

Geo-hazards Seminar
under
LANDSLIDE SCHOOL NETWORK

International Consortium on Landslides
as an activity of International Programme on
Landslides (IPL)

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China Geological Survey

I . Background

- In 2010, Prof. Rita and Yin constructed the implementation guideline for School Network and set the School Network Programs as :1. Promotion and invitation; 2. Facilitation for capacity development activities- Experts dispatch, Field works and summer school; 3.Documentation and dissemination.

**And the Responsibilities of Members
of Landslide School Network
are to:**

- Organize at least one activity per year, which may include guest lecture (at least 3 lectures), summer school, field work, training, etc.
- Prepare/ create digital lecture materials, which can be used in other schools, with credit to the authors/lecturers.
- Submit annual report in Words document, describing all activities conducted under the Network, the benefits, and suggestion for the enhancement of activities.

- The “ICL and CGS (China Geological Survey) Seminar on Geo-hazards” was held on 21-25 February 2011 in Xi’an, China, which as an activity of Landslide School Network of International Programme on Landslides (IPL). 240 delegates from China, Japan, Indonesia, Norway and USA participated in this seminar.

- CGS, as a leader in 240 delegates from China, Japan, Indonesia, Norway and USA participated in this seminar.



国际地质灾害高级研讨班
ICL - CGS Seminar on Geo-hazards

2011.2.21 中国 西安



II. Information

- 5 invited keynote lectures were presented by **Kyoji Sassa** (Executive director of ICL and professor emeritus of Kyoto University, Japan), **Dwikorita Karnawati** (Professor of Gadjah Mada University, Indonesia), **Edwin Lynn Harp** (Researcher of U.S. geological survey), **Anders Solheim** (Director of natural hazard department, Norwegian geological institute) and **Wang Fawu** (Associate professor of interdisciplinary faculty of science and engineering, Shimane University).

Landslide Dynamics

Risk Assessment Technology of Rain and
Earthquake Induced Rapid Landslides

Kyoji SASSA

Executive Director

International Consortium on Landslides

ICL-CGS Seminar on Geo-hazards in Xi'an on 21 February 2011

Workshop on Geohazard
China Geological Survey & International Consortium on Landslides
Xian, China, February 20 – 25, 2011

Lahar early warning system and Emergency Response to Merapi Valcono



By : D. Karnawati
Gadjah Mada Univeristy, Indonesia

SEISMICALLY TRIGGERED LANDSLIDES REGIONAL RELATIONSHIPS



LANDSLIDE TYPES TRIGGERED BY EARTHQUAKES





LANDSLIDE INVENTORIES THE KEY TO SEISMIC LANDSLIDE HAZARD ANALYSIS



**A FRACTURE-BASED CRITERIA TO ASSESS
ROCK-MASS SUSCEPTIBILITY TO FAILURE**

by
Edwin L. Harp

U. S. GEOLOGICAL SURVEY

Offshore and
coastal
geohazards:
A brief review

Anders Solheim

Division for Natural Hazards

Norwegian Geotechnical
Institute

Geohazard zoning and mitigation in Norway

Dr. Anders Solheim
Division for Natural Hazards
Norwegian Geotechnical
Institute

**Risk Assessment on Rapid and
Long Runout Landslides**
高速远程滑坡风险评价

汪发武

岛根大学综合理工学部

2011年2月 西安



- After 3-day workshop in Xi'an, there was a two-day field trip to Lintong and Yan'an of Shanxi province. Participants visited the controlling engineering and monitoring system of the landslides constructed by China Geological Survey.



III. Achievement

- Trail on the training pattern.

The local government or institute organize the training, and set the topic. The ICL provide experts and share the technique on the certain topic.

- Attract a wide range people.

Because the topics is set by CGS, and these topics covered the future works in China, the scientists from different institutes and universities present. Also, 4 students from the university of Rita present.

- Get the attention from local government.
The deputy director of Shanxi Land and Resource Bureau and some government officers from the cities in Shanxi Province came. The leaders of Xi'an Center of CGS paid a lot of attention on this training course.

- Yong scientists got the practical knowledge

This seminar offered an opportunity for geologists from China as well as other countries to share the world's latest advancements of geo-hazard researches.

- Stimulate the advancement of Chinese Program.
- Brain Storm for new cooperation.
- Better understanding of Chinese DR

IV. Shortage

- Translation not good.
- Fieldwork not good.
- Communication not good.
- Understanding of China not good.
- Spend too much.

V. Next Plan

Thanks for your time.