

## **July 19 NWTRB Fact Finding Agenda**

Presentations Location: Center for Global Security and Cooperation (CGSC)  
Building, Room 3110

Lab Tour Location: Sandia Bldg 823 (On Kirtland Air Force Base)

*Masks currently required on Sandia Facilities (IPOC, CGSC, and Bldg 823)*

**7:30 – 8:15:** Badging at IPOC

**8:15 – 8:30:** Commute to CGSC/3110

**8:30 – 8:40:** Opening Remarks (Bill Boyle/Tim Gunter/Dave Sassani)

**8:40 – 9:30:** Overview of DOE R&D Efforts Related to a Clay-Based Repository and Clay-Based Engineered Barriers (Chris Camphouse)

**9:30 – 10:10:** Overview of EBS Function and Design in an Argillite Host Rock (Ed Matteo)

**10:10 – 10:50:** Modeling of the Long-Term Integrity of the Argillite Host Rock Barrier (Jonny Rutqvist)

**10:50 – 11:30:** A Review of High Temperature Engineered Barrier Systems Experiments (Carlos Jove-Colon and Florie Caporuscio)

**11:30 – 12:30:** Lunch (Offsite – Golden Pride on Central)

**12:30 – 1:20:** Coupled THMC Processes under High Temperature in Bentonite Buffer: Laboratory Experiments, Field Tests, and Modeling (LianGe Zheng)

**1:20 – 2:00:** Community Database Development and Application of Surface Complexation and Hybrid ML Approaches to Reactive Transport Modeling and Performance Assessment (Mavrik Zavarin and Elliot Chang)

**2:00 – 2:40:** The Smart Kd Approach: Integrating Coupled THC Processes for Radionuclide Transport into GDSA (Tayo Omosebi)

**2:40 – 3:00:** Commute to Building 823 (DOE and NWTRB attendees)

**3:00 – 5:00**: 823 Lab Tour (DOE and NWTRB attendees)

- Brief Summary of Bldg 823 Lab Facility
- Synthesis and Evaluation of Novel Materials for Anionic Sorption
- Characterization of EBS Interfaces
- Chemo-Mechanical and Moisture Transport Effects During Clay Hydration