12th Asian Rock Mechanics Symposium -ARMS12th ISRM sponsored Regional Symposium

23-24 Nov., 2022 Hanoi, Vietnam

	1	Гіте		Chi Lang	Pass Room Hall		Dien Bien F	Phu Room Hall	
		7:30	To 9:00	Registration					
		9:00	9:30	Opening Ceremony					
	H			Chairpersons Keynote Lectures	Resat Ulusay	Do Nhu Trang			
				Chairpersons	Pinnaduwa H.S.W. Kulatilake	Do Nhu Trang			
		9:30	10:10	ARMS12-No. A57	ARMS12-No. A57				
				Resat Ulusay	Rock characterization, testing and future trends: Highlighting the ISRM Suggested Methods				
		10:10		Tea Break + Group Pho					
	-	10:40	11:20	ARMS12-No. A54 Seokwon Jeon	ARMS12-No. A54 Advances in Rock Excavation Technology				
		11:20	12:00	ARMS12-No. A58	ARMS12-No. A58				
		12:00	13:00	Man Chao He Luncheon	Missions of Rock Mechanics: Material Innovation to El	ngineering Revolution			
				Session 02	Rock properties and testing methods		Session 03	Tunnel and underground construction;	
	ŀ	13:30	13:48	Chairpersons ARMS12-No. A03	Resat Ulusay ARMS12-No. A03	Vu Cao Minh	Chairpersons ARMS12-No. A49	Seokwon Jeon ARMS12-No. A49	Le Quang Huy
		13.30	13.40	Anivio 12-110. Aug	Anivio 12-110. Aus		ANNO 12-NO. A49	Rehabilitating and strengthening a leaked underground	
				Nguyen Huy Hiep	Determination of creep properties of rock masses		Le thi Minh Giang	penstock using permanent strand ground anchors at a hydropower plant in Laos	
		13:48	14:06	ARMS12-No. A23	ARMS12-No. A23		ARMS12-No. A40	ARMS12-No. A40	
					Fatigue Behaviour of a Model Rock under			A study of modeling damage zone around tunnel	
	-	14:06	14:24	Mahendra Singh	Cyclic Polyaxial Loading		Hong-Lam Dang ARMS12-No. A27	excavation by DEAL.II	
		14:00	14:24	ARMS12-No. A34	ARMS12-No. A34 Experimental study on the mechanical response of		ARMS12-NO. A27	ARMS12-No. A27 Combining Empirical and Numerical Approaches for	
				Prabhakar Kumar	simulated multi flawed rock-like material under true triaxial compression		Rajinder Kumar Bhasin	Design of Tunnels using the Norwegian Method Tunnelling (NMT)	
		14:24	14:42	ARMS12-No. A42	ARMS12-No. A42		ARMS12-No. A43	ARMS12-No. A43	
22	y				Measurement tensile elastic modulus and tensile plastic				
/203	2				modulus of rockmass in basalt zone of the Hoa Binh			Underground solution for Su-Pan 1 hydropower project in	
23/11/2022	5	14:42	15:00	Pham Quoc Tuan ARMS12-No. A50	expansion hydropower project by Brazilian test ARMS12-No. A50		Nghia Quoc Trinh ARMS12-No. A06	Vietnam ARMS12-No. A06	
8	Ú -		. 5.50	, u uvio 12-140. AUU	Determination of natural stress of rock mass by hydraulic		7 II IIVIO 12-140. A00		
					fracturing method (Using Camera technology to precisely determine direction	n		Effect of Stiffness Ratio on Rock Fragmentation Induced	
		45:00	15:00	Ho Minh Long	of the smallest stress)		Muhammad Irfan bin Shahrir		
		15:00	15:30	Tea Break Session 04	Rock Mechanics & Engineering in Mining		Session 05	Geohazard – (Landslide and Debris Flows) + Rock s	slope Stability
				Chairpersons	Mahendra Singh	Ha Ngoc Anh	Chairpersons	Pinnaduwa H.S.W. Kulatilake	Tran Thi Thu Hang
	-	15:30	15:48	ARMS12-No. A25	ARMS12-No. A25		ARMS12-No. A19	ARMS12-No. A19 Experimental procedures to determine porosity-height	
				Sruti Narwal	Mine design in friable rock mass under an open-cast mine	į	Shubham Shrivastava	relationship of mine overburden dump	
	-	15:48	16:06	ARMS12-No. A29	ARMS12-No. A29 Enhancement Ground Control Management Using Ground	d	ARMS12-No. A33	ARMS12-No. A33	
					base SAR (Hydra -X) Monitoring Project - Martabe Gold	•			
		16:06	16:24	Suryando Sagala ARMS12-No. A35	Mining Sumatra Utara ARMS12-No. A35		AKM Badrul Alam ARMS12-No. A39	Potential of CMC to increase the stability of shale at a slope ARMS12-No. A39	
		10.00		7.1.111012110.7100					
					Fundamental Study on Applicability of Fractal Dimension for Evaluation of Fracture Conditions in Rock Mass			Method of forecasting land subsidence in the karst area; a case study at the section km55+660 - km55+690 of north-	
		16.04	16.40	Yuka Oota	at an Open Pit Mine		Phi Hong Thinh	south vietnam expressway	
	-	16:24	16:42	ARMS12-No. A37	ARMS12-No. A37		ARMS12-No. A51	ARMS12-No. A51	
					Analysis of Wall Failure Contributed by External Factors - Significant Rainfall and Blasting Event, in Mining Site			Experimental study of rock breaking effect of long cylindrical	
				Farhan Takdir	by Utilizing Ground-Based 3D Real Aperture Radar		Dam Trong Thang	charge in infinite environment	
	-	16:42	17:00	ARMS12-No. A41	ARMS12-No. A41		ARMS12-No. A52	ARMS12-No. A52 Slope stabilization of layered soft rock for cutting highway	
				I lla a alabam. Data allabara	Crown pillar design in the transition from open pit to underground in Narynsukhait (NS) coal mine, Mongolia		Mark Navian Dia	roadbed construction in Vietnam: A case study at	
		17:00	17:18	Ulaankhuu Batsaikhan	underground in Narynsukhait (NS) coarmine, Mongolia		Manh Nguyen Duc ARMS12-No. A56	the central main road of Cao Bang city ARMS12-No. A56	
								The main characteristics of the large landslide in the northern	
							Dao Minh Duc	mountainous region of Vietnam	
		18:00		Welcome Reception			Dao Minh Duc	mountainous region of Vietnam	
		18:00		<u> </u>			Dao Minh Duc	mountainous region of Vietnam	
		18:00		Welcome Reception Keynote Lectures Chairpersons	Seokwon Jeon	Nguyen Thanh Tung	Dao Minh Duc	mountainous region of Vietnam	
		18:00 8:30		Keynote Lectures	ARMS12-No. A53	Nguyen Thanh Tung	Dao Minh Duc	mountainous region of Vietnam	
			19:00	Keynote Lectures Chairpersons		Nguyen Thanh Tung	Dao Minh Duc	mountainous region of Vietnam	
			19:00	Keynote Lectures Chairpersons ARMS12-No. A53	ARMS12-No. A53 Geomechanics Risk Management System in Indonesian	Nguyen Thanh Tung	Dao Minh Duc	mountainous region of Vietnam	
		8:30	19:00 9:10	Keynote Lectures Chairpersons ARMS12-No. A53 Suseno Kramadibrata ARMS12-No. A55 Pinnaduwa H.S.W.	ARMS12-No. A53 Geomechanics Risk Management System in Indonesian Mining Operation ARMS12-No. A55 A Case Study on Stability and Rock Support Assessment		Dao Minh Duc	mountainous region of Vietnam	
		8:30 9:10	9:10 9:50	Keynote Lectures Chairpersons ARMS12-No. A53 Suseno Kramadibrata ARMS12-No. A55 Pinnaduwa H.S.W. Kulatilake	ARMS12-No. A53 Geomechanics Risk Management System in Indonesian Mining Operation ARMS12-No. A55		Dao Minh Duc	mountainous region of Vietnam	
		8:30	9:10 9:50	Keynote Lectures Chairpersons ARMS12-No. A53 Suseno Kramadibrata ARMS12-No. A55 Pinnaduwa H.S.W.	ARMS12-No. A53 Geomechanics Risk Management System in Indonesian Mining Operation ARMS12-No. A55 A Case Study on Stability and Rock Support Assessment		Dao Minh Duc Session 07	mountainous region of Vietnam Rock properties: numerical simulations;	
		8:30 9:10 9:50	9:10 9:50 10:05	Keynote Lectures Chairpersons ARMS12-No. A53 Suseno Kramadibrata ARMS12-No. A55 Pinnaduwa H.S.W. Kulatilake Tea Break Session 06 Chairpersons	ARMS12-No. A53 Geomechanics Risk Management System in Indonesian Mining Operation ARMS12-No. A55 A Case Study on Stability and Rock Support Assessment for a Complex Underground Mine in the USA Rock Mechanics & Engineering in Drilling Engine Murat Karakus		Session 07 Chairpersons	Rock properties: numerical simulations; Trinh Quoc Nghia	AKM Badrul Alam
		8:30 9:10	9:10 9:50	Keynote Lectures Chairpersons ARMS12-No. A53 Suseno Kramadibrata ARMS12-No. A55 Pinnaduwa H.S.W. Kulatilake Tea Break Session 06	ARMS12-No. A53 Geomechanics Risk Management System in Indonesian Mining Operation ARMS12-No. A55 A Case Study on Stability and Rock Support Assessment for a Complex Underground Mine in the USA Rock Mechanics & Engineering in Drilling Engine	eering	Session 07	Rock properties: numerical simulations;	
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		8:30 9:10 9:50	9:10 9:50 10:05	Keynote Lectures Chairpersons ARMS12-No. A53 Suseno Kramadibrata ARMS12-No. A55 Pinnaduwa H.S.W. Kulatilake Tea Break Session 06 Chairpersons	ARMS12-No. A53 Geomechanics Risk Management System in Indonesian Mining Operation ARMS12-No. A55 A Case Study on Stability and Rock Support Assessment for a Complex Underground Mine in the USA Rock Mechanics & Engineering in Drilling Engine Murat Karakus ARMS12-No. A45 Comparison of fracture propagation of fracture models	eering Nguyen Thanh Tung	Session 07 Chairpersons ARMS12-No. A26	Rock properties: numerical simulations; Trinh Quoc Nghia ARMS12-No. A26	
133		8:30 9:10 9:50	9:10 9:50 10:05	Keynote Lectures Chairpersons ARMS12-No. A53 Suseno Kramadibrata ARMS12-No. A55 Pinnaduwa H.S.W. Kulatilake Tea Break Session 06 Chairpersons ARMS12-No. A45 Truong Nguyen Huu ARMS12-No. A46	ARMS12-No. A53 Geomechanics Risk Management System in Indonesian Mining Operation ARMS12-No. A55 A Case Study on Stability and Rock Support Assessment for a Complex Underground Mine in the USA Rock Mechanics & Engineering in Drilling Engine Murat Karakus ARMS12-No. A45 Comparison of fracture propagation of fracture models while fracturing: A case study of the Oligocene formation is the White Tiger field ARMS12-No. A46 Using different artificial neural network models	eering Nguyen Thanh Tung	Session 07 Chairpersons ARMS12-No. A26 Sunita Mishra ARMS12-No. A38	Rock properties: numerical simulations; Trinh Quoc Nghia ARMS12-No. A26 Numerical Study on the Effect of Shockwaves used for Percussive Drilling ARMS12-No. A38 Numerical Simulation of Rock Cutting Mechanism of Tunnel	
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Ha Long Bay, Lan Ha Bay, CRUISE 2 DAYS/ 1 NIGHT

DAY 1: TUAN CHAU PORT - HALONG BAY - LAN HA BAY (Lunch , Dinner)

08.00: Bus picks you up at your hotel
12:00: The crew members of Cruise will welcome you at Tuan Chau International Marina Station.

12:00: The crew members of Cruise will welcome you at Tuan Chau International Marina Station.

12:00: Two will be taken aboard our support vessel and travel from the wharf via the bay to board our luxurious craft. Welcome fresh drinks, cold towels and a special lunch of fresh food and an assortment of appetizing delicacies will be served. You will be enchanted when decadently dining on our luxury junk. Life just doesn't get better than this! We then set sail for Lan Ha Bay - A member of the World's Most Beautiful Bays.

15:30: We will visit the Dark and Bright Cave - famous for the pristine natural beauty and poetic, attractive seascape of Lan Ha Bay. Here you will take some photos of the romantic, lyrical local see-sights. This is also the best time for tourists to enjoy bamboo boat and swimming - which is an interesting activity to discover the truest beauty of the limestone mountains and the blue sky of LanHa Bay. Afterwards, visitors immerse in the emerald green water of LanHa Bay with exciting swimming activities

17:30: Return to Cruise. Enjoy sunset party on Lan Ha Bay. It is an ideal time for photography enthusiasts to capture the stunning moment of sunset at Lan Ha Bay.

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19:30: Enjoy a romantic dinner at the restaurant on cruise

21:00-00:00: Enjoy the nightlife of the bay from the top deck. Immerse yourself in music, enjoying a glass of cocktail from the bar, watching famous films and relaxing on the cruise. Otherwise, you can fish squid with the sailors or simply relax in the room and watch the bay from the balcony.

DAY 2: LAN HA BAY – TUAN CHAU PORT (Breakfast and Brunch)

8:00: Cruise will arrival Frog Pond area, in here you have kayaking and free to relax in the four- season mini pool on Lan Ha Bay - A silk ribbon made from green mountains, blue seas and diverse fauna and flora. 9:30: Checking out of the room. Then the lunch in the restaurant is ready for you, pay the extra fee (if any) 11:00: Return to the pier then take a bus back to Hanoi.