

First Announcement

5th International Debris Flow Workshop

November 5-6, 2018 Beijing, China

Background

Asia is one of the most prone regions to geo-hazards. In recent years, more and more natural hazards occurred, on one hand, increased the hazards risks and caused many casualties, e.g. landslide in Siaolin Village, Chinese Taipei in 2009, debris flows in Zhouqu, China in 2010, and landslide in Mao County, China in 2017, have caused thousands of deaths and seriously affected the social and economic development. On the other hand, these hazards draw 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 concentrated after the Siaolin Landslides; concept of “scale-enlargement effects” of debris flows in channels were presented and experimentally investigated after the 2010 Zhouqu debris flow; and the research of channel erosion of debris flow was carried out the after the Wenjia debris flow in 2010. The experimental and numerical simulation capabilities in each country/region were significantly improved through the continuous research of these hazards events. The information and academic exchange of these new theoretical products and techniques benefit both the scientific research and the practical hazards mitigation level.

Asian Network on Debris Flow (ANDF) is a nongovernmental international academic organization, aiming to provide a platform to hold academic conferences and training, to promote the project collaboration, to improve the debris flow study and mitigation technology in all Asian countries and/or 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 held by the Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, on November 5-6, 2018 in Beijing, China.

Objective

The Workshop will provide a forum for debris flow researchers to exchange ideas and share experiences on how to cope with geo-hazards using the most advanced, state-of-art methodologies in mechanics as well as in hazard prediction, composed disaster prevention, and risk assessment. How to strengthen the international cooperation of geo-hazards research and sediment related disaster mitigation is the other focus of this workshop.

Topics

Traditionally, the subjects of this series of the workshop are mountainous hazards and environment issues, including landslides, debris flows, dammed lakes, sediment yielding, river 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
- Hazards countermeasures (Hardware & Software)
- Hazards mitigation interaction with human activity and eco-environment
- Community disaster preparedness and disaster education
- International cooperation mechanism in hazards countermeasures

Language : English

Committee and Co-host

Chairman

Peng Cui, Ph. D

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

Organizers

Asian Network on Debris Flow (ANDF)

Key Laboratory of Mountain Hazards and Earth Surface Process, CAS

Institute of Mountain Hazards and Environment, CAS

Co-organizers

College of Water Resource and Hydropower, Sichuan University

School of Civil Engineering, Southwest Jiaotong University

College of Geological Engineering and Surveying, Chang'an University

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

Institute of Earth Surface System and Hazards, Northwest University

School of soil and water conservation, Beijing Forestry University

5•12 Wenchuan Earthquake Memorial Museum

Executive Committee Members

Chair: **Xiaoqing Chen**, Institute of Mountain Hazards and Environment, CAS

Deputy Chair: **Aaron Guo (Xiaojun Guo)**, Institute of Mountain Hazards and Environment, CAS

Kun-Ting Chen, Institute of Mountain Hazards and Environment, CAS

Members: **Chao Ma**, School of soil and water conservation, Beijing Forestry University

Ching-Ying Tsou, Faculty of Agriculture and Life Science, Hirosaki University

Yuan-Jung Tsai, Disaster Prevention Research Center, National Cheng Kung University

Academic Committee Members

Chack-fan Lee, Hong-Kong University

Chjeng-Lun Shieh, National Cheng Kung University

Hajime Nakagawa, Kyoto University

Ko-Fei Liu, National Taiwan University

Kuang-Jung Tsai, Chang Jung Christian University

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

Zhao-Yin Wang, Tsinghua 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>

Important dates

Deadline for Abstract Submission	May 31, 2018
Acceptance of Abstract Notification	June 29, 2018
Deadline for Full-text paper Submission	July 31, 2018
Acceptance of Full-text paper Notification	December 31, 2018
Opening of Registration	August 1, 2018
Deadline of Registration	October 14, 2018
Check-In day	November 4, 2018
Workshop Period	November 5-6, 2018
Field trip	November 7, 2018

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.

Registration Category		Fee (US\$)
Deadline for Registration, October 14, 2018	Participants	\$ 200
	Students	\$ 100
On-site Registration	Participants	\$ 300
	Students	\$ 150

Field Trip (Tentative)

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 in the period of 1949-2010, and during them, the Fanzipai debris flows in Miyun County are the most serious for their serious damages. In 1989 and 1991, the debris flows damaged the mine field, 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 mean depth of 30 meters. This reservoir has 7 dams (2 key dams and 5 Auxiliary dams), with 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.

Contact persons

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More Information

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