

Minutes and work plans

(i) Historical minutes from 2008 to 2011

◆ 2011

Highlight-1: The Seminar on Geo-hazards Held in Xi'an, China

On Feb.21~25, 2011, a seminar on Geo-hazards was held in Xi'an, China. The seminar was organized by the International Consortium on Landslides ICL, China Geological Survey and Commission 24 of IAEG together. Prof. Kyoji Sassa, the Executive Director of International Consortium on Landslides, Prof. Dwikorita Kamawati from Gadjah Mada University, Indonesia, Prof. Edwin Lynn Harp from USGS, Prof. Anders Solheim from Norwegian Geotechnical Institute, Prof. Wang Fawu from Shimane University and other experts from China attended the seminar, totally about 200 members. The Seminar was chaired by **Prof. Yin Yueping**, the Chairman of IAEG-C24. On this seminar, five keynote lectures had been given by the above mentioned overseas experts regarding the risk assessment technology, the mechanism, and the early warning on geo-hazards, including the landslide, rockfall and volcano, etc. The contents of this seminar are very comprehensive, and it played an important role in academic exchanges for researchers from different countries.

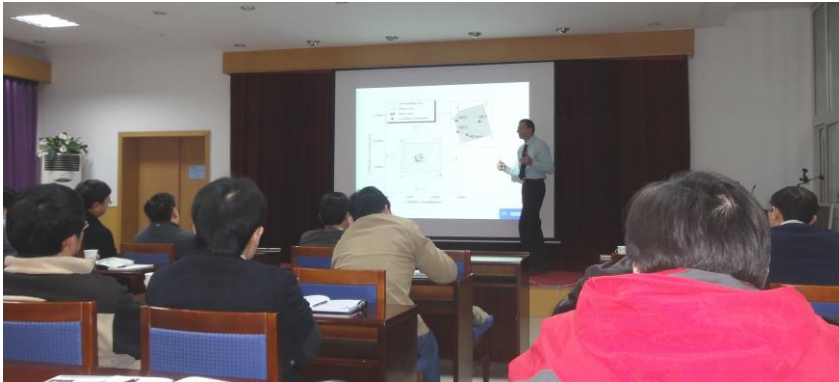


Group photo of some participants

Highlight-2 Prof. Heinz Konietzky was invited to pay a visit to Institute of Geomechanics, CAGS, and C24

Invited by Chinese Academy of Geological Sciences and C24 of IAEG together, Dr. Heinz Konietzky, the chairman of Education Committee under International Society for Rock Mechanics, paid a visit to Institute of Geomechanics on March 21, 2011. During his visiting process, Dr. Heinz Konietzky gave

a presentation on Numerical Simulations on Geohazards -Stress-Tectonics, which including a brief introduction on numerical modeling techniques and his mainly achievements on numerical simulation of geological processes from macro tectonics to micro particles, especially in relation to the shear strength reduction techniques, discontinue modeling and numerical modeling, as well as sophisticated hydro-mechanical coupling with time-dependent material behavior. Dr. Heinz Konietzky hopes to make chance to enhance the contact with C24 of IAEG.



Dr. Heinz Konietzky was giving a presentation

◆ 2010

Highlight-1: C24 workteam and members participated in emergency investigation of geo-hazards induced by the 4.14 Yushu earthquake in China from April 14 to May 30, 2010.

On April 14, 2010, a magnitude 7.1 earthquake occurred in Yushu County of Qinghai Province, China. The epicenter location and hypocenter depth issued by CENC is 33.2°N and 96.6°E and 14km, respectively. By May 30, 2010, The Yushu earthquake caused 2698 death and 270 missing. Meanwhile, the earthquake caused continuous surface ruptures and a large amount of house ruining. The most serious is Gyegu Town, both the Autonomous District seat and the Autonomous County seat, where most houses collapsed.

Just after the earthquake, an emergency team organized by Ministry of Lands and Resources (MLR), P. R. China was sent to Yushu to investigate earthquake geohazards and select reconstruction sites. We were the members of the emergency team. In order to quickly ascertain the scope and seriousness of geohazards, we obtained high quality fringe patterns of the co-seismic deformation field by using the PALSAR data from the interference radar (InSAR) technique. Then on the basis of interpretation of these fringe patterns, we discovered continuous surface ruptures caused by the earthquake in the field (Zhang et al., 2010), breaking through the early view that the Yushu earthquake was not accompanied with surface ruptures. The field investigation and comprehensive analysis indicated that the macroscopical epicenter of the

Yushu earthquake is located near Guo-yang-yan-song-duo of Longbao Town, and that the earthquake-generating fault of the Yushu earthquake are one dominated by left lateral strike-slip. The measured length of surface ruptures in and near Longbao is up to 23km. In a wetland area west of Longbao there also are surface ruptures to be found, but their displacements are relatively smaller. This provides an important basis for the selection of reconstruction sites. Here, we will report the main results of our investigation and discuss the main characteristics of geohazards caused by the Yushu earthquake.



At the Yushu earthquake site with an altitude of 4200m



At the Yushu earthquake site with an altitude of 4200m

◆ 2009

Highlight-1: A Workshop on Neotectonics and Geohazards Held in Chengdu, China

On Sep.10, 2009, a workshop on Neotectonics and Geohazards, organized by the Comission24, was held in Chengdu, China. This activity was one of the important sessions of *the International Symposium on Geological Engineering Problems in Major Construction Projects* in combination with *the 7th Asian Regional Conference of IAEG* (Sep.9~11, 2009). **Prof. Fred Baynes**, the current president of IAEG, **Prof. Niek**

Rengers, the immediate past president of IAEG, and **Dr. Sebastien Dupray**, the Secretary General of IAEG, as well as **Dr. Wu Fa-quan**, **Dr. Yin Yue-ping** and other experts from more than 10 countries including Australia, Netherland, UK, Russia, New Zealand, Malaysia, India, Japan, Korea, France, and China etc., attended the workshop.



Group photo of some participants

Dr. YIN Yue-ping, the Chairman of C24, extended a warm welcome to representatives. He pointed out that although much research concerning on neotectonics and geohazards had been achieved; a great number of scientific issues, especially for the close relationship between neotectonics and geohazards occurred in Wenchuan earthquake, were still urgently needed to be solved. And he said that the current situation was both an opportunity and a challenge, experts from different countries should join hands together for a brighter future of the science and technology development on neotectonics and geohazards. **Dr. ZHANG Yong-shuang**, the Secretary of C24, briefly summarized the work, the membership development, and the academic activities over the past year, focusing on the future development plans and activities of C24.



Dr. YIN Yue-ping gave a welcome to participants

Prof. Fred Baynes, the current President of IAEG, gave a full affirmation on the current work of C24. He said that C24 had organized diverse academic activities with outstanding features and played an important role on the promotion of neotectonics and geohazards studies. He suggested that C24 should further play its role on organization and communication so as to make greater contributions to promote the international exchanges and research level; at the same time, he put forward constructive opinions on the composition of core members and link members of all continents for C24.

Prof. Niek Rengers, the immediate past president of IAEG, and **Mr. Sebastien Dupray**, Secretary-General of IAEG, put forward very good suggestions for enhancing C24 advocacy and academic exchanges by using the International website. Other experts from different countries also offered advices on long-term development of C24 and had a full discussion. It was agreed that on the 11th IAEG International Congress held in 2010, Auckland, New Zealand, the special session on Neotectonics and Geohazards should be organized, the thematic reports of experts from representative national and regional should be invited, and the achievements should be propagandized and summarized, as well as the experiences be exchanged.

Prof. Huabin Wang from Huazhong University of Science and Technology, and **Prof. Hengxing Lan** from the Institute of Geographical Sciences and Natural Resources, Chinese Academy of Sciences were invited to give academic reports on the key technology for assessing and monitoring China's active tectonics and geo-hazards, respectively.

The work team of Commission 24 hopes more Researchers, students as well as teachers, and other professionals, who are interested in Neotectonics and geohazards, join them, and make the Commission 24 active and attractive.

Highlight-2: an International Workshop on Early Warning for Landslide Disaster Risk Reduction in the Eastern Asian Region

On Nov.30~Dec.5, 2009, companying with China Geological Survey, C24 organized an International Workshop on Early Warning for Landslide Disaster Risk Reduction in the Eastern Asian Region in Kunming, China. During that time, most of the participants visited the demonstration base of early warning for landslides in Ailaoshan mountainous area, Yunnan province of southwest of China.



Group photo of participants



Visiting the demonstration station of early warning for landslide

Highlight-3: A letter from Prof. Alexander Strom to Commission 24

Dear Prof. Yin, dear Dr. Zhang,

I want to express my gratitude for your hospitality and for excellent organization of the Chengdu conference and field trip. I must say that I am amazed by the effects of the Wenchuan earthquake, but also by the efforts made in China to recover the region affected by this catastrophe.

Regarding possible activities of the IAEG Committee on Neotectonics and Natural Hazards, I think that combination of surface faulting and other hazardous phenomena such as rockslides, landslides and debris flows - which caused such terrible effects as in the Beichuan town could be one of the main topics of wide international cooperation that could be supported by the committee.

I hope that our committee will work actively and will support more realistic and well-grounded world-wide hazard assessment.

Sincerely yours

Alexander Strom

Professor, Institute of the Geosphere Dynamics, Russia

Oct. 25, 2009

◆ 2008

On June 30, 2008, during the period of 10th International Symposium of Landslide (10th ISL, 2008.6.30~7.4), C24 organized an special seminar for earthquake landslides induced by 5.12 Wenchuan earthquake, 9 presentations were presented, the Keynote Speech “Landslide disasters and geo-environmental impact triggered by Wenchuan earthquake in Sichuan, China”, presented by Dr. Yin Yueping, has obtained excellent impression.

On July 15, 2008, sponsored by China Geological Survey, the arrangement and discussion conference was held in Beijing, the conference was convened by Dr. Yin Yueping. The leader of China group of IAEG, Prof. Wu Faquan, as well as more than 10 IAEG members attended the conference.

On August 6-12, 2008, representatives of C24 attended IGC33, Oslo, Norway, and spreaded invitation letters to relevant geologists. By the end of 2008, C24 has nearly 20 active members from about 6 countries, and would like to invite more experts to join us.

(ii) Work plans

- (1) In the early 2012, C24 would like to Invite the president, Secretary General and related persons to visit the relied constitution of Commission C24—Institute of Geomechanics, Chinese Academy of Geological Sciences.
- (2) Prepare to attend 2012 IAEG conference (the joint 11th International Symposium on Landslides (ISL) and 2nd North American Symposium on Landslides (NASL) in Banff, Canada from 2-8 June 2012), and to convene a commission meeting or workshop about Neotectonics and geohazard.
- (3) Spread news of C24 by IAEG website.
- (4) Attract more members of C24.

