



# INTERNATIONAL GEOMECHANICS CONFERENCE

17-19 NOVEMBER 2026  
CHENGDU, CHINA

## CALL FOR ABSTRACTS



**SUBMISSION DEADLINE**  
31 MAY 2026

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## CONFERENCE OVERVIEW

### GEOMECHANICS: INNOVATIONS AND SOLUTIONS FOR ENERGY, ENVIRONMENT, AND DEEP SPACE

Now in its 7th edition, the International Geomechanics Conference embarks on its first foray into China, hosted by Chengdu University of Technology and co-hosted by China National Petroleum Corporation. IGS 2026 brings together a multidisciplinary community of researchers, engineers, and practitioners to exchange ideas, methods, and case studies addressing complex geomechanical challenges.

#### Focus Areas

- Energy Transition & Sustainable Resource Systems
- Geohazards, Environment & Infrastructure
- Extreme Environments, Fundamentals & Digital Innovation

*We invite all industry professionals, academia, and students who are interested to their present their findings, exchange ideas and share their challenges on all aspects related to geomechanics. Don't miss this opportunity to connect, collaborate, and contribute to the future of geomechanics!*

## ABSTRACT SUBJECTS

WE INVITE ORAL & POSTER SUBMISSIONS FOR THE FOLLOWING TOPICS:

### PETROLEUM GEOMECHANICS

- Wellbore Stability, Pore Pressure Prediction, Wellbore Strengthening
- Well Integrity, Casing Damage
- Completion Geomechanics
- Hydraulic Fracturing: Modeling, Lab, Monitoring, Diagnostics, Operations
- Sand Production, Sand Control & Management
- Real-time Geomechanics
- Natural Fracture Characterization
- Induced Seismicity
- 3D Coupled Reservoir Geomechanics for Field Development
- Production & Depletion Geomechanics
- Advancements in Geomechanical Monitoring Technologies
- Geomechanics for Carbonates
- Geomechanics for Tight Reservoirs & Unconventionals
- Geomechanics for Water Injection & Enhanced Oil Recovery
- Integrated Studies: Geology, Geophysics, Geomechanics, Engineering
- Ultra-Deep Drilling and Stimulation
- Deep Coalbed Methane Geomechanics
- AI in Petroleum Geomechanics

### ENVIRONMENT AND GEOHAZARD PREVENTION

- Geomechanics for Coastal Protection
- Landslides & Engineering Slopes
- Seismic & Earthquakes
- Geohazard Monitoring and Early Warning
- Geohazard Reduction, Mitigation, and Prevention
- Multi-Scale Modeling, Digital Twin, and Information Technology
- Human Activities and Geo-Environment
- Waste Disposal & Management
- Extreme Environments and Major Infrastructures

### MINING ROCK MECHANICS

- Sustainable Mining of Rare Earth Elements
- Ore Genesis, Critical Elements & Rock Mass Variability
- Groundwater Resource Management
- Zero Waste Mining & the Circular Economy
- In-situ Mining
- Trends of Deeper, Hotter & Robotic Mining/Excavation
- Underground Batteries – Pumped Hydro & Compressed Air Energy Storage
- Surface Mining & In-pit Waste Disposal
- Rock Fragmentation Mining Techniques



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### HOSTS



### PARTNERS



## GEOHERMAL AND NEW ENERGIES SYSTEMS

- Deploying Geothermal Energy Around the Globe
- Case Studies & Future Technologies
- Enhanced Geothermal Systems (EGS): Design & Engineering
- Retrofitting Oil & Gas Wells – The New Frontier?
- Joint Development of Geothermal & Solution Mining
- Characterization & Mitigation of Induced Seismic Risks
- Drilling Mechanics in Geothermal Environments
- Advances in Closed-loop Geothermal Systems

## CO<sub>2</sub> SEQUESTRATION AND UTILIZATION

- Reservoir Characterization
- Experimental Characterization under Multiphysical Loading
- Geomechanics Based Risk Analysis
- Coupled Thermo-Poro-Mechanical & Geochemical Processes
- Containment Risks
- Thermal Effect & Modeling
- Induced Seismicity Risk
- Field Case Study & Monitoring Program for Geomechanical Risks
- AI and Data-Driven Solutions for Modeling, Monitoring, and Management

## SUBSURFACE HYDROGEN AND ENERGY STORAGE

- Coupled Thermo-Chemo-Poro-Mechanical Modelling of Underground Storage
- Laboratory Characterization of Hydrogen Impact on Geomechanical Properties of Rocks
- Hysteresis & Stress Path Analysis During Underground Storage
- Characterization & Mitigation of Induced Seismic Risks
- Containment Risks
- Geomechanics Applications in Natural Hydrogen Exploration
- Seal Integrity for Hydrogen Storage & Exploration
- Geomechanics of Salt Caverns
- Geomechanical Evaluation of Faults & Fractures for Underground Storage
- Case Studies of Hydrogen & Gas Storage

## FUNDAMENTAL GEOMECHANICS

- In-situ Stress
- Pore Pressure Prediction
- Rock Measurements & Characterization
- Time Dependent & Viscoplastic Rock Behavior
- Rock Physics, Digital Rock
- Shear Physics & Frictional Dynamics
- Structural Geomechanics, Tectonics
- Fault Hydromechanical Behavior – In-situ Data and Modelling
- Seal Capacity
- Coupled Thermo-Chemical-Hydro-Mechanical Processes
- AI and Data Science in Geomechanics
- Constitutive Modeling & Failure Criteria
- Fracture Mechanics
- Poromechanics and Multiphases
- Multi-Scale Geomechanics: from Nano to Field
- Experimental Geomechanics: Lab Investigations
- Seismo-mechanics & Faults
- Wave Propagation & Rock Response

## GEOTECHNICS

- Advances in Soil Characterization
- Advances in Geotechnical Design of Energy Structures
- Geotechnics of Off-shore Energy Structures
- Geotechnics of Onshore & Offshore Energy Pipelines
- Urban Underground Space
- Urban and Marine Geophysics
- Intelligent Technology and Digital Underground MINING ROCK MECHANICS
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