



CALIFORNIA INSTITUTE OF TECHNOLOGY
Division of Engineering and Applied Science
Division of Geology and Planetary Sciences
Pasadena, California 91125



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

Deep Dive 2024: GMG Codes Overview

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- Installation and demonstration video(s) for each code will be uploaded to the GMG website by January 9th, 2024.
 - Presentation sessions of each code will consist of
 - Code overview
 - Demonstration
 - Q&A.

Day 1 - January 17, 2024

Agenda details (8:00 am -10:30 am, PST)

| | |
|----------------|--|
| 8:00 - 8:15 am | Welcome Remarks |
| 8:15 - 9:15 am | Flow2Quake, Modular Workflow for Earthquake Forecasting 1 Package 1: Groningen models Reservoir (single-phase) → Mechanical → Seismicity |
| 9:15 - 9:30 am | Break |
| 9:30- 10:30 am | Flow2Quake, Modular Workflow for Earthquake Forecasting 2 Package 2: Arbitrary-shaped reservoir models Reservoir (multi-phase) → Mechanical |



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Deep Dive 2024: GMG Codes Overview

Day 2 - January 18, 2024

Agenda details (8:00 am -10:30 am, PST)

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|-----------------|---|
| 8:00 - 9:00 am | Quake-DFN |
| 9:00 - 9:15 am | Break |
| 9:15 - 10:15 am | BICycle code for simulating fluid-induced fault slip |
| 10:15-10:30 am | Closing Remarks |