# SCOTT D. CYLWIK, P.E.

## Education

M.S., Civil Engineering (Geotechnical), University of California at Berkeley, 2008
B.S., Geological Engineering, University of Arizona, 2007

## Registrations

Professional Engineer - Arizona #51412 (Geological), California #C 85060 (Civil), Colorado #52897

## Affiliations

Society for Mining, Metallurgy & Exploration (SME)
American Rock Mechanics Association (ARMA)

## Experience

2023 – Present **Vice President / Geological Engineer, Call & Nicholas, Inc.,** Tucson, AZ
Geotechnical consultant for open pit and underground mining projects for the international mining industry. Responsible for project and company management. Feasibility-level studies all the way through closure. Qualified person in geotechnical engineering for reporting and review boards per SK-1300, CIM, and 43-101. Areas of expertise include slope stability studies for open pits, waste dumps, heap leach dumps, investigation of slope failures, optimization of remediation designs, analysis of rockfall hazards, mechanical stabilization designs for slopes, and slope failure runout analysis.

2015 – 2023 **Senior Geological Engineer, Call & Nicholas, Inc.,** Tucson, AZ
Engineering consultant and geotechnical project manager for the mining industry. Responsible for project management, high-level technical work, client relations, and mentoring/training of junior staff.

2008 – 2015 **Geological Engineer, Call & Nicholas, Inc.,** Tucson, AZ
Geotechnical consultant for surface and underground mining operations. Responsibilities include slope stability analysis, field mapping, core logging, sample collection, rockfall analysis, and writing of technical reports.

## Additional Information

- Completed MSHA 40 Hour Underground Mine Health and Safety Training
- Conversational Spanish Speaking

## Publications


Cylwik, S.D., Killian, J.R., Cicchini, P.F. (2022). A practical strength criterion for rock masses based on quantitative input parameters. In, *Slope Stability 2022*, October 17-21, 2022, Tucson, AZ, USA.

Agosti, A., Cylwik, S.D., Utili, S. (2022). Optimal pitwall profiles to maximise steepness in anisotropic bedded sedimentary rock. In, *Slope Stability 2022*, October 17-21, 2022, Tucson, AZ, USA.

Cylwik, S.D. (2021). Three-Dimensional Anisotropic Shear Strength of Jointed Rock Masses. In, *55th US Rock Mechanics / Geomechanics Symposium, June 20-23, 2021, Houston, Texas*.

Cylwik, S.D., Cox, S.B., Potter, J.J. (2021). Probabilistic Analysis of an Open Pit Mine Slope in the Central African Copperbelt with Spatially Variable Strengths. In, *Rocscience International Conference, April 20-21, 2021*.

Cylwik, S.D., Beck, J.A., Ryan, T.M. (2018). The Uncertainty of Rock Mass Shear Strength Estimates: How to Incorporate the Reduction in Variance Due to Spatial Averaging for Use in Probabilistic Analysis. In, *Slope Stability 2018, April 10-13, 2018, Seville, Spain*.