

Training course of ISRM Lecturers in tour Hanoi Vietnam 19-23 Feb 2014



Figure 1: Banner of training course.

The training course “Fundamentals of Rock Mechanics and Design of Rock Engineering” took place in Water Resources University, Hanoi, Vietnam, on 20-21 Feb 2014.

The training course had organized by International Society for Rock Mechanics (ISRM), Vietnam Society for Rock Mechanics (VSRM) and Vietnamese National Group of ISRM. Training course is an agreement among president ISRM Prof. Xia- Ting Feng, ISRM secretary general Dr. Luis Lamas and president Vietnam society for rock mechanics (VSRM), Vietnam National Group of ISRM Prof. Nghiem Huu Hanh in Shanghai, China in June 2013.



Figure 2: Left to right: Prof. Vu Trong Hung (the Vice- President of VSRM, Vietnam national group of ISRM), Prof. Xia- Ting Feng (the President of ISRM), Prof. Nghiem Huu Hanh (the President of VSRM, Vietnam national group of ISRM), Dr. Yingxin Zhou the Vice President Asia of ISRM, the Vice president Europe Prof. Frederic Pellet.

The purpose of training course is to present further development of rock mechanics and rock engineering from ISRM. Lecturers are President ISRM Prof. Xia- Ting Feng, Vice president Asia Dr. Yingxin Zhou, and Vice president Europe Prof. Frederic Pellet. Topic of training course is Fundamentals of Rock Mechanics and Design of Rock Engineering.

Training course have 221 attendees, including 10 Vietnamese professors, 150 Lecturers, 61 professional engineers from National Civil Engineering of University, Water Resources University, Hanoi University of Mining and Geology, academies in rock mechanics and rock engineering, Vietnamese and foreign Consulting companies...

Prof. Nghiem Huu Hanh and Prof. Xia ting Feng had opening speech



Figure 3: The training course “Fundamentals of Rock Mechanics and Design of Rock Engineering

This training course began with slides given by Prof. Frederic Pellet on “Fundamentals of Rock Mechanics”. Second, Dr. Yingxin Zhou presented about rock joints and rock mass classification, shear strength of rock joints, rock mass classification. Finally, Prof. Xia- Ting Feng presentation is about rock engineering including dynamic and optimal design method and its applications, examples about optimal and dynamic design of rock slope, deep tunnel in hydropower stations in China.

During the closing ceremony, Prof. Xia- Ting Feng had hand out certificate for attendees.

Dr. Yingxin Zhou has slide presentation about ISRM with National Groups of ISRM in the world, Asian Family rock mechanics, scholarship for young member of national group of ISRM Asia family attend ARMS 2014 in Sapporo, Japan in October 2014.



Figure 4: Example of the certificate of training course “Fundamentals of Rock Mechanics and Design of Rock Engineering”



Figure 5: Prof. Xia- Ting Feng had hand out certificate for attendees.

The tour trip was tour Hạ Long Bay, Quang Ninh province. Hạ Long bay features thousands of limestone karsts and isles in various sizes and shapes. Hạ Long Bay is a center of a large zone, which includes Bái Tử Long bay to the northeast, and Cát Bà islands to the southwest. These large zones share similar geological, geographical, geomorphological, climate, and cultural characters. (Wikipedia). Lecturers of ISRM had a nice trip sightseeing Hạ long Bay and discussed about rock mechanics when the boat was cruising.

Finally, Leaders of ISRM and VSRM were discussed about cooperation of ISRM and VSRM, Vietnam National group of ISRM in future. They agreed plan workshop about rock mechanics and rock engineering for some nationals in Asia, member group of ISRM on March 2015 in Hanoi, Vietnam.

Training course is good opportunities for Vietnamese colleagues in field rock mechanics and rock engineering to update knowledge from famous lecturers in field rock mechanics and rock engineering. Training course is first successful in 2014 of VSRM. We do hope we will have further cooperation and supports from ISRM in near future.



Figure 6: Some of the attendees at the front main house of Water Resources University