

Symposium Program

47th U .S. Rock Mechanics / Geomechanics Symposium 21-27 June, 2013, San Francisco, CA

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Friday, 21 June 2013	
TIME	EVENT
8:00 am - 10:00 am	Registration--2nd Floor Marble Registration Desk
8:30 am - 5:00 pm	<i>Workshop 1--Metropolitan I</i> 3rd Workshop on Geomechanics Solutions for Environmental and Technical Challenges in Unconventional Resources
Saturday, 22 June 2013	
7:30 am - 10:00 am	Registration--2nd Floor Marble Registration Desk
8:00 am - 5:00 pm	<i>Workshop 2--Metropolitan I</i> ISRM-ARMA Workshop on Petroleum Geomechanics Testing
8:30 am - 4:30 pm	<i>Short Course 1--Commonwealth</i> Reliability Engineering for Tunnel Construction
8:30 am - 5:00 pm	<i>Short Course 2--City Room</i> Geomechanical Considerations for Unconventional Hydrocarbon Developments: Evaluating the Role of Natural Fractures and Microseismicity
9:30 am - 6:30 pm	<i>Technical Tour 1--Assemble in 1st Floor Hotel Lobby</i> Santa Cruz Geology

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Sunday, 23 June 2013	
7:30 am - 9:00 pm	Registration and Speakers Ready Room-- <i>2nd Floor Marble Registration Desk</i>
8:30 am - 4:00 pm	ARMA Board of Directors Meeting <i>Victorian Room, Westin St. Francis on Union Square</i>
8:00 am - 5:00 pm	<i>Technical Tour 2--Assemble in 1st Floor Hotel Lobby</i> San Francisco Bay Geological Engineering Tour
9:00 am - 4:00 pm	<i>Short Course 4--City Room</i> Numerical Modeling of Cave Mining
10:00 am - 11:00 am	ASCE Rock Mechanics Committee Meeting-- <i>Boardroom</i>
11:30 am - 3:30 pm	<i>Special Activity 1--Assemble in 1st Floor Hotel Lobby</i> Tour of Alcatraz
2:00 pm - 5:00 pm	Exhibit Set Up-- <i>Metropolitan III</i>
6:00 pm - 6:20 pm	Opening Session-- <i>Metropolitan I & II</i>
6:20 pm - 7:00 pm	<i>MTS Lecture--Metropolitan I & II</i> Peter Flemings, "The Science of Pore Pressure Prediction in the Deepwater"
7:00 pm - 9:00 pm	Opening Reception and Exhibits-- <i>Metropolitan III</i> <i>Sponsored by MTS Systems Corporation</i>

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Monday, 24 June 2013				
TIME	EVENT			
7:00 am - 6:45 pm	Registration and Speakers Ready Room--2nd Floor Marble Registration Desk			
7:00 am - 7:50 am	Speaker's Breakfast--City, Commonwealth, Cornell			
8:00 am - 9:30 am	Technical Session 1--Metropolitan I	Technical Session 2--Stanford	Technical Session 3--Metropolitan II	Technical Session 4--Franciscan
	<i>Experimental Rock Mechanics I - Shale and Mudrocks</i>	<i>Mine Seismicity</i>	<i>CO2 Sequestration and Utilization</i>	<i>Rock Slopes I</i>
9:30 am - 4:30 pm	Exhibits Open--Metropolitan III			
9:30 am - 10:00 am	Coffee Break, Exhibits--Metropolitan III <i>Sponsored by Metarock Laboratories, Inc.</i>			
10:00 am - 10:50 am	Plenary Address--Metropolitan I & II Larry Myer, "Geological Carbon Sequestration"			
11:00 am - 12:30 pm	Technical Session 5--Metropolitan I	Technical Session 6--Stanford	Technical Session 7--Metropolitan II	Technical Session 8--Franciscan
	<i>Reservoir Geomechanics I</i>	<i>Deep Mine Rock Mechanics</i>	<i>Transport and Coupled Processes in Fractures</i>	<i>Rock Slopes II</i>
12:30 pm - 2:00 pm	Lunch on your own			
12:30 pm - 2:00 pm	Lunch Meeting of the ARMA Publications Committee--Boardroom			
12:30 pm - 2:00 pm	Special Activity 2--Assemble in 1st Floor Hotel Lobby Multi-course Lunch at M.Y. China			
2:00 pm - 3:30 pm	Technical Session 9--Metropolitan I	Technical Session 10--Stanford	Technical Session 11--Metropolitan II	Technical Session 12--Franciscan
	<i>Wellbore Stability</i>	<i>Numerical Modeling In Coal Mines</i>	<i>Thermal, Hydrological, Mechanical, Chemical and Biological Influences upon Rock</i>	<i>Constitutive Models</i>
3:30 pm - 4:30 pm	First Poster Session, Career Corner, Exhibits, Coffee and Light Refreshments--Metropolitan III and Olympic, Concordia <i>Coffee Break Sponsored by Golder Associates Tunnel and Grouting Group</i> <i>Poster Session Sponsored by ConocoPhillips</i>			

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4:30 pm - 6:00 pm	Technical Session 13-- <i>Metropolitan I</i>	Technical Session 14-- <i>Stanford</i>	Technical Session 15-- <i>Metropolitan II</i>	Technical Session 16-- <i>Franciscan</i>
	<i>Coupled Process Models I</i>	<i>Geomechanical Challenges Associated with Geothermal Drilling, Stimulation and Production I</i>	<i>Geologic Repository Issues for Nuclear Waste Disposal</i>	<i>Laboratory-Scale Rock Mechanics</i>
6:00 pm - 6:30 pm	Career Corner-- <i>2nd Floor Prefunction Lobby</i>			
6:30 pm - 7:30 pm	Student Trivia Contest (Cash Award)-- <i>2nd Floor Prefunction Lobby</i>			
6:30 pm - 7:30 pm	Itasca 3DEC Reception-- <i>Metropolitan III</i> <i>By Invitation</i>			
7:00 pm - 9:45 pm	ARMA Fellows Dinner and Meeting Farallon Restaurant, 450 Post Street			

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Tuesday, 25 June 2013				
TIME	EVENT			
7:00 am - 6:30 pm	Registration and Speakers Ready Room--2nd Floor Marble Registration Desk			
7:00 am - 7:50 am	Speaker's Breakfast--City, Commonwealth, Cornell			
8:00 am - 9:30 am	Technical Session 17--Metropolitan I	Technical Session 18--Stanford	Technical Session 19--Metropolitan II	Technical Session 20--Franciscan
	<i>Unconventionals I</i>	<i>Ground Control I</i>	<i>Rock Physics and Geophysics</i>	<i>Discrete Geomechanics I</i>
9:00 am - 1:00 pm	Special Activity 3--Assemble in 1st Floor Hotel Lobby San Francisco Highlights			
9:30 am - 4:30 pm	Exhibits Open--Metropolitan III			
9:30 am - 10:00 am	Coffee Break, Exhibits--Metropolitan III <i>Sponsored by Golder Associates Mining Services</i>			
10:00 am - 10:50 am	Plenary Address--Metropolitan I & II Chris Breeds, "History of the Mediterranean Sea to Dead Sea Canal Project and Current Concepts for Restoration of the Dead Sea and Lower Jordan River"			
11:00 am - 12:30 pm	Technical Session 21--Metropolitan I	Technical Session 22--Stanford	Technical Session 23--Metropolitan II	Technical Session 24--Franciscan
	<i>Fracture Mechanics I</i>	<i>Ground Control II</i>	<i>Rock Heterogeneity and Scaling</i>	<i>Discrete Geomechanics II</i>
12:30 pm - 2:00 pm	Lunch on your own			
12:30 pm - 2:00 pm	Lunch Meeting of the ARMA Future Leaders--Commonwealth "The Changing Energy Picture: The Role of Rock Mechanics and ARMA", Sid Green, ARMA Fellow/Schlumberger Senior Advisor/Univ. of Utah Research Professor <i>Sponsored by TerraTek, a Schlumberger Company</i>			
2:00 pm - 3:30 pm	Technical Session 25--Metropolitan I	Technical Session 26--Stanford	Technical Session 27--Metropolitan II	Technical Session 28--Franciscan
	<i>Pore Pressure and Stress</i>	<i>Coal Mine Rock Mechanics</i>	<i>Acoustic Emissions</i>	<i>Rock Mass Characterization and Ground Improvement</i>
3:30 pm - 4:30 pm	Second Poster Session, Career Corner, Exhibits, Coffee and Light Refreshments--Metropolitan III and Olympic, Concordia <i>Sponsored by ConocoPhillips</i>			
4:30 pm - 6:00 pm	Technical Session 29--Metropolitan I	Technical Session 30--Stanford	Technical Session 31--Metropolitan II	Technical Session 32--Franciscan
	<i>Experimental Rock Mechanics II - Sand</i>	<i>Coupled Process II</i>	<i>Geomechanical Challenges Associated with Geothermal Drilling, Stimulation and Production II</i>	<i>Tunnels and Caverns I</i>
7:15 pm - 9:30 pm	ARMA Awards Banquet San Francisco Marriott Marquis Hotel, 780 Mission Street (one block from Westin) President's Address, Antonio Bobet; Awards; Minneapolis 2014, Joe Labuz <i>Sponsored by Agapito Associates, Inc.</i>			

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Wednesday, 26 June 2013				
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7:00 am - 2:00 pm	Registration and Speakers Ready Room--2nd Floor Marble Registration Desk			
7:00 am - 7:50 am	Speaker's Breakfast--City, Commonwealth, Cornell			
8:00 am - 9:30 am	Technical Session 33--Metropolitan I	Technical Session 34--Stanford	Technical Session 35--Metropolitan II	Technical Session 36--Franciscan
	Fracture Mechanics II	Production in Weak Rock, Evaporites and Caving	New Developments in Computational Rock Mechanics	Dams and Foundations
9:30 am - 12:00 noon	Exhibits Open--Metropolitan III			
9:30 am - 10:00 am	Coffee Break Sponsored by Golder Associates FracMan Technology Group			
10:00 am - 10:50 am	Plenary Address--Metropolitan I & II Erik Eberhardt, "Large Slope Failures; Monitoring Failures Over Time"			
11:00 AM - 12:30 PM	Technical Session 37--Metropolitan I	Technical Session 38--Stanford	Technical Session 39--Metropolitan II	Technical Session 40--Franciscan
	Reservoir Geomechanics II	Tunnels and Caverns II	High Performance Computing: The Challenge of Harnessing HPC for Rock Mechanics	Fracture Statistics and Rock Mass Measures
12:30 pm - 2:00 PM	Technical Session 41--Metropolitan I	Technical Session 42--Stanford	Technical Session 43--Metropolitan II	Technical Session 44--Franciscan
	Unconventionals II	Experimental Rock Mechanics III - Novel Rocks and Testing Methods	Uncertainty Quantification and Parameter Estimation in Geomechanics	Rock Mass Strength and Deformability
2:00 PM - 2:15 PM	Closing Session--Metropolitan I			
7:00 pm - 10:00 pm	Special Activity 4--Assemble in 1st Floor Hotel Lobby Beach Blanket Babylon			
Thursday, 27 June 2013				
7:30 am - 6:00 pm	Technical Tour 3--Assemble in 1st Floor Hotel Lobby The Geysers / Napa Valley			
8:30 am - 5:00 pm	Workshop 3--Stanford Workshop on Spall Prediction			