

# Save the date: June 26, 2022

**What:** Workshop on Distributed Fiber Optic Sensing in Geomechanical Applications

**Where:** Santa Fe, NM

**When:** June 26, 2022

**Cost:** \$150 (includes continental breakfast, lunch, and breaks)

**Affiliation:** ARMA Hydraulic Fracture Community

**Conference:** ARMA 56<sup>th</sup> U.S. ROCK MECHANICS / GEOMECHANICS SYMPOSIUM

## Distributed Fiber Optic Sensing in Geomechanical Applications

### Workshop Description

Distributed fiber optic sensing measurements have recently received much attention for its ability to characterize geomechanical and fracture properties in the subsurface. However, for this novel and promising technology, there is still much to learn regarding data acquisition and quantitative interpretation.

This workshop is intended to bring together a range of operators, service companies, and academic professionals to discuss distributed fiber optic sensing in geomechanical applications. The workshop will start with a couple of sessions on the effect of fiber deployment and installation methods on data acquisition and quality, assumptions for data processing, as well as challenges regarding field observations and data interpretation. Following that, the invited speakers will demonstrate application of geomechanical modeling to understand and explain measured signals and how to use measured data to constrain geomechanical models. The workshop will be concluded with case studies to highlight field measurements. The goal of this one-day workshop is to define where we are today, outline how to apply this technology into geomechanics, and discuss what information we can obtain from fiber optic measurements. Finally, we will attempt to envisage the potential uses of this emerging technology as applied to geomechanical engineering challenges.

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