GDSA Debrief

SAND2016-5394PE

- **GDSA session** (*Mariner*)
  - Presentations
  - FY17 planning discussion
    - *GDSA "to do" list of basic code needs, applications, integration opportunities – high priorities*
    - *Applications more driven by other work packages (defense repository, deep borehole, other)*
  - Feedback

- GDSA overview (Mariner)
- GDSA simulation framework: PFLOTRAN (Hammond)
- Isotope chemistry and source term (Mariner)
- Source term implementation and demonstration (Frederick)
- GDSA process model integration (brief) (Sevougian)
- GDSA mined repository in crystalline rock (Stein)
- GDSA planning for FY17 (Mariner)

- **GDSA integration session** (*Sevougian*)
  - Lightning talks
  - Continued work on
    - *Discrete fracture network modeling*
    - *Colloid transport*
    - *FMDM enhancements*
  - New integration work to pursue in FY17

- Density dependence on salinity (Hammond)
- DFN model (Stein/Makedonska)
- Colloid-facilitated transport model (Reimus)
- CSNF degradation model (FMDM) (Jerden)
- Salt coupled THM processes (TOUGH-FLAC) (Rutqvist)
- THC processes in salt (Stauffer)
- TOUGH-FLAC/BBM/RBSN models (Rutqvist)
- THMC model (illitization) and THM model (TPHM Hooke's) (Zheng)
- DFN enhancements (Viswanathan)
- Waste package degradation (Jove-Colon)
- Waste package and waste form degradation (Frederick)
- Glass degradation (Rieke)
- Grid refinement (Alzraiee/Hammond)
- ROMs for creep closure (Park/Hammond)
- A control variate method for PA (MacKinnon)
- Remaining process model gaps (Mariner)