

## PUBLICATIONS

- Brose, A., Peterson, R., & Petersen, L. (2023). Rock Stabilization at Pompeys Pillar National Monument: The Use of Numerical Modeling to Analyze Risk of Failure. In *Proceedings, 72nd Highway Geology Symposium*.
- Detournay, C., Meng, G., Hou, J., Xu, J., Cheng, Z., Peterson, R., & Cundall, P. (2021). Numerical Simulation of Water Impoundment at a High Arch Dam Site. In *Proceedings, 4<sup>th</sup> International Conference on Numerical Modeling in Engineering (NME 2021, Ghent, Belgium, August 2021)*, Lecture Notes in Civil Engineering, vol 217. pp. 27–39, M. A. Wahab, Ed. Springer.
- Brose, A., Petersen, L., & Peterson, R. (2019). Wabasha Street Rock Slide Assessment. In *Proceedings, Minnesota Geotechnical Conference (St. Paul, Minnesota, February 2019)*.
- Brose, A., Petersen, L., & Peterson, R. (2019). The Assessment and Remediation of the Wabasha Street Rockfall. In *Proceedings, 70<sup>th</sup> Highway Geology Symposium (Portland, Oregon, October 2019)*. Highway Geology Symposium.
- Brose, A., Person, G., Petersen, L., Shinnefield, A., Peterson, R., Cotesta, L., & Dasenbrock, D. (2018). Slope Stability Analysis for TH53 Relocation, Virginia, MN. In *Proceedings, 69th Highway Geology Symposium (Portland, Maine, September 2018)*. Highway Geology Symposium.
- Benda, A., Petersen, L., & Peterson, R. (2018). Mesa Verde National Park, Spruce Tree House Alcove Local Arch Analysis. In *Proceedings, 66th Annual Geotechnical Engineering Conference (Minneapolis, Minnesota, February 2018)*, 105–115. University of Minnesota.
- Rajmeny, P. K., Peterson, R., & Lorig, L. (2018). Determination of properties of a geological fault through back analysis using 3D numerical modeling. Presented at the SME Annual Conference, Minneapolis, Minnesota, February 2018.
- Dasenbrock, D., Person, G., Shinnefield, A., Cotesta, L., Paudel, B., Benda, A., Petersen, L., & Peterson, R. (2016). Rock Discontinuity Characterization for TH53 Relocation, Virginia, MN. In *Proceedings, University of Minnesota 64th Annual Geotechnical Engineering Conference (Minneapolis, March 2016)*, pp. 107-117. J. F. Labuz and A. B. Carney, Eds. Minneapolis: University of Minnesota.
- Kim, B.-H., Peterson, R. L., Katsaga, T., & Pierce, M. E. (2014). Estimation of Rock Block Size Distribution for Determination of Geological Strength Index (GSI) Using Discrete Fracture Networks (DFNs). In *DFNE 2014 (Proceedings, International Discrete-Fracture Network Engineering Conference, Vancouver, Canada)*. Paper No. DFNE 2014-124. CARMA, ARMA.
- Leagjeld, E. E., Nelson, B. K., Nelson, C. R., Petersen, D. L., Peterson, R. L., & Wagener, B. D. (2004). Design and Construction of the Lindbergh Terminal Station, Twin Cities, Minnesota. In *Proceedings, North America Tunneling Conference (Atlanta, Georgia, May 2004)*. L. Ozdemir, Ed. New York: Taylor & Francis.
- Nelson, C. R., Petersen, D. L., Peterson, R. L., Rudd, J. C., & Sellman, E. (2004). Design and Compaction Control for Foundation Soil Improvements, T.H. 61 Reconstruction, Newport, Minnesota. Transportation Research Board Meeting, Washington D. C., January 2004.

Petersen, D. L., Siekmeier, J., Nelson, C. R., & Peterson, R. L. (2006). Intelligent Soil Compaction – Technology, Results and a Roadmap toward Widespread Use. Transportation Research Board Meeting, Washington D.C., January 2006.