

5th International Debris Flow Workshop & Symposium on Silk Roads Disaster Mitigation

November 5-6, 2018

Beijing, China

Second Announcement

Background

Asia is one of the most prone regions to compound geo-hazards. As human development encroaches hillsides and as extreme rainfall events occur with increasing frequency due to climate change, the threat posed by compound geo-hazards will inevitably increase. The seriousness of this threat is reflected by recent disasters such as landslide in Siaolin Village, Chinese Taipei in 2009, debris flows in Zhouqu, China in 2010, landslide in Hiroshima, Japan in 2014, and landslide in Mao County, China in 2017, have caused total thousands of deaths and seriously affected the social and economic development. Consequently, these hazards drew great attention of scientists due to their unique characteristics and appeared as new geological and geomorphic phenomena. For instance, deep-seated landslides formation mechanism were studied after the Siaolin Landslides; the concept of “scale-enlargement effects” of debris flows in channels were experimentally investigated after the 2010 Zhouqu debris flow, and the research of channel erosion of debris flow was carried out after several catastrophic debris flows in the Wenchuan Earthquake area, e.g., Wenjia Gully in 2010. Both experimental and numerical approach capabilities in each country/region were significantly improved through the continuous study of the basic mechanism behind these hazard events. The information and academic exchange of these new theoretical products and techniques benefit both the scientific research and the practical hazards mitigation level.

The Silk Road Economic Belt and the 21st Century Maritime Silk Road (simply called “the Belt and Road” or “Silk roads”) covers more than 70 countries and 4.4 billion people (63% of the world). Due to the active underlying geological structure, rapid tectonic uplift, and the obvious climate differences, natural hazards (e.g., landslides, and debris flows etc.) occur frequently along the Silk Road Economic Belt. These frequently occurring natural hazards along "the Belt and Road" seriously affect the safety and social development of multiple nations. It is thus necessary to conduct fundamental research on hazard mechanisms to provide scientific guidance for natural hazards prevention, construction of major

infrastructure, and disaster relief with high efficiency and precision.

Asian Network on Debris Flow (ANDF) is a non-governmental international academic organization, aiming to provide a platform to organize academic conferences and training, to promote the project collaboration, and to improve the mountainous hazards study and mitigation technology in all Asian countries and regions. The international workshop of ANDF has been held every two years since 2010. The past events were highly successfully held in Chengdu (2010, 2012), Tainan (2014) and Kyoto (2016), respectively. The **5th workshop** will be organized by the **Institute of Mountain Hazards and Environment, Chinese Academy of Sciences**, held on **November 5-6, 2018 in Beijing, China**.

The other special issue named “Disaster mitigation on Silk Roads” will be organized in this joint workshop. This forum will focus on the influence and mitigation strategy of cross-border mountainous hazards, and also comprise the discussion of international cooperation mechanism of hazards research and mitigation.

Objective

The Joint workshop will provide a platform for mountainous hazards researchers to exchange ideas and share experiences on how to cope with hazards using the most advanced, state-of-art methodologies in mechanics as well as in hazards prediction, composed disasters prevention, and risk assessment. How to strengthen the international cooperation of hazards research and related disasters mitigation is the other focus of this joint workshop.

Topics

The subjects of this workshop are mountainous hazards and environment issues, including landslides, debris flows, dammed lakes, sediment yielding, river environment evolution, and so on. The topics of the workshop will focus, but not limited to:

- Formation process and mechanism of mountainous hazards
- Numerical modeling of mountainous hazards
- Risk assessment of mountainous hazards
- Observations and measurements of mountainous hazards
- Countermeasures (Hardware & Software) of mountainous hazards
- Hazards process interaction with human activity and eco-environment

Additionally, the special issue of “Disaster mitigation on Silk Roads” will comprise the topics as:

- Spatial distribution of mountainous hazards and relevant damages towards major project

- Risk assessments and predictions of mountainous hazards on the Silk Roads
- Mitigation strategies and prevention measures of large-scale hazards on the Silk Roads
- International cooperation mechanism in disaster mitigation

Language: English

Host and Organizers

Host

Chinese Academy of Sciences

Asian Network on Debris Flow

China Water and Soil Conservation Society

Organizer

Institute of Mountain Hazards and Environment, CAS

Chairman

Peng Cui, Ph. D

Prof. of Key Laboratory of Mountain Hazards and Earth Surface Process, Institute of Mountain Hazards and Environment, CAS

Co-organizers

College of Water Resource and Hydropower, Sichuan University

College of Geological Engineering and Surveying, Chang'an University

The School of Engineering, The Hong Kong University of Science and Technology

Institute of Earth Surface System and Hazards, Northwest University

School of Civil Engineering, Southwest Jiaotong University

School of Resource Environment and Safety Engineering, Hunan University of Science and Technology

School of Soil and Water Conservation, Beijing Forestry University

5•12 Wenchuan Earthquake Memorial Museum

Committee members

Academic Committee Members

Chack-Fan Lee **Chairman**, The University of Hong Kong

Alexander Strom Geodynamics Research Center - branch of JSC "Hydroproject Institute"

Charles W.W. Ng The Hong Kong University of Science and Technology

Chjeng-Lun Shieh	National Cheng Kung University
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Masaharu Fujita	Kyoto University
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Roza Yafyazova	National Hydrometeorological Service (Kazhydromet), Kazakh Ministry for Environmental Protection
Samran Sombatpanit	Association of Soil and Water Conservation
Shinji Egashira	International Centre for Water Hazard and Risk Management under Auspices of UNESCO
Su-Chin Chen	National Chung-Hsing University
Takahisa Mizuyama	Kyoto University
Zhaoyin Wang	Tsinghua University

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Chair:	Xiaoqing Chen	Vice President, Institute of Mountain Hazards and Environment, CAS
Deputy Chair:	Aaron X. J. Guo	Institute of Mountain Hazards and Environment, CAS
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	Clarence Choi	The Hong Kong University of Science and Technology
	Yuan-Jung Tsai	Disaster Prevention Research Center, National Cheng Kung University

Submission

Abstract:

The abstract will be peer-reviewed, and the selected abstracts will be invited to give an oral presentation at the workshop. The abstract should completely present the outline and main points of the paper and give the principal conclusions and should be a single paragraph of no more than 400 words with the heading Abstract centered. Add “Keywords” (no more than 8 words) after the abstract. Use the “Times” font with

the size of 12-pt. Note that 14-pt fonts should be used for the paper title. Abstracts should be prepared in A4-sized (210mm x 297mm) white papers. Keep proper margins on top (2.54 cm), bottom (2.54 mm), left (3.18 mm) and right (3.18 mm), respectively. The text should be typed in single space.

Abstract Format Download:

<http://www.2018idfw.com> or <http://www.andf.kmcloud.ac.cn/2018ANDF>

Manuscript:

This workshop cooperates with Journal of Mountain Sciences (JMS). Manuscripts are welcomed. The manuscripts will be peer-reviewed by JMS, and top 15% of them with high-academic quality will be published on a Special Issue of “Debris Flow: Mechanics, Prediction, Risk Assessment and Control” in 2019.

Please submit your manuscripts through:

<http://www.2018idfw.com> or <http://www.andf.kmcloud.ac.cn/2018ANDF>

The manuscripts Format Download: <http://jms.imde.ac.cn/web/21915/downloads>

Registration

The registration fee will cover the welcome reception, participation in the scientific sessions, booklets, coffee, tea and snacks, lunches, (social) dinner and another service during the meeting, BUT NOT cover the traveling, field trip, room, international express deliveries, and private business expenditures. In addition, we encourage Chinese scholars payment of RMB for convenient to make out an invoice.

Registration Category		Fee
Deadline for registration October 14, 2018	Participants	200 USD (1300 RMB)
	Students	100 USD (650 RMB)
On-site registration	Participants	300 USD (2000 RMB)
	Students	150 USD (1000 RMB)

Workshop Venue and Accommodation

Site: Mukamu Grand Ballroom, Xinjiang Plzaza

Address: No.7 Sanlihe Road, Haidian District, Beijing

Hotline: +86-010-68339999

Website: <http://www.xinjiangplaza.com/en/index.html>

Please make your hotel booking through email, website, fax or telephone at least two month prior your check-in day. The special discount will be provided to the guest of “5th International Debris-Flow Workshop”.

Room Type and Price (RMB per night)

The Guest Building	Standard Single Room	≈550RMB
	Standard Double Room	≈550RMB
The VIP Building	Standard Single Room	≈650RMB

Field Trip

1-day trip: Beijing → Miyun reservoir → debris flows around Fanzipai village → debris flows in Ketai watershed → Beijing



Debris flows caused great damages and influenced the social and economic development in Beijing historically. They have mainly concentrated distribution in the northern mountainous area, e.g., in Miyun and Huairou County. Nearly 40 events were recorded from 1949 to 2010. During that period, the Fanzipai debris flows in Miyun County are the most serious for their serious damages. In 1989 and 1991, the debris flows damaged the minefield, blocked the traffic, destroyed more than 800 houses and caused more than 300 million RMB lose.

The debris flow countermeasures, including both the engineering and ecological projects, will be investigated during this trip in Ketai watershed and Fanzipai village. It is located in the upstream of Baimaguan watershed, and about 130 km from Beijing City.

As the main water supply of the 20 millions of inhabitants in Beijing City, the Miyun reservoir has a storage capacity of 40 billion of water, with a mean depth of 30 meters. This reservoir has 7 dams (2 key dams and 5 Auxiliary dams), with a total length of 4500 meters. It is located about 13 km to Miyun County.

This field trip will take one day on Nov 7, 2018.

Important dates

Deadline for abstract submission	Deadline extend to July 10, 2018
Acceptance of abstract notification	Notification extend to July 31, 2018
Deadline for full-text paper submission	Submission extend to September 30, 2018
Opening of registration	August 1, 2018
Deadline for registration	October 14, 2018
Check-in day	November 4, 2018
Workshop period	November 5-6, 2018
Field trip	November 7, 2018
Acceptance of full-text paper notification	December 31, 2018

Useful Information

Weather

It is early winter in November in Beijing. The temperature here will be between 0 and 15°C during the workshop. Warm clothes are required.

Insurance

The Secretariat of the Workshop recommends all the participants purchase Life Insurance, Property Insurance, Medical and Travel Insurance before coming to China. The organizer will not be responsible for personal accidents and property loss during the Workshop and the field trips.

Exchange

RMB (Yuan) is the only currency in circulation in China. Participants can exchange their currencies at airports, major hotels, and banks in China. The exchange rate will be given daily by the Bank of China. Currently, 1 US dollar can be exchanged for about 6.42 Yuan RMB. Please keep in mind that the exchange

receipt should be saved in case those participants want to exchange RMB back to their own currencies. Banks may demand to see the previous exchange receipt.

Voltage

220V, 50HZ, flat blade attachment plug (without holes in blades and slightly short blades) and flat blades with round grounding pin are used as a national standard in China.

Reconfirmation of reservations

The international air-ticket should be reconfirmed 72 hours ahead of the departure time. The Front Desk of your hotel can help you do that.

Contact persons

To request specific information on the workshop and the field trips, to submit an abstract, to pay the registration fees, and/or any other help or assistance, please contact us.

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