

INTERPRAEVENT International Symposium 2018 in the Pacific Rim “Large scale sediment disasters in orogenic zones and countermeasures”

Date: October 1 (Mon) - October 4 (Thu) 2018
Venue: Toyama International Conference Hall, Toyama City, Toyama Prefecture, Japan
Organized by: The Pacific Rim INTERPRAEVENT Committee of Japan (PRIC)
Organizing Committee of INTERPRAEVENT International Symposium 2018
Co-organized by: International Research Society INTERPRAEVENT
Japan Society of Erosion Control Engineering (JSECE)
International Sabo Association (ISA)
Supported by: Ministry of Land, Infrastructure, Transport and Tourism (MLIT)
Toyama Prefectural Government
In cooperation with: Japan Sabo Association (JSA)
Sabo and Landslides Technical Center (STC)
Sabo Frontier Foundation (SFF)
Japan Association for Slope Disaster Management (JASDiM)

Purpose: Disasters associated with seismic and volcanic activities which are peculiar to orogenic zones occur frequently in the whole Pacific Rim. In addition, catastrophic sediment disasters caused by heavy rains and big typhoons are occurring increasingly in recent years as a result of climate change. People in the orogenic zones had to live with disasters exerting desperate efforts to mitigate the impacts of such disasters. Technologies for disaster mitigation developed under such circumstances over a long time in the past should be regarded as the world heritage of mankind to be inherited for long in the future.

Toyama Prefecture is particularly abundant in historical facilities which are the crystallization of technologies to deal with such disasters. Their historical value should be recognized highly among engineers, researchers, administrators, educators, and many others who are concerned with sediment disasters. Further, messages should be sent to the world emphasizing the importance of (1) verification, development and handing over to the future of the technologies, and (2) soft approaches such as public awareness, disaster risk management and so on.

In Toyama Prefecture, a huge amount of sediment discharge of several hundred million cubic meters due to collapse of a mountain triggered by the great earthquake in 1858 blocked up the river to form a natural dam, which later collapsed and caused an extensive damage in the downstream areas in the Toyama plain. SABO works were undertaken continuously for over 110 years thereafter to stabilize the sediment accumulated in the rivers and mountain flanks. The current successful development of the Toyama plain as an area safe from natural disasters and rich in a variety of products is thanks to this long strenuous SABO works.



Panoramic view of Tateyama caldera

With these historical developments in the background, INTERPRAEVENT 2018 will be held in October 2018 in Toyama.

Topics: The topics of the symposium “Large scale sediment disasters in orogenic zones and countermeasures” is divided into the following six categories.

1. Field observation, Analysis and Modeling
 - Geological, Geomorphological or Hydrological Settings

- Characteristics of processes and behaviors
 - Remote sensing, GPS and GIS techniques for mapping and modelling etc.
2. Catastrophic disaster
 - Triggering mechanism
 - Catastrophic disasters caused by volcanic eruption
 - Preparation and urgent measures for catastrophic disasters, and so on
 3. Structural measures and effects
 - Efficient design method and site selection of facilities
 - Methods of construction considering influence on environment and ecosystem
 - Maintenance of facilities
 - Secondary use of facilities
 4. Evaluation of historical SABO facilities and historical land use regulations, and their effective use in the future
 - Examples of historical SABO facilities
 - Examples of historical land-use regulations in disaster prone areas
 - Evaluation of the facilities from the present view point in terms of effectiveness and influence on environment
 - Examples of historical local disaster management plan which made use of wisdoms of old generations
 - Effective use of facilities considering social and economic change in the future
 - ※ “historical” means more than 50 years
 5. Risk/Crisis management and non-structural measures
 - Advanced monitoring technologies and warning systems
 - Methods and procedures for risk management
 - Hazard zoning and mapping
 - Education and local action aiming at disaster mitigation etc.
 6. Sustainable land-use management
 - Actual state of land-use in hillside areas and issues to address
 - Advanced planning methods for sustainable land-use
 - Administration for sustainable land-use
 - Law aiming at disaster reduction

Program

I. Symposium

The symposium will be held from 1 October 2018 to 4 October 2018 in Toyama International Conference Hall.

II. Language

The official language of the Symposium is English (no simultaneous interpretation will be provided).

III. Schedule

	AM	PM	Evening
October 1 (Mon)	Registration	Opening Ceremony Keynote Speech	Welcome Reception
October 2 (Tue)	Oral Presentation	Oral Presentation Poster Session Core Time	
October 3 (Wed)	Excursion	Excursion	
October 4 (Thu)	Oral Presentation	Panel Discussion, Poster Session Core Time Closing Ceremony	

IV. Registration Desk

October 1 (Mon)	10:00~18:00
October 2 (Tue)	09:00~17:00
October 3 (Wed)	N/A
October 4 (Thu)	09:00~17:00

V. Keynote Speech

Speakers from several countries will speak on October 1 about SABO of each country with regard to characteristics of recent disasters, policies and measures for disaster reduction, direction of research activities, evaluation of historical facilities etc.

VI. Oral Session

Papers will be divided into several groups according to the topics. Oral presentation will be made for several papers in each group judging from the full papers, with 15 minutes for presentation and 5 minutes for question and answers each.

VII. Poster Session

Posters will be displayed on October 2 and 4, with core time in the afternoon. Papers for posters will be selected in reference to the extended abstracts.

VIII. Panel Discussion

Panel discussion will be made comprehensively on characteristics of disasters, planning of facilities, evaluation of effectiveness of facilities etc., with focus on (1) technologies developed and applied to fight against large scale disasters triggered by extreme weather events, volcanic eruptions and earthquakes which are peculiar to orogenic zones, and (2) evaluation of historical SABO facilities and historical land-use regulations, and their effective use further in the future,

IX. Excursion

Excursion will be held four courses to visit Sabo works and see facilities etc. Another excursion for accompanying persons will be arranged, visiting the World Heritage site in Toyama.

※Every course has limited numbers of people who can participate, We might not be able to meet your request.

Excursion-1 : Earthquake, Landslide Disasters and Historic Sabo course



Shiraiwa Sabo Dam
: Nationally designated
important cultural properties

Myo-Jyu Sabo Dam
with movable shutters

Dorodani Sabo Dam Group
Revitalizing the Greens

We will see the Sabo works against sediment-related disasters caused by the earthquake etc. and historical sabo facilities such as Shiraiwa Sabo dam in the Tateyama caldera. We will also board the fantastic Trolley Train that was designated as the Registered Monument by the government carrying the materials for Sabo works. In addition, we will see the Tateyama Caldera Sabo Museum.

※Excursion-1 will be changed to Excursion-2 on a rainy day.

Excursion-2: Countermeasures against the Steep River course



Hongu Sabo Dam
; National Registered Tangible
Cultural Properties



Yokoe Headworks



Tateyama Caldera Sabo Museum

We will see the Tateyama Caldera Sabo Museum, which introduces the nature and history of the Tateyama caldera and the sabo works. By observing the Hongu Sabo dam and the Yokoe headwork etc. in the middle of the Joganji River, we will learn about countermeasures against the steep river in Joganji River.

Excursion-3: Integrated Sediment Transportation Management course



Kuronagi-River No.2 Downstream Sabo Dam
(under construction)



Unazuki Dam



Aramata Coast

The Kurobe River is one of the steepest rivers in Japan, and the sediment runoff is remarkable in the degraded land upstream of it, and the fan is developed by the sediment discharged. Its slope is about 1/5 to 1/80 in the mountains and about 1/100 in the fan area. In this course, we will visit the integrated sediment management including Sabo dam, Unazuki Dam which is the only multipurpose dam with a full-scale sediment flushing gate in Japan, and Aramata coast.

Excursion-4: Volcanic Disasters and Sabo Works in Volcanic Areas course



Mt. Yakedake (active volcano)



Series of Sabo dams
in Shiratani Valley



Hirayu Falls



Shinhotaka Ropeway

We will visit activities to reduce damage (disaster mitigation) by structural measures and non-structural measures against sediment-related disasters caused by volcanic eruption of Mt. Yakedake which continues volcanic activity such as steam explosion in recent years.

In addition to visiting the Hotaka Sabo Observatory of Kyoto University, we will ride the Shin-hotaka Ropeway and experience hot springs.

Excursion-5: Feeling Japanese culture and history in Toyama course



Gokayama Ainokura Gassho-style Village
; World Heritage (UNESCO)



Zuiryu-ji Temple ; National Treasure



Takaoka Mikurumayama Museum
; Important Tangible and Intangible
Folk-Cultural assets of Japan (UNESCO)

We will visit the world heritage "Gokayama Ainokura Gassho-style Village" (steeply-pitched thatched roofs unique to heavy snowy areas) and the national treasure "Zuiryu-ji Temple" (Zen temple architecture of the 1600s) etc. in Toyama.

We will also visit the Takaoka Mikurumayama Museum. The Mikurumayama floats are considered one of the finest floats of this kind in all of Japan – noted for their unique coating carriage structure along with their elaborate ornamental work.

X. Notification of full paper submission

- Following the notification of extended abstract acceptance, all authors are requested to express their presentation preferences, either "Oral" or "Poster" or "No preferences". Please inform the Secretariat of Organizing Committee of INTERPRAEVENT 2018 (as shown below) your preference by October 27th, 2017. Although the authors' presentation preference is considered during the evaluation process, the final decision on the form of presentation, either "Oral" or "Poster", will be made by the Editorial Board.
- Authors who expressed "oral" and "no preferences" must submit a full paper.
- Authors who expressed "poster" are encouraged to submit a full paper.
- Full papers must be submitted to the Secretariat of Organizing Committee of INTERPRAEVENT 2018 by December 31st, 2017. Submitted papers will be evaluated by the Editorial Board. Authors whose full papers are not accepted are allocated a poster presentation. Poster presenters must submit their pdf files of posters to the Secretariat of Organizing Committee of INTERPRAEVENT 2018 by June 30th, 2018 (Minor changes will be allowed after submission).
- All presenters must register their symposium attendance and pay fees by July 31st, 2018, or papers will be withdrawn.
- Full papers accepted are published in the electronic symposium proceedings on the website of Interpraevent, <http://www.interpraevent.at>.
- CD-ROMs that include all full papers accepted, and printed copies of the extended abstracts are distributed at the time of the symposium.
- All extended abstracts and full papers accepted will be accessible via the symposium website, <http://interpraevent2018.jp/>. Please note that the website is closed in a short time after the symposium.

XI. Key Dates

Closure of submission of full paper	31 December 2017
Start of the pre-registration	January 2018
Closure of submission of revised full paper	30 April 2018
Final circular	May 2018
Notification on "Accepted" or "Not accepted" of the full paper	May 2018
Closure of submission of pdf file of poster	30 June 2018
Closure of the pre-registration for participation (with discount)	31 July 2018
Notification of the decision on the acceptance of oral and poster presentation	Early in Aug. 2018
Closure of participation registration and hotel reservation	31 July 2018

Information

1. Location

The symposium will be held at Toyama International Conference Center. (<https://www.ticc.co.jp/english/>)

Address: 1-2 Ote-machi Toyama-city Toyama

Access:

■ From Tokyo to Toyama (by air)

There are direct flights between Haneda Airport and Toyama Airport, which takes 1hr.

■ From Tokyo to Toyama (by Shinkansen)

The Hokuriku Shinkansen bullet train travels from Tokyo Station to Toyama station in 2hr 8min. in the shortest.

□ From JR Toyama Station

Tram: Approx. 7minutes to “Kokusai kaigijo-mae” station

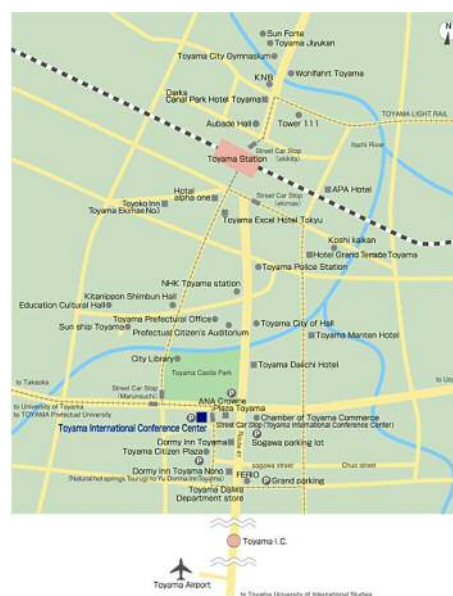
Bus: Approx. 5 minutes to “Joshi koen-mae” bus stop, and 3 minutes' walk

Walk: Approx. 15 minutes via Joshi Oodouri street to the south

□ From Toyama Airport

Taxi: Approx. 20 minutes

Bus (Airport Bus): Approx. 25 minutes to “Sogawa” bus stop, and 2 minutes' walk



2. Registration

Website for pre-registration will open on January 2018 (<http://interpraevent2018.jp>).

3. Recommended Hotels

ANA CROWNE PLAZA TOYAMA (<http://www.anacrowneplaza-toyama.jp/>)

Hotel Grand Terrace Toyama (<http://breezbay-group.com/m-toyama/>)

TOYAMA DAI-ICHI HOTEL (<http://www.hankyu-hotel.com/hotel/toyamadh/>)

Daiwa Roynet Hotel TOYAMA (<https://www.daiwaroynet.jp/english/toyama/>)

Dormy Inn Toyama (<http://www.hotespa.net/hotels/toyama/>)

TOYAMA EXCEL HOTEL TOKYU (<http://www.toyama-e.tokyuhotels.co.jp/ja/index.html>)

APA HOTEL TOYAMA-EKIMAE (http://www.apahotel.com/hotel/hokuriku/02_toyama-ekimae/) etc.

4. Participation Fee

● Symposium

Registration date	General participants	Students	Accompanying persons
Before 31 July 2018 (Pre-registration)	¥25,000	¥10,000	¥10,000
August 1- September 15	¥30,000	¥12,000	¥12,000
After September 16	¥35,000	¥14,000	¥14,000
Lunch	¥ 1,000/day		

● Welcome Reception ¥6,000

● Excursion ¥7,000 (including lunch)

* The information above is provisional.

* The fees above do not include accommodation fee etc.

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※The contents are subject to change without notice.