



2018 Changchun International Workshop on Geoenvironmental Disaster Reduction

Program

Organizers:

- International Consortium on Geo-disaster Reduction
- Chinese Society for Rock Mechanics and Engineering
- UNESCO Chair on Geoenvironmental Disaster Reduction

Host:

- Construction Engineering College, Jilin University, China

Co-organizer:

- China Institute of Disaster Prevention
- School of Geological Engineering and Geomatics, Chang'an University, China
- Shandong Provincial Key Laboratory of Marine Environment and Geological Engineering, Ocean University of China
- State Key Laboratory of Coastal and Offshore Engineering, Dalian University of Technology, China
- Professional Committee of Engineering Investigation, Seismological society of China
- International Association for Engineering Geology and the Environment (IAEG) Marine Engineering Geology Committee (C34)

Changchun, CHINA

16 August 2018

1. Topic

The quality of geoenvironment has a great influence on the social development. To improve the relationship between geoenvironment and society, the International Consortium on Geo-disaster Reduction, Chinese Society for Rock Mechanics and Engineering, and UNESCO Chair on Geoenvironmental Disaster Reduction are actively promoting the international cooperation in this field, and an *International Workshop on Geoenvironmental Disaster Reduction* will be held on 16 August 2018 in Changchun, China.

In this workshop, the following topics related to the energy and environment will be discussed:

- a) Geology and engineering geology;
- b) Educational theory and method of engineering geology;
- c) Scientific conception of Geoenvironmental disasters prevention and mitigation;
- d) Contribution of engineering geology in disasters prevention and mitigation;
- e) Methods and approaches for geological and seismic disasters reduction;
- f) Countermeasure to significant Geoenvironmental disasters in One Belt One Road;
- g) Exploration technique of marine engineering geology;
- h) Relevant new theories, new techniques and new ideas.

2. Workshop Notice

- a) Time: 16 August 2018
- b) Registration time: 15 August 2018
- c) Registration fee: 1000RMB, 100RMB for student.
- d) Accommodation is at your own expense
- e) Venue: Xinmin Hotel, #51 Qinghua Road, Changchun, China
- f) Person to contact:

| | | |
|------------|-------------|---------------------|
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3. Academic Committee

Chairman: Manchao HE, Youhong SUN, Xiaofeng HAN, Dongju DU

Associate Chairman: Jingshan BO, Zhenxue DAI, Lei NAI, Jianping CHEN, Jiwen TAN,
Yunpeng WANG, Zhaoxiang DONG, Yian TAN

Committee: Guangjie LI, Gangcheng WANG, Wei QI, Jiang LI, Feng'an QIN, Yongping HAN, Qing WANG, Xinsheng LI, Lianjun WANG, Xiaopei ZHANG, Jianhui QIU, Dianqiang CHEN, Huiming BAO, Yonggang JIA, Tonglu LI, Fawu WANG, Zhishuang YANG, Bingjian LING, Minghui LIU, Changming WANG, Xiaoling LI, Hongjun LIU, Tingkai NIAN, Yanjun ZHANG, Shulin DAI, Yan LIANG, Aiping TANG, Qingyang YU, Yan XU, Shiwei SHEN, Min ZHANG, Yan LV

Secretary-General: Fawu WANG

Vice Secretary-General: Changming WANG

4. Organizing Committee

Chairman: Guoyou YU

Associate Chairman: Aimin WANG, Chaochen LIU, Guangjie LI, Qing WANG, Lei NAI,
Yonggang JIA, Baoyi CHEN, Wenxiang BAI, Tonglu LI

Committee: Wei QI, Xiaopei ZHANG, Jianhui QIU, Zhishuang YANG, Changming WANG,
Hongjun LIU, Tingkai NIAN, Yanjun ZHANG, Jixin LIU, Shulin DAI,
He CHU, Qingyang YU, Yan XU, Shiwei SHEN, Yan LV, Min ZHANG, Yong WANG

Secretary-General: Qing WANG

5. Honored Guest:

Zhoudi TAN, Xianfeng WANG, Binglan CAO, Daxiong TANG, Dahui ZHENG

6. Time schedule

Time: 16 August 2018

Venue: Xinmin Hotel, Changchun

| Time | Events and Program | Speaker | Chairperson |
|--|--|--|---------------------------------|
| 9:00-9:20 Opening Ceremony | President speech | Youhong SUN (Vice-President of Jilin University) | Guoyou YU |
| | Dean speech | Zhenxue DAI (Dean of Construction Engineering College, Jilin University, China) | |
| | Certificate award ceremony of UNESCO Chair | | |
| | Speech of the UNESCO Chair representative | | |
| 9:20-10:20 | Keynote lecture: Characteristics of geological tectonic environment in China | Zhoudi TAN (Jilin University, China) | Manchao HE |
| 10:20-11:20 | Keynote lecture: Engineering Geology in new era leading revolution of mining science and technology | Manchao HE (Academician of Chinese Academy of Sciences) | Zhenxue DAI |
| 11:20-13:30 | Group photo & Lunch | | |
| The sessions below are Invited Lectures. | | | |
| 13:30-13:50 | The effect of site geological condition on the seismic disaster in Beichuan County Town during the 2008.5.12 Wenchuan earthquake | Jingshan BO (China Disaster Prevention Institute) | Fawu WANG Changming WANG |
| 13:50-14:05 | Application of molecular dynamics simulation in the study of modified asphalt | Huiming BAO (Guilin University of Technology, China) | |
| 14:05-14:20 | Water in loess, water-triggering loess disasters and their mitigation | Tonglu LI (Chang'an University, China) | |
| 14:20-14:35 | Giant submarine landslide in the South China Sea: Evidence, causes and implications | Chaoqi ZHU, Yonggang JIA (Ocean University of China) | |
| 14:35-15:00 | Tea break | | |
| 15:00-15:15 | Shear resistance model during landslide | Fawu WANG | Tonglu LI |

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| | motion and evaluation of the impact force of submarine landslide on pipeline | (Shimane University, Japan) | Jianping CHEN |
| 15:15-15:30 | Study on bearing capacity and Anti-scourability of offshore umbrella suction anchor foundation | Peng YU, Hongjun LIU (Ocean University of China) | |
| 15:30-15:45 | Analysis of factors affecting the stability of the high earth-rockfill embankment at river bank | Yan LIANG (Chang'an University, China) | |
| 15:45-16:00 | Vibration characteristics of foundation soil in high speed train in cold regions | Aiping TANG (Harbin University of Technology, China) | |
| 16:00-17:00 | Core time for poster session | | |
| 17:00-17:15 | Simulation of submarine landslide impact on the streamlined pipeline under low temperature | Tingkai NIAN (Dalian University of Technology) | Yonggang JIA Lei NAI |
| 17:15-17:30 | Study on stability of surrounding rock and support structure of unsymmetrical loading tunnel | Shulin DAI (Jilin University, China) | |
| 17:30-17:45 | Dynamic process and risk assessment of Lahar in Changbai Mountain | Shengwu QIN (Jilin University, China) | |
| 18:30-20:00 | Banquet, Award Ceremony, Closing Ceremony | | Zhenxue DAI Manchao HE |

7. Post presentation (Poster size: 0.635m×0.890m)

1. The investigation of landslide disaster induced by 1920 Haiyuan great earthquake
Xiaobo LI, Jingshan BO (Institute of Disaster Prevention)
2. The study on sand liquefaction of the 2018 Songyuan Ms 5.7 Earthquake
Ping LI, Jingshan BO (Institute of Disaster Prevention)
3. An integrated pipe gallery system connecting land-island-reef
Xingsen GUO, Tingkai NIAN (Dalian University of Technology)
4. Experimental Study on Marine Clay-Slope Failure under Hydrate Dissociation
Xiaolong SONG, Tingkai NIAN (Dalian University of Technology)
5. Estimation of soil-water characteristic curve of loess with mercury intrusion method
Hua LI, Tonglu LI (Chang'an University, China)
6. Determination of soil available water range and reasonable irrigation
Ruijun JANG, Tonglu LI (Chang'an University, China)
7. Study on the characteristics of water migration in unsaturated soils

- Yu Wang, Tonglu LI (Chang'an University, China)
8. Influence of seepage flows on the erodibility of fluidized silty sediments: parameterization and application
Shaotong ZHANG, Yonggang JIA (Ocean University of China)
 9. Research and application of in situ monitoring system for marine engineering environment。
Lei GUO, Yonggang JIA, Siyuan YE, Zhilei SUN (Ocean University of China)
 10. In-situ observations of the evolution process of submarine landslides failure interface on Yellow River subaqueous delta
Hong ZHANG, Zhenhao WANG, Hongxian SHAN (Ocean University of China)
 11. Study on Bearing Capacity of Single Pile Foundation for Offshore Wind Power
Ruiheng HU, Hongjun LIU (Ocean University of China)
 12. Regional 3D slope stability analysis by means of GIS and Scoops3D ---A case-study in Unnan, Shimane
Shuai ZHANG, Fawu WANG (Shimane University, Japan)
 13. Risk assessment of landslide dam using synthetic aperture radar (SAR)
Prakash DHUNGANA, Fawu WANG (Shimane University, Japan)
 14. Landslide susceptibility mapping with respect to mineral using GIS and RS
Kounghoon NAM, Fawu WANG, Gyocheol JEONG (Shimane University, Japan)
 15. Initiation mechanism of Kataragai flow-like landslide triggered by the 2018 Western-Shimane earthquake
Ran LI, Fawu WANG (Shimane University, Japan)
 16. The damage characteristics of geo-disasters on lifeline system
Delong HUANG, Jiqiang ZHANG (Harbin University of Technology, China)
 17. Study of flash flood and debris flow disaster prediction and early warning system for Xiqugou catchment, Fangshan district, Beijing
Chen CAO (Jilin University, China)
 18. Research on the structure characteristics and quality partition of the rock mass in the dam abutment of the Songta hydropower station located in the rapidly uplifting Nu River
Shengyuan SONG (Jilin University, China)
 19. Soil mass failure due to water infiltration and sub-erosion: a case study of soil slope failure at the national geological park of Qian-an mud forest, China
Yan XU (Jilin University, China)

Notice:

- a) Poster document (.jpg format, large than 2M) should be submitted to the organizer before 10 August 2018. The poster size should be: 0.635m×0.89m.
- b) The best poster will be selected during the core time which will be awarded as “Zhoudi Special Event Award”.