



CALIFORNIA INSTITUTE OF TECHNOLOGY

Division of Engineering and Applied Science
Division of Geology and Planetary Sciences
Pasadena, California 91125

Research Center for Geomechanics and Mitigation of Geohazards (cGMG)

Fall 2026 Hybrid GMG-IAB Meeting

Day 1: Tuesday, September 29, 2026.

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 and lightning talks- Session I

GMG-4.8 Understanding conditions for stable/unstable
fault slip induced by fluid injections (Lapusta).

GMG-6.8 Experimental investigation of the interaction
between fluids & failure of rock faults in shear (Rosakis).

GMG-18.2 Coupling fault rupture and multiphase flow (Fu).

10:30 - 12:00 am Poster Session I

12:00 - 1:00 pm LUNCH

1:00 - 2:30 pm	<u>Projects Review and lightning talks - Session II</u> <i>GMG-11.5</i> Forecast and Control of Injection-Induced Seismicity, Rates and Magnitudes (Avouac). <i>GMG-13.4</i> A Discrete Fault Network Model to forecast induced earthquakes, creep and tremors (Im). <i>GMG-20.1</i> Development of theoretical models for injection-induced fault slip (Sáez).
2:30 - 4:00 pm	Poster Session II
4:00 - 5:00 pm	Coffee Table Discussions
5:00 – 6:00 pm	<u>IAB Members Only</u>: Tour, lab of Prof. Rosakis (Due to limited lab space, a tour for Caltech GMG will be scheduled for a later date).
6:00 - 8:00 pm	DINNER

Day 2: Wednesday, September 30, 2026.

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

8:00 - 9:00 am	Breakfast, and Networking Time (all participants)
9:00 - 10:00 am	<u>Topical Lecture on GMG Research</u> InSAR advanced processing and review of GMG case studies (Li).
10:00 - 10:15 am	Break
10:15 - 11:00 am	<u>Enhancement Projects Review – Session III</u> -Induced seismicity and crustal deformation in the Midland basin (GMG – EP-3, ExxonMobil) (Marty). -Induced seismicity and crustal deformation in the Delaware basin (GMG 18.2; EP-4, Chevron) (Zhou). -Seismicity and crustal deformation in the Elk Hills area (Zhou and Shrestha). -Induced seismicity at the Geysers Geothermal Field (Guo). -Tracking the pore-pressure diffusion with the migration of seasonally induced seismicity (Zhang). -Geothermal swelling and induced seismicity Campi Flegrei (Cheng).
11:00 - 12:00 pm	Poster Session III
12:00 - 1:00 pm	LUNCH
1:00 - 2:30 pm	Debriefing (all participants)
2:30 - 3:00 pm	BREAK
3:00 - 4:00 pm	IAB Organizational Meeting (IAB Members & Center Directors)
4:00 - 5:00 pm	IAB Meeting (IAB Members only)
5:00 - 6:00 pm	Summary Report and Closing Remarks (all participants)
6:00 - 8:00 pm	DINNER

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.

Day 3: Thursday, October 1, 2026.

Location: Field trip to the Kerckhoff Marine Laboratory (KML), Newport Harbor.

Web link: <https://kml.caltech.edu/>

Theme: Oceanic Carbon capture

7 am – 3 pm: Tour at the KML.

*Lunch boxes will be provided.