

55th U.S. Rock Mechanics / Geomechanics Symposium

Houston, Texas, 20-23 June 2021

INVITATION TO TEXAS

The American Rock Mechanics Association invites you to its 55th U.S. Rock Mechanics / Geomechanics Symposium in Houston, Texas, on 20-23 June, 2021. The technical program will focus on advances and innovative applied research in rock mechanics and geomechanics. Technical tours and field trips are planned. Short courses and workshops will be held prior to the symposium. Details will be provided on the symposium web site texas2021.armacocks.org as they become available.

The city of Houston leads the reinvention of our Energy Resources and is the No. 1 place to work in 2020 (*CE Magazine*). The symposium will take place in The Woodlands Waterway Marriott Hotel & Convention Center, which is conveniently located near George Bush Intercontinental Airport (IAH). The Woodlands offer an extensive network of waterways, walking and biking trails, and a wide range of dining and shopping options. Day-trip options include the Houston museum district and NASA's Johnson Space Center. Rooms at the venue hotel will be available to participants at reduced rates.

SUBJECT AREAS

This symposium encompasses all aspects of rock mechanics, geomechanics, and rock engineering. We invite scientific and engineering papers in six major tracks:

Civil
Mining
Geothermal

Petroleum - Conventional
Petroleum - Unconventional
Interdisciplinary

Topics of interest include:

Geomechanics in cultural heritage
Tunneling and underground infrastructure
Slope stability, dams, and foundations
Geohazards: risk assessment and mitigation
Innovative laboratory and field testing
Discrete fracture systems
Numerical modeling of geostructures
Mine-scale numerical modeling
Induced seismicity and rockbursting
Ground control in coal and rock mining
Geomechanics and geothermal resources

AI and big data in geomechanics
Imaging technologies, non-destructive testing
Relating geology and geomechanics
Coupled processes in geomechanics
Visualization, AR, and VR in geomechanics
Uncertainty assessment and management
Unconventional resources in geomechanics
Reservoir characterization and simulation
Drilling mechanics and engineering
Underground storage and utilization
Hydraulic fracturing

CALL FOR ABSTRACTS

Abstracts in English, 250-300 words, can be submitted online at:

<https://texas2021.armacocks.org>

Abstracts should include a brief description of the work performed, results, and significance. Figures may be included to explain the abstract. All abstracts will be peer-reviewed by experts in the respective subject areas through an online process.

Organizing committee

Chairs

Maria Nikolinakou The University of Texas at Austin
Gang Han Aramco Americas

Technical committee

Yi (Alec) Yang Shell (Chair)
Lauren Boyd U.S. Department of Energy (Geothermal)
John McLennan The University of Utah (Geothermal)
Romain Prioul Schlumberger (Petroleum - Conventional)
Robert Hurt Pioneer (Petroleum - Unconventional)
Rita Sousa Stevens Institute of Technology (Civil)
Jeffrey Oke RockEng (Mining)
Shugang Wang Chevron (Interdisciplinary)
Yida Zhang University of Colorado, Boulder (Interdisciplinary)
Anahita Modirarsi WSP (Posters)
Jincai (Jon) Zhang SINOPEC (Posters)

Program, outreach, exhibits

Tom Doe Golder Associates (Keynotes)
Matt Ingraham Sandia National Laboratories (Awards)
Marisela Sanchez-Nagel Oilfield Geomechanics (Field Trips)
Alexei Savitski Shell (Workshops)
Reza Safari ConocoPhillips (Outreach)
Sergio Sarmiento Repsol (Outreach)
Abhijit Mitra MetaRock (Exhibits)
Umesh Prasad Baker Hughes (Exhibits)

International chairs

Varela Raul Tecpetrol (Latin and South America)
Claudia Teran YPF (Latin and South America)
Xiaodong Ma ETH Switzerland (Europe)
Euripides Papamichos SINTEF (Europe)
Osman Hamid Saudi Aramco (Middle East)
Abdelwahab Noufal ADNOC (Middle East)
Weiguo Liang Taiyuan University of Technology (China)
Mao Sheng China University of Petroleum - Beijing (China)
Chee Phuat Tan Petronas (Southeast Asia)

Student activities

Landon Lockhart The University of Texas at Austin
Huejia Du University of Houston
Oladoyin Kolawole Texas Tech

Important deadlines

Abstract submission – 10 November 2020
Notification to authors – 8 January 2021
Paper submission – 25 February 2021

Professional Development Hours (PDH) will be available for the symposium.

Contact

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