Symposium Program
52nd U .S. Rock Mechanics / Geomechanics Symposium
17 - 20 June, 2018, Seattle, Washington

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Friday, 15 June 20	716	FVI	ENT			
		Technic	al Tour 1			
7:00 am - 6:00 pm Saturday, 16 June	Snoqualmie Powerhouse and I-90 Rock Slope Stability Meet in Westin Seattle Lobby					
•	2018		al Tour 2			
8:00 am - 6:00 pm		Meet in Westin	ars, Tsunamis, and Earthquakes Seattle Lobby			
2:00 pm - 4:00 pm	2049	ARMA Committee on Strate Pike	Room			
Sunday, 17 June 2 7:30 am - 9:00 pm	2018		eakers Ready Room			
			shop			
8:30 am - 4:45 pm	Workshop on Characterizing Induced Seismogenic Potential Fifth Avenue Room Short Course 1					
8:30 am - 4:30 pm	Microstructural Modeling of Rock Fracture: Bonded-Particle Modeling with PFC and Bonded-Block Modeling with 3DEC Whidbey Room					
8:30 am - 4:30 pm	Short Course 2 2D and 3D Modeling of Rock Fracturing Processes in Geomechanics Blakely Room					
9:30 am - 3:30 pm	ARMA Board of Directors Meeting Orcas Room					
2:00 pm - 5:00 pm	Exhibit Set Up/Posters Mounted on Display Boards Grand Ballroom					
5:00 pm - 5:30 pm	Meeting of Student Assistants					
6:00 pm - 6:15 pm	Registration Desk Opening Session					
	Grand Ballroom 10th Annual MTS Lecture					
6:15 pm - 7:15 pm	H. Sebnem Duzgun, Professor and Fred Banfield Distinguished Endowed Chair in Mining Engineering, Colorado School of Mines					
7:15 pm - 8:30 pm Monday, 18 June 2	Opening Reception and Exhibits Lecture and Reception Sponsored by MTS Systems Corporation					
7:00 am - 6:45 pm	Registration and Speakers Ready Room					
7:00 am - 7:50 am	Delegate Lanyards Sponsored by Rocscience Author's Breakfast Puget Sound Room					
	Track A Fifth Avenue Room	Track B Cascade Ballroom I	Track C Cascade Ballroom II	Track D Elliot Bay		
8:00 am - 9:30 am	Technical Session 1	Technical Session 5	Technical Session 9	Technical Session 13		
	Geomechanics of Unconventionals	Geotechnical Laboratory and Field Testing	Experimental Studies	Geomechanics in Geothermal Processes		
8:30 am - 4:30 pm	Exhibits Open Grand Ballroom					
9:30 am - 12:30 pm		Special	Activity			
9:30 am - 10:00 am	Seattle Sights Bus Tour Coffee Break, Exhibits					
		Keynote	older Associates Address			
10:00 am - 10:50 am	Tony Dell, Engineering Specialist-Geotechnical, SNC Lavalin Grand Ballroom					
	Track A Fifth Avenue Room	Track B Cascade Ballroom I	Track C Cascade Ballroom II	Track D Elliot Bay		
11:00 am - 12:30 pm	Technical Session 2	Technical Session 6	Technical Session 10	Technical Session 14		
	Hydraulic Fracturing Modeling	General Geomechanics	Advances in the Simulation of Damage and Fracturing Processes in Rocks and Rock Masses I	Seismicity in Mining		
12:30 pm - 1:30 pm	Lunch on Your Own					
12:30 pm - 1:30 pm	Lunch Meeting of the ARMA Publications Committee Whidbey Room					
12:30 pm - 1:30 pm	Lunch Meeting of the ARMA Technical Committee on Hydraulic Fracturing Blakely Room					
12:30 pm - 1:30 pm	Meeting of the ASCE Rock Mechanics Committee Vashon Room					
2:00 pm - 3:30 pm	Technical Session 3	Technical Session 7	Technical Session 11	Technical Session 15		
	Heavy Oil Geomechanics	New Developments in Geomechanics	Advances in the Simulation of Damage and	Ground Control in Coal Mining		
3:30 pm - 4:30 pm	Technical Poster Session, Exhibits, Coffee Break					
		Track B	Track C	Track D		
	Track A	110001	Connects Dall	PHILL Pro-		
4:30 pm –6:00 pm	Fifth Avenue Room	Cascade Ballroom I	Cascade Ballroom II Technical Session 12	Elliot Bay Technical Session 16		
4:30 pm –6:00 pm		110001	Cascade Ballroom II Technical Session 12 Developments in Backfilling Mining Stopes	Technical Session 16 Induced Seismicity and Microsesimic Monitoring		

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Tuesday, 19 June	2018						
TIME	EVENT						
7:00 am - 6:30 pm	Registration and Speakers Ready Room Author's Breakfast						
7:00 am - 7:50 am	Puget Sound Room						
	Track A Fifth Avenue Room	Track B Cascade Ballroom I	Track C Cascade Ballroom II	Track D Elliot Bay			
8:00 am - 9:30 am	Technical Session 17	Technical Session 21	Technical Session 25	Technical Session 29			
	Casing/Cement/Formation Interactions	Hydraulic Fracturing Experimental	Slope Stability in Mines	Rock Physics and Geophysics for Integrated Geomechanical Characterization			
8:30 am - 4:30 pm	Exhibits Open Grand Ballroom						
9:30 am - 10:00 am	Coffee Break, Exhibits Sponsored by Golder Associates						
10:00 am - 10:50 am	2nd ARMA Distinguished Lecture Charles Fairhurst, Professor Emeritus, University of Minnestota Grand Ballroom						
10:30 am - 1:30 pm	Special Activity Guided Food and Historic Walking Tour of Pike Place Market						
11:00 am - 12:30 pm	Technical Session 18	Technical Session 22	Technical Session 26	Technical Session 30			
	Salt and Injection Geomechanics	Hydraulic Fracturing Geomechanics I	Slope Stability, Dams and Foundations	Imaging Technologies for Geomechanics			
12:30 pm - 2:00 pm	Lunch (on your own)						
12:30 pm - 2:00 pm	Lunch Meeting of the ARMA Future Leaders (By Invitation) Whidbey Room						
	Track A Fifth Avenue Room	Track B Cascade Ballroom I	Track C Cascade Ballroom II	Track D Elliot Bay			
2:00 pm - 3:30 pm	Technical Session 19	Technical Session 23	Technical Session 27	Technical Session 31			
	Hydraulic Fracturing Geomechanics II	Experimental, Hydrothermal and Biological Rock Mechanics	Mining Case Histories	AE and NDE Techniques for Material and Microcrack Characterization			
3:30 pm - 4:30 pm	Technical Poster Session, Exhibits, Coffee Break						
4:30 pm ~6:00 pm	Technical Session 20	Technical Session 24	Technical Session 28	Technical Session 32			
4.30 pm ~0.00 pm	Hydraulic Fracturing Special: Acid and Refrac	Lab Studies: Unconventionals	Case Histories-Civil Engineering Projects	AE for Lab Scale Fracturing Monitoring and Microcrack Detection			
7:30 pm - 9:30 pm	ARMA Awards Banquet Sponsored by Agapito Associates, Inc. Grand Ballroom						
Wednesday, 20 Ju	une 2018						
7:00 am - 2:00 pm	Registration and Speakers Ready Room						
7:00 am - 7:50 am		Author's Puget So	Breakfast und Room				
	Track A Fifth Avenue Room	Track B Cascade Ballroom I	Track C Cascade Ballroom II	Track D Elliot Bay			
8:00 am - 9:30 am	Technical Session 33	Technical Session 37	Technical Session 41	Technical Session 45			
	Formation Laboratory Evaluations I	Tunnels and Underground Structures	Wellbore Stability I	Coupled Processes, Fluid-driven Fracture, Caprock Integrity			
8:30 am - 4:30 pm	Exhibits Open Grand Ballroom						
9:30 am - 10:00 am		Coffee Brea Sponsored by G	ak, Exhibits older Associates				
10:00 am - 10:50 am	Keynote Address Andrew Bunger, Assistant Professor, University of Pittsburgh Grand Ballroom						
	Technical Session 34	Technical Session 38	Technical Session 42	Technical Session 46			
11:00 am - 12:30 pm	Formation Laboratory Evaluations II	Numerical Modeling of Civil Engineering Projects	Wellbore Stability II	Pore-scale, Micro, and Nano Rock Mechanics			
12:30 pm - 2:00 pm	Lunch (on your own)						
12:30 pm - 2:00 pm	Lunch Meeting of the Seattle and New York Organizing Committees Whidbey Room						
2:00 pm - 3:30 pm	Technical Session 35	Technical Session 39	Technical Session 43	Technical Session 47			
	Formation Stress Evaluations	Numerical Modelling in Geomechanics I	Drilling General and Bit Geomechanics	CO2 and CBM Geomechanics			
3:30 pm - 4:30 pm	Technical Poster Session, Coffee Break, Exhibits						
4:20 pm 6:00 mm	Technical Session 36	Technical Session 40	Technical Session 44	Technical Session 48			
4:30 pm 6:00 pm							
4:30 pm - 6:00 pm	Hydraulic Fracturing Stress Evaluations	Numerical Modelling in Geomechanics II	Ground Control in Hard Rock Mining	Injection Geomechanics			