

Selected Publications

Peer-Reviewed Journal Articles

Klepeis, K.A., Schwartz, J.J., Miranda, E., Lindquist, P., Jongens, R., Turnbull, R., and Stowell, H., 2022, The initiation and growth of transpressional shear zones through continental arc lithosphere, southwest New Zealand, *Tectonics*, 41, e2021TC007097. <https://doi.org/10.1029/2021TC007097>

Klepeis, K., Webb, L., Blatchford, H., Schwartz, J., Jongens, R., Turnbull, R., and Stowell, H., 2019a, Deep slab collision during Miocene subduction causes uplift along crustal-scale reverse faults in Fiordland, New Zealand, *GSA Today*, v. 29, <http://doi.org/10.1130/GSATG399A.1>

Betka, P., Mosher, S., and Klepeis, K., 2022, Progressive development of a distributed ductile shear zone beneath the Patagonian retroarc fold-thrust belt, Chile. *Lithosphere*, 3820115, <https://doi.org/10.2113/2022/3820115>

Klepeis, K. A., Webb, L. E., Blatchford, H. J., Jongens, R., Turnbull, R., & Schwartz, J.J., 2019b, The age and origin of Miocene- Pliocene fault reactivations in the upper plate of an incipient subduction zone, Puysegur Margin, New Zealand. *Tectonics*, 38, <https://doi.org/10.1029/2019TC005674>

Blatchford, H.J., Klepeis, K.A., Schwartz, J.J., Jongens, R., Turnbull, R.E., Miranda, E.A., Coble, M.A., and Kylander-Clark, A.R.C., 2020, Interplay of Cretaceous transpressional deformation and continental arc magmatism in a long-lived crustal boundary, central Fiordland, New Zealand: *Geosphere*, v. 16(5), 1225-1248, <https://doi.org/10.1130/GES02251.1>

Books

Kearey, P., Klepeis, K.A. & Vine, F., 2009, *Global Tectonics*, third edition, Wiley-Blackwell, John Wiley & Sons, West Sussex, UK, 482 pp.

Technical Reports

[VGTR2022-2](#): Kim, J., Klepeis, K., Ryan, P., Romanowicz, E., Boyles, J., and DeJong, B., 2022, A Conceptual Site Model for the PFAS-Contaminated Fractured Rock Aquifer Beneath the Rutland- Southern Vermont Regional Airport (RSVRA), Vermont: Vermont Geological Survey Technical Report VGTR2022-2, 28 p.

[VGTR2022-1](#): Klepeis, K.A., Kim, J.J., Boyles, J., and Robinson, E., 2022, Rockfall Hazard Maps for the Wrightsville Dam Spillway- A Framework for Geotechnical Mitigation: Vermont Geological Survey Technical Report VGTR2022-1, 1 plate (poster).

[VGTR2021-4](#): Kim, J., Springston, G., Klepeis, K., Boyles, J., and Robinson, E., 2021, Monitoring of Landslides in Vermont Using Drone and Geologic Surveys: Vermont Geological Survey Technical Report VGTR2021-4, 1 plate (poster).

Huntington, K.W., and Klepeis, K.A. , 2018, Challenges and opportunities for research in tectonics: Understanding deformation and the processes that link Earth systems, from geologic time to human time. A community vision document submitted to the U.S. National Science Foundation. University of Washington, 84 pp., <https://doi.org/10.6069/H52R3PQ5>