

Publications

Papers (student authors with asterisks, research scientists with pound signs)

- #Williams, R.T., Mozley, P.S., Sharp, W.D., and Goodwin, L.B., 2019, U-Th dating of syntectonic calcite veins reveals the dynamic nature of fracture cementation and healing in faults, *Geophysical Research Letters*, v. 46, p. 12,900-12,908. <https://doi.org/10.1029/2019GL085403>
- #Williams, R.T., Davis, J.R., and Goodwin, L.B., 2019, Do large earthquakes occur at regular intervals through time? A perspective from the geologic record, *Geophysical Research Letters*, v. 46, p. 8074-8081. <https://doi.org/10.1029/2019GL083291>
- #Williams, R.T., Beard, B. L., Goodwin, L.B., Sharp, W.D., Johnson, C.M., and Mozley, P.S., 2018, Radiogenic isotopes record a ‘drop in a bucket’ – a fingerprint of multi-kilometer-scale fluid pathways inferred to drive fault-valve behavior, *Journal of Structural Geology*, v. 125, p. 262-269. <https://doi.org/10.1016/j.jsg.2018.07.023>
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- #Williams, R.T., Goodwin, L.B., Sharp, W.D., and Mozley, P.S., 2017, Reading a 400,000-year record of earthquake frequency for an intraplate fault, *Proceedings of the National Academy of Science*, www.pnas.org/cgi/doi/10.1073/pnas.1617945114.
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- *Cook, J.E., Goodwin, L.B., Boutt, D.F., and Tobin, H.J., 2015, The effect of systematic diagenetic changes on the mechanical behavior of a quartz-cemented sandstone, *Geophysics* 80(2), D145-D160. doi: 10.1190/geo2014-0026.1
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- *Bonamici, C., Tikoff, B., and Goodwin, L.B., 2011, Anatomy of a 10-km-scale sheath fold, Mt Hay ridge, Arunta Region, central Australia: The structural record of deep crustal flow: *Tectonics* 30: TC6015, doi:10.1029/2011TC002873.
- *Cook, J.E., Goodwin, L.B., and Boutt, D.F., 2011, Systematic diagenetic changes in the grain-scale morphology and permeability of a quartz-cemented quartz arenite: *AAPG Bulletin* 95: 1067-1088.

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Haneberg, W.C., Mozley, P.S., Moore, J.C., and Goodwin, L.B., (eds), 1999, *Faults and Subsurface Fluid Flow in the Shallow Crust*, AGU Monograph 113.

NSF-funded reports addressing future of tectonics

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