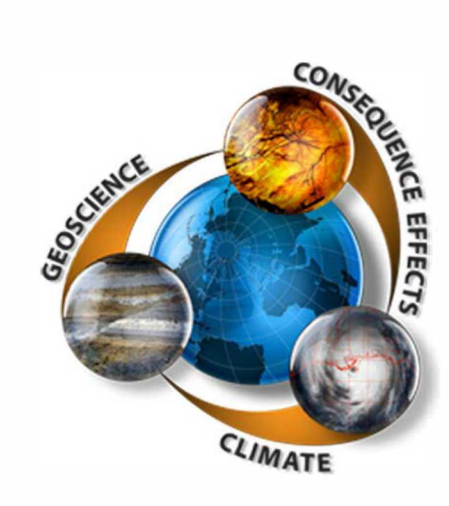


GEOMECHANICS DEPARTMENT 8864

MOO LEE, MANAGER

The Sandia Geomechanics Department was started in the early 1970s to support primarily nuclear testing and effects and containment studies at the Nevada Test site by applying science & engineering principles to solve complex coupled-process problems inherent with geologic and engineered materials through laboratory testing; constitutive modeling and simulations; and bench/field scale validations. Unique geomechanics, porous materials, and IAM (Imaging and Additive Manufacturing) laboratories are capable of testing

geo- and engineered-materials under wide ranges of simulated environmental conditions and complex load paths. We have world-class testing capabilities from cryogenic to geothermal; nano to core scales; creep to shock physics; 2 to 1,000,000 lbs loading ranges; uniaxial to polyaxial loading; and fracking to borehole failure. A Subsurface Characterization Report by JASON (2014) singled out the Sandia Geomechanics Laboratory as a differentiating capability that should be available as the future DOE user facility



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