NSF I/UCRC for Geomechanics and Mitigation of Geohazards (GMG)

2020- Spring Meeting

Agenda

June 16, 2020

9:00 - 9:15 am Welcome Remarks (EAS Chair, NSF, Center Directors)
9:15 - 10:30 am Project Presentations, progress and updated plans (PIs)
   - GMG-5.2: Hydraulic Fracturing: Modeling and Optimization (Ortiz)
   - GMG-4.2: Understanding Conditions for Stable/Unstable Fault Slip Induced by Fluid Injections (Lapusta)
   - GMG-6.2: Experimental investigation of the interaction between fluids and failure of rock faults in shear (Rosakis)
10:30 - 10:45 am BREAK
10:45 - 12:00 pm Project Presentations, progress and updated plans (PIs)
   - GMG-1.2: Remote Sensing Ground Deformation Monitoring of Natural and anthropogenic Processes (Asimaki)
   - GMG-8.2: Seismological Monitoring with Machine Learning (Ross)
   - GMG-9.2: Application of DAS in Monitoring Microseismicity and Subsurface Structure Changes (Zhan)

June 17, 2020

9:00 - 10:00 am Topical Conference:
   “Toward Stress-Based Time-Dependent Forecasting of Induced Seismicity”
   J. Smith & Elias Heimisson
10:00 - 10:15 am BREAK
10:15 - 11:00 am Project Presentations, progress and updated plans (PIs)
   - GMG-2.2: Modeling Deformation and Seismicity Due to Fluid Injections (Avouac)
   - GMG- EP1: Monitoring and Modeling of Induced Seismicity in Texas (Ross, Avouac)
11:00 - 12:00 pm Potential new project and general discussion/break-out discussions?

June 18, 2020

9:00 - 10:00 am IAB Organizational meeting, formative discussion (IAB Member, NSF)
10:00 - 10:30 pm IAB meeting (IAB Members, NSF and Center Directors).
10:30 - 10:45 am BREAK
10:45 - 12:00 pm Debriefing Summary report, action items and closing remarks (all participants)
**IAB Organizational Meeting and Formative Discussion** (IAB Members and NSF only):

- Discussion of impressions of previous day presentations and LIFE forms
- Formulation of recommendation/feedback to center leadership.

**IAB Meeting** (IAB Members, NSF and Center Directors):

- Report to the Center Director