

**AL KHOBAR, SAUDI ARABIA**

# INTERNATIONAL GEOMECHANICS SYMPOSIUM

**30 OCTOBER–2 NOVEMBER 2023**

## CALL FOR ABSTRACTS

**CLOSES 31 MAY 2023**

Please e-mail the abstract and the call for abstracts form to [aklerk@seg.org](mailto:aklerk@seg.org)

## REGISTRATION

Registration will open by 1 July 2023

## SYMPOSIUM OVERVIEW

**Theme: The Role of Geomechanics for Efficient and Sustainable Energy Supply**

American Rock Mechanics Association (ARMA), Dhahran Geoscience Society (DGS), Society of Exploration Geophysicists (SEG), American Association of Petroleum Geologists (AAPG), China Society of Rock Mechanics and Engineering (CSRME), Society of Petroleum Engineers (SPE), and Society of Petrophysicists and Well Log Analysts (SPWLA) are pleased to announce the 2023 International Geomechanics Symposium, to be held from 30 October – 2 November, 2023 in Al Khobar, the Kingdom of Saudi Arabia.

The multi-society multi-discipline multi-industry event will focus on the role of Geomechanics for Efficient and Sustainable Energy Supply. The symposium will kick off with a legacy training program, "Rock with Fellows", offered by Priscilla Nelson on Mining (Colorado School of Mines), Maurice Dusseault on Energy Storage (University of Waterloo), and John McLennan on Geothermal (University of Utah), as well as a keynote by Mark Zoback on Unconventional Resources (Stanford University). The summit will be an international festival for all rock jockeys from operators, technology developers, service providers, researchers, educators, and students.

## ABSTRACT SUBJECTS

We invite oral & poster submissions for the following topics:

- **CO2 Sequestration and Utilization**
- **Subsurface Hydrogen and Energy Storage**
- **Fundamental Geomechanics**
  - In-Situ Stress
  - Pore Pressure Prediction
  - Rock Measurements and Characterization
  - Time Dependent and Viscoplastic Rock Behavior
  - Rock Physics, Digital Rock
  - Shear Physics and Frictional Dynamics
  - Structural Geomechanics, Tectonics
  - Fault Hydromechanical Behavior - In Situ Data and Modelling
  - Artificial Intelligence and Data Science in Geomechanics
- **Petroleum Geomechanics**
  - Geomechanics for Carbonates
  - Geomechanics for Tight Reservoirs and Unconventionals
  - Integrated Studies (geology, geophysics, geomechanics, engineering)
  - Seismic Geomechanics
  - Drilling Geomechanics
  - Well Integrity
  - Completion Geomechanics
  - Hydraulic Fracturing (Modeling, Lab, Monitoring, Diagnostics, Operations)
  - Natural Fracture Characterization
  - 3D Reservoir Geomechanics for Field Development
  - Production and Depletion Geomechanics
- **Mining Rock Mechanics**
  - Sustainable Mining of Rare Earth Elements
  - Ore Genesis And Critical Elements and Rock Mass Variability
  - Groundwater Resource Management
  - Zero Waste Mining and the Circular Economy
  - In-Situ Mining
  - Trends Of Deeper, Hotter and Robotic Mining Excavation
  - Underground Batteries - Pumped Hydro and Compressed Air Energy Storage
  - Surface Mining and In-Pit Waste Disposal
- **Geomechanics for Geothermal and New Energies Systems**
  - Deploying Geothermal Energy: Opportunities and Challenges in the Middle East and Africa
  - Geothermal Resource Development: Case Studies and Future Technologies
  - Enhanced Geothermal Systems (EGS): Design and Engineering
  - Retrofitting Oil and Gas Wells – The New Frontier?
  - Joint Development of Geothermal and Solution Mining

## PRINT IN BLACK INK OR TYPE

Dr.  Mr.  Ms.

Full Name \_\_\_\_\_ Job Title: \_\_\_\_\_

Company/Organization \_\_\_\_\_

Mailing Address \_\_\_\_\_

City & State \_\_\_\_\_

Country \_\_\_\_\_

Business Phone \_\_\_\_\_ Email: \_\_\_\_\_

Are you a student?  Yes  No

Subject \_\_\_\_\_

Submission for:  Only presentation at symposium  Only publication  Presentation and publication

If submitting for presentation, please select the type:  Oral  Poster  Both

**NOTE:** The mechanical recording of any portion of the symposium in any form (photographic, electronic, etc.) is strictly prohibited. Printed reference to the symposium presentations or discussions is not permitted without the consent of the parties involved. All participants are requested to omit public reference to the symposium proceedings in any published work or oral presentation. Only registrants are permitted to attend symposium sessions. In the event the presentation incorporates copyrighted material of others, the presenter warrants that all required permissions or releases have been secured. The presenter agrees to indemnify, defend, and hold the organisers, its directors, officers, employees, and agents harmless against any claims to the contrary.

**Each participant agrees to these regulations when application is accepted, as indicated by his or her signature on this form.**

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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### EXECUTIVE COMMITTEE:

**Gang Han**, ARMA – Committee Co-Chair; **Mohammed Badri**, SEG – Committee Co-Chair; **Musab Modrra**, DGS- Committee Chair; **Osman Hamid**, Saudi Aramco, – Committee Co-Chair; **Abdulaziz Nuaim**, SPE; **Abdullah Saad Sultan**, KFUPM; **Abdulrahman Nutaifi**, Saudi Aramco; **Fengshou Zhang**, CSRME; **Jennifer Market**, SPWLA; **Peter Smeallie**, ARMA; **Ronald McGinnis**, AAPG; **Yogaani Bhatia**, SEG

### ORGANIZING COMMITTEE:

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**FOR MORE INFORMATION ON COMMITTEE MEMBER DETAILS, PLEASE REFER TO THE WEBSITE**

### HOSTS



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# SYMPOSIUM

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