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CURRICULUM VITAE: STEVEN L. FORMAN

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PERSONAL DETAILS

Born: July 26, 1958; Detroit, Michigan; U.S.A. Citizen

Children: Jacob Schneider Forman (9/23/88) & Emma Schneider Forman (2/3/94)

EDUCATION

B.Sc. in Geology (with distinction), University of Illinois-Urbana, Illinois, May 1981. Senior Honors

Thesis: Quaternary till, loess, and soil stratigraphy Athens North Quarry, Menard County, Illinois.

Ph.D. in Geological Sciences, University of Colorado, Boulder, December 1986. Dissertation: Quaternary glacial, marine, and soil-developmental history of the Forlandsund area, Spitsbergen, Svalbard.

CAREER

2014 to present: Professor of Geosciences/Paleoclimatology, Dept. of Geosciences, Baylor University, Waco, Texas and Director of Geoluminescence Dating Research Laboratory.

1999 to 2014: Professor, Department of Earth and Environmental Sciences, University of Illinois at Chicago, Director, Luminescence Dating Research Laboratory.

1999 to 2001: Acting & founding Director of the Institute of Environmental Science and Policy, University of Illinois at Chicago.

1996 to 1999: Associate Professor (tenured), Department of Earth and Environmental Sciences, University of Illinois at Chicago.

1991 to 1996: Research Scientist, Byrd Polar Research Center, The Ohio State University Columbus, Ohio.

1991 to 1996: Adjunct Assistant Professor, Dept. of Geological Sciences, The Ohio State University, Columbus, Ohio.

1988 to 1991: Assistant Professor (attend. rank), Dept. of Geological Sciences, Univ. of Colorado, Boulder.

1986 to 1991: Fellow and Director of Thermoluminescence Dating Research Laboratory, Center for Geochronological Research, Institute of Arctic & Alpine Research, Univ. of Colorado, Boulder.

1984 to 1985: Research Associate, Thermoluminescence Dating Laboratory, Sub-Department of Quaternary Research, University of Cambridge, Cambridge, England.

1981 to 1984: Graduate Research Assistant, Institute of Arctic and Alpine Research, Amino Acid Geochronology Laboratory, University of Colorado, Boulder.

1981: Physical Scientist, Cold Regions Research & Engineering Laboratory, Army Corps of Engineers, Hanover, New Hampshire.

1979 to 1981: Laboratory Assistant, Industrial Minerals Section, Illinois State Geolog. Survey, Urbana, IL

1977 to 1978: Field Archaeologist, Dept. of Anthropology, Western Illinois Univ., Macomb, IL

PROGRAMMATIC ACCOMPLISHMENTS

1994-1996: Established an Office Naval Research sponsored Arctic Sediment Core Repository Facility at Byrd Polar Research Center, The Ohio State University with initial funding of \$0.5 m.

1995-2003: Initiated and developed the NSF program: "Russian-American Initiative on Shelf-Land Environments in the Arctic (RAISE)."

1996-2001: Established multidisciplinary whole campus Institute of Environmental Science and Policy at the University of Illinois at Chicago with initial funding of \$1.5 m.

1996-present: Established and operate Geoluminescence Dating Research Facility; 2 full time technicians, 1-3 Graduate students and 1-3 undergraduate students with an annual operating budget of ~\$250 k.

2000-2004: Developed and established new PhD program in Earth and Environmental Sciences at the University of Illinois at Chicago.

2006-2011: Developed and secured NSF funding (~\$2.8 m) with colleagues in Biological Sciences, Civil Engineering and Planning and Public Policy for a new IGERT (Integrated Graduate Education and Research and Training) PhD program called "LEAP" (Landscapes, Ecosystems, Anthropogenic Processes).

HONORS AND AWARDS

1998: Gladys W. Cole Research Award, Quaternary Geology & Geomorphology Division, Geological Society of America.

1999-2000: Committee for Institutional Cooperation Academic Leadership Fellowship

2002-2003: Institute of Environmental Science and Policy Faculty Fellowship, Univ. of Illinois at Chicago.

2014-2015: Chinese Academy of Sciences Visiting Scholar Fellowship, Institute of Geology and Geophysics, Beijing

2019: Farouk El-Baz Desert Research Award, Quaternary Geology & Geomorphology Division, Geological Society of America Foundation.

NATIONAL AND INTERNATIONAL PROFESSIONAL SERVICE AND RECOGNITION

1988: Co-Organizer 18th Annual Arctic Workshop, Boulder, CO

1989-91: Earth Science Proposal Review Panel, National Science Foundation, Polar Programs

1990: Co-Leader Colorado Scientific Society Annual Field Trip, "Environmental Systems of the High Plains of Northeastern Colorado"

1990: Co-Leader Midwest Friends of the Pleistocene field trip, western Iowa

1990: Invited attendee Geological Society of America Penrose Conference
"New Methods of Dating Geomorphic Surfaces"

1990-1993: Editorial Board of *Geology*, The Geological Society of America

1992-1995: Research Affiliate, INSTAAR, Univ. of Colorado, Boulder, CO

1992: Invited attendee NOAA Workshop on Global Ice Sheet Reconstruction

1993: Co-Organizer 23rd Annual Arctic Workshop, Columbus, OH

1993-1998: Editorial Board of *Quaternary Geochronology*; Book Review Editor

1994-1997: Member of NASA Antarctic Mapping Advisory Group

1993-1996: Editorial Board of *Geology*, The Geological Society of America

1994: Member of Nuclear Regulatory Commission Panel "Geochronology and Paleoseismology"

1994: Interdisciplinary Proposal Review Panel, National Science Foundation, Office of Polar Programs

1995: Organizer for National Science Foundation-Arctic System Science Workshop
"To Define Research Priorities for Russian Arctic Land-Shelf Systems"

1995: National Science Foundation, Office of Polar Programs Panel to develop American-Russian Bilateral Program in the Arctic

1995-1997: Co-chair on National Science Foundation-Arctic System Science Program Panel to develop American-Russian Research Program in the Arctic.

1996: American Geological Institute, *Glossary of Geology* reviewer (Glacial Geology)

1996: Invited discussion leader for National Science Foundation Planning Workshop on
"Terrestrial aspects of Earth System History"

1996: Invited Working Group co-chair, National Science Foundation, Arctic System Science, All Hands Workshop.

1997: Invited contributor to *Encyclopedia of Quaternary Sciences* (Glaciation of Eurasia)

1997-2000: Chair of NSF-Arctic System Science Initiative "Russian-American Initiative on Shelf-Land Environments in the Arctic (RAISE)"

1997: Panel Member for "Future Prospects in Arctic Paleoenvironmental Science", Earth System History/Arctic System Science, NSF.

1998: Co-Chair, Geological Society of America National Meeting thematic session on "Continental Ice Sheets: The Continuing Debate".

1998: Instructor for International Course in Active Faulting and Paleoseismology, Luxembourg University and European Center for Geodynamics and Seismology

1998: Data review for U.S. Geological Survey-Denver, Luminescence Dating Facility

- 1998-2003: Research Associate, Dept. of Anthropology, and Field Museum of Natural History
- 1998: Panel Member NSF-Paleoenvironmental Arctic Research for Arctic System Science, U.S. Global Change Research Program.
- 1999: Invited attendee NOAA/NASA Workshop on "Assessing the Full Range of Central North American Droughts and Associated Land Cover Change"
- 1999: Invited testimony to the International Joint Commission on "Anthropogenic and climate controls on Great Lakes water level"
- 1999-2001: U.S. Representative for International Science Initiative in the Russian Arctic Advisory Group, International Arctic Science Committee (Polar Research Board).
- 2000: NSF Joint Antarctic Glaciology/Antarctic Geology and Geophysics Proposal Review Panel
- 2001: Organizing Committee for the International Conference "Sedimentologic processes and evolution of marine ecosystems in Arctic Seas" Murmansk, Russia, November 8-10, 2001.
- 2001-2003: NSF Steering Committee for "Russian-American Initiative on Shelf-Land Environments in the Arctic (RAISE)"
- 2002: Organizing Committee for Midwest Environmental Chemistry Workshop, University of Illinois
- 2002: Review panel for Geology Program, Dept. of Geology, Indiana Univ.-Purdue University, Indianapolis, IN.
- 2003: Invited attendee Intergovernmental Panel for Climate Change/CLIVAR/PAGES Workshop on "Multi-Millennia perspective on drought and implications for the future."
- 2004: Co-Organizer for NSF-Workshop on "the Amerasian Basin and its Margins."
- 2004: Citation for GSA Geoarchaeology Ripp Rapp Award to Dr. Michael Waters.
- 2005: Citation for GSA Quaternary Geology and Geomorphology Easterbrook Award to Dr. Gifford Miller.
- 2005-2007: Visiting Professor, University of Course on Svalbard, Norway for a graduate class and field research course on Quaternary and marine geology of Spitsbergen, Norway.
- 2006-2008: Voted panel member of Quaternary Geology and Geomorphology Division, Geological Society of America.
- 2007: Invited panel member for Global Initiative Chicago, Energy, and Environment symposium. Harold Washington College, Chicago.
- 2007: National Science Foundation Review Panel for International Polar Year educational proposals.
- 2008: Invited Participant for Paleoamerican Origins Workshop, Univ. of Texas-Austin.
- 2013-present: Editorial Board: *Frontiers in Earth Sciences*
- 2013-present: Inaugural and lead Editor: *Frontiers in Quaternary Sciences, Geomorphology and Paleoenvironments*
- 2013-NSF Workshop, EarthCube domain end-user workshop: Bringing Geochronology into the EarthCube framework
- 2013: Invited Scholar Korea Basic Science Institute, Seoul, South Korea (October 9-15)
- 2014: Invited participant in International Atomic Energy Agency "Expert Mission on Paleoseismology of Active Thrust Faults, Santiago, Chile (January 8-14).
- 2017-present: Associate Editor for *Quaternary*
- 2020-2022: Geol. Soc. Amer. Farouk El Baz Award for Desert Research selection committee.

INVITED PRESENTATIONS/TEACHING

- 1990: Colorado Scientific Society, Denver, CO.
- 1992: State University of New York, Binghamton, Dept. of Geology
- 1992: University of Illinois, Urbana, Dept. of Geology
- 1993: Archeological Geology Division, National Geological Society of America Meeting
- 1994: USGS Workshop on "Paleoseismicity of the Holocene"
- 1995: National Science Foundation-Arctic System Science Workshop "Biological Initiative in the Arctic: Shelf-Basin Interactions"
- 1996: National Science Foundation Planning Workshop on "Terrestrial aspects of Earth System History"
- 1996: Earth Science Center, Gothenburg University, Sweden
- 1997: NSF Paleoclimate of Arctic Lakes and Estuary Workshop on arctic hydrology
- 1997: NSF Ocean-Atmosphere Interactions meeting, Arctic System Science Initiative

- 1998: Purdue Rare Isotope Measurement Laboratory, Purdue University
- 1998: University of Chicago, Dept. of Geophysical Sciences
- 1998: Keynote speaker at “International Symposium on Polar Aspects of Global Change”, Tromsø, Norway.
- 1998: Fall AGU Session “Paleoenvironmental Changes along the Northern Siberian Margin since the LGM
- 1999: Northern Illinois University, Department of Geosciences
- 1999: European Science Foundation Meeting "Quaternary Environments in the Eurasian North"
- 1999: Fall AGU Session "Assessing the Range of Central North American Droughts and Associated Land Cover Change"
- 2000: T. M. Stout Lecturer, Dept. of Geosciences, University of Nebraska-Lincoln
- 2001: European Union of Geosciences session on “Margins and Environments of the northern Eurasian Late Quaternary Ice Sheets”
- 2001: University of Illinois-Urbana, Dept. of Geology
- 2001: University of Pennsylvania, Dept. of Geology
- 2001: Indiana University, Geoscience Dept.
- 2001: Miami University, Dept. of Geology
- 2001: International Continental Scientific Drilling Program, El'gygytgyn Lake (Russia) Workshop
- 2001: Arctic System Science, Ocean-Atmosphere Interactions NSF Workshop
- 2002: University of South Carolina, South Carolina Institute of Archaeology and Anthropology
- 2002: Invited presenter NSF workshop “Holocene Thermal Maximum in the Arctic”
- 2003: University of Memphis, Dept. of Earth Sciences.
- 2003: Northern Illinois University, Department of Geosciences
- 2004: Baylor University, Waco, TX, Dept. of Geology
- 2004: Climate Research Program, Dept. of Atmospheric and Space Sciences, Univ. of Wisconsin, Madison
- 2004: Illinois State Museum, Springfield
- 2005: Invited speaker “Clovis in the Southeastern U.S.”, Univ. of S. Carolina, Columbia, SC
- 2005: Invited lecturer Univ. of Buenos Aries, Argentina, Dept. of Geology
- 2006: Keynote Speaker American Quaternary Association Biannual Meeting, Bozeman, Montana
- 2006: Texas A & M University, College Station, TX, Dept. of Geography
- 2006: University of Iowa, Iowa City, IA, Dept. of Geological Sciences
- 2007: Invited lecturer, University of Santiago, Chile, Dept. of Geology
- 2010: Invited lecturer, Univ. of Buenos Aries, Argentina, Dept. of Geology
- 2005-2010: Visiting Professor, University on Svalbard, Norway
- 2012: Visiting Professor, Dept. of Geology, University of Chile, Santiago, Chile
- 2013: Dept. of Geology, Baylor University, Waco, Texas
- 2013: Dept. of Archaeology, Seoul National University, Korea
- 2014: Invited lecturer, University of Santiago, Chile, Dept. of Geology
- 2014: Invited Lecturer, University of Buenos Aries, Argentina
- 2014: Invited Lecturer, Lanzhou University, Lanzhou, China
- 2015: Invited Presenter, Society of American Archaeology, San Francisco, CA
- 2017-2018: Planning Committee, 5th Asia Pacific Conference on Luminescence and Electron Spin Resonance Dating, Oct. 15-17, 2018, Beijing, China
- 2019: Invited speaker for acceptance of 2019 Farouk El-Baz Desert Research Award, Geological Society of America National Meeting, Sept. 24, 2019, Phoenix, AZ.
- 2019: Advisory Panel for National Geographic Explores Program, Washington, D.C.

UNIVERSITY OF ILLINOIS AND DEPARTMENT SERVICE

- 1997-2003: Department of Earth & Environmental Science Advisory Committee
- 1997-1998: Chair, UIC Environmental Summit Steering Committee
- 1998-1999: Chair, Department Search Committee for a sedimentologist
- 1998-1999: Chair, UIC Committee for establishing Inst. of Environmental Science & Policy
- 1999-2000: Chair, Department Search Committee for a low-temperature geochemist
- 1999-2000: Member of Provost's Committee on Science and Math Teacher Education
- 1999-2004: Campus Research Board Proposal Review Panel (Nat. Sciences & Engineering)

1999-2000: Dept. of Anthropology search committee for GIS-Geographer
 1999-2010: Member of UIC Green Campus Council (promotes environmentally sustainable practices)
 2000-2003: Director of Graduate Studies, Department of Earth and Environmental Sciences
 2000-2004: Member of Full Committee of the Campus Research Board & Chair of Natural Sciences
 & Engineering Subcommittee
 2001-2002: School of Public Health, Division of Environmental & Occupational Health Sciences
 Committee for search for Division Head.
 2002-2007: Steering Committee for Institute of Environmental Science and Policy.
 2002-2003: Chair, Department Search Committee for a remote sensing geophysicist
 2003: Review committee for Department of Physics Head
 2003-2006: Alternate Director of Graduate Studies, Department of Earth and Environmental Sciences
 2004-2006: Chair, Departmental Committee on web page
 2006-2007: Director of Undergraduate Studies, Department of Earth and Environmental Sciences
 2009-2011: Executive Committee, Graduate College

BAYLOR UNIVERSITY AND DEPARTMENT SERVICE

2014: Chair departmental committee for promotion guidelines from associate to full professor
 2015 to present: Advisory Board of Institute of Archaeology, Dept. of Anthropology
 2017 to present: Departmental committee for faculty awards and recognition

PROFESSIONAL SOCIETIES

American Geophysical Union, Geological Society of America, American Quaternary Association,
 Quaternary Research Association (UK), American Meteorological Society, Society of American
 Archaeology.

COURSES TAUGHT

Graduate: Glacial Geology, Quaternary Dating Methods, Environmental Geomorphology, Global Climate
 Change, Quaternary Geologic Systems, Current Topics in the Quaternary Sciences, Paleoclimatology,
 Terrestrial Ecology and Global Change, Synoptic and Dynamic Climatology, Geoarchaeology,
 Paleoseismology and Eolian Depositional Systems, Anthropocene.
Undergraduate: Earth System Science (100 level), Honors Seminar: Climate Change, Science and Society,
 Environmental Geomorphology, Freshman Orientation Seminar.

PEER REVIEWED JOURNAL PUBLICATIONS

1. 1984: **Forman**, S. L., Miller, G. H., Time-dependent soil morphologies and pedogenic processes on
 raised beaches, Brøggerhalvøya, Spitsbergen, Svalbard Archipelago. *Arctic and Alpine Research*
 16(4), 381-394.
2. 1987: **Forman**, S. L., Mann, D., Miller, G. H., Late Weichselian and Holocene relative sea-level
 history of Brøggerhalvøya, Spitsbergen, Svalbard. *Quaternary Research* 27(1), 41-50.
3. 1987: **Forman**, S. L., Wintle, A. G., Thorleifson, H. L. P. H., Wyatt, Thermoluminescence properties
 and age estimates of Quaternary marine sediments from the Hudson Bay Lowland, Canada. *Canadian
 Journal of Earth Sciences* 24, 2405-2411.
4. 1987: Miller, G. H., Sejrup, H-P., Lehman, S. J. **Forman**, S. L., The last glacial-interglacial cycle,
 western Spitsbergen, Svalbard. *Polar Research* 5, 279-280.
5. 1987: Lehman, S. J. **Forman**, S. L., Glacier extent and sea level variation during the Late Weichselian
 on northwest Spitsbergen. *Polar Research* 5, 276-278.
6. 1988: **Forman**, S. L., The solar resetting of thermoluminescence of sediments in a glacier-dominated
 fiord environment in Spitsbergen: Geochronologic implications. *Arctic and Alpine Research* 20(2),
 243-253.
7. 1988: **Forman**, S. L., Jackson, M. E., McCalpin, J. Maat, P., The potential of using
 thermoluminescence to date buried soils in colluvial and fluvial sediments from Utah and Colorado,
 U.S.A.: Preliminary Results. *Quaternary Science Reviews* 7(3/4), 68-77.
8. 1989: **Forman**, S. L., Machette, M. N., Jackson, M. E. Maat, P., Evaluation of thermoluminescence
 dating of paleoearthquakes on the American Fork Segment, Wasatch fault zone, Utah. *Journal of
 Geophysical Research* 94(B2), 1622-1630.

9. 1989: **Forman, S. L.**, Late Weichselian glaciation and deglaciation of the Forlandsund area, western Spitsbergen, Svalbard. *Boreas* 18, 51-60.
10. 1989: **Forman, S. L.**, Application and limitation of thermoluminescence to date Quaternary sediments. *Quaternary International* 1, 47-59.
11. 1989: Miller, G. H., Sejrup, H.P., Lehman, S. J. **Forman, S. L.**, Late Quaternary glacial history and marine environmental change, western Spitsbergen, Svalbard archipelago. *Boreas* 18, 273-296.
12. 1990: **Forman, S. L.**, Thermoluminescence properties of fiord sediments from Engelsbukta, western Spitsbergen, Svalbard: A new tool for deciphering depositional environment? *Sedimentology* 37, 377-384.
13. 1990: **Forman, S. L.** Maat, P., Stratigraphic record of eolian activity on the Piedmont of northern Colorado. *Geology* 18, 745-748.
14. 1990: **Forman, S. L.**, Post-glacial relative sea-level history of northwestern Spitsbergen, Svalbard. *The Geological Society of America Bulletin* 102, 1580-1590.
15. 1991: **Forman, S. L.**, Nelson, A. R. McCalpin, J., Thermoluminescence dating of fault-scarp derived colluvium: deciphering the timing of paleoearthquakes on the Weber segment of the Wasatch fault zone, north central Utah. *Journal of Geophysical Research* 96(B1), 595-605.
16. 1991: McCalpin, J. **Forman, S. L.**, History of Quaternary faulting on the east Cache Fault zone, north-central Utah. *Bulletin of Seismological Society of America* 81(1), 139-161.
17. 1991: Ennis, G., **Forman, S. L.** Bortolot, V. J. An internal computer network for thermoluminescence dating research laboratory. *Ancient TL* 9(1), 11.
18. 1991: **Forman, S. L.**, Late Pleistocene chronology of loess deposition near Louchon, China. *Quaternary Research* 36, 19-28.
19. 1991: **Forman, S. L.** Ennis, G., The effect of light intensity and spectra on the reduction of thermoluminescence of near-shore sediments from Spitsbergen, Svalbard: Implications for dating Quaternary water-lain sequences. *Geophysical Research Letters* 18(9), 1727-1730.
20. 1992: **Forman, S. L.**, Goetz, A. F. H., Yuhas, R. H., Large stabilized dunes on the High Plains of Colorado: Understanding the landscape response to Holocene climates with the aid of images from space. *Geology* 20, 145-148.
21. 1992: **Forman, S. L.** Ennis, G. Limitations of thermoluminescence to date waterlain sediments from glaciated fiord environments on western Spitsbergen, Svalbard. *Quaternary Science Reviews* 11(1/2), 61-70.
22. 1992: Lehman, S. J. **Forman, S. L.**, Late Weichselian glacier retreat in Kongsfjorden west Spitsbergen, Svalbard. *Quaternary Research* 37, 139-154.
23. 1992: Jennings, A. E. **Forman, S. L.**, Thermoluminescence properties of a deglacial marine sequence from Cumberland Sound, Arctic Canada: Sedimentologic and geochronologic implications. *Marine Geology* 103, 111-123.
24. 1992: **Forman, S. L.**, Bettis, E. A. III, Kemmis, T. J. Miller, B. B., Chronologic evidence for multiple periods of loess deposition during the late Pleistocene in the Missouri and Mississippi Valley, United States: Implications for the activity of the Laurentide ice sheet. *Paleogeography, Paleoclimatology, Paleoecology* 93, 71-83.
25. 1992: **Forman, S. L.**, Reply to Post-glacial relative sea-level history of northwestern Spitsbergen: Alternative Interpretation. *The Geological Society of America Bulletin* 104, 1064-1066.
26. 1992: Salvigsen, O., **Forman, S. L.** Miller, G. H., The occurrence of extra-limital thermophilous molluscs on Svalbard during the Holocene and paleoclimatic implications. *Polar Research* 11, 1-10.
27. 1993: **Forman, S. L.**, Lehman, S. J. Briggs, W., Assessing the completeness of the deglacial-marine stratigraphic record on west Spitsbergen by accelerator mass spectrometry radiocarbon dating. *Boreas* 22, 1-6.
28. 1993: **Forman, S. L.**, Smith, R. P., Hacket, W., Tullis, J. McDanials, P., Age of loess deposition on the eastern Snake River Plain, Idaho: Evidence for the timing of late Quaternary glaciations in the western U.S. *Quaternary Research* 40, 30-37.
29. 1994: McCalpin, J., **Forman, S. L.** Lowe, M. V., Reevaluation of Holocene faulting at the Kaysville site, Weber segment of the Wasatch fault zone, Utah. *Tectonics* 13(1), 1-16.
30. 1994: Pierson, J., **Forman, S. L.**, Lepper, K., Conley, G., A variable narrow bandpass optically stimulated luminescence system for Quaternary geochronology. *Radiation Measurements* 23(2/3), 533-536.

31. 1994: **Forman**, S. L., Pierson, J., Smith, R.P., Hackett, W.R., Valentine, G., Assessing the accuracy of thermoluminescence to date baked sediments beneath late Quaternary lava flows, Snake River Plain, Idaho. *The Journal of Geophysical Research* 99 (B8), 15569-15576.
32. 1994: **Forman**, S. L., Lepper, K., Pierson, J., Limitations of infrared stimulated luminescence (IRSL) to date high Arctic marine sediments. *Quaternary Science Reviews* 13 (5-7), 545-550.
33. 1995: **Forman**, S. L., Lubinski, D., Miller, G. H., Matishov, G., Snyder, J., Myslivets, V. Korsun, S., Post glacial emergence and distribution of Late Weichselian ice sheet loads in the northern Barents and Kara Seas, Russia. *Geology* 23(2), 113-116.
34. 1995: **Forman**, S. L., Oglesby, R., Markgraf, V. Stafford, T., Paleoclimatic significance Late Quaternary eolian deposition on the Piedmont and High Plains, central United States. *Global and Planetary Change* 11(1-2), 35-55.
35. 1995: Korsun, S.A., Pogodina, I. A., **Forman**, S. L. Lubinski, D. J., Recent foraminifera in glaciomarine sediments from three arctic fjords for Novaja Zemlja and Svalbard. *Polar Research* 14(1), 15-31.
36. 1996: Reneau, S., Gardner, J. N., **Forman**, S. L., New evidence for the age of the youngest eruptions in the Valles Caldera, New Mexico. *Geology* 24 (1), 7-10.
37. 1996: Berkman, P. A., **Forman**, S. L., Pre-bomb radiocarbon and reservoir correction for calcareous marine species in the Southern Ocean. *Geophysical Research Letters* 23(4), 363-366.
38. 1996: Kaufman, D.S., **Forman**, S. L., Lea, P. D., Wobus, C. W., Age of pre-late Wisconsin glacial-estuarine sedimentation Bristol Bay, Alaska. *Quaternary Research* 45 (1), 59-72.
39. 1996: Snyder, J., Korsun, S. A., **Forman**, S. L., Postglacial emergence and the Tapes Transgression, in north-central Kola Peninsula, Russia. *Boreas* 25, 47-56.
40. 1996: **Forman**, S. L., Lubinski, D., Miller, G. H., Matishov, G. G., Korsun, S., Snyder, J., Herlihy, F., Weihe, R., Myslivets, V., Postglacial emergence of western Franz Josef Land, Russia and retreat of the Barents Sea ice sheet. *Quaternary Science Reviews* 15 (1), 77-90.
41. 1996: Lubinski, D. J., Korsun, S. Polyak, L. **Forman**, S. L., Lehman, S. J., Herlihy, F. A. Miller, G. H. The last deglaciation of the Franz Victoria Trough, northern Barents Sea, from piston core evidence. *Boreas* 25: 89-100.
42. 1997: Waters, M. R., **Forman**, S. L., Pierson, J., Diring Yuriak: A Lower Paleolithic site in Central Siberia. *Science* 275, 1291-1284.
43. 1997: **Forman**, S. L. Polyak, L., Radiocarbon content of pre-bomb marine mollusks and variations in the ¹⁴C reservoir ages for coastal areas of the Barents and the Kara seas, Russia. *Geophysical Research Letters* 24 (8), 885-888.
44. 1997: Rodbell, D. T., **Forman**, S. L., Pierson, J. Lynn, W. C., Loess and paleosol stratigraphy, magnetic susceptibility, and thermoluminescence age estimates of Mississippi Valley loess in western Tennessee. *The Geological Society of America Bulletin* 109(9), 1134-1148.
45. 1997: **Forman**, S. L., Weihe, R., Lubinski, D., Tarasov, G., Korsun, S., and Matishov, G., Holocene relative sea-level history of Franz Josef Land, Russia: *The Geological Society of America Bulletin* 109(9), 1116-1133.
46. 1997: Polyak, L., Forman, S. L., Herlihy, F. A., Ivanov, G., Krinitsky, P., Late Quaternary sedimentary environments and deglaciation history of the Svyataya (Saint) Anna Trough, Kara Sea, Russia. *Marine Geology* 143 (1-4), 169-188.
47. 1997: Snyder, J. A., **Forman**, S. L., Mode, W. N., Tarasov, G. A., Postglacial relative sea level history from sediment and diatom records of emerged coastal lakes, north-central Kola Peninsula, Russia. *Boreas* 26(4), 329-346.
48. 1998: McFadden, L.D., McDonald, E. V., Wells, S. G., Anderson, K., Quade, J. **Forman**, S. L., The vesicular layer and carbonate collars of desert soils and pavements: formation, age and relation to climate change. *Geomorphology* 24 (2-3), 101-145.
49. 1999: Lubinski, D. J., **Forman**, S. L., Miller, G.H., Holocene glacier and climate fluctuations on Franz Josef Land, Arctic Russia, 80° N. *Quaternary Science Reviews* 18(1), 87-108.
50. 1999: **Forman**, S. L., Infrared and red stimulated luminescence dating of late Quaternary near shore sediments from Spitsbergen, Svalbard. *Arctic, Antarctic, and Alpine Research* 31(1), 34-49.
51. 1999: Hald, M., Kolstad, V., Polyak, L., **Forman**, S. L., Herlihy, F. A., Ivanov, G., and Nescheretov, A., Late-glacial and Holocene paleoceanography and sedimentary environments in the St. Anna

- Trough, Eurasian Arctic Ocean margin. *Paleogeography, Paleoclimatology, Paleoecology* 146(1-4), 229-249.
52. 1999: Waters, M. R., **Forman**, S. L., Pierson, J., Geoarchaeological Studies at Diring Yuriak: A Lower Paleolithic site in central Siberia. *Quaternary Research* 51(2), 195-211.
 53. 1999: **Forman**, S. L., Lubinski, D. J., Zeeberg, J. J., Polyak, L., Miller, G. H., Matishov, G. G., Tarasov, G., Postglacial emergence and Late Quaternary glaciation on northern Novaya Zemlya, Arctic Russia. *Boreas* 4, 133-145.
 54. 1999: Waters, M. R., **Forman**, S. L. Pierson, J. M., A comment on "More about Diring Yuriakh: Unsolved geoarchaeological problems at a 'Lower' Paleolithic site in central Siberia." *Geoarchaeology* 14(4), 361-364.
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27. 2003: **Forman**, S. L. Luminescence dating of Quaternary sediments: New methods for dating archaeological components. *Mammoth Trumpet*, 18(3), 10-13.
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31. 2007: Olig, S., Zacharaisen, J. and **Forman**, S. L., Surficial geology and supplemental erosion assessment of the WCS waste disposal facility, Andrews County, Texas. Prepared for Waste Control Specialists LLC, Dallas, Texas, 22 pp.
32. 2007: **Forman**, S.L. and Hooyer, T. Wolf River Dune field, Shawno and Outagamie Counties. in: *Late-Glacial History of East-Central Wisconsin* (Editor, Hooyer, T.S.) Guide Book for the 53rd Midwest Friends of the Pleistocene Field Conference, Wisconsin Geological and Natural History Survey, p. 27-30.

ABSTRACTS (Over 360 to national and international meetings)**RESEARCH FUNDING HISTORY (TOTAL: \$7,458,866)**

1. Chronology of paleoearthquakes on the Wasatch fault by thermoluminescence (TL) dating. PIs: J. McCalpin and S. L. Forman, 4/1/87-3/30/88; U.S. Geological Survey, \$47,678.
2. Refinement of thermoluminescence (TL) dating for the Wasatch fault, Utah. PIs: J. McCalpin and S. L. Forman, 4/1/88-3/31/89, U.S. Geological Survey, \$49,776.
3. Characterization of sediment and sedimentary processes by thermoluminescence level in the fiord and shelf area of western Spitsbergen. PI: S. L. Forman, 11/1/87-10/30/88, Office of Naval Research, \$29,000.
4. Climatic history of west Spitsbergen, Svalbard during the last deglaciation (15-8 ka). PIs: G. H. Miller and S. L. Forman, 7/1/88-6/30/90, National Science Foundation, \$56,870.
5. Dating methods applicable to Quaternary geologic problems in the western U.S.A. PIs: S. L. Forman and G.H. Miller, 6/1/89-5/30/90, Utah Geological and Mineral Survey, \$8683.
6. Thermoluminescence chronology of loess deposition, near Lanzhou, China. PI: S. L. Forman, 6/1/90-5/30/91, National Geographic Society, \$21,800.
7. Development and application of the thermoluminescence technique to date Arctic marine sediments: A case study on western Spitsbergen, Svalbard. PI: S. L. Forman, 5/1/89-4/31/91, National Science Foundation, \$113,728.
8. Assessing the temporal and stratigraphic limitations in paleoseismic studies in normal faulted terrain. PIs: S. L. Forman and J. McCalpin, 3/1/90-2/28/91, U.S. Geological Survey, \$45,633.
9. Thermoluminescence (TL) geochronology of late Quaternary volcanic eruptive events in the Yucca Mountain region, Nevada and Cima, (CA) and Lunar Crater (NV) fields. PI: S. L. Forman, 8/2/91-9/30/93, Dept. of Energy/Los Alamos National Laboratory, \$99,330.
10. The nature of eolian activity during the Holocene on the northern High Plains, U.S.A.: Geomorphic analog for landscape response to future atmospheric warming. PIs: A. F. H. Goetz, S. L. Forman, P. W. Birkeland, 1/1/90-12/31/93, National Aeronautics and Space Administration, \$121,268.
11. Late Quaternary glaciations of Franz Josef Land, USSR: Ice extent, timing and paleoenvironmental reconstructions. PIs: S. L. Forman and G. H. Miller, 4/1/90-3/31/93, National Science Foundation, \$157,851.
12. Accelerator ^{14}C dating of specific organic chemical fractions from buried soil horizons associated with Holocene faulting events on the Weber Segment of the Wasatch fault zone, Utah. PIs: T. W. Stafford and S. L. Forman, 7/1/90-6/30/91, Utah Geological and Mineral Survey, \$9800.
13. Thermoluminescence chronology of volcanic and loess depositional events on the eastern Snake River Plain. PI: S. L. Forman, 5/31/90-9/31/93, Dept. of Energy/Idaho National Engineering Laboratory, \$51,237.
14. Determining the extent and dynamics of Late Pleistocene ice sheets in the Soviet Arctic from SAR images. PI: S. L. Forman, 4/01/91-3/31/94, National Aeronautics and Space Administration, \$58,310.
15. Assessing the paleoseismic activity of the Brigham City Segment, Wasatch fault zone Utah: Probable site of the next major earthquake on the Wasatch front? PIs: J. McCalpin and S. L. Forman, 5/1/92-4/30/93, U. S. Geological Survey, \$45,990.
16. Photoluminescence studies of modern and Pleistocene lacustrine and near-shore marine sediments from Spitsbergen: A potential new geochronometer for Arctic waterlain sediments. PI: S. L. Forman, 7/15/92-7/14/95, National Science Foundation, \$132,715.
17. Late Quaternary sediment fluxes along a fjord to shelf transect from Franz Josef Land and Novaya Zemlya to the Barents Sea, Russia. PIs: S. L. Forman and A. Leventer, 8/1/92-7/31/95, Office of Naval Research, \$65,000.
18. Late Pleistocene chronology of loess deposition in the Missouri River basin, U.S.: A proxy record for the Laurentide Ice Sheet. P.I.: S. L. Forman, 3/1/93-2/28/95, National Geographic Society, \$22,700.
19. Collaborative Research: Late Weichselian (Valdai) glaciation and deglaciation of Franz Josef Land, Russia. P.I.: S. L. Forman, 5/1/93-4/30/96, National Science Foundation, \$215,884.
20. Radionuclides in the Barents and Kara seas bottom sediments: distribution, sources, and dispersal pathways. P.I.: S. L. Forman and L. Polyak, 7/1/93-6/30/96, Office of Naval Research, \$258,248.

21. Sources and fluxes of radioactivity in the Murmansk region, Kola Peninsula, Russia. P.I.s: S. L. Forman and J. Smith, 7/1/94-6/30/97, Office of Naval Research, \$280,867.
22. Retrieval and archival of marine materials and oceanographic data from the former Soviet Union. P.I.s: S. L. Forman and K. C. Jezek, 7/1/94-6/30/97, Office of Naval Research, \$250,057.
23. An International workshop to define research priorities for Russian arctic land-shelf Interactions. P.I.s: S. L. Forman, G. L. Johnson and K. Everett, 9/1/94-8/31/95, National Science Foundation, \$36,156.
24. Assessment of radionuclide fluxes from nuclear testing and dumping sites on Novaya Zemlya, Russia P. I.s: S. L. Forman, L. Polyak, and J. Smith, 6/1/95-5/31/98, Office of Naval Research, \$298,475
25. Development of a NSF-ARCSS program for investigating Russian Arctic Land-Shelf Environmental Systems (RASE). P.I.s: S. L. Forman and G. L. Johnson, 6/1/95-5/31/97, National Science Foundation, \$88,934.
26. Collaborative Research: Paleoenvironmental Time Series from Postglacial Lake Basins on Kola Peninsula, Russia. P.I. S. L. Forman, 5/1/ 96-4/30/99, National Science Foundation, \$225,696.
27. Collaborative Research: late Quaternary glaciations of northern Novaya Zemlya, Russia. P.I.: S. L. Forman, 7/1/1996-6/30/2000, National Science Foundation, \$319,463.
28. Quaternary glaciations at the margin of the Arctic Ocean on the Seven Islands, Svalbard. P.I.: S. L. Forman, National Geographic Society, 7/1/1996-6/30/1997, \$17,150
29. Evaluation of past environmental changes from sediment cores from the Kara Sea, Russia. P. I.: S. L. Forman, Office of Naval Research (through Ohio State University), 1/30/98 to 12/31/99, \$32,982.
30. Arctic shelf and ocean paleo-circulation modeling workshop at the Naval Postgraduate School. P. I.s: S. L. Forman, J. T. Andrews, & W. Maslowski, National Science Foundation, 11/1/98-10/31/99, \$39,573.
31. Russian-American Initiative on Shelf-Land Environments in the Arctic (RAISE): Science Management Office P.I.: S. L. Forman, National Science Foundation, 4/1/99-3/30/2002, \$19,038.
32. Water and Constituent Fluxes across the Eurasian Arctic: Evolving Land-Ocean Connections over the past 20,000 years. P.I. S. L. Forman, Marine Biologic Laboratory/National Science Foundation, 4/1/99-3/30/2002, \$44,896.
33. Techniques for assessing surficial process chronology on Mars: A workshop. P.I.s P. Doran and S. L. Forman. Jet Propulsion Laboratory/NASA, 2/1/2000-1/31/2001. \$32,973.
34. Collaborative Research: Reconstructing the past 20,000 years of glacial and sea-level history for Severnaya Zemlya, Russia 80°N. P.I. S. L. Forman, National Science Foundation, 4/1/2000- 3/31/2005, \$264,952.
35. Geologic framework of Grand Strand Barrier Island Complexes: Implications for sediment volumes and rates of sediment transport National Oceanographic and Atmospheric Administration, South Carolina Sea Grant. P.I.s: E. E. Wright, M.S. Harris, S. Kruse, S. L. Forman, and N. T. Edgar. 2/28/2001- 1/31/2002, \$40,995 (S. Forman: \$10,000).
36. Collaborative Research: Weichselian Glaciation and deglaciation history northeastern Kola and Kanin Peninsula, Russia. P.I. S. L. Forman, National Science Foundation, 4/1/2001-3/31/2005; \$131,494.
37. Optically-stimulated luminescence dating of Great Lakes shorelines: High-resolution chronology for the past 4000 years. P. I. S. L. Forman, U.S. Geological Survey, 7/1/2001-6/30/2004, \$83,704.
38. Paleoclimate inferred from lake sediment cores in Taylor Valley, Antarctica. P.I.s P. T. Doran, S. L. Forman and F. Kenig, National Science Foundation, 7/1/2002-6/30/2004, \$102,005.
39. Evaluating Seasonal Changes in Net Basin Supply for Lake Michigan-Huron since 1950. P. I. S. L. Forman & B. Lofgren, NOAA-CILER, 7/1/2002-6/30/2003, \$24,935.
40. Optically stimulated luminescence dating of late Quaternary deltaic and eolian deposits in the Ganges Basin to constrain hydrogeochemical models of arsenic poisoning in Bangladesh and Nepal; and to assist in the modeling of aquifer development in the Bengal. P. I. S. L. Forman, U. S. Geological Survey, 8/30/2003- 9/30/2006, \$59,085.
41. Temporal and Spatial patterns of dune activity in the past 2000 years on the Great Plains of eastern Colorado. P. I.: S. L. Forman, National Geographic Society, 4/1/2004-3/31/2005, \$14,500.
42. Optically-stimulated luminescence (OSL) dating of the formation of dune systems at the Great Sand Dunes National Monument and Preserve, Colorado. National Park Service, P. I. S. L. Forman, Dept. of Interior, 4/1/2004-3/31/2005, \$10,000.

43. Collaborative Study: Pilot study for using aster images to map glacial geomorphology on Greenland. NASA, P.I. S. L. Forman, 5/1/2004-4/30/2005, \$16,755.
44. 20th and 21st century's dune migration at the Great Sand Dunes National Park and Preserve, Colorado and relation to drought variability. National Park Service, Dept. of Interior, P. I. S. L. Forman, 5/1/2005-4/30/2007, \$19,000.
45. Landscape controls on wetland and dune development, Cape Cod, National Seashore. National Park Service, Dept. of Interior, P.I. S. L. Forman, 6/1/2005-5/31/2007, \$43,500.
46. IGERT: Ecology, Management and Restoration of Integrated Human/Natural Landscapes. National Science Foundation. Co-P.I. S. L. Forman, 7/01/2006-6/30/2011, \$2,810,585.
47. Collaborative Research: Arctic Paleoclimate of the last 3.6 My: Scientific Drilling at Lake El'gygytgyn. National Science Foundation, Co-P.I. S. L. Forman, 9/1/2006-8/30/2011, \$53,160.
48. Reactivation of stabilized dune field of western Argentina: Landscape response to megadroughts in the past 5000 years. National Geographic Society, P. I. S. L. Forman, 3/1/2009-2/27/2011, \$16,010.
49. Collaborative Research: Establishing the temporal and spatial characteristics of late and post glacial landscapes in the upper Midwest. National Science Foundation, Co-P.I. S. L. Forman, 7/1/2009-6/30/2013, \$73,611.
50. Tempo of seismic hazards for the Kango Fault, South Africa, 9/1/2011-1/1/2014, Council of Geoscience, Government of South Africa, \$46,052.
51. Land surface processes and dust sources for cultivated and uncultivated surfaces during the 1930s Dust Bowl Drought, USA. P.I. S.L. Forman, 5/1/2017-4/31/2018. National Geographic Society, \$16,600.
52. Land surface processes, dust sources and particulate fluxes for the 1930s Dust Bowl Drought area, Great Plains. P.I. S.L. Forman 6/1/2017-12/31/2020. National Science Foundation, \$222,125.
53. Evaluating proppant sand resources Delaware and Midland basins, west Texas, USA. P.I. S. L. Forman 10/31/2017-9/1/2018. Atlas Sand/Brigham Minerals, \$110,000.
54. Three-dimensional modeling of the stratigraphic relationships and subsurface architecture of the Monahans and Kermit eolian fields, Ward and Winkler counties, Texas. P.I. S. L. Forman, 8/1/2018-7/31/2019. Atlas Sand/Brigham Minerals, \$63,750.
55. Pilot Project: The use of microgravity anomalies to assess subsurface architecture in the Monahans Dune Field, Winkler County, Texas. P.I.s S. L. Forman and P. James. 5/1/2019-4/30/2020. Atlas Sand/Brigham Minerals \$20,350.
56. New insights on subsurface architecture of the Atlas Monahans Dune Field, Texas by active and passive source seismology and microgravity surveys. P.I.s S. L. Forman, J. Pulliam and P. James. 5/1/2020-4/30/2022. Atlas Sand/Brigham Minerals \$96,724 (Pending).