



CALIFORNIA INSTITUTE OF TECHNOLOGY

Division of Engineering and Applied Science

Division of Geology and Planetary Sciences

Pasadena, California 91125

Center for Geomechanics and Mitigation of Geohazards (cGMG)

Fall 2025 Hybrid GMG-IAB Meeting (YR1)

Day 1: Thursday, October 2, 2025.

Location: Resnick Sustainability Center (Conference Room, RSC 120).

8:00 - 8:45 am Participant Registration, Breakfast, and Networking Time

8:45 - 9:00 am Welcome Remarks (Center Directors)

9:00 - 10:30 am Projects Review Session I

Chair: Domniki Asimaki

GMG-6.7 Experimental investigation of the interaction between fluids & failure of rock faults in shear (Rosakis).

GMG-4.7 Understanding conditions for stable/unstable fault slip induced by fluid injections (Lapusta).

GMG-18.1 Coupling fault rupture and multiphase flow (Fu).

GMG-9.7 Observing and modeling deformation due to fluid pumping in the subsurface (Zhan).

10:30 - 12:00 pm Poster Session I

12:00 - 1:00 pm **LUNCH**

1:00 - 3:00 pm

Projects Review Session II

Chair: Nadia Lapusta

GMG-16.3 Efficient Probabilistic Seismic Risk Assessment for Time-dependent Processes (Asimaki).

GMG-11.4 Forecast and control of injection-induced seismicity, rates and magnitudes (Avouac)

GMG-13.3 A Discrete Fault Network Model to forecast induced earthquakes, creep and tremors (Im)

GMG-19.1 Microseismicity-based assessment of stimulated volume during EGS stimulation (Marty)

GMG-EP-2 Learning from Groningen (Li & Shi).

3:00 - 4:30 pm

Poster Session II

4:30 - 5:30 pm

Coffee Table Discussions

6:00 - 8:00 pm

DINNER

Day 2: Friday, October 3, 2025.

Location: Resnick Sustainability Center (Conference Room, RSC 120).

8:00 - 9:00 am	Breakfast, and Networking Time (all participants)
9:00 - 10:30 am	Topical Presentation: Induced Seismicity at the Geysers (Guo)
10:30 - 11:00 am	BREAK
11:00 - 12:00 am	Debriefing (all participants)
12:00 - 1:00 pm	LUNCH
1:00 - 2:00 pm	IAB Organizational Meeting (IAB Members & Center Directors)
2:00 - 3:30 pm	IAB Meeting (IAB Members only)
3:30 - 4:00 pm	Summary Report and Closing Remarks (all participants)
4:00 - 6:00 pm	HAPPY HOUR

Hybrid participation: Remote participants will be able to attend all the oral presentations. They will be able to provide feedback using Slack. They won't be able to participate in the poster session, coffee table discussion and social events. Live presentations will be recorded and posted after the meeting,

Projects Review (all participants): The PI will coordinate Lightning talks by the students, postdocs and collaborators involved in each project.

Poster Session (all participants): Informal discussions around the posters. The poster will present the same material as in the one covered by the pre-recorded presentations.

Coffee table discussions (all participants): One PI and one person from IAB in charge of reporting will stay at the same table. All others can rotate from one table to the other during the discussion.

IAB Organizational Meeting and Formative Discussion (IAB Members only): Discussion of impressions of previous day presentations and Slack review. Formulation of recommendation/feedback to Center leadership

IAB Meeting (IAB Members, and center directors): Discussion of proposed projects; Voting; Formulation of funding recommendation to Center leadership.