

**FIRST ISRM COMMISSION CONFERENCE ON
ESTIMATION OF ROCK MASS STRENGTH AND DEFORMABILITY
LIMA, PERU, DECEMBER 6th, 2024**

PROGRAMME

TIME	EVENT	
	<i>Hotel: Melia Lima, Peru</i>	<i>Room: Caral</i>
07:30 – 08:30 AM	CONFERENCE REGISTRATION	
08:30 – 08:35 AM	INAUGURAL SESSION Opening Remarks by Prof. Pinnaduwa H.S.W. Kulatilake, Conference Chair	

TIME	SESSION 1: EMPIRICAL METHODS TO ESTIMATE ROCK MASS PROPERTIES <i>Co-Chairs: Dr. Antonio Samaniego and Mr. Jorge Arriagada</i>	
08:35 – 09:00 AM	Session Lead Lecture: A Review on Estimation of Rock Mass Deformability Properties Using Empirical Methods	<i>Dr. Yan Xing</i> <i>China University of Mining and Technology</i> <i>China</i>
09:00 – 09:20 AM	Size-dependent Behaviour of Artificially Jointed Hard Rock	<i>Dr. Hossein Masoumi</i> <i>Monash University, Australia</i>
09:20 – 09:40 AM	Comparison of Quantitative GSI Methods for Hoek and Brown Failure Criteria: A Case Study of El Teniente Mine, Chile	<i>Nayadeth E. Cortes</i> <i>Pontificia Universidad Católica de Valparaíso</i> <i>Chile</i>
09:40 – 10:00 AM	Validation of Field Investigations of Rock Quality in the RMR89 and RMR76 Systems	<i>Sebastian A. Suárez Yallico</i> <i>SRK Consulting, Peru</i>
10:00 – 10:20 AM	Correlating Drill Core Morphology Data to Standardized Joint Roughness Conditions	<i>Jonathan Hill</i> <i>Corescan (Epiroc), Canada</i>
10:20 – 10:50 AM	Tea/Coffee Break	

TIME	SESSION 2: ROCK MASS PROPERTIES <i>Co-Chairs: Dr. Mahdi Saadat and Dr. Raul Pozo</i>	
10:50 - 11:20 AM	Session Lead Lecture: Estimation of Rock Mass Strength and Deformability Properties in Three Dimensions Based on a Numerical Modeling Procedure	<i>Prof. Pinnaduwa H.S.W. Kulatilake</i> <i>University of Arizona</i> <i>USA</i>
11:20 - 11:40 AM	Geological Survey of Rock Fragments from Chuquicamata Underground Mine	<i>Jorge P. Pereira and Carlo S. Divasto</i> <i>DERK Ingeniería y Geología Ltda.</i> <i>Calama, Chile</i>
11:40 AM - 12:00 Noon	Cerchar Parameter Estimation as a Function of Equivalent Quartz Content and Properties of Porphyry Copper Igneous Rocks	<i>Jorge P. Pereira and Carlo S. Divasto</i> <i>DERK Ingeniería y Geología Ltda.</i> <i>Calama, Chile</i>
12:00 - 12:20 PM	Influence of Weathering in the Definition of Geotechnical Units	<i>Dr. Andrea Russo</i> <i>SRK Consulting, Chile</i>
12:20 - 01:20 PM	Lunch Break	



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TIME	SESSION 3: ROCK MASS BEHAVIOUR AND SEISMICITY <i>Co-Chairs: Jonathan Hill and Prof. Nestor Espinoza</i>	
01:20 - 01:50 PM	Session Lead Lecture: A 3-D Strength Criterion Developed for Jointed Coal Masses Based on True Triaxial Tests and 3-DEC Numerical Modeling	<i>Dr. Peng-fei He</i> <i>China University of Mining and Technology Beijing, China</i> <i>and</i> <i>Prof. Pimmaduwa H. S. W. Kulatilake</i> <i>University of Arizona, USA</i>
01:50 - 02:10 PM	Seismicity and Mining Operations in High-Stress Underground Environments	<i>Dr. Luis Felipe Orellana and Dr. Tomas Roquer</i> <i>Universidad de Chile, Chile</i>
02:10 - 02:30 PM	Preliminary Analysis of Fault Reactivation in Underground Mining	<i>Dr. Luis Felipe Orellana and Lucy Bravo</i> <i>Universidad de Chile, Chile</i>
02:30 - 02:50 PM	Impact of Topographic Deformation on Induced Seismicity and Reactivation of Geological Faults in Underground Mining	<i>Guillermo Martinez</i> <i>Universidad de Chile</i> <i>Chile</i>
02:50 - 03:10 pm	Unveiling the Impact of Geological Structures on Seismic Activity in Large Underground Copper Mines	<i>Javiera Tillería</i> <i>Universidad de Chile</i> <i>Chile</i>
03:10 - 03:40 PM	Tea/Coffee Break	



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TIME	SESSION 4: SCALE EFFECTS AND BACK ANALYSIS <i>Co-Chairs: Dr. Hossein Masoumi and Dr. Luis Orellana</i>	
03:40 - 04:10 PM	Session Lead Lecture: Estimation of Rock Mass Properties for Mine Tunnels Based on a 3-D Discontinuum-Equivalent Continuum Back Analysis Method Using Field Deformation Data	<i>Prof. Pinnaduwa H.S.W. Kulatilake</i> <i>University of Arizona</i> <i>USA</i>
04:10 - 04:30 PM	Estimation of Pillar Strength and Rock Mass Properties using FLAC3D and 3DEC: A Case Study from Australian Mining Operations	<i>Dr. Mahdi Saadat</i> <i>Blackrock Mining Solutions</i> <i>Australia</i>
04:30 - 04:50 PM	Scale-dependent Behavior of the GSI Index: a Comparative Analysis	<i>Dr. Raúl Pozo</i> <i>SRK Consulting (Peru) S.A.,</i> <i>Peru</i>
04:50 - 05:10 PM	Rock Mass Classification Methods: A Foundation for Back Analysis Processes in Modern Geotechnics	<i>Prof. Néstor R. Espinoza Guillén and</i> <i>Jorge A. Arriagada Triana</i> <i>Universidad de Valparaíso,</i> <i>Chile</i>
05:10 - 05:20 PM	Short Break	

05:20 - 06:00 PM	SESSION 5: DISCUSSION AND CONFERENCE CLOSURE <i>Co-Chairs: Prof. Pinnaduwa H.S.W. Kulatilake and Dr. Antonio Samaniego</i>	
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