

• Program Theme

- Fundamental rock mechanics
- Laboratory and field testing and physical modeling
- Energy-saving facilities and construction technology
- Environment-friendly facilities and construction technology
- Natural and man-made disaster-free technology
- Sustainable development for energy and mineral resources
- Environmental issues in mining and land development
- GIS application in mining, land development and the environment
- Rock mechanics for subsea tunnels
- Slope stability and subsidence for surface and underground mining systems
- Coupled processes in rock mass for underground energy storage and waste disposal
- Reservoir geomechanics (special session)
- CO2 geosequestration
- Rock mechanics for Enhanced Geothermal System (EGS)
- Structural geology applied to rock mechanics

• Keynote Lectures

Prof. Xia-Ting Feng (ISRM President, China)

- Mechanism, prediction and mitigation of rock burst at deep tunnels

Prof. Robert Zimmerman (Imperial College, UK)

- Some new developments in modeling failure, fracture and fragmentation of rocks

Dr. So-Keul Chung (KIGAM, Korea)

- Experience of underground oil/gas storage in rock cavern

Prof. Lanru Jing (KTH, Sweden)

- Understanding coupled stress-flow-transport processes in fractured rocks

Dr. David Potyondy (Itasca, USA)

- The bonded-particle model as a tool for rock mechanics research and application - Current trends and future directions

Prof. Raset Ulusay (Hacettepe Univ., Turkey)

- The present and future of rock testing: Highlighting the ISRM Suggested Methods

Dr. Jonny Rutqvist (LBNL, USA)

- Rock mechanical aspects of geological storage of CO2 in deep sedimentary formations

Prof. Takatoshi Ito (Tohoku Univ., Japan)

- Challenges to stress measurements in deep/unconsolidated rock formations for frontier rock engineering

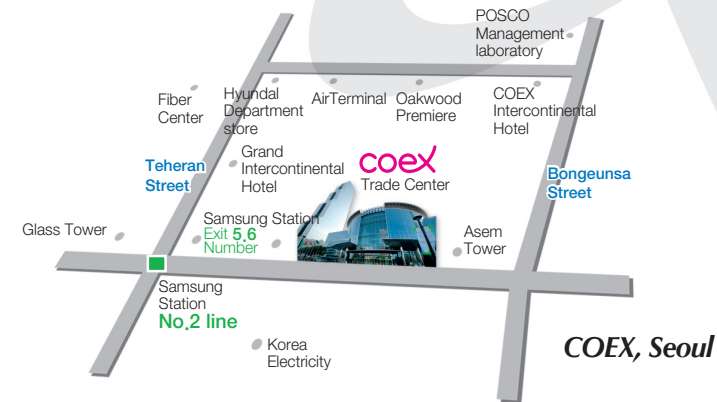
Dr. Yingxin Zhou (Defense Science and Technology Agency, Singapore)

- Rock dynamics issues in the design of underground explosives storage facility

■ Venue and Accommodation

The Symposium will be held at COEX (www.coex.co.kr), located in the heart of Seoul.

A block of rooms is reserved at two designated hotels; COEX Intercontinental Hotel and Ramada Seoul Hotel.



■ Registration Fees

	ISRM / KSRM Members	Non-Members	Students	Accompanying Persons
Before Aug. 31	\$600	\$750	\$300	\$250
After Aug. 31	\$700	\$875	\$300	\$250

■ Language

The official language of the symposium is English.

■ Visa and invitation letters

Invitation letters will be available upon request. Please visit symposium website (www.arms7.com).

■ Important Dates

Full paper submission: **Jul. 15, 2012**

Notification of final paper acceptance to authors: **Aug. 15, 2012**

Revised full paper submission: **Sep. 10, 2012**

■ Contact Information

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Further information can be found at www.arms7.com

2nd Circular

www.ARMS7.com

2012 ISRM Regional Symposium
ARMS7 - 7th Asian Rock Mechanics Symposium
October 15-19, 2012

THE PRESENT AND FUTURE OF ROCK ENGINEERING



coex, Seoul, Korea



Organized by | Korean Society for Rock Mechanics (KSRM) Sponsored by | International Society for Rock Mechanics (ISRM)

Invitation

The Korean Society for Rock Mechanics (KSRM) - Korean National Group of ISRM - extends a cordial invitation to the international community to attend the 7th Asian Rock Mechanics Symposium, an ISRM regional symposium. The event will be held on October 15-19, 2012 in Seoul,

Korea; it is a timely celebration of the 1st Asian Rock Mechanics Symposium that took place fifteen years ago in the same location.

The theme of the Symposium is 'The Present and Future of Rock Engineering.' The symposium intends to cover all aspects of rock mechanics, from theories to engineering practices, emphasizing the future direction of rock engineering technologies.

The venue for the symposium is located in the heart of Seoul, with convenient access to subways, restaurants and hotels. This event will be an excellent opportunity to contemplate the present and future of rock engineering, as well as to enjoy traditional and modern Korea. We have received over 260 abstracts from 30 countries so far and we will make every effort to make the event successful. On behalf of the KSRM, I am delighted to welcome all of you and look forward to meeting you in Seoul.

Dr. Kong-Chang Han, President of KSRM

• Program at a Glance

Date	Program			
10/13 (Sat)	Short Course 1 Reservoir Geomechanics	Short course 2 Mining Geomechanics		
10/14 (Sun)			DDA Workshop	Students' Night
10/15 (Mon)	Opening Ceremony			Accompanying Persons' Program Day 1
	Keynote Lectures			
	Technical Sessions			
	Welcome Reception			
10/16 (Tue)	Keynote Lectures			Accompanying Persons' Program Day 2
	Technical Sessions			
	Banquet			
10/17 (Wed)	Keynote Lectures			Accompanying Persons' Program Day 3
	Technical Sessions			
	Closing Ceremony			
10/18 (Thu) - 10/19 (Fri)	Technical Tour 1	Technical Tour 2	Technical Tour 3	

• Technical Tours

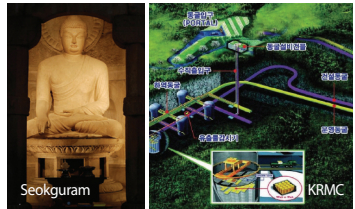
Three two-day technical tour courses are planned and the delegates will depart on Thursday morning and will return to Seoul on Friday afternoon.

Technical Tour 1: KAERI Underground Research Tunnel (KURT), Geological Museum in KIGAM & Cultural Tour in Daejeon Area



This tour includes a guided tour to KURT which is a 90 m deep underground research laboratory located in Korea Atomic Energy Research Institute (KAERI), a visit to Geological Museum in KIGAM (Korea Institute of Geosciences and Mineral Resources), and a cultural tour in Daejeon area. Daejeon is about two-hour drive distant from Seoul.

Technical Tour 2: Pohang EGS Drilling Site, Kyoungju LILW Underground Repository Construction Site & Cultural Tour in Kyoungju Area



This tour starts with a visit to 3 km deep drilling site for the first Korean EGS (Enhanced Geothermal System) project. Delegates will then be guided to Kyoungju to visit the construction site of underground repository for low and intermediate level nuclear waste which is composed of six silos with about 25 m diameter and over 50 m height. A guided tour to cultural heritages in Kyoungju area will be arranged. Kyoungju is the capital city of Silla Dynasty (BC57-AD935) and a UNESCO World Heritage Site. Kyoungju is around four-hour drive distant from Seoul.

Technical Tour 3: Compressed Air Energy Storage Site & Cultural Tour in Kangwon Area



Compressed Air Energy Storage (CAES) cavern is being tested in Jeong-Sun, Kangwon province. Two types of pilot caverns are being tested; concrete lined one (118 m³) and steel lined one (196 m³). This tour includes both technical visit to CAES cavern and sightseeing in Taebaek Mt. area. The site is around 3 hours away from Seoul.

• Accompanying Persons' Program

Day 1		Day 2		Day 3	
10:30 ~12:00	Gyeongbokgung Palace	10:30 ~12:00	N-Seoul Tower	10:30 ~11:30	Samsung d'light
12:10 ~13:30	Lunch	12:20 ~13:20	Lunch	12:00 ~13:00	Lunch
13:40 ~15:00	Insadong	13:40 ~15:00	Bukchon Hanok Village	13:30 ~15:30	Han River Cruise
15:10 ~16:00	Gwanghwamun Square & Cheong Gye Cheon	15:20 ~16:30	Myungdong	15:40 ~16:30	Ewha Women's University
16:00 ~17:00	Return to COEX	16:30 ~17:00	Return to COEX	16:30 ~17:00	Return to COEX



*The programs are subject to change depending on the numbers of participants.

*The detailed information of the sites is available at english.visitkorea.or.kr/enu/index.kto

• Short Courses

Short course 1: Reservoir geomechanics (Oct. 13 - Oct. 14, 2012)

Instructor: **Prof. Maurice Dusseault** (University of Waterloo, Canada)

This two-day short course intends to provide introduction to reservoir geomechanics. The course is highly recommended to all engineers, geoscientists, and technologists involved in reservoir engineering, stimulation, monitoring, project waste management, geothermal development, shale gas and hydrate development, and enhanced oil recovery activity.

Short course 2: Critical rock engineering issues on mine pre-feasibility study and mining method selection (Oct. 13 - Oct. 14, 2012)

Instructor: **Drs. Bo-Hyun Kim** and **Fidelis T. Suorineni** (MIRACO, Canada)

This short course intends to provide introduction to advanced mining technologies. The course is highly recommended to all engineers, mining, geological and civil engineers aspiring to practice mining.

Registration fee for short courses (US\$)

	ISRM / KSRM Members	Non-Members of ISRM / KSRM	Student Members
Before Aug. 31	\$500	\$600	\$300
After Aug. 31	\$600	\$700	\$350

Both short courses will take place at Seoul National University and number of registration is limited to 30.

• Workshop: Oct. 14, 2012

DDA Workshop will take place in COEX and the detailed program will be available soon.

• Students' Night: Oct. 14, 2012

This event is organized in order to encourage active participation of young members and establish network among young members in the rock mechanics community. The program is sponsored by the ISRM Young Member's Presidential Group. The program is as follows.

- **17:30** Get-together
- **18:00 - 19:30** Han River Cruise (Supper provided)
- **20:00** Beer and rice wine party together with the special lecture, 'Your lives as rock mechanics', by David Beck (ISRM Vice-President for Australasia, Beck Engineering, Australia).

All the participants will be given a special souvenir. Pre-registration is required although this event is free-of-charge.



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