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Kansas Geological Survey
Stratigraphic Research Section
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Education

Ph.D. Geology 2007

University of Kansas, Lawrence, KS

Dissertation: *Ichnofossils of the Paleogene Willwood Formation and the Paleocene-Eocene Thermal Maximum (PETM): Response of an Ancient Soil Ecosystem to Transient Global Warming*

Advisors: Stephen Hasiotis, Robert Goldstein, Bruce Lieberman, Jennifer Roberts, William Johnson

M.S. Geology 2001

Georgia State University, Atlanta, GA

Thesis: *The Stratigraphy and Petrology of the Upper Jurassic Morrison Formation near Dillon, Montana*

Advisors: William Fritz, Timothy La Tour, W. Crawford Elliott

B.S. Geology 1998

Georgia State University, Atlanta, GA

Academic and Professional Positions

- 2009-present **Assistant Scientist**, Stratigraphic Research Section Kansas Geological Survey, Lawrence, KS
- 2007-2009 **Postdoctoral Research Associate**, Stratigraphic Research Section, Kansas Geological Survey, Lawrence, KS
- 2003-2006 **Graduate Research Assistant**, Department of Geology, University of Kansas, Lawrence, KS
- 2001-2003 **Adjunct Professor**, Department of Science, Georgia Perimeter College, Dunwoody, GA
- 2000-2003 **Environmental Consultant/Project Manager**, ENSR Corp., Norcross, GA
- 1999-2000 **Graduate Research Assistant**, Department of Geology, Georgia State University
- 1998-1999 **Graduate Teaching Assistant**, Department of Geology, Georgia State University
- 1996-1998 **Teaching Assistant**, Department of Geology, Georgia State University

Academic Awards and Honors

- 2007 Erasmus S. Haworth Distinguished Graduate Award, University of Kansas
- 2007 Joseph Minton Patterson Scholarship, Geology Department, University of Kansas
- 2006 Dissertation Fellowship, University of Kansas Graduate School
- 2006 Preparing Future Faculty Fellowship, University of Kansas Graduate School
- 2006 Raymond and Lillian Moore Graduate Scholarship, Geology Dept., University of Kansas
- 2006 Eugene Dehner Award, Kansas Academy of Science, Ph.D. Oral Presentation.
- 2005 Lloyd Henbest Graduate Scholarship, University of Kansas
- 2004 Frederick T. Holden Scholarship, Geology Department, University of Kansas
- 1997 Field Camp Award, Georgia State University

Grants and Proposals

Funded Grants

- 2012 Stotler, R., Butler, J., Hirmas, D., Ludvigson, G., and **Smith, J.J.**, Investigations of Recharge to the High Plains Aquifer, Northwestern Kansas. Kansas Water Resources Institute 104(b) Research Grant (\$30,000).
- 2011 Ludvigson, G.A., **Smith, J.J.**, Johnson, W.C., Mandel, J.R., Newell, K.D., Sawin, R.S., Whittemore, D.O., and Dunham, J.W., Geologic Mapping in Kansas for FY11. U.S. Geological Survey STATEMAP Program (\$216,325)
- 2010 Ludvigson, G.A. and **Smith, J.J.**, Lithologic Calibration of Practical Saturated Thickness in the Ogallala-High Plains Aquifer. Kansas Water Office (\$68,100)
- 2010 **Smith, J.J.**, Petronis, M., Ludvigson, G.A., and Doveton, J.H., Collaborative Research: Investigating Lithologic and Stratigraphic Controls on Hydrogeology in Neogene Strata of the Central High Plains Aquifer. National Science Foundation (\$381,000)
- 2010 Ludvigson, G.A., **Smith, J.J.**, Johnson, W.C., Mandel, J.R., Newell, K.D., Sawin, R.S., Whittemore, D.O., and Dunham, J.W., Geologic Mapping in Kansas for FY10. U.S. Geological Survey STATEMAP Program (\$221,100)
- 2009 Ludvigson, G.A., Macfarlane, P.A., Mandel, J.R., Newell, K.D., Sawin, R.S., Johnson, W.C., Dunham, J.W., and **Smith, J.J.**, Geologic Mapping in Kansas for FY09. U.S. Geological Survey STATEMAP Program (\$198,628)
- 2008 Ludvigson, G.A., Macfarlane, P.A., Mandel, J.R., Newell, K.D., Sawin, R.S., Johnson, W.C., Dunham, J.W., and **Smith, J.J.**, Geologic Mapping in Kansas for FY08. U.S. Geological Survey STATEMAP Program (\$206,164)

Submitted Research Proposals

- 2011 Ludvigson, G.A., **Smith, J.J.**, Johnson, W.C., Mandel, J.R., Newell, K.D., Sawin, R.S., Whittemore, D.O., and Dunham, J.W., Geologic Mapping in Kansas for FY12. U.S. Geological Survey STATEMAP Program (\$271,223 requested)

Others (Graduate Student Research Grants)

- 2006 Paleontological Society Stephen J. Gould Grant (\$500)
- 2006 August L. Selig Summer Research Grant, University of Kansas (\$1,500)
- 2006 Panorama Small Grants Society Award (\$700)

- 2005 Geological Society of America Student Research Grant (\$1,500)
 2005 August L. Selig Summer Research Grant, University of Kansas (\$1,500)

Professional Activities and Service

- 2011 **Co-Chair**, *Lessons from the Living: Paleontological Investigations Using Modern Analogs*, with Daniel Hembree and Brian Platt, Annual Meeting of the Geological Society of America
- 2011 **Committee Chair**, Outstanding Student Awards, Kansas Geological Survey
- 2011 **Search Committee Member** – Hydrogeologist, KGS
- 2011 **Search Committee Member** - High Plains Data Manager, KGS
- 2010 **Committee Member**, Outstanding Student Awards, Kansas Geological Survey
- 2009 **Search Committee Member** - Geologic Assistant, Kansas Geological Survey
- 2008 - 2012 **Lead Mapper**, STATEMAP initiative, Kansas Geological Survey
- 2008 **Co-Chair**, *Neontological Solutions to Paleontological Problems: Actualistic Studies of the Morphology, Behavior, and Ecology of Modern Analogs for Ancient Organisms*, with Daniel Hembree and Brian Platt, Annual Meeting of the Geological Society of America
- 2007 **Co-Chair**, *Fossils and Modern Analogs: Using Modern Organisms to Improve Paleontological Interpretations*, with Daniel Hembree and Brian Platt, Geological Society of America, South- and North-Central Joint Section Meeting.
- 2007 **Student Volunteer**, GSA South- and North-Central Joint Section Meeting
- 2006 **Student Representative**, Graduate Studies Advisory Board, Department of Geology, KU
- 2005 **Student Volunteer**, American Association of Petroleum Geologists Annual Convention
- 2004 **Student Representative**, Graduate Advisory Board, Department of Geology, KU
- 1998 - 2000 **President**, Epsilon Rho Chapter of Sigma Gamma Epsilon, Georgia State University

Professional Societies

Geological Society of America (GSA)
 American Association of Petroleum Geologists (AAPG)
 American Geophysical Union (AGU)
 Paleontological Society (PS)
 Society for Sedimentary Geology (SEPM)

Invited Symposia and Talks

- Kansas Geological Survey Advisory Committee meeting, August 19, 2011, *Coring the Ogallala: Scientific Drilling in the High Plains of Western Kansas*.
- Kansas Geological Mapping Advisory Committee meeting, July 19, 2011, *Scientific Drilling in the High Plains of Western Kansas – FY2010*.
- Kansas Geological Mapping Advisory Committee meeting, June 17, 2010, *Kansas Participation in the National Cooperative Geologic Mapping Program, FY2010*.
- University of Kansas, Department of Geography, Guest Lecturer, November 2, 2009, *Soil Biota: Their Role in Pedogenesis and Use in Paleoenvironmental Interpretation*.

- Kansas Geological Survey, November 4, 2008, *Chemostratigraphic, Paleopedologic, and Paleobiologic Response to Climate Change: Two Case Studies in Terrestrial Cenozoic Deposits*.
- Kansas Geological Survey, September 13, 2007, *Ichnology and paleopedology of the Willwood Formation, Bighorn Basin, Wyoming through the Paleocene-Eocene Thermal Maximum: response of soil ecosystems to a transient global warming event*.
- University of Kansas, Natural History Museum and Biodiversity Research Center, May 9, 2007, *The occurrence and distribution of ichnofossils across the Paleocene-Eocene Thermal Maximum (PETM), Willwood Formation, Wyoming: the response of ancient soil biota to global warming*.

Publications

Refereed Publications

- Ludvigson, G.A., González, L.A., Fowle, D.A., Roberts, J.A., Driese, S.G., Villarreal, M.A., **Smith, J.J.**, Suarez, M.B., *in press*. Paleoclimatic implications and modern process studies of pedogenic siderite *in* Driese, S.G., and Nordt, L.C., *eds*. New Frontiers in Paleopedology and Terrestrial Paleoclimatology: *SEPM Special Publications*.
- Smith, J.J.**, Platt, B.F., Ludvigson, G.A., and Thomasson, J.R., 2011. Ant-nest ichnofossils in honeycomb calcretes, Neogene Ogallala Formation, High Plains region of western Kansas, U.S.A. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 308: 383-394.
- Driese, S.G., Ludvigson, G.A., Roberts, J.A., Fowle, D.A., González, L.A., **Smith, J.J.**, Vulava, V.M., and McKay, L.D., 2010, Micromorphology and stable isotope geochemistry of historical pedogenic siderite formed in PAH-contaminated alluvial clay soils, Tennessee, USA. *Journal of Sedimentary Research*, 80: 943-954.
- Ludvigson, G.A., Sawin, R.S., Franseen, E.K., Watney, W.L., West, R.R., and **Smith, J.J.**, 2009, A Review of the Stratigraphy of the Ogallala Formation and Revision of Neogene ("Tertiary") Nomenclature in Kansas. *Current Research in Earth Sciences: Kansas Geological Survey*, Bulletin 256, part 2, 9 pgs. <http://www.kgs.ku.edu/Current/2009/Ludvigson/index.html>.
- Smith, J.J.**, Hasiotis, S.T., Kraus, M.J., and Woody, D.T., 2009, Transient dwarfism of soil fauna during the Paleocene–Eocene Thermal Maximum. *Proceedings of the National Academy of Sciences*, 6: 17655-17660.
- 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, Polecat Bench, Bighorn Basin, Wyoming, during the Paleocene-Eocene Thermal Maximum. *PALAIOS*, 23: 683-699.
- 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*, 23: 503-513.
- Smith, J.J.**, Hasiotis, S.T., Woody, D.T., and Kraus, M.J., 2008. Paleoclimatic implications of crayfish-mediated prismatic structures in paleosols of the Paleogene Willwood Formation, Bighorn Basin, Wyoming, U.S.A. *Journal of Sedimentary Research*, 78: 323-334.

- Smith, J.J.**, Hasiotis, S.T., Kraus, M.J., and Woody, D.T., 2008. *Naktodemasis bowni*: new ichnogenus and ichnospecies for adhesive meniscate burrows (AMB), and paleoenvironmental implications, Paleogene Willwood Formation, Bighorn Basin, Wyoming. *Journal of Paleontology*, 82: 267-278.
- Smith, J.J.**, Hasiotis, S.T., and Fritz, W.J., 2006. Stratigraphy and sedimentology of the Upper Jurassic Morrison Formation, Dillon, Montana. In Foster, J.R. and Lucas, S.G. (eds.), Paleontology and Geology of the Upper Jurassic Morrison Formation. *New Mexico Museum of Natural History and Science Bulletin* 36: 1-7.

Published Scientific Abstracts (* indicates speaker)

34. *Zeigler, K.E., Petronis, M.S., **Smith, J.J.**, Ludvigson, G.A., and Doveton, J., 2012. Preliminary Magnetostratigraphic Analyses of the Neogene Ogallala Formation in southwestern Kansas and northeastern New Mexico for the High Plains-Ogallala Drilling Program. *Geological Society of America, Rocky Mountain Section - 64th Annual Meeting*.
33. ***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, Abstracts with Programs*, 43(5): 380.
31. *Villarreal, M.A., Ludvigson, G.A., Fowle, D.A., Gonzalez, L.A., Roberts, J.A., **Smith, J.J.**, Driese, S.G., and McKay, L.D., 2011. Actualistic calibration of the pedogenic siderite paleoclimate proxy. *Geological Society of America, Abstracts with Programs*, 43(5): 618.
30. ***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.
29. ***Smith, J.J.**, Ludvigson, G.A., Doveton, and J.H., Petronis, M.S., 2010. Inauguration of a scientific drilling program investigating the lithology and stratigraphy of Neogene strata of the Central High Plains Aquifer in western Kansas. *Geological Society of America, Abstracts with Programs*, 42(5): 431.
28. ***Smith, J.J.**, Ludvigson, G.A., Johnson, W.C., Mandel, R., Newell, D., Sawin, R.S., Whittemore, D.O., and Dunham, J.W., 2010. STATEMAP: The National Cooperative Geologic Mapping Program in Kansas. 27th Annual Water and the Future of Kansas Conference.
27. ***Smith, J.J.**, Platt, B.F., Ludvigson, G.A., and Thomasson, J.R., 2010. Paleoenvironmental implications of ant nest trace fossils in calcic paleosols of the Neogene Ogallala Formation, Scott County, Kansas. *Association of American Geographers, Great Plains/Rocky Mountain Division Annual Meeting, Program and Abstracts*, p. 62.
26. ***Smith, J.J.**, Platt, B.F., Ludvigson, G.A., Thomasson, J.R., 2009. Exceptionally well-preserved ant nest fossils in calcic paleosols of the Ogallala Formation (Miocene), Scott County, Kansas, USA. *Geological Society of America, Abstracts with Programs*, 41(7): 161-162.
25. *Ludvigson, G.A., Driese, S.G., **Smith, J.J.**, Gonzalez, L.A., Roberts, J.A., Fowle, D.,

- McKay, L.D., and Vulava, V., 2009. Formation of historical pedogenic siderite in PAH-contaminated alluvial clay soils, Tennessee, USA: Part II: Stable isotopic data on modern analogue for a deep-time paleoclimate proxy. *Geological Society of America, Abstracts with Programs*, 41(7): 68.
24. ***Smith, J.J.**, Ludvigson, G.A., Mandel, R., Macfarlane, P.A., Haj, A., Murphy, L., and McKee, A., 2009. A record of carbon- and oxygen-isotope excursions from pedogenic carbonates of the Neogene High Plains succession in western Kansas. *Geological Society of America, Abstracts with Programs*, 41(7): 125-126.
 23. * **Smith, J.J.**, Platt, B.F., Ludvigson, G.A., and Thomasson, J.R., 2009. Description and paleohydrological implications of exceptionally well preserved fossil ant nests in calcic paleosols of the Ogallala Formation (Miocene), Scott County, Kansas, USA. *9th North American Paleontological Convention Abstracts, Cincinnati Museum Center Scientific Contributions No.3*, p. 444.
 22. ***Smith, J.J.**, Ludvigson, G.A., Macfarlane, P.A., Mandel, R., Haj, A., Murphy, L., and McKee, A., 2008. Carbon isotopic chemostratigraphy of Neogene strata in the High Plains Succession of Kansas. *Joint Meeting of The Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, Gulf Coast Association of Geological Societies with the Gulf Coast Section of SEPM, Abstracts with Programs*, 40(6):257.
 21. *Hasiotis, S.T., Fairchild, J., Wallace, T., Counts, J.W., Devlin, J.F., Hembree, D.I., and **Smith, J.J.**, 2008. 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. *Joint Meeting of The Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, Gulf Coast Association of Geological Societies with the Gulf Coast Section of SEPM, Abstracts with Programs*, 40(6): 440.
 20. *Hasiotis, S.T., Counts, J.W., Kraus, M.J., and **Smith, J.J.**, 2008. Revised ichnopedofabric indices that semiquantitatively analyzes the degree of pedogenic modification: Recognizing the effects of subaerial exposure on continental and marine deposits. *Joint Meeting of The Geological Society of America, Soil Science Society of America, American Society of Agronomy, Crop Science Society of America, Gulf Coast Association of Geological Societies with the Gulf Coast Section of SEPM, Abstracts with Programs*, 40(6):285.
 19. *Ludvigson, G.A., **Smith, J.J.**, Macfarlane, P.A., Mandel, R., Haj, A.E., Murphy, L., and McKee, A., 2008. Evidence for a regionally persistent carbon isotopic chemostratigraphy in the Neogene High Plains succession of western Kansas. *Geological Society of America, North-Central Section Meeting, Abstracts with Programs*, 40(5):24.
 18. *Kraus, M.J., Woody, D.T., **Smith, J.J.**, and Hasiotis, S.T., 2008. Rapid paleoenvironmental change during the Paleocene-Eocene Thermal Maximum (PETM), Bighorn Basin, WY. *American Association of Petroleum Geologists Annual Convention, Abstracts Volume 17*.
 17. *Hasiotis, S.T., Kraus, M.J., **Smith, J.J.**, Platt, B.F., and Counts, J.W., 2008.

- Ichnopedologic fabric analysis: developing a new method that incorporates ichnofabrics and pedofabrics in sedimentologic and stratigraphic analyses. *American Association of Petroleum Geologists Annual Convention, Abstracts Volume 17*.
16. * **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 Program, 39(6): 206*.
 15. 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, Abstracts with Programs, 39(6): 192*.
 14. ***Smith, J.J.** and Hasiotis, S.T., 2007. Traces and burrowing behaviors of the cicada nymph *Melampusalta calliope*: Neoichnology and paleoecological significance of modern soil-dwelling insects. *Geological Society of America, South- and North-Central Joint Section Meeting, Abstracts with Programs 39(3):54*.
 13. *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 Volume 16*.
 12. ***Smith, J.J.**, Hasiotis, S.T., Kraus, M.J., and Woody, D., 2006. Morphology and paleoenvironmental implications of adhesive meniscate burrows (AMB), Paleogene Willwood Formation and other continental deposits. *Geological Society of America, Abstracts with Programs, 38(7):536*.
 11. *Woody, D.T., **Smith, J.J.**, and Kraus, M.J., 2006. Preservation of a vegetated landscape in the earliest Eocene, Polecat Bench, Bighorn Basin, Wyoming. *Geological Society of America, Abstracts with Programs, 38(7):144*.
 10. ***Smith, J.J.**, 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*.
 9. ***Smith, J.J.**, Woody, D.T., Hasiotis, S.T., and Kraus, M.J., 2005. Pedogenic overprinting of crayfish-burrowed alluvial deposits in the Paleogene Willwood Formation, Bighorn Basin, Wyoming. *Geological Society of America, Abstracts with Programs, 37(7):444*.
 8. *Woody, D.T., **Smith, J.J.**, Kraus, M.J., and Hasiotis, S.T., 2005. Absence of preserved manganese-rich rhizoliths within the PETM interval and its climatic implications. *Geological Society of America, Abstracts with Programs, 37(7):414*.
 7. ***Smith, J.J.**, Hasiotis, S.T., and Kraus, M.J., 2005. Morphologic and paleoenvironmental implications of adhesive meniscate burrows (AMBs) common to paleosols of the Paleogene Willwood Formation, Bighorn Basin, Wyoming, and other continental deposits. *G-Hawk Symposium, Geology Department, University of Kansas, Program and Abstract Volume, 2005*.
 6. ***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, Bighorn Basin, Wyoming. *American Association of Petroleum Geologists Annual Convention, Abstracts Volume, 14: 130*.

5. ***Smith, J.J.**, Hasiotis, S.T., Kraus, M.J., and Woody, D., 2004. The occurrence and diversity of trace fossils in paleosols of the lower Eocene Willwood Formation: preliminary results. *G-Hawk Student Symposium, Geology Department, University of Kansas, Program and Abstract Volume, 2004.*
4. ***Smith, J.J.**, Hasiotis, S.T., Kraus, M.J. and Woody, D., 2004. The occurrence and diversity of trace fossils in paleosols of the lower Eocene Willwood Formation during the Paleocene-Eocene Thermal Maximum (PETM) event: preliminary results. *Geological Society of America, Abstracts with Programs, 36(5):62.*
3. *Hasiotis, S.T., Hembree, D., **Smith, J.J.**, and Platt, B.F., 2004. Modern crayfish burrows as indicators of a spring and perched water table, Kansas Ecological Research Station, Lawrence, Kansas. *Geological Society of America, Abstracts with Programs, 36(5):130.*
2. ***Smith, J.J.**, Hasiotis, S.T., and Kraus, M.J., 2004. Preliminary study on the occurrence and distribution of trace fossils in paleosols across the Paleocene-Eocene Thermal Maximum (PETM) in the Bighorn Basin, Wyoming. *Journal of Vertebrate Paleontology Annual Meeting, Abstracts of Papers, 24 (3, Suppl.):114.*
1. ***Smith, J.J.**, and Fritz, W.J., 2003. Sedimentology, stratigraphy and geochemistry of the Upper Jurassic Morrison Formation near Dillon, Montana. *G-Hawk Student Symposium, Geology Department, University of Kansas, Program and Abstract Volume, 2003.*

Miscellaneous Articles, Reviews, Scientific Communications, and Degree Theses

- Smith, J.J.**, and Sleezer, R., 2011, Field geology maps, Harvey County, Kansas (Halstead NW, Burrton, Patterson, and Bentley USGS 7.5 minute quadrangles): Kansas Geological Survey, Open-file Report 2011-11, 4 sheets, scale 1:24,000.
- Smith, J.J.**, and Johnson, W.C, 2011, Field geology map, Haskell County, Kansas (Copeland NW USGS 7.5 minute quadrangle): Kansas Geological Survey, Open-file Report 2011-13, 1 sheet, scale 1:24,000.
- Greg A. Ludvigson, Rolfe Mandel, Allen MacFarlane, and **Jon J. Smith**, 2010. Capturing the Record of Neogene Climate Change from Strata of the High Plains Aquifer in Kansas: Research Activities and Findings. Final Report on Kansas Geological Survey Small Grant for Research Project 2950403 on High Plains Aquifer in Kansas.
- Smith, J.J.**, and Sleezer, R., 2010, Field geology maps, Harvey County, Kansas (Halstead, Hesston, Moundridge, and Zimmerdale USGS 7.5 minute quadrangles): Kansas Geological Survey, Open-file Report 2010-10, 4 sheets, scale 1:24,000.
- Smith, J.J.**, and Sleezer, R., 2009, Field geology maps, Harvey County, Kansas (Sedgwick, Sedgwick NE, Newton, and Goessel USGS 7.5 minute quadrangles): Kansas Geological Survey, Open-file Report 2009-15, 4 sheets, scale 1:24,000.
- Haj, A., Murphy, L. and **Smith, J.J.**, 2008. *Laboratory Procedures and Worksheets: Decarbonation for Ground Sediment/Soil Samples.* Kansas Geological Survey Decarbonation Laboratory, 4p.
- Smith, J.J.**, 2008. Review of *Why Size Matters: From Bacteria to Blue Whales* by John Tyler Bonner, *PALAIOS*, DOI: 10.2110/palo.2008.BR29.
- Smith, J.J.**, 2007. *Ichnofossils of the Paleogene Willwood Formation and the Paleocene-Eocene Thermal Maximum (PETM): Response of an Ancient Soil Ecosystem to Transient Global Warming.* Ph.D. Dissertation, Department of Geology, The University of Kansas, Lawrence, KS, 183p.

Smith, J.J., 2001. *The Stratigraphy and Petrology of the Upper Jurassic Morrison Formation near Dillon, Montana*. M.Sc. thesis, Department of Geology, Georgia State University, Atlanta, GA, 88p.