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Citations: 3,302 | h-index: 25 | i10-index: 33 | peer-reviewed: 47

EDUCATION

1991–1994	D.Phil., St. John's College and School of Geography, University of Oxford, England
1989–1990	M.Sc., Department of Geography, University of Toronto, Canada
1988	B.A. (Hons), University of the Witwatersrand, Johannesburg, South Africa Physical Geography, awarded 1st Class with Gold Medal
1985–1987	B.A., University of the Witwatersrand, Johannesburg, South Africa Double major in Geography and History of Art, awarded 1st Class

PROFESSIONAL EXPERIENCE

Academic Appointments

1998–present	Assistant Professor → Associate Professor (2000) → Professor (2006) Texas Christian University, Fort Worth, Texas
1994–1997	Assistant Professor East Carolina University, Greenville, North Carolina
1992–1994	College Lecturer Hertford and Keble Colleges, University of Oxford, UK

Leadership Positions

2026–present	Chair, Data Center & Infrastructure Commission City of Fort Worth
2024–2026	Director of Research, Ralph Lowe Energy Institute (one year appointment) Texas Christian University
2024–2025	Interim Executive Director, Ralph Lowe Energy Institute Texas Christian University
2003–present	Director, Institute for Environmental Studies Texas Christian University
2018–2024	Chair, Department of Environmental & Sustainability Sciences Texas Christian University
2003–2013	Director, MA/MS Program in Environmental Science Texas Christian University
2007–2010	Chair, Department of Environmental Science Texas Christian University

Other Experience

1995–1997	Broadcast Meteorologist (part-time) WNCT-TV9 (CBS Affiliate), Greenville, North Carolina
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Courses Taught

Introductory: Introduction to Physical Geography; Hydrometeorology; Introduction to Statistics; The Physical Environment; Contemporary Environmental Issues

Upper-level & Graduate: Weather and Climate; Landform Analysis; Physical Geography Seminar; Geomorphology; Rivers in the Landscape; Physical Hydrology; Soils; Environmental Stewardship; Environmental Issues; Scientific Presentations; Counting on Sustainability; Renewable Energy

HONOURS, AWARDS, AND SCHOLARSHIPS

2019	Chancellor's Award for Distinguished Achievement as a Creative Teacher and Scholar, TCU
2018	Texas Sierra Club Special Service Award
2017	College of Science and Engineering Award for Distinguished Achievement as a Creative Teacher and Scholar and Finalist for the Chancellor's Award, TCU
2017	Association of International Educators (NAFSA) Senator Paul Simon Spotlight Award for the TCU Rhino Initiative, Washington, DC
2016	Earth Day Texas Technology Prize (with Downwinders at Risk)
2007	College of Science and Engineering Dean's Research Award, TCU
1997	College of Arts and Sciences Dean's Research Award, East Carolina University
1991	Overseas Research Scholarship, University of Oxford
1989	Connaught Scholar, University of Toronto
1988	Council for Scientific and Industrial Research Scholarship, South Africa
1988	Frank Bicheno Trust Scholarship for Academic Excellence, University of the Witwatersrand
1988	Stanley Jackson Gold Medal for highest marks during B.A. (Hons) Degree, University of the Witwatersrand

PUBLICATIONS

Books, Monographs, Reports, Guest Editorships, Letters, Opinions

- Slattery, M.C. 2026. "AI is eating the grid. Texas has five years to feed it." *Odessa American*.
<https://www.oaoa.com/opinion/guest-views/guest-view-ai-is-eating-the-grid-texas-has-five-years-to-feed-it/>
- Slattery, M.C. 2026. "Winds of change in Texas energy sector serve as playbook for rest of nation." *Renewable Energy World*.
<https://www.renewableenergyworld.com/wind-power/winds-of-change-in-texas-energy-sector-serve-as-playbook-for-rest-of-nation/>
- Slattery, M.C. 2026. "TCU researcher: Energy security, energy diversity are inseparable." *Fort Worth Star-Telegram and the Midland Reporter*. <https://www.star-telegram.com/entertainment/living/article315304726.html>
- Slattery, M.C. 2025. "Kerrville floods were a perfect storm of contributing factors | Opinion." *Dallas Morning News*.
<https://www.dallasnews.com/opinion/2025/07/10/kerrville-floods-were-a-perfect-storm-of-contributing-factors/>
- Slattery, M.C. and Morris, N. 2025. "Texas can still lead in energy production and alternative sources | Opinion." *Dallas Morning News*. <https://www.dallasnews.com/opinion/commentary/2025/01/30/texas-can-still-lead-in-energy-production-and-alternative-sources/>
- Slattery, M.C. 2024. *Contemporary Environmental Issues*, 8th Edition. Kendall-Hunt, Dubuque, Iowa.
- Slattery, M.C. and Bluntzer, A. 2023. "Climate pledge to move away from fossil fuels is huge. There's just one problem | Opinion." *Fort Worth Star-Telegram*. <https://www.star-telegram.com/opinion/opn-columns-blogs/other-voices/article283430143.html>
- Slattery, M.C. 2022. "Africa never leaves you." in *Doing Life with Mandela: My Prisoner, My Friends*, Christo Brand.
- Slattery, M.C. and Bluntzer, A. 2022. "Want to slow climate change and help poor nations? This energy option is a must | Opinion." *Fort Worth Star-Telegram*. <https://www.star-telegram.com/opinion/opn-columns-blogs/other-voices/article270242927.html>
- Slattery, M.C. 2022. *Contemporary Environmental Issues*, Seventh Edition. Kendall-Hunt, Dubuque, Iowa.
- McGee, J., Debone, K., Emma, M. and Slattery, M.C. 2022. *Exercises in Environmental Science*. Kendall-Hunt, 105 pp.

- Slattery, M.C. 2021. "COP26: Historic achievement or historic failure?" Neeley Business School.
- Slattery, M.C. 2020. Contemporary Environmental Issues, Sixth Edition. Kendall-Hunt, Dubuque, Iowa, 330 pp.
- Slattery, M.C., Argenbright, K., Debone, K. and Donahoo, M. 2020. Exercises in Environmental Science. Kendall-Hunt, 105 pp.
- Brannstrom, C. et al. 2019. "Why ignore a major challenge of wind energy science?" Science eLetter. <https://science.sciencemag.org/content/366/6464/eaau2027/tab-e-letters>
- Slattery, M.C. 2019. Contemporary Environmental Issues, Fifth Edition. Kendall-Hunt, Dubuque, Iowa, 292 pp.
- Slattery, M.C. and Argenbright, K. 2019. Exercises in Environmental Science. Kendall-Hunt, 91 pp.
- Slattery, M.C. 2015. "The case for wind: Lessons learned from research in the United States." ESI Africa OpEd. <http://www.esi-africa.com/industry-insight-wind-power-lessons-learned-from-research-in-the-united-states/>
- Slattery, M.C. 2014. Contemporary Environmental Issues, Fourth Edition. Kendall-Hunt, Dubuque, Iowa, 300 pp.
- Beyer, A. et al. 2014. Exercises in Environmental Science. Kendall-Hunt, 91 pp.
- Slattery, M.C. 2014. "The 'last dinosaur' needs help." Fort Worth Star-Telegram Op-ed.
- Slattery, M.C. 2012. Contemporary Environmental Issues, Third Edition. Kendall-Hunt, Dubuque, Iowa, 289 pp.
- Sunico, S. and Slattery, M.C. 2012. Exercises in Environmental Science. Kendall-Hunt, 79 pp.
- Slattery, M.C. 2011. (Editor). Journal of Environmental Management, Special Issue in honour of Rorke B. Bryan, Guest Editorial, 92, 257. <https://www.sciencedirect.com/science/article/pii/S0301479709003703>
- Slattery, M.C. 2010. Contemporary Environmental Issues, Second Edition. Kendall-Hunt, Dubuque, Iowa, 253 pp.
- Slattery, M.C. et al. 2009. "The socio-economic impact of wind farms in Nolan and Taylor Counties, Texas." Report to Nextera Energy Resources, 65 pp.
- Slattery, M.C. et al. 2009. Exercises in Environmental Science. Kendall-Hunt, 84 pp.
- Slattery, M.C., Richards, B.J. et al. 2009. "Job and Economic Development Impact Model (JEDI) Validation, Capricorn Ridge and Horse Hollow, Texas." Report to Nextera Energy Resources, 30 pp.
- Slattery, M.C. 2008. "Impacts of wind energy development on birds: Assessment of research from Europe." Report to FPL Energy, 16 pp.
- Slattery, M.C. et al. 2008. "The socio-economic impact of wind farms in Sterling and Coke Counties, Texas." Report to FPL Energy, 69 pp.
- Slattery, M.C. 2008. Contemporary Environmental Issues. Kendall-Hunt, Dubuque, Iowa, 220 pp.
- Slattery, M.C. and Drenner, R. 2007. "Mercury in Texas: Assessing the Potential Impact of Coal-Fired Power Plants." Consultancy report, 112 pp.
- Slattery, M.C. 2007. "Atmospheric deposition and water quality." Written testimony before the House Committee on Transportation and Infrastructure, U.S. Congress Hearing on Nonpoint Source Pollution, Washington DC. <https://www.govinfo.gov/content/pkg/CHRG-110hhrg34796/html/CHRG-110hhrg34796.htm>
- Slattery, M.C. et al. 2006. Exercises in Environmental Science. Kendall-Hunt, 84 pp.

Refereed Publications (under review, in print, or in press)

- Kharel, G., Nice, Md Simoon, Asare, P.T., Slattery, M.C. and Harvey, O. "Exact-Time Streamflow Reveals Hidden PFAS Load Growth and an AFFF-Consistent Fingerprint." Under review, Water Research.
- Dixon, C., Slattery, M.C., Pavlowsky, R. and Barrett, S. "Transport and Storage of Metal-Contaminated Sediments from Historical Zn-Pb Mining in Elm Creek, Picher, Oklahoma." In press, Mine Water and the Environment.
- Slattery, M.C. 2023. "The role of geomorphology in environmental litigation: Insights from an East Texas case." Geomorphology, 443. doi.org/10.1016/j.geomorph.2023.108948
- Jones, S.J., Slattery, M.C. and Ritter, E.C. 2020. "Near-surface soil moisture dynamics in a prairie hillslope seep/headwater stream system in Texas." Physical Geography. DOI: [10.1080/02723646.2020.1838120](https://doi.org/10.1080/02723646.2020.1838120)
- Slattery, M.C. 2020. "Sediment, wind turbines, and rhinos: Ah, the life of a geographer!" in Burt, T.P. and Thompson, D. (eds), Curious about Nature: A Passion for Fieldwork. Cambridge University Press, Chapter 42, 313–316.
- Slattery, M.C. 2019. "The environmental impact of unconventional fuels: the trade-offs." In The Global Impact of Unconventional Fuels. Palgrave MacMillan, 245–257.
- Llado, L. and Slattery, M.C. 2015. "Fine scale temporal variations of surface moisture in topographically-controlled Muhly seeps." Ecohydrology. DOI: [10.1002/eco.1632](https://doi.org/10.1002/eco.1632)
- Slattery, M.C. 2015. "Afterward." In Educating Teachers for Sustainability. Springer Verlag, 459–468.

- Slattery, M.C. 2015. "Barbara A. Kennedy (1972): 'Bankfull' discharge and meander forms." *Progress in Physical Geography*, 39(2), 275–278. DOI: [10.1177/0309133314561649](https://doi.org/10.1177/0309133314561649)
- Lisenby, P.E., Slattery, M.C. and Wasklewicz, T.A. 2014. "Morphological organization of a steep, tropical headwater stream." *Geomorphology*. DOI: [10.1016/j.geomorph.2014.02.009](https://doi.org/10.1016/j.geomorph.2014.02.009)
- Slattery, M.C., Johnson, B.L., Swofford, J. and Pasqualetti, M.J. 2012. "The predominance of economic development in the support for large-scale wind farms in the US Great Plains." *Renewable and Sustainable Energy Reviews*, 16, 3690–3701. DOI: [10.1016/j.rser.2012.03.016](https://doi.org/10.1016/j.rser.2012.03.016)
- Walling, D.E. et al. 2012. "Sediment Fingerprinting: Transforming from a research tool to a management tool." *Journal of the American Water Resources Association*. DOI: [10.1111/j.1752-1688.2012.00685.x](https://doi.org/10.1111/j.1752-1688.2012.00685.x)
- Slattery, M.C., Lantz, E. and Johnson, B. 2011. "State and local economic impacts from wind energy projects: Texas case study." *Energy Policy*, 39, 7930–7940. DOI: [10.1016/j.enpol.2011.09.047](https://doi.org/10.1016/j.enpol.2011.09.047)
- Slattery, M.C. and Phillips, J.D. 2011. "Controls on sediment delivery in coastal plain rivers." *Journal of Environmental Management*, 92, 284–289. <https://www.sciencedirect.com/science/article/pii/S030147970900348X?via%3Dihub>
- Slattery, M.C., Todd, L., Phillips, J.D. and Breyer, J.B. 2010. "Holocene sediment accretion in the Trinity River Delta, Texas." *Journal of Soils and Sediments*, 10, 640–651. DOI: [10.1007/s11368-010-0232-4](https://doi.org/10.1007/s11368-010-0232-4)
- Swofford, J. and Slattery, M.C. 2010. "Public attitudes of wind energy in Texas." *Energy Policy*, 38, 2508–2519. <https://www.sciencedirect.com/science/article/pii/S0301421509010027>
- Tegen, I., Wilkinson, M.J. and Slattery, M.C. 2009. "Interactions between soil dust aerosols and climate." In *Climate Change and Soil Erosion*. Imperial College Press.
- Phillips, J.D. and Slattery, M.C. 2007. "Downstream trends in discharge, slope, and stream power in a lower coastal plain river." *Journal of Hydrology*, 334, 290–303. [10.1016/j.jhydrol.2006.10.018](https://doi.org/10.1016/j.jhydrol.2006.10.018)
- Phillips, J.D. and Slattery, M.C. 2007. "Antecedent Alluvial Morphology and Sea Level Controls on Form-Process Transitions Zones in the Lower Trinity River, Texas." *River Research and Applications*, 23, 1–7. DOI: [10.1002/rra.1060](https://doi.org/10.1002/rra.1060)
- Slattery, M.C., Gares, P. and Phillips, J.D. 2006. "Multiple modes of storm runoff generation in a North Carolina coastal plain watershed." *Hydrological Processes*, 20, 2953–2969. DOI: [10.1002/hyp.6144](https://doi.org/10.1002/hyp.6144)
- Gares, P., Slattery, M.C., Phillips, J.D. and Pease, P. 2006. "Eolian sediment transport on North Carolina coastal plain agricultural fields." *Soil Science*, 171(10), 784–799. [10.1097/01.ss.0000230126.78771.7a](https://doi.org/10.1097/01.ss.0000230126.78771.7a)
- Burt, T.P. and Slattery, M.C. 2006. "Land use and land cover effects on runoff processes." In *Encyclopaedia of Hydrology*. Wiley, 1805–1812. <https://durham-repository.worktribe.com/output/1689857>
- Phillips, J.D. and Slattery, M.C. 2006. "Sediment storage, sea level, and sediment delivery to the ocean by coastal plain rivers." *Progress in Physical Geography*, 30(4), 1–18. <https://journals.sagepub.com/doi/10.1191/0309133306pp494ra>
- Phillips, J.D., Slattery, M.C. and Musselman, Z. 2005. "Channel adjustments of the lower Trinity River, Texas." *Earth Processes and Landforms*, 30, 1419–1439. <https://onlinelibrary.wiley.com/doi/10.1002/esp.1203>
- Wellmeyer, J.L., Slattery, M.C. and Phillips, J.D. 2005. "Quantifying downstream impacts of impoundment on flow regime and channel planform, lower Trinity River." *Geomorphology*, 69, 1–13. [10.1016/j.geomorph.2004.09.034](https://doi.org/10.1016/j.geomorph.2004.09.034)
- Phillips, J.D., Slattery, M.C. and Musselman, Z. 2004. "Dam-to-delta sediment inputs and storage in the lower Trinity River, Texas." *Geomorphology*, 62, 17–34. [10.1016/j.geomorph.2004.02.004](https://doi.org/10.1016/j.geomorph.2004.02.004)
- Slattery, M.C., Gares, P.A. and Phillips, J.D. 2002. "Slope-channel linkage and sediment delivery on North Carolina coastal plain cropland." *Earth Surface Processes and Landforms*, 27, 1377–1387. <https://onlinelibrary.wiley.com/doi/10.1002/esp.436>
- Slattery, M.C. 2002. "Coming to America: Graduate study in geography in the United States." In *The Student's Companion to Geography*. Blackwell, 380–384.
- Slattery, M.C., Gares, P.A. and Phillips, J.D. 2001. "Linking the field to the river." In *Soil Erosion for the 21st Century*. ASAE, 641–644. [doi:10.13031/2013.4859](https://doi.org/10.13031/2013.4859)
- Slattery, M.C., Walden, J. and Burt, T.P. 2000. "Fingerprinting suspended sediment sources using mineral magnetic measurements." In *Tracers in Geomorphology*. Wiley, 309–322.
- Cappiella, K. and Slattery, M.C. 1999. "Spatial and temporal patterns of sediment and nutrient flux in a coastal plain agricultural basin." *North Carolina Geographer*, 7, 39–46.
- Phillips, J.D., Gares, P.A. and Slattery, M.C. 1999. "Agricultural soil redistribution and landscape complexity." *Landscape Ecology*, 14, 197–211. DOI: [10.1023/A:1008024213440](https://doi.org/10.1023/A:1008024213440)
- Phillips, J.D., Slattery, M.C. and Gares, P.A. 1999. "Truncation and accretion of soil profiles on coastal plain croplands." *Geomorphology*, 28, 119–140. [10.1016/S0169-555X\(98\)00105-6](https://doi.org/10.1016/S0169-555X(98)00105-6)

- Slattery, M.C., Gares, P.A. and Phillips, J.D. 1998. "Quantifying soil erosion and sediment delivery on North Carolina Coastal Plain croplands." *Conservation Voices*, 1(2), 20–25. [doi:10.13031/2013.4859](https://doi.org/10.13031/2013.4859)
- Walden, J., Slattery, M.C. and Burt, T.P. 1997. "Use of mineral magnetic measurements to fingerprint suspended sediment sources." *Journal of Hydrology*, 202, 353–372. [10.1016/S0022-1694\(97\)00078-4](https://doi.org/10.1016/S0022-1694(97)00078-4)
- Slattery, M.C., Burt, T.P. and Gares, P.A. 1997. "Dramatic erosion of a tobacco field at Vanceboro, North Carolina." *Southeastern Geographer*, 37, 85–90. <https://muse.jhu.edu/article/426469/pdf>
- Slattery, M.C. and Burt, T.P. 1997. "Particle size characteristics of suspended sediment in hillslope runoff and stream flow." *Earth Surface Processes and Landforms*, 22, 705–719. [doi:10.1002/](https://doi.org/10.1002/)
- Slattery, M.C. and Burt, T.P. 1996. "On the complexity of sediment delivery in fluvial systems." In *Advances in Hillslope Processes*. Wiley, 635–656.
- Burt, T.P. and Slattery, M.C. 1996. "Time-dependent changes in soil physical properties and surface runoff generation." In *Advances in Hillslope Processes*. Wiley, 79–96.
- Slattery, M.C. and Burt, T.P. 1995. "Size characteristics of sediment eroded from agricultural soil." In *River Geomorphology*. Wiley, 1–17.
- Boardman, J. et al. 1995. "Soil erosion and flooding as a result of a summer thunderstorm in Oxfordshire and Berkshire, May 1993." *Applied Geography*, 16, 21–34. [10.1016/0143-6228\(95\)00023-2](https://doi.org/10.1016/0143-6228(95)00023-2)
- Slattery, M.C., Burt, T.P. and Walden, J. 1995. "The application of mineral magnetic measurements to quantify within-storm variations in suspended sediment source." *IAHS Publ. no. 229*, 143–151.
- Slattery, M.C., Burt, T.P. and Boardman, J. 1994. "Rill erosion along the thalweg of a hillslope hollow." *Earth Surface Processes and Landforms*, 19, 377–385. [doi:10.1002/esp.3290190408](https://doi.org/10.1002/esp.3290190408)
- Slattery, M.C. and Bryan, R.B. 1994. "Surface seal development under simulated rainfall." *Catena*, 22, 17–34. [10.1016/0341-8162\(94\)90063-9](https://doi.org/10.1016/0341-8162(94)90063-9)
- Walden, J. and Slattery, M.C. 1993. "Verification of a simple gravity technique for separation of particle size fractions." *Earth Surface Processes and Landforms Technical Bulletin*, 18, 829–833. [doi:10.1002/esp.3290180907](https://doi.org/10.1002/esp.3290180907)
- Slattery, M.C. and Bryan, R.B. 1992. "Laboratory experiments on surface seal development and its effect on interrill erosion processes." *Journal of Soil Science*, 43, 517–529. [doi:10.1111/j.1365-2389.1992.tb00157.x](https://doi.org/10.1111/j.1365-2389.1992.tb00157.x)
- Slattery, M.C. and Bryan, R.B. 1992. "Hydraulic conditions for rill incision under simulated rainfall." *Earth Surface Processes and Landforms*, 17, 127–146. [doi:10.1002/esp.3290170203](https://doi.org/10.1002/esp.3290170203)
- Slattery, M.C. 1990. "Barchan migration on the Kuiseb River delta, Namibia." *South African Geographical Journal*, 72, 5–10. [doi:10.1080/03736245.1990.9713540](https://doi.org/10.1080/03736245.1990.9713540)

Non-Refereed Publications

- Slattery, M.C. 2008. "Landforms." *Visual Atlas of the World*, National Geographic.
- Slattery, M.C. 2005. "Did global warming cause this year's storms?" *The TCU Magazine*, Winter 2005, 43.
- Slattery, M.C. (Ed.). 2005. "Geomorphology: A Collection of Images (2nd Ed.)." *Geomorphology Specialty Group, Association of American Geographers*.
- Slattery, M.C. 2005. "Quickflow." *Encyclopaedia of Geomorphology*, Routledge.
- Slattery, M.C. 2005. "Runoff generation." *Encyclopaedia of Geomorphology*, Routledge.
- Slattery, M.C. (Ed.). 2003. "Geomorphology: A Collection of Images." *Geomorphology Specialty Group, Association of American Geographers*.
- Slattery, M.C. 2002. "World Landforms." *National Geographic Family Reference Atlas of the World*, 24–27.
- Lazar, A. and Slattery, M.C. 2002. "Monitoring pollution fluxes during storm events in a Fort Worth Watershed." *New Waves*, 14(1), 4.
- Wilkinson, M.J., Lulla, K. and Slattery, M.C. 2001. "Lesotho." *Geography Review*, 14(4), 38–39.
- Wilkinson, M.J., Slattery, M.C. and Lulla, K. 2001. "The Costa Rican climate and the Talamanca Massif." *Geography Review*, 14(3), 24–26.
- Slattery, M.C. 2001. "Hawaii: Part II Island diversity." *Geography Review*, 14(3), 20–23.
- Carlson, S.B. et al. 2000. "After the landslide: Cuenca, Ecuador." *Geography Review*, 14(2), 23–25.
- Slattery, M.C. 2000. "Hawaii: Part I Volcanism." *Geography Review*, 14(2), 10–13.
- Trenchard, M., Lulla, K. and Slattery, M.C. 2000. "Air mass modification." *Geography Review*, 14(1), 34–35.

Willis, K., Lulla, K. and Slattery, M.C. 2000. "Tibetsi Massif and Aorounga Crater, Chad." *Geography Review*, 13(4), 7.

Wilkinson, M.J., Lulla, K. and Slattery, M.C. 1999. "Deforestation in southern Brazil." *Geography Review*, 13(2), 24–25.

Caruana, J., Lulla, K. and Slattery, M.C. 1999. "South Georgia." *Geography Review*, 13(1), 10.

Wilkinson, J., Lulla, K. and Slattery, M.C. 1999. "Parapeti River fan, southern Bolivia." *Geography Review*, 12(5), 26–27.

Evans, C. et al. 1999. "El Nino: Images of floods and drought, Parts 1 & 2." *Geography Review*, 12(3–4).

White, L.G. et al. 1999. "Rural ghettos in South Africa." *Geography Review*, 12(2), 24–26.

Wilkinson, J., Lulla, K. and Slattery, M.C. 1998. "Photochemical smog." *Geography Review*, 11(5), 34–35.

Wilkinson, J. and Slattery, M.C. 1998. "Smog event, eastern USA." *Geography Review*, 11(4), 40–41.

Wilkinson, J. and Slattery, M.C. 1998. "The tropical Atlantic ozone anomaly." *Geography Review*, 11(3), 33–35.

Wilkinson, J. and Slattery, M.C. 1997. "Global sources of dust." *Geography Review*, 11(2), 20–21.

Wilkinson, J. and Slattery, M.C. 1997. "Our changing atmosphere." *Geography Review*, 11(1), 20–21.

Slattery, M.C. Book review: "Variability in Stream Erosion and Sediment Transport." *Progress in Physical Geography*.

Wilkinson, J. and Slattery, M.C. 1997. "Betsiboka River delta." *Geography Review*, 10(4), 41.

Slattery, M.C. and Burt, T.P. 1997. "The 1995 Atlantic hurricane season." *Geography Review*, 10(3), 12–17.

Wilkinson, J. and Slattery, M.C. 1996. "Amazon-Negro Confluence, Amazonia, Brazil." *Geography Review*, 9(5), 40.

Wilkinson, J. and Slattery, M.C. 1996. "Land-use contrasts across the Angola-Namibia border." *Geography Review*, 9(4), 13.

Wilkinson, J. and Slattery, M.C. 1996. "The Eastern Mediterranean." *Geography Review*, 9(3), 37.

Wilkinson, J., Lulla, K. and Slattery, M.C. 1995. "Better pictures of Earth." *Geography Review*, 9(2), 1.

Slattery, M.C. 1994. Book reviews in *Progress in Physical Geography*, 19, 152–153.

Slattery, M.C. 1993. Book review: "Overland Flow." *European Society for Soil Conservation Newsletter*, 2, 22–25.

RESEARCH GRANTS FUNDED (TOTAL: \$5,939,640)

2026	"Strategic Research Partnership Proposal: Addressing Next-Generation Wind Energy Challenges." Nextera Energy Resources (under review), \$6,015,000.
2025	"The Pacific Island Energy Initiative." National Institute for Standards and Technology (awarded through appropriations but cancelled due to government shutdown in 2024), \$10,000,000, in collaboration with the US Department of Defense.
2016	"TCU Visiting Scholars Award" (with Kathy Cavins-Tull), \$7,500. TCU Instructional/equipment grant for Costa Rica weather station (with Dean Williams), \$12,943.
2014	"TCU Global Innovator Award", \$25,000.
2013–2015	"Integrating wind energy into our ecological communities: Phase II." Nextera Energy Resources, \$1,321,032 (co-PI with Amanda Hale, Victoria Bennett and Becky Johnson).
2011–2012	"Test of a Novel Hypothesis: Why are bats attracted to wind turbines?" Nextera Energy Resources, \$39,075.
2011–2012	"Relationship between Black-capped Vireo nesting success and distance to wind turbine." Nextera Energy Resources, \$80,000.
2011–2013	"Curtailement experiments to reduce bat mortality at Wolf Ridge Wind Facility in North-Central Texas." Nextera Energy Resources, \$197,000.
2008–2012	"Integrating wind energy into our ecological communities." Nextera Energy Resources, \$3.192 million. Lead Scientist.
2007–2009	"Collaborative conservation initiatives in Costa Rica: Expanding TCU's global community." TCU Strategic Initiative Fund, \$129,980.
2006–2008	"Strengthening the relationship between TCU graduate programs and BRIT." TCU Strategic Initiative Fund, \$176,000.
2006–2008	"The TCU-Oxford sustainable futures initiative." TCU Strategic Initiative Fund, \$139,095.
2006–2007	"Geomorphic processes, controls, and transition zones in the lower Sabine River." Texas Water Development Board, \$65,000 (co-PI with Jonathan Phillips).

- 2006–2007 "Sediment budgeting in the middle Trinity and middle Brazos Rivers, Texas." Texas Water Development Board, \$62,305 (co-PI with Jonathan Phillips).
- 2002–2006 "Sediment transport in the Trinity River." Texas Water Development Board, \$350,000 (co-PI with Jonathan Phillips).
- 2001 "Bridging the gap between modelling and fieldwork in hydrology." TCU Instructional Development Grant, \$2,414.
- 1999 "Use of mineral magnetic measurements to fingerprint suspended sediment sources." TCU Research and Creative Activities Grant, \$1,650.
- 1999 "Portable drilling rig for environmental monitoring wells." TCU Instructional Development Grant, \$2,239.
- 1997 "Coastal plains environments workshop." Eisenhower Foundation, \$29,999.
- 1996–1999 "Quantifying soil erosion and sediment delivery on North Carolina coastal plain croplands." USDA, \$146,765 (co-PI with Jonathan Phillips and Paul Gares).
- 1996 "Mechanisms of rill formation on some North Carolina soils." East Carolina University Summer Research Grant, \$7,500.

PROFESSIONAL ACTIVITIES

Selected Conference Presentations

- Slattery, M.C., Dixon, C., Pavlowsky, R. and Barrett, S. "Transport and Storage of Metal-Contaminated Sediments from Historical Zn-Pb Mining in Elm Creek, Picher, Oklahoma." 11th International Association of Geomorphology Conference, Christchurch, New Zealand, 2026.
- Slattery, M.C. "Geomorphology and the law." American Association of Geographers Annual Meeting, Detroit, 2025.
- Slattery, M.C. "Empowering clean energy in the Global South." Panel Moderator, World Future Energy Summit, Abu Dhabi, 2025.
- Slattery, M.C. "Environmental Issues and challenges in Sub-Saharan Africa: Can we save Africa's rhinos?" 34th International Geographical Congress, Dublin, 2024.
- Slattery, M.C. "Science communication and the law: Lessons learned from being an expert witness." European Geosciences Union, Vienna (highlighted paper), 2024.
- Slattery, M.C. "Geomorphology and the law." British Society for Geomorphology, Edinburgh, Scotland, 2023.
- Slattery, M.C., Blair-Kucera, S. and McKone, P. "Hydrologic connectivity in a prairie hillslope seep system, Texas." International Association of Geomorphology, Coimbra, Portugal, 2022.
- Slattery, M.C. and Fowlds, W. "A species on the brink: The rhino crisis in South Africa." American Association of Geographers, Washington DC, 2019.
- Slattery, M.C. "The African Rhino Conservation Collaboration (ARCC): An update from the field." American Association of Geographers Annual Meeting, New Orleans, 2018.
- Slattery, M.C. "Can we save Africa's rhinos?" Wildhand Conference, Hanoi, 2018.
- Slattery, M.C. and Anderson, E. "Quantifying changes in near-surface soil moisture and temperature during prescribed fire." 9th International Conference on Geomorphology, New Delhi, 2017.
- Slattery, M.C. "Utility-scale wind energy projects: Managing public perception and environmental risk." World Future Energy Summit, Abu Dhabi, 2017.
- Slattery, M.C. and Fowlds, W. "The African Rhino Conservation Collaboration (ARCC)." 15th International Elephant & Rhino Conservation and Research Symposium, Singapore Zoo, 2016.
- Slattery, M.C. et al. "Utility-scale wind energy projects: Managing public perception and environmental risk." 35th International Geological Congress, Cape Town, 2016.
- Slattery, M.C. "Social, environmental and economic impacts of large scale wind power." WINDABA, Cape Town, 2014.
- Slattery, M.C. et al. "The socio-economic impacts of utility scale wind energy projects in Oklahoma." Association of American Geographers, Tampa, 2014.
- Slattery, M.C. "Key issues facing the development of large-scale wind." Conference on Wind Power and Environmental Impacts, University of Stockholm, 2013.
- Slattery, M.C. (Invited) "Sediment storage, sea level, and sediment delivery to the ocean by coastal plain rivers." American Geophysical Union, San Francisco, 2012.

- Slattery, M.C. et al. "Key issues facing the development of large-scale wind." 34th International Geological Congress, Brisbane, 2012.
- Slattery, M.C., Lantz, E. and Johnson, B. "State and local economic impacts from wind energy projects: Texas case study." American Wind Energy Association Windpower Expo, Atlanta, 2012.
- Slattery, M.C. "Mercury deposition and watershed contamination in Texas, Louisiana, Arkansas and Oklahoma." Association of American Geographers, Seattle, 2011.
- Slattery, M.C. (Invited) "Stream restoration and geomorphology: what are we restoring to?" Riparian Workshop, Fort Worth, Texas, 2010.
- Slattery, M.C. (Invited) "Driving carbon minimisation and renewable integration." IQPC Wind Power Development and Implementation Summit, Cairo, Egypt, 2010.
- Slattery, M.C. et al. "Fluvial sediment delivery and human impact in a large coastal plain river." International Association of Geomorphologists, Melbourne, Australia, 2009.
- Slattery, M.C. "The TCU-Oxford-FPL wind research initiative." Blowin' in the Wind, Texas Tech University, 2009 (invited).
- Slattery, M.C. "Constructing sediment budgets in the Trinity and Brazos basins, TX." Association of American Geographers, Boston, 2008.
- Slattery, M.C. "Forensic fluvial geomorphology: Lessons learned from being an expert witness." Association of American Geographers, San Francisco, 2007.
- Slattery, M.C. "Use of mineral magnetic measurements to fingerprint suspended sediment sources." Invited speaker, Sediment Source Identification Workshop, USDA ARS, Tucson, 2006.
- Slattery, M.C. and Phillips, J.D. "Sediment delivery to the ocean by coastal plain rivers." 6th International Conference on Geomorphology, Zaragoza, Spain, 2005.
- Slattery, M.C. et al. "Dam-to-delta sediment inputs and delivery in the lower Trinity River, Texas." 32nd International Geological Congress, Florence, Italy, 2004.
- Slattery, M.C. et al. "Quantifying the impact of dam construction on flow regime, sediment delivery, and channel change." British Geomorphological Research Group Annual Meeting, Oxford, 2003.
- Slattery, M.C. "Barchan migration on the Kuiseb River delta, South West Africa/Namibia." 20th Students Geographical Conference, University of Cape Town, 1988 (Best Paper).

Films, Invited Lectures, Seminars, Congressional Testimony, and Other Creative Activity

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| 2026 | Interviewed for ProPublica article: "Texas Lawmakers Repeatedly Failed to Pass Legislation That Could Have Protected Residents from Deadly Floods." https://www.propublica.org/article/texas-lawmakers-flooding-protections |
| 2026 | "Phases and Stages: The Texas Energy Story." Interviewed on Episode 8, The University of Texas Energy Institute. https://energy.utexas.edu/phases-stages-texas-energy-story |
| 2025 | Texas Master Naturalists: "The weather and climate of Texas." |
| 2024 | Texas Master Naturalists: "The weather and climate of Texas." |
| 2023 | CBS11 TV: "When exactly does fall begin this year?" https://www.cbsnews.com/texas/news/when-does-fall-begin-this-year/ |
| 2023 | Dallas Morning News: "2023 Texas summer was the second-hottest on record. Is this the new normal?" https://www.dallasnews.com/news/2023/11/05/2023-texas-summer-was-the-second-hottest-on-record-is-this-the-new-normal/ |
| 2023 | Texas Master Naturalists: "The weather and climate of Texas." |
| 2022 | Eton College, London: "Can we afford to save Africa's rhinos?" |
| 2022 | University of Oxford: "Can we afford to save Africa's rhinos?" |
| 2022 | Ask the Expert: How will invasion of Ukraine impact our wallets? NEWSRADIO 1080 KRLD. https://www.audacy.com/krlD/news/national/ate-how-will-invasion-of-ukraine-impact-our-wallets |
| 2022 | EarthX TV: "Wild Wonders with Brooke" 23-minute documentary on Costa Rica's rainforest. |
| 2022 | EarthX TV: "Wild Wonders with Brooke" 23-minute documentary on sloths. |
| 2021 | EarthX TV: "Kids in Conservation" 23-minute documentary on the rhino crisis. |
| 2019 | University of Oxford: "Are Africa's rhinos black or white?" |

2019	University of Leiden: "The rhino crisis: A species on the brink."
2019	EarthX, panelist: "Wildlife Recovery." (https://youtu.be/gB353TOK6DE)
2019	EarthX, EdTx speaker: "Can we save the world's rhinos?" (https://youtu.be/L8p11yyAx7g)
2019	Panelist at EarthX film premier – KIFARU.
2019	Podcast for Conservation Connection: "Costa Rican cloud forests and South African Rhinos" (https://www.lastchanceendeavors.com/podcast/episode/247282f2/dr-mike-slattery-environmental-scientist-at-tcu-or-costa-rican-cloud-forests-and-south-african-rhinos-or-episode-012)
2018	March for Elephants and Rhinos – ATX: "Can we save Africa's rhinos?"
2018	UCLA: "The rhino crisis in South Africa."
2017	Fort Worth Museum of Science and History: "Can we save Africa's rhinos?"
2016	Visiting Scholar, Durham University, UK: The rhino poaching crisis in South Africa; Utility-scale wind energy projects.
2015	Earth Day Texas (invited speaker): "Why are we poles apart on climate change?"
2014	Texas Water Foundation, State Capitol, Austin: "Dams and river regulation."
2012	Panelist, National Youth Summit on the Dust Bowl, Fort Worth Museum of Science and History.
2008	Testimony before the U.S. Congress Subcommittee on Water Resources and the Environment.
2006	Texas Water Development Board: "One day workshop on sediment budgeting in Texas rivers."
2005	University of Texas at Arlington, Department of Geology: "Sediment delivery to the ocean by coastal plain rivers."
2001	Baylor University, Department of Geology: "Research questions in small basin research."

Professional Societies

American Geophysical Union · Association of American Geographers · Geological Society of America · British Geomorphological Research Group · British Hydrological Society · British Society of Soil Science · International Association of Geomorphologists

Professional Assignments, Consulting, and Expert Witness

2025–2026	Expert Witness, CAUSE NO. CV-24-46686 in the District Court of Fannin County, Texas
2024–2026	Expert Witness, CAUSE NO. 096-322622-21 in the District Court of Tarrant County, Texas (deposed and testified at trial)
2024–present	Expert Witness, CAUSE NO. CV05774 in the 84th District Court, Hansford County, Texas (deposed)
2020–present	Expert Witness, Civil Action No. 3:20-cv-00223 in the United States District Court for the Southern District of Texas, Galveston Division (argued before the U.S. Supreme Court, January 16, 2024 and decided April 16, 2024), testified at Class Action Certification hearing
2020–present	Expert Witness, CAUSE NO. 2019-57694, 165th Judicial District Court, Texas (deposed)
2014–2016	Panelist, NSF Geography and Spatial Sciences panel
2014–present	Editorial Board, AIMS Energy
2010–2012	Member, Sustainable Energy Roundtable, Fort Worth Museum of Science and History
2010–present	Editorial Board, Annals of the Association of American Geographers
2009–2012	Executive Research Board, Texas Institute and Botanical Research Institute of Texas
2005–2009	Head of Publications and Executive Committee, International Association of Geomorphologists
2007	Expert witness, CleanCOALition v. TXU Power (U.S. Fifth Circuit Court of Appeals Case No. 07-50685), deposed.
2007	Expert Witness, case 2004-887-A in the 188th Judicial District Court, Texas, deposed.
2005–2006	Chair, Geomorphology Specialty Group, Association of American Geographers
2001–2004	Member then Chair, Geomorphology Specialty Group Awards Committee, Association of American Geographers

2001	US representative, The Gordon Cook Conversations, Douneside, Scotland
2000	National Vice-President, Sigma Gamma Epsilon
1998	Judge, Intel International Science and Engineering Fair, Fort Worth, Texas; Judge, Texas Geography Bee
1995	Member of disaster response team examining the effects of Hurricane Opal, Pensacola Beach, Florida

Journal Reviewer: Journal of Arid Environments, Soil Use and Management, Earth Surface Processes and Landforms, Catena, Journal of Soil Science, Geomorphology, Journal of Soils and Sediments, Energy Policy, AIMS Energy

External Examiner and T&P Review: Louisiana State University, University of North Carolina Greensboro, Millsaps College, Mississippi, Texas A&M University

Proposal Reviewer: US Department of Agriculture CSREES Grants, NASA Research and Education Review Panel (Water Storage)

University Committees

2025	College of Science & Engineering Promotion & Tenure Committee
2024	Member, Provost Search Committee
2024	College of Science & Engineering, Strategic Planning Committee
2023	Ralph Lowe Energy Institute Strategic Planning Committee
2023	Member, Executive Director Search, Ralph Lowe Energy Institute
2023	Member, Instructor Search, Environmental Sciences
2020	College of Science and Engineering Dean's Search Committee
2019–2021	CSE Diversity, Equity, and Inclusion Committee; Genius Loci Committee
2018–2020	Sustainability Committee
2017–2018	TCU Committee on the Environment (Chair)
2006	TCU Strategic Initiative Fund Evaluation Committee
2004	College of Science and Engineering Advisory Committee; Graduate Education Strategy Committee (TCU)
2002	Graduate Review Committee, College of Science and Engineering (TCU)
2001	Core Curriculum Implementation Committee (TCU)
2000	Core Curriculum Outcomes Committee (TCU)
1999–2000	Commission on the Future of TCU (Global Positioning Task Force)
1999–2003	Curriculum Committee, Texas Christian University
1995–1997	Search Committee, East Carolina University
1994–1997	Code Committee, East Carolina University
1994–1995	Faculty Development Committee, East Carolina University
1992–1993	Graduate Representative on the Joint Consultative and Sub-Faculty Committee, Oxford
1989–1990	Graduate Representative on the Graduate Affairs Committee, University of Toronto
1988	Chairman, Students Geographical Society, University of the Witwatersrand

GRADUATE PROGRAM

MS Theses Directed/Co-Directed

- C. Dixon. "An evaluation of water and sediment quality in a mine-impacted watershed: Case study of Elm Creek, Picher, Oklahoma."
- S. Blair-Kucera. "The links between soil moisture dynamics, runoff generation, and stream flow response: A case for a prairie hillslope seep system."
- Greene, J. "Impacts of megaherbivores on the vegetation in a size restricted game reserve."
- E. Anderson, 2016. "Quantifying physical changes in near-surface soil during prescribed fire."
- J. Williams, 2014 (co-directed). "Remediating Nutrient and Bacterial Contaminated Stormwater via Bioretention: A Comparative Analysis of Three Filter Designs."

- Dizayee, R., 2014 (co-directed). "Groundwater Degradation and Sustainability of the Erbil Basin, Erbil, Kurdistan Region, Iraq."
- P. Lisenby, 2013. "A Reach-Scale Characterization of a Second-Order, Tropical, Montane Stream: Using Terrestrial Laser Scanning to Relate Channel Morphology to the Distribution of Stream Power and Shear Stress."
- S. Jones, 2013. "Hydrologic response of hillslope seeps and headwater streams in the Fort Worth Prairie."
- M. Melchior, 2012. "Assessing sediment dynamics and channel bar response in the Brazos River near Glen Rose, Texas."
- L. Llado, 2011. "Soil moisture dynamics of Muhly seeps in a hillslope hollow during low flow and storm conditions."
- K. Ozenick, 2010. "Identifying priority areas for conservation: Methods using GPS and GIS tools to represent biodiversity in Costa Rica."
- B. Tower, 2010. "Spatial and temporal variability of soil properties under multiple land use, Costa Rica."
- X. Zhang, 2010. "Quantifying soil moisture dynamics on green roof media in response to rainfall."
- J. Swofford, 2009. "Social perceptions of wind energy in Texas: Proximity and NIMBY explored."
- A. Schlipmann, 2009. "Base-line hydrology for a long-term stream monitoring program, TCU tropical research station."
- M. DeZendorf, 2009. "Sustainable tourism as a working model of new conservation in the Monteverde zone, Costa Rica."
- D. Williams, 2008. "Appropriate design elements and soil selection for green roofs in North Central Texas."
- L. Black, 2008. "Quantifying in-stream sediment transport in the upper Brazos Basin, Texas."
- L. Todd, 2008. "Use of GPR to constrain sedimentation in the Trinity River Delta, Texas."
- R. Garnett, 2008. "Sediment budgeting along the middle Trinity River, TX."
- S. Eady (co-supervised), 2007. "Effects of Herbivory on Competition Between *Avicennia* and *Spartina* Along the Marsh Gradient."
- S. Hagos, 2007. "Groundwater flow dynamics and possible contaminants studies for La Grave Field wells, Fort Worth, Texas."
- S. Smith, 2007. "The impact of impoundment and flood control on channel morphology at the Brazos River, Paluxy River, Squaw Creek confluence, Glenrose TX."
- T. Moss, 2007. "Baseline study of nutrient and sediment flux from an urbanising basin, Parker County, Texas."
- D. Dollar, 2005. "Land use, slope, and soil type and their control on sediment flux from two lower coastal plain basins, Trinity River, Texas."
- L. Dakshinamurthy, 2004. "Quantifying the impact of impoundment on sediment transport in the lower Trinity River, Texas." 72 pp.
- L. Johnson, 2003. "Spatial and temporal variability in soil moisture content as a control on runoff generation in a hillslope hollow in Parker County, Texas." 172 pp.
- J. Wellmeyer, 2003. "Historic planform change of the Trinity River channel below Livingston Dam, Liberty County, Texas." 152 pp.
- M. Donovan, 2003. "Grain size control on Landsat TM imagery of alluvial fans surrounding the Rosillos Mountains in southwest Texas." 187 pp.
- Z. Musselman, 2001. "Morphometric and areal properties of Star Creek fan, Rosillos Mountains, Brewster County, Texas." 131 pp.
- A. Lazar, 1999. "Storm based monitoring of pollutant fluxes on Upper Sycamore Creek, Fort Worth, Texas." 210 pp.
- H. Golden, 1998. "Spatial and temporal variability of historic alluvial sedimentation on the lower coastal plain, North Carolina." 98 pp.
- K. Capiella, 1995. "Nitrogen, phosphorus, and sediment exports from headwater streams in a coastal plain agricultural basin, North Carolina." 155 pp.