

Workshop on Neotectonic and Geohazard of Commission 24 (Sept. 10, 2010)

1. Brief introduction on activities of C24 (13:30~13:45)

2. Presentations

- (1) A. Strom. Caldera-like collapses - geomorphic evidence of neotectonic detachment folding (13:45~14:15)
- (2) X. Yao. Investigation and research on ruptures and geo-hazards induced by 4.14 Yushu earthquake, China. (14:15~14:45)

Break (14:45~15:00)

- (3) J.S. Shi. Landslide mapping in China (15:00~15:20)

3. Discussion about the activity plan of C24 (15:20~16:00)

Activity report of C24-IAEG (2009 - 2010)

Dr. Yongshuang Zhang

Dr. Jusong SHI

Secretary-general of C24

1. Outline

Commission 24 is young (from 2008) but active.

We attend congress /forum/ workshop actively.

Many engineering geologists or young scientists have joined us, some of them usually give us suggestions.

C24 also conducted small-scale workshop or forum in the past year.

The webpage of C24 has been available under the website of IG-CAGS.

Let's see details as follows:

2. Activities

(1) On Sep.10, 2009, **a workshop on Neotectonics and Geohazards** was held in Chengdu, China. This activity was one of the sessions of *7th Asian Regional Conference of IAEG*. The detail contents can be found as the highlight 14 in IAEG website.



(2) On Nov.30~Dec.5, 2009, accompanying 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.

Group photo of participants





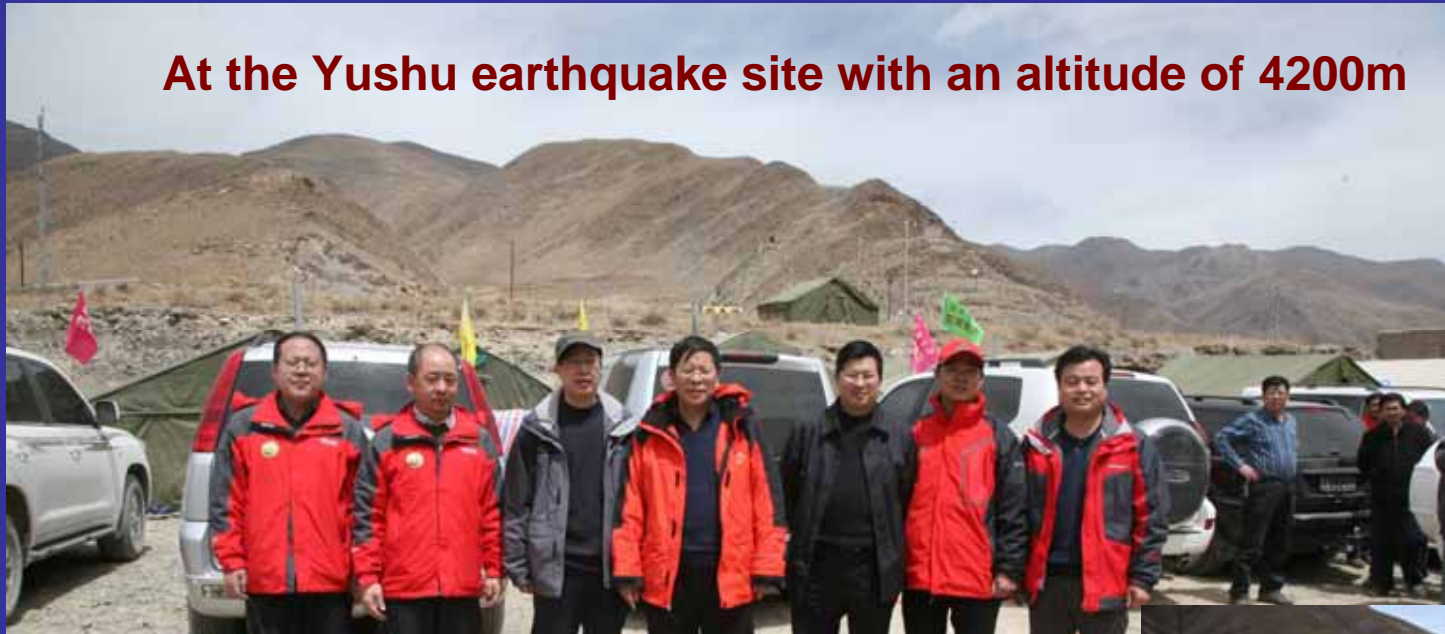
Visiting the demonstration station of early warning for landslide

Have a discussion on early warning for landslide



(3) 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.

At the Yushu earthquake site with an altitude of 4200m



3. Website construction

By the end of February 2010, the C24 secretariate had prepared a series of webpage contents of C24 for publishing in IAEG website, including (1) Opening Page; (2) Terms of Reference of C24; (3) Membership of the Commission, et al.

but, we do not know why we can't see the updated web pages in IAEG website.



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1 Introduction

Neotectonics and Natural Hazards under IAGG (C24) was suggested to be established in 2004 by Prof. Wang Bing, former Chairman of IAGG, and was approved in September 2008 during the conference of EUROPEASED 2008 at Madrid, so as to improve international academic communication in the field of neotectonics and geohazards.



http://www.iaggg.org

The number and scale of natural disaster and their increasing impact within recent years have resulted in massive loss of life and long-term negative social, economic and environmental consequences to vulnerable societies throughout the world, such as the 2004 Asian Tsunami, the 2005 Pakistan Earthquake, the 2008 Sichuan Earthquake, the 2008 Wenchuan Earthquake, Sichuan China killed more than 87,110 people (CAG) and 2010 Haiti Earthquake killed the country and the Hait government reported between 217,000 and 230,000 people had been identified as dead. As above mentioned disaster are related with neotectonics and geohazards, there are real challenges on neotectonics and geohazards studies and many scientific issues such as tectonic active based earthquakes, tsunamis, volcanoes, landslides, etc. are still urgently to be studied, although some research concerns on neotectonics and geohazards have been achieved by geologists all over the world. It is high time that all the world leading experts should promote and strengthen international cooperation and academic exchanges so as to enhance the research level of neotectonics and geohazards, to ensure a safer world.



On Sep. 16, 2008, Commission 24 organized a workshop on neotectonics and geohazards in Chengde, China. It was one of the important sessions of the 7th Asian Regional Conference of IAGG. Prof. Fred Barnes, the current president of IAGG, Prof. Hans Bungeles, the immediate past president of IAGG, and Dr. Sebastian Duguis, the Secretary General of IAGG and other experts from over 10 countries attended the workshop. Those experts offered advice on long-term development of C24, and it was agreed that on the 11th IAGG International Congress held in 2013, Auckland, New Zealand, the special session on neotectonics and geohazards should be organized, and the achievements should be propagated and summarized, and gained experience should be exchanged. The work team of C24 will appreciate those and those related professionals all over the world, who are interested in neotectonics and geohazards joining us and sharing their experience and knowledge. Please don't hesitate to contact us.

Wang Bing

Chairman



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2 Terms of Reference

(1) Develop professional academic programs and provide scientific and technological development proposals on neotectonics and geohazards, and recommend excellent geologists in related research areas to IAGG as well.

(2) Promote and develop scientific theories and advanced technology in engineering practice on active tectonics and geohazards prone area. Especially on combination of surface rupture and other hazardous phenomena such as rockslides, landslides and debris flows - this caused such terrible effects as in the Beichuan town, Sichuan, China.

(3) Provide a platform for academic exchange and promote the collaboration among engineering geologist, seismologist, geo-technologist, etc., as well as related professionals to solve problems on active tectonics and geohazards encountered in engineering construction, which could be one of the main topics of international cooperation.

(4) Summarize new problems encountered in engineering practice and provide the scientific trends and focus of this research area. Communicate progress via IAGG web site and meetings.

(5) Promote the consistency of a set of international criteria or technical guidelines and provide relevant international standards on neotectonics and geohazards.

(6) Promote the collaboration with other associated commission, and present a comprehensive report at 2010 Congress in New Zealand.

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3 Membership of the Commission

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4. Minutes and work plans

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On January 15th, 2009, the neotectonics and geohazards symposium was held in Beijing, China. This symposium was hosted by the Committee of Neotectonics and Geo-hazard under IAEG (C24) and the Key Laboratory of Neotectonic Movement & Geohazard, Ministry of Land and Resources, China. Academician MA Zong-Jin, WANG Si-Jing and other more than 40 famous experts attended the symposium, which was chaired by Dr. YIN Yue-Ping. (see Newsletter of C24 in IAEG website)

On Sep 10th, 2009, a workshop on Neotectonics and Geohazards, organized by the Commission 24, 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). (see Highlight 14 in IAEG website)

In November 2009, companying with China Geological Survey, Commission 24 organized a southeast Asian region landslide monitoring and warning academic exchange conference, in Ailao Mountain region, Yunnan province, China. Over 120 geologists from nearly 10 countries in Asia attended the meeting. Dr. Sunping on behalf of C24 work team attended the conference.

Aspecial session and workshop on Neotectonics and Geohazards will be organized on the 11th IAEG International Congress in 2010, Auckland, New Zealand.

Inviting several constitutions from China, USA, Japan etc., make preparations for a workshop on huge landslides triggered by 5.12 Wenchuan earthquake, in 2010.

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4 Minutes and work plans

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Highlight

A Workshop on Neotectonics and Geohazards Held in Chengdu, China

On Sep 10, 2009, a workshop on Neotectonics and Geohazards, organized by the Commission24, 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 IAGO (Sep.9-11, 2009).

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



Workshop photo

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-shiang, 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.

Prof. Fred Baynes, the current President of IAGO, 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 on site 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 the members of all continents for C24.

Prof. Nick Rengers, the immediate past president of IAGO, and Mr. Sebastien Dupray, Secretary-General of IAGO, put forward very good suggestions for enhancing C24 advocacy and academic exchanges by using the international website. Other experts from different countries also offered advice on long term development of C24 and had a full discussion. It was agreed that on the 11th IAGO 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 pre-organized and summarized, as well as the experiences be exchanged.

Prof. HONG Jun and Technician LIU Jie-ping from Institute of Geological 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.

Above contents will be updated every half a year.

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4. Membership

By now, there are about 20 core members from various countries working for C24. Membership application is continuing.

In order to make our contact more convenient, we'd like to create a detailed database including all IAEG-C24 members, and publish it at our website. (please provide your info. to us)

C24 members often give suggestions or discuss questions with the C24 work team, which is very commendable.

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.

Alexander Strom

Oct. 25, 2009

5. Plans

Commission 24 plans to organize a special session and workshop on Neotectonics and Geohazards during the 11th IAEG International Congress in 2010, Auckland, New Zealand (here). Inviting several experts to give reports on huge landslides triggered by earthquakes in relevant countries, and discusses the future activities of C24 in the next year.

Welcome you to joining us!

Thanks for your attention