

Symposium Program
58th Rock Mechanics / Geomechanics Symposium

Saturday, 22 June 2024	
TIME	EVENT
7:30 am - 5:00 pm	Registration Marriott Denver West Lobby
8:00 am - 5:00 pm	TT1 - Technical Tour: The Northern Colorado Front Range Geology Meet in Denver Marriott West Lobby
8:00 am - 5:00 pm	TT2 - Technical Tour: Hydraulic Fracturing Site Tour Meet in Denver Marriott West Lobby
8:00 am - 5:00 pm	SC1 - Short Course: Mining Induced Seismicity Beaver Creek, Marriott Denver West
7:00 pm - 9:00 pm	ARMA Board of Directors/Staff Dinner Telluride, Marriott Denver West
Sunday, 23 June 2024	
7:00 am - 1:00 pm	Registration Marriott Denver West Lobby
8:00 am - 5:00 pm	TT3 - Technical Tour: Colorado Front Range Geohazards Meet in Denver Marriott West Lobby
8:00 am - 5:00 pm	SC2 - Short Course: Deformation-based Support Design and Rockburst Hazard Assessment Salon A, Marriott Denver West
8:00 am - 5:00 pm	SC3 - Numerical Modeling in Rock Mechanics Salon B, Marriott Denver West
8:00 am - 5:00 pm	WS1 - Workshop: Distributed Fiber Optic Sensing for Geomechanical Applications Salon E, Marriott Denver West
9:00 am - 12:00 pm	WS2 - Workshop: NSF Program Director Session Salon D, Marriott Denver West
1:00 pm - 5:00 pm	WS3 - Workshop: Fundamentals of Experimental Rock Mechanics Salon D, Marriott Denver West

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Sunday, 23 June 2024 (Continued)	
12:00 pm - 5:00 pm	Exhibits Set Up Green Center - Lobby
1:00 pm - 5:00 pm	ARMA Board of Directors Meeting Green Center, Ted Adams Room
3:00 pm - 8:00 pm	Registration Green Center - Lobby
6:00 pm - 6:30 pm	Opening Session Green Center - Bunker Auditorium
6:30 pm - 7:30 pm	4th ARMA Distinguished Lecture: Peter Kaiser, GeoK Inc., "From common to best practices in rock engineering" Green Center - Bunker Auditorium
7:30 pm - 9:00 pm	Opening Reception Green Center - Lobby

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Monday, 24 June 2024					
TIME	EVENT				
7:15 am - 6:00 pm	Registration Green Center - Lobby				
7:30 am - 8:20 am	Podium Presenters' Breakfast Under Tent				
7:30 am - 8:30 am	Posters Mounted on Display Boards Green Center - Friedhoff Hall				
8:30 am - 10:00 am	CIVIL TRACK	MINING TRACK	PETROLEUM UNCONV TRACK	PETROLEUM CONV TRACK	GEOHERMAL TRACK
	Technical Session Hill Hall 202	Technical Session Green Ctr - Metals Hall	Technical Session Green Ctr - Bunker Aud.	Technical Session Green Ctr - Petroleum Hall	Technical Session CTLM 102
	Numerical Modelling in Geomechanics: Civil Engineering Applications	Experimental mining rock mechanics	Hydraulic Fracturing I - Theoretical And Numerical Modeling	Drilling & completion: Openhole	Geothermal Reservoir Design and Testing
10:00 am - 6:15 pm	Exhibits Open Green Center - Lobby				
10:00 am - 10:20 am	Coffee Break, Exhibits, Posters Green Center - Lobby & Friedhoff Hall				
10:20 am - 10:50 am	Early Career Keynote: Jesse Hampton, University of Wisconsin-Madison, "Connecting the Dots from Microcracks to Megaquakes" Green Center - Bunker Auditorium				
11:00 am - 12:30 pm	CIVIL TRACK	MINING TRACK	PETROLEUM UNCONV TRACK	PETROLEUM CONV TRACK	GEOHERMAL TRACK
	Technical Session Hill Hall 202	Technical Session Green Ctr - Metals Hall	Technical Session Green Ctr - Bunker Aud.	Technical Session Green Ctr - Petroleum Hall	Technical Session CTLM 102
	Innovative testing of rocks and rock- like materials	Case studies in mining geomechanics - I	Hydraulic Fracturing II - Experimentation, diagnostics, and field results	Reservoir Geomechanics I - Analytical and Numerical modeling	Geothermal Reservoir Simulation

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Monday, 24 June 2024 (Continued)					
12:30 pm - 1:30 pm	Lunch Under Tent				
12:30 pm - 1:30 pm	Lunch Meeting of Canadian Rock Mechanics Assn (By Invitation) Green Center, Friedhoff III				
12:30 pm - 1:30 pm	ARMA Student Chapters Council Meeting Green Center, Room 224				
12:30 pm - 1:30 pm	ASCE Rock Mechanics Committee Meeting Green Center, Ted Adams Room				
12:30 pm - 1:30 pm	ARMA Technical Committee on Hydraulic Fracturing Green Center, Room 187				
1:30 pm - 2:20 pm	Keynote: Anna Giacomini, Univ of Newcastle, "Enhancing Safety: Advances in Rockfall Monitoring, Prediction and Mitigation" Green Center - Bunker Auditorium				
2:30 pm - 4:00 pm	Showcase: "Canadian Mining Rock Mechanics (CARMA)" Green Center - Friedhoff Hall			Showcase: "Fiber Optic Sensing" Green Center - Bunker Auditorium	
4:00 pm - 4:15 pm	Coffee Break, Exhibits, Posters Green Center - Lobby & Friedhoff Hall				
4:15 pm - 5:15 pm	CIVIL TRACK	MINING TRACK	PETROLEUM UNCONV TRACK	STORAGE & SEQUESTRATION TRACK	GEO THERMAL TRACK
	Technical Session Hill Hall 202	Technical Session Green Ctr - Metals Hall	Technical Session Green Ctr - Bunker Aud.	Technical Session Green Ctr - Petroleum Hall	Technical Session CTLM 102
	Slope Stability, Dams, and Foundations	Ground support in mining	Wellbore Mechanics	CO2 Utilization & Storage I	Seismicity and Geomechanics in Geothermal Environments
5:15 pm - 6:15 pm	Posters and End-of-Day Reception Green Center - Friedhoff Hall				
6:30 pm - 7:30 pm	Student-Mentor Reception and Meeting Green Center, Friedhoff III				

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Tuesday, 25 June 2024					
TIME	EVENT				
7:15 am - 5:30 pm	Registration Green Center - Lobby				
7:30 am - 8:20 am	Podium Presenters' Breakfast Under Tent				
7:30 am - 8:30 am	Posters Mounted on Display Boards Green Center - Friedhoff Hall				
8:30 am - 10:00 am	CIVIL TRACK	MINING TRACK	PETROLEUM UNCONV TRACK	STORAGE & SEQUESTRATION TRACK	INTERDISCIPLINARY TRACK
	Technical Session Hill Hall 202	Technical Session Green Ctr - Metals Hall	Technical Session Green Ctr - Bunker Aud.	Technical Session Green Ctr - Petroleum Hall	Technical Session CTLM 102
	Tunnels and Underground Structures	Case studies in mining geomechanics - II	Hydraulic Fracturing III - Theoretical And Numerical Modeling	CO2 Utilization & Storage II	Novel evaluation and computational techniques from lab to field
10:00 am - 5:30 pm	Exhibits Open Green Center - Lobby				
10:00 am - 10:30 am	Coffee Break, Exhibits, Posters Green Center - Lobby & Friedhoff Hall				
10:30 am - 12:00 pm	CIVIL TRACK	MINING TRACK	PETROLEUM UNCONV TRACK	STORAGE & SEQUESTRATION TRACK	PETROLEUM CONV TRACK
	Technical Session Hill Hall 202	Technical Session Green Ctr - Metals Hall	Technical Session Green Ctr - Bunker Aud.	Technical Session Green Ctr - Petroleum Hall	Technical Session CTLM 102
	Risk Assessment, Geohazards, and Constitutive Modeling in Rock Mechanics	Numerical modeling for mining applications	Hydraulic Fracturing IV - Experimentation, diagnostics, and field results	Hydrogen Storage	AI/ML and Data Science

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Tuesday, 25 June 2024 (Continued)			
12:00 pm - 1:00 pm	Lunch Under Tent		
12:00 pm - 1:00 pm	Lunch/Induction Meeting of the ARMA Future Leaders (By Invitation) Green Center, Friedhoff III		
12:00 pm - 1:00 pm	ARMA Fellows Lunch (By Invitation) Green Center, Ted Adams Room		
1:00 pm - 1:50 pm	Keynote Address: Tryana Garza-Cruz, Itasca, "Practical Applications of Synthetic Rock Mass Modeling" Green Center - Bunker Auditorium		
2:00 pm - 3:30 pm	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;">Showcase: "Tunneling" Green Center - Friedhoff Hall</td> <td style="width: 50%; text-align: center;">Showcase: "Fault Mechanics" Green Center - Bunker Auditorium</td> </tr> </table>	Showcase: "Tunneling" Green Center - Friedhoff Hall	Showcase: "Fault Mechanics" Green Center - Bunker Auditorium
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3:00 pm - 3:45 pm	ARMA Foundation Board of Directors Meeting Green Center, Ted Adams Room		
3:30 pm - 3:45 pm	Coffee Break, Exhibits, Posters Green Center - Lobby & Friedhoff Hall		
3:45 pm - 4:30 pm	Panel Discussion - Inclusive Mentorship in Rock Mechanics Green Center - Bunker Auditorium		
4:30 pm - 5:30 pm	Posters and End-of-Day Reception Green Center - Friedhoff Hall		
6:30 pm - 9:00 pm	ARMA Banquet Marriott Denver West		

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Wednesday, 26 June 2024					
TIME	EVENT				
7:15 am - 2:15 pm	Registration Green Center - Lobby				
7:30 am - 8:20 am	Podium Presenters' Breakfast Under Tent				
7:30 am - 8:30 am	Posters Mounted on Display Boards Green Center - Friedhoff Hall				
8:30 am - 10:00 am	INTERDISCIPLINARY TRACK	MINING TRACK	PETROLEUM UNCONV TRACK	STORAGE & SEQUESTRATION TRACK	PETROLEUM CONV TRACK
	Technical Session Hill Hall 202	Technical Session Green Ctr - Metals Hall	Technical Session Green Ctr - Bunker Aud.	Technical Session Green Ctr - Petroleum Hall	Technical Session CTLM 102
	Innovative Rock Testing and THMC Coupled Processes	Deep mine stability & induced seismicity	Geomechanics Reservoir Characterization I	Waste Disposal & Storage (Nuclear waste storage & waste water disposal)	Drilling & completion: Cased hole
10:00 am - 12:30 pm	Exhibits Open Green Center - Lobby				
10:00 am - 10:30 am	Coffee Break, Exhibits, Posters Green Center - Lobby & Friedhoff Hall				
10:30 am - 11:20 am	Keynote: B. Lecampion, "Advances in the mechs of fluid-driven ruptures: from hydraulic fractures to fluid-induced fault slip" Green Center - Bunker Auditorium				

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Wednesday, 26 June 2024 (Continued)					
11:30 am - 12:30 pm	Lunch Under Tent				
11:30 am - 12:30 pm	Lunch Meeting of the Golden and Santa Fe Organizing Committees Green Center, Friedhoff III				
12:30 pm - 4:45 pm	Exhibits Tear Down Green Center - Lobby				
12:30 pm - 2:00 pm	Showcase: "Mining Industry Rock Mechanics" Green Center - Friedhoff Hall		Showcase: "Governance Perspectives on CCS & Geothermal" Green Center - Bunker Auditorium		
2:00 pm - 2:15 pm	Coffee Break, Posters Green Center - Lobby & Friedhoff Hall				
2:15 pm - 3:45 pm	INTERDISCIPLINARY TRACK	MINING TRACK	PETROLEUM UNCONV TRACK	STORAGE & SEQUESTRATION TRACK	PETROLEUM CONV TRACK
	Technical Session Hill Hall 202	Technical Session Green Ctr - Metals Hall	Technical Session Green Ctr - Bunker Aud.	Technical Session Green Ctr - Petroleum Hall	Technical Session CTLM 102
	Applications of AI in experimental, numerical, and geophysical rock mechanics	Fundamental rock mechanics, instrumentation and monitoring in mining	Geomechanics Reservoir Characterization II	Geomechanical Challenges in Underground Storage	Reservoir Geomechanics II - Lab experiment
3:45 pm - 4:45 pm	Posters & Closing Reception Green Center - Friedhoff Hall				
Thursday, 27 June 2024					
8:00 am - 5:00 pm	TT4 - Technical Tour: Climax Mine and Edgar Experimental Mine Meet in Denver Marriott West Lobby				