Basin, USA. Rocky Mountain Section Geological Society of America Meeting, Grand Junction, Colorado, p. 13

151. **Hasiotis, S. T.** and Bourke, M. C. 2005. Differentiating between cricket, spider, scorpion, and skink burrows in dryland environments, Simpson Desert, Northern Territory, Australia. American Association of Petroleum Geologists Annual Meeting, Discover your Roots: Paleosols and their Applications, Calgary, Alberta, Canada, 1 p.
[Shared research program; primary author synthesis]
150. **Hasiotis, S. T.**, Kennedy, D., Todd, J. A., and Michael, E. 2005. Preliminary report on modern organism traces from the supralittoral to sublittoral zone in Kigoma Bay, Lake Tanganyika, Tanzania. American Association of Petroleum Geologists Annual Meeting, Nonmarine Depositional Systems II, Calgary, Alberta, Canada, 1 p.
[Primary author synthesis]
149. **Hasiotis, S. T.**, and Roberts, J.A., 2005. Traces of life: distinguishing between organism-substrate interactions and the chemical fingerprints of life. Geological Society of America National Meeting, Salt Lake City, Abstracts with Program, v. 37(7), p. 340.
[Shared research program; shared writing]
148. Jennings, D., B. Platt, **S. Hasiotis**, and J. Retrum, 2005. Differentiating paleoecological partitioning and preservational bias among vertebrate trace fossils in the Upper Jurassic Morrison Formation, Bighorn Basin, Wyoming: a case study, Journal of Vertebrate Paleontology, v. 25, supplement to no. 3, p. 75A.
[Student research; helped devise research plan, collect material, shared writing]
147. Platt, B. F., and **Hasiotis, S. T.**, 2005. Bioturbation without a trace: the loss of ichnological diversity from propedisotropic processes in paleosols of the Upper Jurassic Morrison Formation, Big Horn Basin, Wyoming. American Association of Petroleum Geologists Annual Meeting, Calgary, Alberta, Canada, 1 p.
[Student research; helped devise research plan, collect material, shared writing]
146. Retrum, J. B., **Hasiotis, S. T.**, and Kaesler, R. L., 2005. Neoichnological experiments with freshwater ostracodes. Geological Society of America National Meeting, Salt Lake City, Abstracts with Program, v. 37(7), p. 443.
[Student research; helped devise research plan, shared writing]
145. Smith, J. J., **Hasiotis, S. T.**, Kraus, M. J., and Woody, D. 2005. Ichnofossils in alluvial deposits and paleosols of the Lower Eocene Willwood Formation, Big Horn Basin, Wyoming. American Association of Petroleum Geologists Meeting, Discover your Roots: Paleosols and their Applications, Calgary, Alberta, Canada, v. 14, p.130.
[Shared NSF-research program; student research, shared writing]
144. Smith, J. J., Woody, D., **Hasiotis, S. T.**, and Kraus, M. J., 2005. Pedogenic overprinting of crayfish-burrowed alluvial deposits in the Paleogene Willwood Formation, Big Horn

Basin, Wyoming. Geological Society of America National Meeting, Salt Lake City, Abstracts with Program, v. 37(7), p. 444.

[Shared NSF-research program; student research, shared writing]

143. Woody, D. T., Smith, J. J., Kraus, M. J., and **Hasiotis, S. T.**, 2005. Absence of preserved manganiferous rhizoliths within the PETM interval and its climatic implications. Geological Society of America National Meeting, Salt Lake City, Abstracts with Program, v. 37(7), p. 414.

[Shared NSF-research program; student research, revised writing]

-----Last Promotion-----

142. Demko and **Hasiotis, S. T.**, 2004. Stratal Architecture and Paleoclimate in Continental Depositional Systems: The Record of Landscape Evolution in the Upper Triassic Chinle and Upper Jurassic Morrison Formations, Colorado Plateau, USA. American Association of Petroleum Geologists National Meeting, Dallas, Texas, 1 p. **Invited.**

141. Dilliard, K. A., Pope, M. C., **Hasiotis, S. T.**, and Lieberman, B.S., 2004. A new carbon isotope curve for the Early Cambrian Sekwi Formation, Selwyn Basin, Northwest Territories, Canada. Geological Society of America National Meeting, Denver, Colorado, v. 36(5), p. 543.

140. **Hasiotis, S. T.**, Hembree, D. I., Myshrall, K. L., Laut, E. A., Mathis, R., Rogers, J. R., 2004. Linking biota, soils, hydrology, and the soil-water budget in northeastern Kansas: developing ichnologic signatures as proxies for ancient climates through actualistic studies. American Association of Petroleum Geologists National Meeting, Dallas, Texas, 1 p. **Invited.**

139. **Hasiotis, S. T.** and Kraus, M. J., 2004. Examples of how Ancient Soil Biota Mediated Features in Paleosols: Lower Eocene Willwood Formation, Wyoming. American Association of Petroleum Geologists National Meeting, Dallas, Texas, 1 p.

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Arizona. 3rd National Biological Service Biannual Conference of Research on the Colorado Plateau, Abstracts with Program, v. 3, p. 32.

44. **Hasiotis, S. T.** 1995. Invertebrate behavioral responses to environmental controls across terrestrial and freshwater-aquatic environments: Examples from the Upper Triassic Chinle Formation, Colorado Plateau. Symposium 19, Animal behavior interpreted from the fossil record, North-Central/South-Central Sections, Geological Society of America Combined Regional Meeting, v. 27(3), p. 56. Invited.
43. Dubiel, R. F., **Hasiotis, S. T.**, Demko, T. M., May, C. L., Riggs, N. R., Ash, S. R., and Litwin, R. J. 1995. Triassic paleoecosystem reconstruction via fossil, ichnofossil, isotopic, and sedimentologic evidence integrated into a complete measured section - Chinle Formation, Petrified Forest National Park, AZ. 1995. Rocky Mountain Section, Geological Society of America Regional Meeting, v. 27(4), p. 9.
42. Dubiel, R. F., and **Hasiotis, S. T.** 1995. Paleocological diversity and community interactions: Insect and other invertebrate ichnofossil evidence in Triassic continental ecosystem reconstruction. Geological Society of America, National Meeting, New Orleans, Louisiana, v. 27(6), p. 165.
41. Demko, T. M. and **Hasiotis, S. T.** 1995. Jurassic continental alluvial trace fossils in Felch Quarry Sandstone, Garden Park Paleontological Area, Canyon City, Colorado. Society of Sedimentary Geologists 1st Congress on Sedimentary Geology, St. Pete Beach, Florida, Ichnofossils; Linkages to Life Habitats and Environments, v. 1, p. 44. Invited.
40. Bown, T. M., **Hasiotis, S. T.**, Maldonado, F., Brouwers, E., and Eaton, J. G. 1995. Trace fossils of ants, wasps, and bees (Hymenoptera) from the Lower Tertiary Claron Formation of southwestern Utah. Rocky Mountain Section, Geological Society of America Regional Meeting, v. 27(4), p. 3.
39. Bown, T. M., **Hasiotis, S. T.**, and Brouwers, E. 1995. Reassessment of sedimentary paleoenvironments, Middle Pliocene-Eocene Claron Formation, Paunsaugunt Plateau, southwestern Utah. Geological Society of America, National Meeting, New Orleans, Louisiana, v. 27(6), p. 277.
38. Riggs, N. R., Demko, T., Dubiel, R. F., **Hasiotis, S. T.**, Ash, S. R., and May, C. L. 1994. Distal effects of volcanism on fluvial sedimentation, Upper Triassic Chinle Formation, Arizona. Geological Society of America National Meeting, Seattle, WA, v. 26(7), p. 68.
37. Honey, J. and **Hasiotis, S. T.** 1994. Identification and occurrence of crayfish burrows in Paleocene continental rocks of Hanna and Washakie basins, Wyoming. Rocky Mountain Section Meeting, Geological Society of America, Durango, CO., v. 26(6), p. 18.

36. **Hasiotis, S. T.** and Honey, J. 1994. Paleocene crayfish burrows and their paleohydrologic significance, Washakie and Hanna Basins, Wyoming. International Association of Astacology Symposium X, Adelaide, South Australia, 1994, p. 21. Invited.
35. **Hasiotis, S. T.**, Flores, R. M. and Keighin, W. C. 1994. Integrated ichnology, paleopedology, and fluvial sedimentology of the Fort Union Formation, Wind River Basin, Wyoming. American Association of Petroleum Geology Meeting, Denver, CO, v. 3, p. 166.
34. **Hasiotis, S. T.**, Dubiel, R. F., Demko, T., Shipman, T., Rosensimon, B., Dykstra, M., Roth, M., Van Housen, P., Rhodes, W., Moran, E. 1994. Update on the ichnofauna and ichnoflora from the Tepees area, Petrified Forest Member, Upper Triassic Chinle Formation, Petrified Forest National Park, Arizona. In, Santucci, V. (ed.), Petrified Forest National Park Research Abstracts, Petrified Forest National Park, AZ, v. 3, p. 12-13. Invited.
33. **Hasiotis, S. T.**, Dubiel, R. F., Demko, T., Shipman, T., Rosensimon, B., Dykstra, M., Roth, M., Van Housen, P., Rhodes, W., Moran, E. 1994. Invertebrate and plant ichnofossils from the Painted Desert Area, Petrified Forest Member, Upper Triassic Chinle Formation, Petrified Forest National Park, Arizona. In Santucci, V. (ed.), Petrified Forest National Park Research Abstracts, Petrified Forest National Park, AZ, v. 3, p. 10-11. Invited.
32. **Hasiotis, S. T.**, Dubiel, R. F., Conrad, K. L. and Lockley, M. 1994. Footprint evidence of North America's earliest dinosaur, Upper Triassic Chinle Formation, Fort Wingate, New Mexico. Rocky Mountain Section Meeting, Geological Society of America, Durango, CO, p. v. 26(6), p. 17.
31. **Hasiotis, S. T.**, and Dubiel, R. F. 1994. Termite-nest ichnofossils in crevasse-splay deposits, lower part of the Petrified Forest Member, Upper Triassic Chinle Formation, Petrified Forest National Park, Arizona. In Santucci, V. (ed.), Petrified Forest National Park Research Abstracts, Petrified Forest National Park, AZ, v. 3, p. 8-9. Invited.
30. **Hasiotis, S. T.** 1994. In search of behavior in ancient life: animal and plant trace fossils in national parks and monuments from the Four Corners States. Partners in Paleontology: Protecting our Fossil Heritage, Fourth Conference on Fossil Resources, Oct. 31 - Nov. 4, Colorado Springs, Colorado, p. 31. Invited.
29. **Hasiotis, S. T.** 1994. Redefining freshwater-aquatic and terrestrial ecosystems through the Phanerozoic: Partitioning the *Scoyenia* Ichnofacies. Geological Society of America National Meeting, Seattle, WA, v. 26(7), p. 374.
28. **Hasiotis, S. T.** 1994. Earliest known burrowing crayfish fossils and their burrows: The antiquity of successful behavior. Rocky Mountain Section Meeting, Geological Society of America, Durango, CO, v. 26(6), p. 17. Invited.

27. **Hasiotis, S. T.** 1994. Burrow morphologies of *Cambarus diogenes diogenes* Girard: A comparison between crayfish communities in New York and Colorado, USA. International Association of Astacology Symposium X, Adelaide, South Australia, 1994, p. 44. Invited.
26. Dubiel, R. F., **Hasiotis, S. T.**, Demko, T. M., Riggs, N. R., May, C. L., Ash, S. R., and Litwin, R. J. 1994. A composite measured section, Upper Triassic Chinle Formation, Petrified Forest National Park, Arizona. In Santucci, V. (ed.), Petrified Forest National Park Research Abstracts, Petrified Forest National Park, AZ, v. 3, p. 6-7. Invited.
25. Dubiel, R. F. and **Hasiotis, S. T.** 1994. Integration of sedimentology, paleosols, and trace fossils for paleohydrologic and paleoclimatic interpretations in a Triassic alluvial system. Geological Society of America National Meeting, Seattle, WA, v. 26(7), p. 502.
24. Dubiel, R. F. and **Hasiotis, S. T.** 1994. Paleosols and rhizofacies as indicators of climate change and groundwater fluctuations: The Upper Triassic Chinle Formation. Rocky Mountain Section Meeting, Geological Society of America, Durango, CO, v. 26(6), p. 11-12. Invited.
23. Villamil, T. and **Hasiotis, S. T.** 1993. Miniature *Teredolites* in amber and associated microborings, Late Turonian, Columbia: Rocky Mountain and Cordilleran Geological Society of America Section Meeting, v. 25(6), p. 158.
22. **Hasiotis, S. T.** and Dubiel, R. F. 1993. Neoichnology and ecological tiering in continental settings: Analogs for interpreting Pangean paleoecology, paleohydrology, and paleoclimate. Carboniferous to Jurassic Pangea, a global view of environments and resources, Canadian Society of Petroleum Geology, Calgary, Alberta, Canada, p. 133.
21. **Hasiotis, S. T.** and Dubiel, R. F. 1993. A possible termite nest from the Upper Triassic Chinle Formation, Petrified Forest National Park, Arizona: Rocky Mountain and Cordilleran Geological Society of America Section Meeting, v. 25(6), p. 48-49.
20. **Hasiotis, S. T.** and Bown, T. M. 1993. Ichnofossils of deposit-feeding echinoids, Lower Miocene Moghra Formation, Qattara Depression, northwest Egypt: Rocky Mountain and Cordilleran Geological Society of America Section Meeting, 25(6):49.
19. **Hasiotis, S. T.**, 1993. Paleoecological tiering in Pangaean continental settings - Abstracts. In Lucas, S. G. and Morales, M., eds., The Nonmarine Triassic, New Mexico Museum of Natural History and Science - Bulletin 3, p. 64. Invited.
18. **Hasiotis, S. T.**, 1993. Crayfish and their burrows: The antiquity of behavior. Colorado Scientific Society, November Newsletter, p. 1.

17. Aslan, A., **Hasiotis, S. T.**, and Autin, W. J. 1993. Holocene trace fossils and biofabrics of floodplain sediments and soils of the Mississippi River: Rocky Mountain and Cordilleran Geological Society of America Section Meeting, v. 25(6), p. 5.
16. **Hasiotis, S. T.** and Dubiel, R. F. 1992. Nonmarine ichnofossils of the Upper Triassic Chinle Formation, Colorado Plateau: Mesozoic of the Western Interior, SEPM Theme Meeting, Ft. Collins, p. 30. Invited.
15. **Hasiotis, S. T.** 1992. Trace fossils of the Petrified Forest Member, Petrified Forest National Park, Arizona: In Santucci, V. (ed.), Petrified Forest National Park Research Abstracts, p. 56. Invited.
14. **Hasiotis, S. T.** 1992. Paleontologic, sedimentologic, and paleoecologic examination of the Canyonlands National Park vicinity, Utah: In Santucci, V. (ed.), Petrified Forest National Park Research Abstracts, p. 16. Invited.
13. **Hasiotis, S. T.** 1992. Fossil and ichnological occurrences from the Upper Triassic Chinle Formation of the Canyonlands vicinity: Their paleoecological implications: Paleocology of the Western Interior Symposium, Rocky Mountain Sectional Meeting, Geological Society of America, 31 p. Invited.
12. **Hasiotis, S. T.** 1992. Burrowing behavior of stream and pond dwelling species of *Orconectes* in the Front Range of Boulder, Colorado USA: International Association of Astacology, 9th International Symposium, Reading England, April 5-10, p. 8.
11. **Hasiotis, S. T.** 1992. Burrowing behavior and comparative morphologies of Triassic and modern crayfishes: A systematic approach to their evaluation: International Association of Astacology, 9th International Symposium, Reading England, April 5-10, p. 30.
10. **Hasiotis, S. T.** 1992. A systematic approach to the evaluation of burrow morphologies: A comparison of crayfish and lungfish burrowing signatures: Mesozoic of the Western Interior, SEPM Theme Meeting, Ft. Collins, p. 30. Invited.
9. **Hasiotis, S. T.**, and Hannigan, R. E. 1991. Use of Periodic Acid Schiff (PAS) in the identification of possible lungfish burrows in the Upper Triassic Chinle Formation of southeastern Utah and western Colorado: Northeast/Southeast Geological Society of America Sectional Meeting, v. 23, p. 42.
8. Piechocki, A. L., Jacobi, R. J. and **Hasiotis, S. T.** 1990. The Nunda Sandstone: A Devonian non-channelized sand lobe of a submarine fan: Geological Society of America Abstracts with Programs, v. 22, no. 22, p. 62.

7. **Hasiotis, S. T.**, and Piechocki, A. L. 1990. Preliminary report on the fauna, flora, and ichnofauna of the Nunda Sandstone: Geological Society of America Abstracts with Programs, v. 22, no. 2, p. 22-23.
6. **Hasiotis, S. T.**, and Mitchell, C. E. 1990. Preliminary report on the comparison of Triassic and Holocene crayfish burrow morphologies: Geological Society of America Abstracts with Programs, v. 22, no. 2, p. 22.
5. **Hasiotis, S. T.** and Hannigan, R. E. 1990. Identification of possible lungfish burrows in the Upper Triassic Chinle Formation of southeastern Utah: Periodic Acid Schiff (PAS) Reaction and mucus burrow linings: Rochester Academy of Science Symposium, p. 18.
4. **Hasiotis, S. T.** 1990. Upper Triassic Chinle Formation of southeastern Utah, USA: Crayfish burrows as floodplain and water table indicators: Canadian Paleontology and Biostratigraphy Seminar Abstracts with Programs, Sept. 28-Oct. 1, p. 26-27.
3. **Hasiotis, S. T.** 1990. Induced burrowing of *Procambarus clarkii* and *Procambarus acutus acutus*: Identification of their burrow morphologies and burrowing signatures: International Association of Astacology 8th International Crayfish Symposium, 1990, Baton Rouge, Louisiana, p. 35.
2. **Hasiotis, S. T.** 1990. Description of aestivation burrow morphologies and burrowing signatures of the Permian lungfish *Gnatheriza* from continental deposits, USA: Geological Society of America Abstracts with Programs, v. 27, p. 35.
1. **Hasiotis, S. T.** and Mitchell, C. E. 1989. Burrows in the Upper Triassic Chinle Formation, southeastern Utah: New evidence suggests origin by burrowing freshwater decapod crustaceans: Geological Society of America Abstracts with Programs, v. 21, no. 6, p. 252.

Invited Symposia Organizer, Field Trip Leader, Visiting Scholar Seminars, & Short Courses

115. 2014 Invited Lecture (by Dr. W. Hammer) to be given for a colloquium presentation on “What Trace Fossils Reveal about the Continental Record of the Biodiversity, Ecology, Climate, and the Greatest Mass Extinction: Lifting the veil on the Permo-Triassic strata of the Beacon Supergroup, Beardmore Glacier region, Central Transantarctic Mountains, Antarctica,” to be given at the Center for Polar Studies, Augustana College, Rock Island, IL, March 27, 2014.
114. 2013 Invited Lecture (by Drs. W. Yang and D. Wronkiewicz) for a colloquium presentation on “Lifting the Veil on the Permo-Triassic World in Antarctica: What Trace Fossils Reveal about the Continental Record of the Biodiversity, Ecology, Climate, and the Greatest Mass Extinction,” given at the Geological

Sciences and Engineering Department, Missouri University of Science and Technology, Rolla, MO, October 14, 2013.

113. 2013 Coleader of a 5-day Field Course and Core Workshop (with Mark Reilly and Ian Moffat) for Chevron Oil Company on Ancient Sedimentology, Stratigraphy, Ichnology, and Sequence Stratigraphy of Coastal and Delta Plain Deposystems, Morten Bay Queensland, and Permo-Triassic Units, Bowen and Surrat Basins, Queensland, Australia, June 10-14, 2013.
112. 2013 Coleader of a 6-day Field Course and Core Workshop (with Mark Reilly and Ian Moffat) for Woodside Petroleum Ltd. on Ancient Sedimentology, Stratigraphy, Ichnology, and Sequence Stratigraphy of Coastal and Delta Plain Deposystems, Morten Bay Queensland, and Permo-Triassic Units, Bowen and Surrat Basins, Queensland, Australia, June 3-8, 2013.
111. 2012 Field trip coleader (with John McPherson and Mark Reilly) for Sedimentology, Stratigraphy, Ichnology, and Sequence Stratigraphy of Coastal and Delta Plain Deposystems, and Permo-Triassic Units, Sydney Basin, Sydney to Wollongong, Australia, October 23-28, 2012.
110. 2012 Field trip and Core Workshop coleader (with Mark Reilly, Ian Moffat) for Modern and Ancient Sedimentology, Stratigraphy, Ichnology, and Sequence Stratigraphy of Coastal and Delta Plain Deposystems, Morten Bay Queensland, and Permo-Triassic Units, Surrat Basin, Queensland, Australia, July 16-21, 2012.
109. 2012 Invited Lecture (by IGC Organizing Committee) for a presentation on my recent Antarctic research, "First report of marine trace fossils from fluvio-deltaic-shallow marine deposits in the Lower Permian Mackellar Formation, Beardmore Glacier Area, Central Transantarctic Mountains, Antarctica: Salinity stressed aquatic conditions". Brisbane, Queensland, Australia, August 10, 2012.
108. 2012 Invited Lecture (by the Petroleum Exploration Society of Australia), "Lifting the Veil on Life and the Permian-Triassic Mass Extinction in Marine and Continental Deposits of Australia," held at the Geosciences Australia Government Facilities, Canberra, ACT, Australia, July 13, 2011.
107. 2012 Invited 2-day Trace Fossil Short Course (by Geosciences Australia), Fundamentals of Marine and Continental Ichnology, held at the Geosciences Australia Government Facilities, Canberra, ACT, Australia, July 12-13, 2011.
106. 2012 Invited 3-day Transantarctic Mountain Workshop (by NSF-OPP), making a presentation on "Ichnology of the Beacon Supergroup, Central Transantarctic Mountains, held in at Indiana University-Purdue University, Indianapolis, IN, to

plan the next deep field camp in the Central Transantarctic Mountains, June 25-27, 2011.

105. 2012 Invited Lecture (by Gill Parker) for the Lecture Series 2012 of the 51st Annual Gem and Mineral Show, “Studying trace fossils in the 21st Century: Using modern experiments to understand ancient tracemakers and their behaviors”. Kansas City, Missouri, March 11, 2012.
104. 2012 Invited Lecture (by Rex Powell) for the Lecture Series 2012 of the Kansas and Missouri Paleontological Society, “Ichnology and the Last Frontier: Trace fossils of the Permian-Triassic continental deposits, Antarctica”. Kansas City, Missouri, January 22, 2012.
103. 2011 Invited Lecture (by Nora Nofitke) for the Colloquium Lecture, School of Earth and Ocean Sciences, Old Dominion University, “Using Ichnology to Understand Diversity, Abundance, and Distribution of Organisms in Continental Deposits in Deep Time”. Norfolk, Virginia, November 12, 2011.
102. 2011 Field trip leader (with Mark Reilly and Ian Moffat) for Ancient Sedimentology, Stratigraphy, Ichnology, and Sequence Stratigraphy of Coastal and Delta Plain Deposystems in Permian-Cretaceous Units, Surat and Bowen Basins, Queensland, Australia, October 21-24, 2011.
101. 2011 Invited 5-day Trace Fossil and Core Workshop (by Tobi Payenberg) for Chevron Oil Company, Permian-Cretaceous Continental and Marine Paleoenvironments, held at the Western Australia Government Core Facilities, Perth, Western Australia, August 22-26, 2011.
100. 2011 Field trip leader (with Simon Lang, Ian Moffat) for Modern and Ancient Sedimentology, Stratigraphy, Ichnology, and Sequence Stratigraphy of Coastal and Delta Plain Deposystems, Morten Bay Queensland, and Permo-Triassic Units, Surat Basin, Queensland, Australia, August 12-19, 2011.
99. 2011 Invited 5-day Trace Fossil and Core Workshop (by Robert Seggie) for Woodside Petroleum LTD, Permian-Cretaceous Continental and Marine Paleoenvironments, held at the Western Australia Government Core Facilities, July 18-22. Perth, Western Australia.
98. 2011 Field trip leader (with Mark Reilly and Ian Moffat) for Ancient Sedimentology, Stratigraphy, Ichnology, and Sequence Stratigraphy of Coastal and Delta Plain Deposystems in Permian-Cretaceous Units, Surat and Bowen Basins, Queensland, Australia, June 11-18, 2011.

97. 2011 Invited Lecture (by Steve Sonneberg) for the Rocky Mountain Section SEPM Luncheon Seminar Series, “Continental Ichnology—Interpreting Paleoenvironments, Sedimentation Rates, Paleosol Formation, Paleohydrology, and Paleoclimate”. Denver, Colorado, May 31, 2011.
96. 2011 Invited Lecture (by AAPG Student Chapter) for the University of Texas, Bureau of Economic Geology, Continental and Marine Ichnology 2-day short course. Austin, Texas, April 28–29, 2011.
95. 2011 Invited Lecture (by Peter Flaig and Lesli Wood) for the University of Texas, Bureau of Economic Geology, “Ichnology for the 21st Century: Implications of Continental and Marine trace fossils to interpreting depositional environments and significant surfaces”. Austin, Texas, April 27, 2011.
94. 2011 Invited Lecture (by Mona Sirbescu) for the Central Michigan University, Department of Geology and Meteorology, “Ichnology and the Last Frontier—Trace fossil evidence of life in Antarctica during the Permian and Triassic”. Mt Pleasant, Michigan, April 5, 2011.
93. 2010 Field trip leader (with Mark Reilly and Ian Moffat) for Ancient Sedimentology, Stratigraphy, Ichnology, and Sequence Stratigraphy of Coastal and Delta Plain Deposystems in Permian-Cretaceous Units, Surat and Bowen Basins, Queensland, Australia, October 10-17, 2010.
92. 2010 Field trip leader (with Simon Lang, Mark Reilly, Ian Moffat) for Modern and Ancient Sedimentology, Stratigraphy, Ichnology, and Sequence Stratigraphy of Coastal and Delta Plain Deposystems, Morten Bay Queensland, and Permo-Triassic Units, Surat Basin, Queensland, Australia, August 10-17, 2010.
91. 2010 Invited Lecture (by Joan Esterle) for the Natural Resources Lecture, School of Earth Sciences, University of Queensland, “Using Ichnology to Understand Diversity, Abundance, and Distribution of Organisms in Continental Deposits in Deep Time”. Brisbane, Queensland, Australia, August 8, 2010.
90. 2010 Invited Lecture (by Kathryn Amos) for the Australian School of Petroleum, University of Adelaide, “Traces of Life on Land: Using Ichnology to understand the diversity, abundance, and distribution of organisms in continental strata”. Adelaide, South Australia, March 22, 2010.
89. 2010 Invited Lecture (by Emily Jattef and Ian Moffat) for the Department of Archaeology, Flinders University, “Traces of Life on Land: Using Ichnology to understand the diversity, abundance, and distribution of organisms in continental strata”. Adelaide, South Australia, March 22, 2010.

88. 2010 Invited Lecture (by Mark Clementz) for the University of Wyoming, "Ichnology for the 21st Century: Continental trace fossils and their implications to interpreting depositional environments and significant surfaces". Laramie, Wyoming, March 1, 2010.
87. 2009 Invited Lecture (by Robert Cowdery) for the Kansas Geological Society on "Continental trace fossils and their implications to interpreting depositional environments and significant surfaces: Ichnology for the 21st Century". Wichita, Kansas, December 22, 2009.
86. 2009 Invited Lecture (by Michael Kowaleski) for Virginia Tech Department of Geological Sciences; Traces of Life on Land: Using Ichnology to understand the diversity, abundance, and distribution of organisms in continental strata. Blacksberg, Virginia, September 4.
85. 2009 Invited 4-day Trace Fossil and Core Workshop (by Clive Jones) for Imperial Oil Company, held at the downtown Calgary office and the Economic Recourses of Canada Board and Geological Survey of Canada, August 2-3. Calgary, Alberta, Canada.
84. 2009 Invited 2-day Trace Fossil and Core Workshop (by Penny Paterson) for ExxonMobil Production Company, held at the Greenspoint Houston Hilton North Hotel and Suites, August 17-18. Houston, Texas.
83. 2009 Invited 5-day Trace Fossil and Core Workshop (by Andrew Kulpecz) for Chevron Oil Company, held at the downtown Houston office and at the offsite Chevron core facility, June 15-19. Houston, Texas.
82. 2009 SEPM Short Course #51 Continental Trace Fossils given at the AAPG Annual Meeting in Denver, Colorado, Two-day short course, held in the Downtown Marriott, June 11-12; 15 attendees.
81. 2009 Keynote Address for the ES-SEPM Reception at Northeastern Section of the Geological Society of America Meeting, March 22-24, "Understanding the differences between continental and marine trace fossils and their implications: Ichnology for the 21st Century". Portland, Maine, March 22.
80. 2009 Invited Lecture (by Jared Morrow) for San Diego State University (SDSU), Department of Geology; Traces of Life on Land: Using Ichnology to understand the diversity, abundance, and distribution of organisms in continental strata. San Diego, CA, February 4.

79. 2009 Invited 2-day Trace Fossil Workshop (by Jared Morrow and AAPG Student Chapter) for San Diego State University (SDSU), Department of Geology; held at SDSU, San Diego, CA, February 2-3.
78. 2009 Invited Speaker (by Stephanie Davidson, Sophia Leleu, and Colin North) for the special session “An examination of the problems involved in transferring modern geomorphological knowledge to the sedimentary record, or What not to do”; presenting a paper on “Ichnopedologic characteristics of fluvial and floodplain deposits: A comparison of modern and ancient deposits.” From River to Rock Record—The Preservation of Fluvial Sediments and their Subsequent Interpretation, 12-14 January 2009, Aberdeen, Scotland, UK.
77. 2009 Invited Poster Presenter (by Stephanie Davidson, Sophia Leleu, and Colin North) “Continental traces in tidal deposits in an intracratonic playa lake: An example of how sedimentary facies might sway Ichnologic interpretations.” From River to Rock Record—The Preservation of Fluvial Sediments and their Subsequent Interpretation, 12-14 January 2009, Aberdeen, Scotland, UK.
76. 2008 Cochairman (with Julie Retrum) for the Thursday Morning Oral Session T43 “Field and Quantitative Paleontology, Micropaleontology, and Taxonomy: A Memorial to Roger L. Kaesler” on October 9, 2008 for Annual Meeting of Geological Society of America in Houston, Texas.
75. 2008 Invited Speaker (by K.L. Cunningham and H.A. Curran) for Annual Meeting of Geological Society of America in Houston, Texas, T48 “Exploring the Role of Endobenthic Organisms in Enhancing Porosity and Permeability of Sedimentary Aquifers and Reservoirs.” Oral presentation: Field and Laboratory Studies on the Effects of Bioturbation on Porosity and Permeability in the Vadose Zone in Continental Settings: How Ichnopedologic Fabric Shapes and Modifies Aquitards, Aquicludes, Aquifers, and Tomorrow's Reservoirs and Seals.
74. 2008 Invited Speaker (by S.G. Driese and L.C. Nordt) for Annual Meeting of Geological Society of America in Houston, Texas, Pardee Session P2. “Critical Zone Studies of Soils and Weathering: Implications for Interpreting Climate and Landscapes of the Past” Oral presentation: Linking Ichnology and Paleopedology to Infer Landscape Evolution, Paleoenvironments, Paleohydrology, and Paleoclimate: Future Directions of Integrated Soil and Trace-Fossil Studies.
73. 2008 Continental Trace Fossil Workshop for Woodside Energy Company and Chevron Australia, Perth, Western, Australia; June 21-23.
72. 2008 Cochairman (with J-P Zonneveld and Murray Gingras) for the Tuesday Morning Poster Session “Ichnological Applications to Sedimentology and Sequence

Stratigraphy” on April 22, 2008 for Annual Meeting of American Association of Petroleum Geologist in San Antonio, Texas.

71. 2008 Invited Trace Fossil Workshop (by John Holbrook) for the University of Texas at Arlington, Department of Geology; held at the University of Texas at Arlington, March 28.
70. 2008 Invited Lecture (by John Holbrook) for the University of Texas at Arlington, Department of Geology; Traces of Life on Land: Using Ichnology to understand the diversity, abundance, and distribution of organisms in continental strata. Arlington, Texas, March 27.
69. 2008 Invited Lecture (by Michael Kuykendall) for the Tulsa Geological Society, Monthly Luncheon Speaker Series, Using continental trace fossils to differentiate between alluvial, lacustrine, eolian, and marine paleoenvironments. Tulsa, Oklahoma, March 11.
68. 2008 Invited Trace Fossil Workshop (by Vice Chancellor Karen Havholm) for the University of Wisconsin at Eau Claire, Department of Geology, and Macalester College, Department of Geology, St. Paul, Minnesota. Held at the University of Wisconsin, Eau Claire, February 2.
67. 2008 Invited Lecture (by Vice Chancellor Karen Havholm) for the University of Wisconsin at Eau Claire, Department of Geology; Traces of Life on Land: Using Ichnology to understand the diversity and abundance of organisms in continental strata. Eau Claire, Wisconsin, February 1.
66. 2007 Session Cochair (with Jared Morrow) Topical Session 97: Trace Fossils, Mass Extinctions, and Event Boundaries: Endobenthic and Fossorial Responses to Terrestrial and Extraterrestrial Perturbations. Geological Society of America National Meeting, Denver, Colorado, 29 October.
65. 2007 Invited Lecture by the University of Zagreb, Croatian Academy of Science, and the Croatian Geological Institute: Using Field and Experimental Neoichnology to Interpret Behavior as Preserved in Continental Trace Fossils. Faculty of Mining and Geology, University of Zagreb, Croatia, October 12.
64. 2007 Invited Trace Fossil Workshop by the University of Zagreb, Croatian Academy of Science, and the Croatian Geological Institute: Trace fossils in Facies and Sequence Stratigraphic Interpretation. Croatian coleaders: Ervin Mrinjek and Vili Pencinger. Northern Dalmatia, Croatia, October 8-11.
63. 2007 Invited Workshop Co-leader (by Carmen Krapf and Toby Payenberg) for the Australian School of Petroleum, University of Adelaide Field Workshop on

Lake Eyre Dryland River Systems. Northwestern shore of Lake Eyre, July 21-27.

62. 2007 Invited Lecture (by Robyn Hannigan) for Arkansas State University, Department of Environmental Sciences; Ichnology: expanding its definition and application to problems and frontiers in the Geosciences. Jonesboro, Arkansas, April 25.
61. 2007 Invited Lecture (by Graduate Student Committee) for Northern Illinois University, Department of Geology; Expanding the definition and application of Ichnology to problems and frontiers in the Geosciences. DeKalb, Illinois, February 16.
60. 2006 Invited Workshop Co-leader (by Simon Lang and Robert Seggie) for the American Association of Petroleum Geologists International Postmeeting Core Workshop: Giant Gas Fields of the North West Shelf, Australia; Perth, Australia, November 16-17.
59. 2006 Invited Speaker (by Simon Lang) for Woodside Oil Company, Limited, Perth, Australia; Using traces fossils as proxies to interpret paleoenvironments and interpret better reservoir and seals; Perth, November 10.
58. 2006 Invited Speaker (by Fiona Burns) for the American Association of Petroleum Geologists International Meeting, Perth, Australia; Using traces fossils in deep-water deposits to interpret paleoenvironments and facies distributions: examples from the continental slope, West Africa. November 14.
57. 2006 Invited Keynote Address (by David Brown, Director of the Tate Museum) for 2006 Annual Symposium on Geology and Paleontology—Trackways and Trace fossils, June 2-4. Closing Keynote Address: Traces of Life and the Morrison Formation: how ichnofossils reveal details of the late Jurassic landscapes of the Western Interior. Casper, Wyoming, June 3.
56. 2006 Invited Lecture (by Anne Foster) for the Haskell Indian Nations University, Department of General Sciences Critical Thinking in Sciences course; Traces of Life: the Shape of Biodiversity as Recorded by Organism Behavior. Lawrence, Kansas, April 5.
55. 2006 Invited Short Course (by Hernan Santos) for the University of Puerto Rico, Mayaguez, Department of Geology in cooperation through the Visiting Scholar's Program at the University of Kansas; A Trace Fossil Workshop on Continental Ichnology. This is a two-day course with lectures, discussions, hands-on activities, and fieldtrip to Mayaguez coast, Puerto Rico, on the Atlantic Ocean. February 5-6;

54. 2006 Invited Speaker (by Hernan Santos) for the University of Puerto Rico, Department of Geology Colloquium Series; Using organism behavior to interpret ancient biodiversity, environments, soils, hydrology, and climates. Mayaguez, Puerto Rico, February 5.
53. 2005 Invited Speaker (by Robert Gastaldo) for the Colby College, Department of Geology Colloquium Series; Continental ichnology: a better understanding of ancient terrestrial and aquatic environments, ecosystems, and climates. Waterville, Maine, November 4.
52. 2005 Geological Society of America post-meeting field trip co-leader (with T. Demko, K. Nicoll, J. Beer, and L. Park); Mesozoic Lakes of the Colorado Plateau. From Moab, Utah, to the four corners area, October 19-22.
51. 2005 Workshop Co-leader (with Robert Goldstein and Roger Kaesler) for the Geological Society of America National Meeting for Writing Successful Grants-in-Aid proposals, Salt Lake City, Utah, October 18.
50. 2005 Geological Society of America Topical Session co-organizer and co-convener (with J. Roberts); Traces of Life: Micro- to Macroscopic Evidence for Life in the Geologic Record. Oral and poster session, Salt Lake City, Utah, October 18.
49. 2005 Invited 2-day short course (by Igor Vlahovic and INA-Croatian Oil Company) on Continental Trace Fossils and their use for paleoenvironmental and paleoclimate interpretation. Zagreb, Croatia, October 3-4.
48. 2005 Invited Keynote Speaker (by Igor Vlahovic) for 2005 Croatian Geological Congress, Opatija, Croatia; Continental Ichnology: trace fossils as indicators of hidden biodiversity, environments, ecological relationships, and climate. Opatija, Croatia, September 30.
47. 2005 Invited Speaker (by Mike Blum) for the Louisiana State University, Department of Geology Colloquium Series; Mesozoic and Cenozoic terrestrial and freshwater trace fossils: indicators of hidden biodiversity, environments, ecological relationships, and climate. Baton Rouge, Louisiana, September 17.
46. 2005 Guest Lecturer (by Mike Blum) for Advance Sedimentology class, Louisiana State University, Department of Geology; Using trace fossils to differentiate continental from marine environments in transitional settings. Baton Rouge, Louisiana, September 17.
45. 2005 Field trip co-leader (with Tim Demko) for the University of Minnesota Duluth Geology Department; Looking for ichnofossils in late Neoproterozoic shallow marine and continental deposits. Duluth area, Minnesota, April 29.

44. 2005 Invited Speaker (by Tom Johnson) for the University of Minnesota Duluth, Department of Geology Colloquium Series; Modern organism behavior of Lake Tanganyika and their comparison to ichnofossils: interpreting ancient environment, hydrology, and ecology from organism-substrate interactions. Duluth, Minnesota, April 28.
43. 2005 Invited Speaker (by Bob Scott) for the Tulsa University, Department of Geosciences Seminar Series; A new Look at Ichnofossils and Bioturbation Patterns in the Early Cambrian—Seki Formation, Northwest Territories, Canada. Tulsa, Oklahoma, April 12.
42. 2005 Invited Speaker (by David Barbeau) for the University of South Carolina, Department of Geology Colloquium Series; Using organism behavior to interpret ancient biodiversity, environments, soils, hydrology, and climates. Columbia, South Carolina, April 4.
41. 2005 Invited Workshop (by David Barbeau) through the Visiting Scholar's Program in the University of South Carolina, Department of Geology, Columbia, South Carolina, April 2-3; A Trace Fossil Workshop on Marine and Continental Ichnology. This is a two-day course with lectures, discussions, hands-on activities, and fieldtrip to Edisto Island, South Carolina, on the Atlantic Ocean.
40. 2005 Invited Speaker (by Bruce Rubidge) for the Bernard Price Institute of Paleontology, University of Witwatersrand; Modern organism behavior of Lake Tanganyika and their comparison to ichnofossils: interpreting ancient environment, hydrology, and ecology. Johannesburg, South Africa, February 18.
39. 2005 Co-field trip leader (with Adam Bumby) for the University of Pretoria, Department of Earth Sciences; Finding and interpreting the significance of trace fossils in eolian deposits of the Lower Jurassic Clarens Formation. Bushveld region, South Africa, February 17.
38. 2005 Invited Speaker (by Adam Bumby) for the University of Pretoria, Department of Earth Sciences; Behavior of modern organisms, Lake Tanganyika: using ichnofossils to interpret paleoenvironment and paleoecology. Pretoria, South Africa, February 17.
37. 2005 Invited Speaker (by Dennis J. Brothers, University of KwaZulu-Natal) for Fossils X3, International Meeting of Palaeoarthropodology, Palaeoentomology, and Fossil Amber; Preservation of ichnofossils and body fossils in continental environments: understanding the depositional conditions, soil forming processes, and the taphonomic filter. South African National Botanical Institute, Pretoria, South Africa, February 10.

36. 2005 Invited Speaker (by Dennis J. Brothers, University of KwaZulu-Natal) for Fossils X3, International Meeting of Palearthropodology, Paleontomology, and Fossil Amber; Insect trace fossils—their use as proxies for biodiversity, and indicators of palaeoenvironment, palaeoecology, palaeohydrology, and palaeoclimate. South African National Botanical Institute, Pretoria, South Africa, February 10.

-----Last Promotion-----

35. 2004 Short Course (with T. M Demko, University of Minnesota Duluth), The Study of Continental Trace Fossils; this is a two-day course with lectures, discussions, and hands-on activities for students from the University of Kansas, University of Minnesota Duluth, and Gustavus Adolphus College (St. Peter, Minnesota). Held at the KU Department of Geology, Lawrence; December 10-11.
34. 2004 Invited Workshop (by Lynn Soreghan) through the Visiting Scholar's Program in the Department of Geology and Geophysics, Oklahoma University, Noble, Oklahoma, November 19; A Trace Fossil Workshop on Continental Ichnology. This is a one-day course with lectures, discussions, and hands-on activities.
33. 2004 Invited Speaker (by Lynn Soreghan) for the Oklahoma University, Department of Geology and Geophysics Colloquium Series; Interpreting ancient biodiversity, environments, soils, hydrology, and climates with trace fossils: Examples from the Upper Triassic Chinle and Upper Jurassic Morrison Formation. Noble, Oklahoma, November 18.
32. 2004 Invited Lecturer (by Lynn Soreghan) for the course Paleoclimatology in the Department of Geology and Geophysics, Oklahoma University: An Introduction to Ichnology. Noble, Oklahoma, November 18.
31. 2004 Workshop Co-leader (with Robert Goldstein and Roger Kaesler) for the Geological Society of America National Meeting for Writing Successful Grants-in-Aid proposals, Denver, Colorado, November, 9.
30. 2004 Invited Speaker (by Steve Driese, Department Chair) for the Baylor University, Department of Geology Colloquium Series; Animal- and plant-sediment relationships and the interpretation of trace fossils in terrestrial environments. Waco, Texas, October 8.
29. 2004 Invited Workshop (by Steve Driese) through the Visiting Scholar's Program in the Department of Geology, Baylor University, Waco, Texas, October 9; A Trace Fossil Workshop on Continental Ichnology. This was a 4 hour course with lectures, discussions, and fieldtrip to local outcrops.

28. 2004 Invited Speaker (by Andy Cohen, University of Arizona) for the NSF and International sponsored Nyanza Project operated through the Tanzania Fisheries Research Institute (TAFIRI), Kigoma, Tanzania; Exploring the traces of life in Lake Tanganyika, and their comparison to Mesozoic and Cenozoic continental trace fossils. Kigoma, Tanzania, July 10.
27. 2004 Invited Speaker (by Kevin Bohacs) for the joint American Association of Petroleum Geologists and Azerbaijan Society of Petroleum Geologists Hedberg Conference, Sandstone Deposition in Lacustrine Environments: Implications for Exploration and Reservoir Development, May 17-21; Using trace fossils to differentiate between alluvial, lacustrine, and marine paleoenvironments. Baku, Azerbaijan, May 17.
26. 2004 Invited Speaker (by Bryan Foster) for the University of Kansas, Department of Ecology and Evolutionary Biology Colloquium Series; Using organism behavior to interpret ancient biodiversity, environments, soils, hydrology, and climates in the absence of body fossils. Lawrence, KS, April 29.
25. 2004 Invited Presenter (with Timothy M. Demko, University of Minnesota Duluth) for the American Association of Petroleum Geologists (AAPG) Symposium “Climate Controls on Sequence Stratigraphy”. Talk entitled: Stratal Architecture and Paleoclimate in Continental Depositional Systems: The of Landscape Evolution in the Upper Triassic Chinle and Upper Jurassic Morrison Formations, Colorado Plateau, USA. AAPG National Meeting, Dallas, Texas, April 21.
24. 2004 Invited Short Course Instructor (Co-Taught with Robert W. Wellner, ExxonMobil); Short Course #10, Recognizing Continental Trace Fossils in Outcrops and Core. A Two-day short course given at the American Association of Petroleum Geologists (AAPG) National Meeting, Dallas, Texas, April 17-18.
23. 2003 Invited Symposium Organizer and Chair (Co-Chair with Tim Lawton), American Association of Petroleum Geologists (AAPG): Depositional Processes, Facies, and Sequence Stratigraphy in Foreland Basin Settings. AAPG National Meeting, Salt Lake City, Utah, May 11-14.
22. 2002 Invited Speaker (by John Bridge) for the University of Binghamton, Department of Geology Colloquium Series; Linking Soils, Soil Biota, Soil-Water Budget, and Climate: Using Ichnofossils as proxies for paleoclimate. Binghamton, New York, November 22.
21. 2002 Invited Speaker (by Bart Kowallis, Department Chair) for Brigham Young University, Department of Geology Colloquium Series; Tracks, Trails, and Traces of

Continental Organisms: New Perspectives Provide New Implications for Life on Land. Provo, Utah, November 14.

20. 2002 Invited Speaker (by Jared Morrow) for the University of Northern Colorado, Department of Earth Sciences Colloquium Series; Linking Ichnofossils, Paleosols, and Paleolandscapes to Interpret Paleoclimate. Provo, Utah, October 30.
19. 2002 Invited Speaker for the Geological Society of America Symposium “Paleosols and Phanerozoic Climate: Geochemistry to Trace Fossils”. Talk entitled: Ichnopedologic Signatures of Paleoclimate: Linking Ichnofossils, Paleosols, and Paleolandscapes to interpret the seasonality and amount of precipitation and other paleoclimatic indicators. Geological Society of America National Meeting, Denver, CO, October 27.
18. 2002 Invited Speaker (by Rich McCrea) for the Society of Vertebrate Paleontology Pre-Meeting Symposium “200 Years of Vertebrate Paleotechnology”. Talk entitled: Paleoenvironmental and sequence stratigraphic implications of vertebrate traces, trackways, and trampled zones to delineate discontinuity surfaces in continental environments. Society of Vertebrate Paleontology Annual Meeting, Norman, OK, October 8.
17. 2002 Invited Speaker (by Mary Bourke, Oxford University) for the Department of the Interior, Planning, and Environment; Modern Ichnology of Dryland River Systems: Todd and Hale Rivers, Northern Territory, Australia; Alice Springs, Australia, September 29.
16. 2002 Invited Speaker (by Russell Grant, Program Manager) for the Department of the Interior, Planning, and Environment; Continental Ichnology: using organism behavior to interpret ancient environments, soils, and climates; Alice Springs, Australia, October 3.
15. 2002 Invited Speaker (by Colin North) for the Dryland Rivers 2002 Conference: Process and Product; Ichnologic Signatures of Mesozoic Paleoclimates on the Colorado Plateau, USA: Examples from Monsoonal, Arid, and Wet-Dry Paleoclimates; Aberdeen, Scotland, August 8-9.
14. 2002 Keynote Speaker (by Marvin Houg, President of the Mid-American Paleontological Society): Mid-American Paleontological Society National Fossil Symposium, Western Illinois University in Macomb, Illinois; *Tracks, Trails, and Traces* was the keynote address, April 12.

13. 2002 Invited Speaker (by David Loope) for the T. Mylan Stout Lecture Series in the Department of Geosciences, University of Nebraska, Lincoln, February 22; Traces of Hidden Life on Land: Advances in Continental Ichnology.
12. 2002 Invited Workshop (by Michael Blum and David Loope) through the Earl P. Kauffman Visiting Scholar's Program in the Department of Geosciences, University of Nebraska, Lincoln, February 23; A Trace Fossil Workshop with Emphasis on Continental Ichnology. This was an 8 hour course with lectures, discussions, and hands-on activities.
11. 2001 Invited Speaker (by Charles Michener), Entomology Seminar: Traces of Arthropod Biodiversity in the Fossil Record. Snow Entomological Museum, The University of Kansas, November 27.
10. 2001 Invited Topical Session Organizer and Chair (Co-Chair with Marilyn Wegweiser), Geological Society of America: Traces of Soil Ecosystems through the Phanerozoic. Geological Society of America National Meeting, Boston, MA, November 7.
9. 2001 Invited Speaker (by Robert Nelson) Geological Society of America Symposium "Terrestrial Insects and other Arthropods: Are so many represented by so few?" Talk entitled: Where has every "body" gone? Why the trace fossil record of insects and other terrestrial arthropods is sooooooo good... Geological Society of America National Meeting, Boston, MA.
8. 2001 Invited Speaker for the 7th International Conference on Fluvial Sedimentology, Dryland Rivers Symposium, Chaired by Colin North. Talk entitled: Ichnologic signatures of paleoclimates in alluvial settings: Using ichnofossils to interpret the amount and seasonality of precipitation, as well as other variables of Dry, Wet-Dry, Wet, and Ever-Wet paleoclimates. University of Nebraska at Lincoln, August 2-5.
7. 2001 Invited Symposium Organizer and Chair (Co-Chair with James MacEachern), American Association of Petroleum Geologists (AAPG): Utilizing Innovations in Ichnofossils to Better Define and Characterized Reservoirs. AAPG National Meeting, Denver, Colorado, June 1-5.
6. 2001 Invited Speaker (By Luis Gonzalez) for the University of Iowa, Department of Geological Sciences; Continental Trace Fossils as Indicators of Hidden Biodiversity, Paleosols, and Paleoclimate. Iowa City, Iowa, April 3.
5. 2001 Invited Speaker (By Daniel Blake) for the University of Illinois at Champagne-Urbana, Department of Geological Sciences; Continental Trace Fossils and Their

Significance as Indicators of Hidden Biodiversity, Paleosols, and Paleoclimate.
Champagne, Illinois, March 10.

4. 2001 Invited Speaker (By Andres Aslan) for the Mesa State College, Department of Environmental Sciences; Continental Trace Fossils as Hidden Biodiversity. Grand Junction, Colorado, November 1.
3. 2001 Invited Speaker (By Roy Plotnick) for the University of Illinois at Chicago, Department of Earth and Environmental Sciences; Continental Trace Fossils as Indicators of Hidden Biodiversity, Paleosols, and Paleoclimate. Chicago, Illinois, October 1.

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2. 2000 Invited Speaker (By Erle Kauffman) for the Indiana University, Department of Geology Colloquium Series; The Continental Ichnology Swiss Army Knife—a New and Innovative Tool for Interpreting Paleoenvironments and Paleoclimates. Bloomington, Indiana, September 15.
1. 1997 Invited Speaker (By Tony Ekdale) for the University of Utah, Department of Geology Colloquium Series; Continental Ichnofossils of the Upper Jurassic Morrison Formation: Paleoenvironmental, Paleoecological, and Paleoclimatic Significance. Salt Lake City, Utah, February 10.

Minor Presentations

8. 2010 Field trip leader (with Paul Enos) for Sedimentology-Stratigraphy class of Dr. Daniel Lehrman, Central Michigan University, Pennsylvania Cyclothem in the Midcontinent—A record of eustatic sea-level change, Clinton Spillway, Lawrence, KS, May 20, 2010.
7. 2009 SEPM Strategy and Planning Meeting in Tioga, Texas, from February 16. Planning session to ensure that SEPM will be a fit and vibrant society for the 21st century in a time when membership to any society is on the decline due to free access to journals through libraries, and social and professional networking through websites, cell phones, and PDAs.
6. 2008 Invited Lecture (by Nora Murphy) for middle school students at Central Middle School, Lawrence, Kansas, “New Evidence of Dinosaurs and Ecosystems at High Paleolatitudes: Denali National Park, Alaska,” March 25.

5. 2008 Invited Lecture and hands-on activity (by Krin Bowmen) for the morning and afternoon kindergarten class of Quail Run Elementary School, Lawrence, Kansas; “Dinosaurs: Plant Eaters, Insect Eaters, and Meat Eaters,” March 7.

-----Last Promotion-----

4. 2004 Invited Guest Lecturer (by J. Douglas Walker) for the University of Kansas, Department of Geology, GEOL 105/304 History of the Earth; Mesozoic Biological Evolution and the Cretaceous-Tertiary Boundary. Lawrence, Kansas, April 27.
3. 2004 Invited Guest Lecturer (by Jennifer Roberts) for the University of Kansas, Department of Geology, GEOL 101 Physical Geology; Weathering and Soil Formation. Lawrence, Kansas, February 16.
2. 2004 Invited Guest Lecturer (by Jenny Gleason) for the University of Kansas, Department of Ecology and BIOL 628 Evolutionary Biology; Evolution in the Fossil Record. Lawrence, Kansas, February 10.
1. 2001 Invited Speaker, The Evolutionists Group (composed of leading KU scientists): Traces of Hidden Biodiversity in the Geologic Record—Its Significance in Understanding Evolution. Alvamar Country Club, December 4.

C. Grants and/or other Funded Projects

External Funding—All Proposals are Refereed & Competitive; none invited or stimulus \$

1. Funded Proposals

5. Project/Proposal Title: Developing Virtual and Physical Models to Enhance Conceptualization of Earth Surface Structures in Undergraduate Geoscience Classes

Source of Support: National Science Foundation

Total Award Amount: \$198,834

Total Award Period Covered: 07/01/11 – 06/30/13

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 0.5

[PI—Dan Hirmas (KU); CoPIs—Hasiotis, Johnson, Slocum (all KU)]

4. Project/Proposal Title: Paleoenvironmental and Paleoclimatic Analysis of the Beacon Supergroup, Beardmore Glacier area, Central Transantarctic Mountains, Antarctica

Source of Support: National Science Foundation—OPP/ANT 0944282

Total Award Amount: \$399,868

Total Award Period Covered: 09/01/10 – 08/31/2013

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 2.0

[PI–Hasiotis]

-----Last Promotion-----

3. Project/Proposal Title: Archiving the History of Life: High-Density Storage to Solve Space Needs for an Invertebrate Paleontology Research and Teaching Collection

Source of Support: National Science Foundation

Total Award Amount: \$251,708

Total Award Period Covered: 07/01/04 – 12/31/06

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: None

[PI–Kaesler; CoPIs–Hasiotis, Lieberman]

2. Project/Proposal Title: Collaborative Research: Integrated Study Linking Paleosol Biotic Communities and Ancient Alluvial Landscapes

Source of Support: University of Colorado /National Science Foundation

Total Award Amount: \$186,955

Total Award Period Covered: 06/01/03 – 05/31/06

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 2.0

[PI–Hasiotis; CoPIs–Kraus (CU Boulder)]

1. Project/Proposal Title: Linking Biota, Soils, and the Soil-Water Budget in Kansas: Identification of Ichnologic Signatures of Modern and Ancient Climates

Source of Support: Kansas NSF EPSCoR First Awards

Total Award Amount: \$50,000

Total Award Period Covered: 05/01/02 – 06/030/03

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 2002 – 2.0, 2003 – 1.0

[PI–Hasiotis]

2. Proposals Under Review

1. Project/Proposal Title: Developing Virtual and Physical Models to Enhance Conceptualization of Earth Surface Structures in Undergraduate Geoscience Classes

Source of Support: National Science Foundation

Total Award Amount: \$198,834

Total Award Period Covered: 07/01/11 – 06/30/13

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 0.5

[PI–Dan Hirmas (KU); CoPIs–Hasiotis, Johnson, Slocum (all KU)]

3. Proposals Not Funded

21. Project/Proposal Title: Collaborative Research: Unlocking secrets of the world's largest sand sea: Links of water, climate, and life recorded by the Lower Jurassic Navajo Sandstone, Colorado Plateau, USA

Source of Support: National Science Foundation

Total Award Amount: \$311,205

Total Award Period Covered: 07/01/11 – 06/30/14

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 1.0

[PI–Hasiotis; CoPIs–Chan (UU Salt Lake City), Parrish (UI Moscow)]

20. Project/Proposal Title: Developing Virtual and Physical Models to Enhance Conceptualization of Earth Surface Structures in Undergraduate Geoscience Classes

Source of Support: National Science Foundation

Total Award Amount: \$198,834

Total Award Period Covered: 07/01/11 – 06/30/13

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 0.5

[PI–Dan Hirmas (KU); CoPIs–Hasiotis, Johnson, Slocum (all KU)]

19. Project/Proposal Title: Collaborative Research: Unlocking secrets of the world's largest sand sea: Links of water, climate, and life recorded by the Lower Jurassic Navajo Sandstone, Colorado Plateau, USA

Source of Support: National Science Foundation

Total Award Amount: \$311,205

Total Award Period Covered: 07/01/10 – 06/30/13
Location of Project: The University of Kansas, Lawrence, Kansas
Person-Months Per Year Committed to the Project: Sumr:1.0
[PI–Hasiotis; CoPIs–Chan (UU Salt Lake City), Parrish (UI Moscow)]

18. Project/Proposal Title: Collaborative Research: Infaunal Response to Stepped Mass Extinction: Testing Models for the Late Frasnian (Mid-Late Devonian, F-F) Biotic Crisis

Source of Support: National Science Foundation
Total Award Amount: \$323,892
Total Award Period Covered: 07/01/10 – 06/30/13
Location of Project: The University of Kansas, Lawrence, Kansas
Person-Months Per Year Committed to the Project: Su 1.0
[PI–Hasiotis; CoPIs–Morrow (SDSU)]

17. Project/Proposal Title: Linking microbial diversity and biogenic structures of eukaryote-dominated microbial mats in an acid mine drainage system, Indiana: stromatolites as biosignatures of life in extreme environments

Source of Support: KS NASA EPSCoR
Total Award Amount: \$52,550
Total Award Period Covered: 06/01/10 – 02/28/11
Location of Project: The University of Kansas, Lawrence, Kansas
Person-Months Per Year Committed to the Project: Su 1.25
[PI–Hasiotis]

16. Project/Proposal Title: Paleoenvironmental and Paleoclimatic Analysis of the Beacon Supergroup, Beardmore Glacier area, Central Transantarctic Mountains, Antarctica

Source of Support: National Science Foundation
Total Award Amount: \$ 402,993
Total Award Period Covered: 09/01/09 – 08/31/2012
Location of Project: The University of Kansas, Lawrence, Kansas
Person-Months Per Year Committed to the Project: Sumr: 2.0
[PI–Hasiotis; CoPIs–Morrow (SDSU)]

15. Project/Proposal Title: Collaborative Research: Paleoecology of Alaska's Arctic dinosaurs: A multiproxy paleoenvironmental and paleoclimatic reconstruction of dinosaur-bearing formations in Denali National Park and on the North Slope

Source of Support: National Science Foundation

Total Award Amount: \$ 291,972
Total Award Period Covered: 01/01/09 – 06/30/11
Location of Project: The University of Kansas, Lawrence, Kansas
Person-Months Per Year Committed to the Project: Sumr: 1.0
[PI–McCarthy (UA Fairbanks); CoPIs–Hasiotis, Fiorillo (DMSN), Fowell (UA Fairbanks),
Upchurch (TSU San Marcos)]

14. Project/Proposal Title: Collaborative research: Linking microbial communities,
biogeochemistry and stromatolitic structures of eukaryote-dominated
microbial mats in an acid mine drainage system, Indiana

Source of Support: National Science Foundation
Total Award Amount: \$157,431
Total Award Period Covered: 02/01/08 – 01/31/11
Location of Project: The University of Kansas, Lawrence, Kansas
Person-Months Per Year Committed to the Project: Sumr: 1.0
[PI–Fang (ISU Ames); CoPIs–Hasiotis, Brake & McLean (ISU Terra Haute), Bazylnski
(UNLV)]

13. Project/Proposal Title: Collaborative Research: Paleoenvironmental and Paleoclimatic
Analysis of the Beacon Supergroup, Beardmore Glacier area, Central
Transantarctic Mountains, Antarctica

Source of Support: National Science Foundation
Agency Contact: Dr. Thomas Wagner
Total Award Amount: \$ 353,257
Total Award Period Covered: 09/01/08 – 08/31/2011
Location of Project: The University of Kansas, Lawrence, Kansas
Person-Months Per Year Committed to the Project: Sumr: 2.0
[PI–Hasiotis; CoPIs–Morrow (SDSU)]

12. Project/Proposal Title: Geomicrobiological influences on the formation of modern iron-rich
stromatolites: Potential analogs for the formation of Late Archean-Early
Proterozoic banded iron formations and oxygenation of the early
Atmosphere

Source of Support: NASA
Agency Contact: Michael H. New, (202) 358-1766, michael.h.new@nasa.gov
Total Award Amount: \$171,696
Total Award Period Covered: 06/01/08 – 05/31/11
Location of Project: The University of Kansas, Lawrence, Kansas
Person-Months Per Year Committed to the Project: Su. 1.0
[PI–Fang (ISU Ames); CoPIs–Hasiotis, Brake & McLean (ISU Terra Haute), Bazylnski
(UNLV)]

11. Project/Proposal Title: Collaborative Research: Linking Microbial Diversity, Biogeochemistry, and Stromatolitic Structures of Eukaryote-Dominated Microbial Mats in an Acid Mine Drainage System, Indiana

Source of Support: National Science Foundation

Total Award Amount: \$146,690

Total Award Period Covered: 2/1/07 – 1/31/10

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 1.0

[PI–Hasiotis (ISU Ames); CoPIs–Fang (ISU Ames), Brake & McLean (ISU Terra Haute), Bazyliniski (UNLV)]

10. Project/Proposal Title: GEO-Teach Consortium to Improve the Quality of Teaching Earth System Science at the Middle School and High School Levels

Source of Support: Kansas State University/National Science Foundation

Total Award Amount: \$7,529,761

Total Award Period Covered: 10/1/06 – 9/30/11

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: None

9. Project/Proposal Title: Collaborative Research: Linking microbial diversity, biogeochemistry, and stromatolitic structures of eukaryote-dominated microbial mats in an acid mine drainage system, Indiana

Source of Support: National Aeronautics and Space Administration

Total Award Amount: \$173,077

Total Award Period Covered: 2/1/06 – 1/31/09

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 1.0

[PI–Fang (ISU Ames); CoPIs–Hasiotis, Brake & McLean (ISU Terra Haute), Bazyliniski (UNLV)]

8. Project/Proposal Title: Collaborative Research: Linking microbial diversity and biogeochemistry to stromatolitic structures produced by eukaryotic microorganism-dominated mats in an acid mine drainage system, western Indiana

Source of Support: National Science Foundation

Total Award Amount: \$120,356

Total Award Period Covered: 8/1/05 – 7/31/08

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 1.0

[PI–Fang (ISU Ames); CoPIs–Hasiotis, Brake & McLean (ISU Terra Haute), Bazylnski (UNLV)]

7. Project/Proposal Title: Collaborative Research: Hydrology of a Floodplain Aquifer
Source of Support: National Science Foundation
Total Award Amount: \$460,712
Total Award Period Covered: 6/1/05 – 5/31/06
Location of Project: The University of Kansas, Lawrence, Kansas
Person-Months Per Year Committed to the Project: Sumr: 1.0
[PI–Devlin; CoPIs–Hasiotis, Weissman (UNM Albuquerque)]

6. Project/Proposal Title: Collaborative Research: Infaunal Response to Stepped Mass
Extinction: Testing Models for the Late Frasnian (Mid-Late Devonian,
F-F) Biotic Crisis
Source of Support: National Science Foundation
Total Award Amount: \$147,473
Total Award Period Covered: 6/1/04 – 5/31/05
Location of Project: The University of Kansas, Lawrence, Kansas
Person-Months Per Year Committed to the Project: Sumr: 1.0
[PI–Hasiotis; CoPIs–Morrow (SDSU), Meert (UF Gainesville)]

-----Last Promotion-----

5. Project/Proposal Title: Collaborative Research: A Paleontologic, Stratigraphic,
Paleomagnetic, and Sm-Nd Study of the Early Cambrian of E.
Finnmark, Norway
Source of Support: National Science Foundation
Total Award Amount: \$440,318
Total Award Period Covered: 06/01/04 – 5/31/06
Location of Project: The University of Kansas, Lawrence, Kansas
Person-Months Per Year Committed to the Project: Sumr: 1.0

4. Project/Proposal Title: Collaborative Research: Infaunal Response to Stepped Mass
Extinction: Testing Models for the Late Frasnian (Mid-Late Devonian,
F-F) Biotic Crisis
Source of Support: National Science Foundation
Total Award Amount: \$147,473
Total Award Period Covered: 6/1/04 – 5/31/05
Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 1.0

3. Project/Proposal Title: Collaborative Research: Paleoenvironmental and Paleoclimatic
Analysis of the Beacon Supergroup, Beardmore Glacier area, Central
Transantarctic Mountains, Antarctica

Source of Support: National Science Foundation

Total Award Amount: \$278,237

Total Award Period Covered: 11/01/04 – 10/31/07

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 2.0

2. Project/Proposal Title: Collaborative Research: Paleoenvironmental and Paleoclimatic
Analysis of the Beacon Supergroup, Beardmore Glacier area, central
Transantarctic Mountains, Antarctica

Source of Support: National Science Foundation

Total Award Amount: \$223,967

Total Award Period Covered: 11/01/03 – 10/31/06

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 2.0

1. Project/Proposal Title: Collaborative Research: An Integrated Study of the Meso
Neoproterozoic Upper Vindhyan Succession, Central India: India's Place
in Global Reconstructions

Source of Support: University of Florida/National Science Foundation

Total Award Amount: \$139,895

Total Award Period Covered: 12/01/02 – 11/30/05

Location of Project: The University of Kansas, Lawrence, Kansas

Person-Months Per Year Committed to the Project: Sumr: 1.0

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8. 2000: The paleoenvironmental significance and distribution of trace fossils in deep-water
reservoir and non-reservoir rocks in core from West Africa ExxonMobil Corporation
Research Contracts with the Upstream Research Company and Upstream Production
Company, Houston, Texas, (\$30,000)

7. 2000: Triassic and Jurassic continental depositional systems from their updip source to
downdip terminations in wholly continental basins Shell Exploration and Production
Company (United Kingdom) (\$12,000)

6. 1999: Carl O. Dunbar Visiting Scholar Award, Peabody Museum of Natural History, Yale University, New Haven, Connecticut; Research award to study the trace fossils in the invertebrate and vertebrate collections in the Peabody Museum (\$500)
5. 1999: Charles Schuchert Grant-in-Aid Award, Peabody Museum of Natural History, Yale University, New Haven, Connecticut; Research award to study the trace fossils in the invertebrate and vertebrate collections of the Invertebrate and Stratigraphic Sections in Peabody Museum (\$500)
4. 1998: Carl O. Dunbar Visiting Scholar Award, Peabody Museum of Natural History, Yale University, New Haven, Connecticut; Research award to study the trace fossils in the invertebrate and vertebrate collections in the Peabody Museum (\$1000)
3. 1998: Petrified Forest National Park and Petrified Forest Museum Association Research Fellowship Award for a compilation (for the public) on ichnofossil discoveries and significance to evolutionary biology and earth science (\$8,000)
2. 1997: Post-Doctoral Research Fellowship with Exxon Production and Research Company, Houston, Texas, for one to two years with the Fluvial/Tidal Group for the development of continental ichnology and paleopedology in petroleum exploration and production. Also part of the research team for the development of continental sequence stratigraphy and its application to exploration and production in new and proven fields (\$110,000)
1. 1997: NSF Post-Doctoral Research Award - "Collaborative investigation of earliest crayfish: paleobiologic, paleoecologic, and paleoclimatic implications" National Science Foundation Antarctic Program, OPP-9614709 (\$54,949) with Drs. Molly Miller, Loren Babcock, John Isbell, Jim Collinson

Internal Funding

3. 2009: University of Kansas Graduate Research Fund for the Physical Sciences; Project Title: *Distribution of tracemaking biota in arid climate ephemeral lake and terminal-splay complex environments, Lake Eyre Basin, Australia*. Research conducted in the Simpson Desert and Lake Eyre, in the northeastern and northwestern parts of the basin. Internal award; award period: 07/01/09–6/30/10. (\$3,032)

-----Last Promotion-----

2. 2004: University of Kansas Graduate Research Fund for the Physical Sciences; Project Title: *Using the distribution of bottom-dwelling organisms in modern lakes as an analog to understanding organism-substrate interactions in ancient lake deposits*. Research conducted in Lake Tanganyika and adjoining rivers, Tanzania, Africa. Internal award; award period: 07/01/04 – 6/30/05. (\$8,232)

1. 2002: New Faculty General Research Fund Award, *Linking Soils, Soil Biota, Soil Water Budget, and Climate in the Simpson Desert near Alice Springs, Northern Territory, Australia*. Research conducted with Mary Bourke, Oxford University, England. Award Period: 6/01/02-5/31/03. (\$9984)

D. Honors and Awards For Research

14. 2013: SEPM-Nexen Student Poster 2013 Excellence Award for Jackson, A. M., Hasiotis, S.T., Flaig, P.P., and Isbell, J.L., 2013, “Ichnology and Sedimentology of the Lower Permian Mackellar Formation at Turnabout Ridge and Buckley Island, Beardmore Glacier, Central Transantarctic Mountains (CTAM), Antarctica: A Shallow Deltaic Marine Environment”, AAPG National Meeting, Pittsburg, Pennsylvania.

13. 2012: Recipient of the Jan F. and Mary van Sant Geology Excellence Award, Department of Geology, University of Kansas, for excellence in research, teaching, and service.

12. 2009: Elected as a Fellow of the Geological Society of America (GSA) for a distinguished research and international reputation in Ichnology and recognized leading expertise in Continental Ichnology. Confirmed July 1, 2009, and recognized at the GSA national meeting in Portland, Oregon, on October 18, 2009.

11. 2008: PALAIOS 2007 Honorable Mention for Best Paper: Hembree, Daniel I., and Hasiotis, Stephen T., 2007, Paleosols and ichnofossils of the White River Formation of Colorado: Insight into soil ecosystems of the North American Midcontinent during the Eocene-Oligocene transition: PALAIOS, v. 22, no. 2, p. 123–142.

10. 2008: 2003–2007—Most Cited Author in Palaeogeography, Palaeoclimatology, Palaeoecology, Elsevier, Netherlands. Award bestowed on January 18, 2008.

9. 2007: SEPM Best Poster Honorable Mention for “Counts, J. W. and Hasiotis, S. T., Neoichnologic experiments with modern scarabaeid beetle larvae: implications for backfilled trace fossils in Permian continental deposits, Hugoton Gas Field, western Kansas,” AAPG Annual Meeting, Long Beach, California.

8. 2005: Recipient of the Jan F. and Mary van Sant Geology Excellence Award, Department of Geology, University of Kansas, for excellence in research, teaching, and service.

-----KU & Last Promotion-----

6. 1997: University of Colorado Graduate Student Research and Creative Works Awards; University-wide competition for excellence and creativity in research of the highest standard (\$1000)
5. 1995: Department of Geological Sciences W. O. Thompson Research Scholarship for Graduate Student Research for the Recognition of Outstanding Performance in the Earth Sciences (\$700)
4. 1995: Rocky Mountain Paleontological Society Award, Best Student Paper in Paleontology, "Triassic Hymenopterous nests: Insect eusociality predates Angiosperm plants", Geological Society of America, Rocky Mountain Section Meeting, Bozeman, Montana
3. 1995: U. S. Geological Survey, Branch of Paleontology and Stratigraphy, Best Paper of the Year Award, "Termite (Insecta: Isoptera) nest ichnofossils from the Triassic Chinle Formation, Petrified Forest National Park, Arizona" (Ichnos, 4:1-12)
2. 1995: American Federation of Mineralogical Societies Scholarship Foundation, Inc. (\$4,000) - Dr. William Cobban Invertebrate Paleontologist Honorary Award
1. 1993: Colorado Scientific Society's Best Paper of the Year, "Crayfish and their burrows: The antiquity of behavior"

SERVICE

A. University of Kansas Service

- 2011–present Nomination Committee, Department of Geology
- 2011–present Department Representative to the KU Center for Science Education
- 2010–2011 Senior Advisor, Department of Geology
- 2009–2010 Junior Advisor, Department of Geology
- 2009–present Undergraduate Studies Committee, Department of Geology

- 2008–present Faculty Advisor; Student Chapter of the American Association of Petroleum Geologist
- 2008–2009 Sophomore Advisor, Department of Geology
- 2007–present Field Camp Committee, Department of Geology
- 2007–2008 Freshman Advisor, Department of Geology
- 2006–2008 Honors Coordinator, Department of Geology
- 2006–2007 5th-year Senior Advisor, Department of Geology
- 2005–2006 Senior Advisor, Department of Geology
- 2004–present University-Industry Liaison Committee, Department of Geology
- 2004–present Department of Geology Liaison to School of Education Earth/Space Science Program (point person Dr. Jim Ellis)
- 2004–2010 Center for Excellence in Teaching Ambassador, Department of Geology
- 2003–2009 Center for Excellence in Teaching Science Working Group Committee (a.k.a. ProSem); served as cochair with Dr. Steven Shawl

B. Professional Service outside the University—relevant to promotion

Local and State

- 2008 Lecture (invited by Nora Murphy) for middle school students at Central Middle School, Lawrence, Kansas, “New Evidence of Dinosaurs and Ecosystems at High Paleolatitudes: Denali National Park, Alaska,” March 25.
- 2008 Lecture and hands-on activity (invited by Krin Bowman) for the morning and afternoon kindergarten class of Quail Run Elementary School, Lawrence, Kansas; “Dinosaurs: Plant Eaters, Insect Eaters, and Meat Eaters,” March 7.
- 2006 Lecture and hands-on activity (invited by Nancy Dietze) for the 6th grade science classes of Quail Run Elementary School, Lawrence, Kansas; “Paleontology—Integration of Biology, Ichnology, and the Record of Evolution,” April 7.

Regional

- 2005–2010 Field trips (also with Paul Enos) for Sedimentology-Stratigraphy classes of Dr. Daniel Lehrman, Central Michigan University, Pennsylvania Cyclothem in the Midcontinent—A record of eustatic sea-level change, Clinton Spillway, Lawrence, KS.

National

- 2012–2015 Member of the Geological Society of America’s Committee of Nominations. Member-at-Large.
- 2010–present Chair of the Academic Liaison Committee for the American Association of Petroleum Geologists (AAPG); appointment to 2012.
- 2008–2010 Cochair of the Academic Liaison Committee for the American Association of Petroleum Geologists (AAPG).
- 2008–present Board member of the SEPM Foundation, Lawrence, Kansas; appointment to 2012.
- 2004–2006 Member of the Geological Society of America’s Research Grant Committee.
- 2004–2006 Member of the Paleontological Society’s Nominating Committee.

International

- 2010–present Editorial Board member for the professional, peer-reviewed journal *Geological Society of America Bulletin* published by the Geological Society of America; appointment to 2012.
- 2008–present Editorial Board member for the professional, peer-reviewed journal *Geologia Croatica*, Journal of the Croatian Geological Survey; appointment to 2012.
- 2006–present Coeditor of *PALAIOS*, an international peer-reviewed journal published by SEPM (Society of Sedimentary Geologists); appointment 2014 (see supplemental materials).
- 2005–present Editorial Board member for the professional, peer-reviewed journal *University of Kansas Paleontological Contributions, New Series*, published by the Paleontological Institute, University of Kansas, Lawrence, Kansas.
- 2004–2006 Editorial Board member for the professional, peer-reviewed journal *Geology*, published by the Geological Society of America.
- 2002–present Short Course Instructor, SEPM Short Course #51 Continental Trace Fossils, taught to undergraduate and graduate students at universities, government and industry institutions, and professionals at national and international scientific meetings (see list of invited short courses).

C. Honors and Awards for Service

N/A