



# 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 (GMG)

### Kick-off Phase II Spring 2025 Hybrid GMG-IAB Meeting (YR1)

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#### Day 1: Wednesday, March 26, 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 (Provost David Tirell, 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. Coupling fault rupture and multiphase flow (Fu)

GMG-9.7 DAS for seismic and aseismic fluid movements (Zhan).

10:30 - 12:30 am	Poster Session I
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12:30 - 1:30 pm	<b>LUNCH</b>
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1:30 - 3:00 pm

Projects Review Session II

**Chair: Nadia Lapusta**

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-15.3 Efficient Probabilistic Seismic Risk Assessment for Time-dependent Processes (Asimaki).

3:00 - 4:30 pm

Poster Session II

4:30 - 5:30 pm

Coffee Table Discussions

**6:00 - 8:00 pm**

**DINNER**

## **Day 2: Thursday, March 27, 2025**

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

8:00 - 9:00 am	Breakfast, and Networking Time (all participants)
9:00 - 10:00 am	Topical Conference on GMG research
10:00 - 11:00 am	Presentations by GMG members
11:00 - 12:00 am	Debriefing (all participants)
<b>12:00 - 1:00 pm</b>	<b>LUNCH</b>
1:00 - 2:30 pm	IAB Organizational Meeting (IAB Members & Center Directors)
2:30 - 4:00 pm	IAB Meeting (IAB Members only)
4:00 - 5:00 pm	BREAK
5:00 - 6:00 pm	Summary Report and Closing Remarks (all participants)
<b>6:00 - 8:00 pm</b>	<b>DINNER</b>

### Day 3: Friday, March 28, 2025

**Location:** Resnick Sustainability Center Breezeway.



8:45 am – 1:30 pm Visit to the Jet Propulsion Laboratory (JPL)

Time	Event / Location	Point of Contact
8:45 am	<i>Arrive JPL Visitor Center</i>	<i>Deepa Mukherjee, ORD Executive Staff Coordinator</i>
9:00 – 9:25 am	<i>Introductions and JPL Overview Von Karman Museum</i>	<i>Sue Owen Deputy Chief Scientist</i>
9:30 – 10:00 am	<i>Spacecraft Flight Operations Facility (SFOF) 230 Gallery</i>	<i>Jack Lightholder, Data Scientist</i>
10:05 – 11:15 am	<i>Earth Science Center 264-1st floor</i>	<i>Paul Rosen/ Marco Lavelle, NISAR EMIT team OCO2/3 team</i>
11:25 am – 11:55 pm	<i>Microdevices Laboratory 302-MDL</i>	<i>Frank Greer Facilities and Ops Mgr. for MDL</i>

12:00 – 1:30 pm Lunch.

\*Lunch boxes will be provided.

\*All visitors to JPL must go through a **review process** required by JPL and NASA

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