

Third Circular

International Conference on

Management of Landslide Hazard in the Asia-Pacific Region

11th -15th November 2008

(Satellite symposium of the First World Landslide Forum, Tokyo)

Conference on 11th – 12th November 2008

At No. 8 building, Tsuchitai Campus, Tohoku Gakuin Univ., Sendai, Miyagi Prefecture,
Japan

Post-Conference Field Trip on 12th – 15th November 2008

Large-scale landslides including earthquake triggered and preventive activities from Sendai to Niigata, Japan

Organizer : **Japan Landslide Society**

Co-organizers : International Consortium on Landslides
Research Centre on Landslides of Disaster Prevention Research Institute (DPRI) (Kyoto University, Japan)
Research Center for Natural Hazards and Disaster Recovery (Niigata University, Japan)
International Landslide Centre (Durham University, UK)
Nepal Landslide Society
Department of Applied Geology (Karlsruhe University, Germany)

Sponsors: Japan Society of Erosion Control Engineering
Japan Society of Engineering Geology
Japan Society for Natural Disaster Science
Association of Japanese Geographers
The Japan Geotechnical Society

Conference Website: <http://japan.landslide-soc.org/index-e.html>

Contact Persons:

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Organizing Committee

- Chair:** Prof. Dr. Hideaki MARUI (President, Japan Landslide Society)
- Secretary:** Prof. Dr. Toyohiko MIYAGI (Tohoku Gakuin University, Sendai, Japan)
- Members:** Dr. Allahbukhsh KAUSAR (Geological Survey of Pakistan, Islamabad, Pakistan)
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Dr. Hiro-omi NAKASATO (National Institute for Rural Engineering, Tsukuba, Japan)
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Dr. Ryosuke TSUNAKI (Sabo Technical Center, Tokyo, Japan)
Prof. Dr. Shangfu KUANG (China Institute of Water Resources and Hydropower Research,
China)
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Dr. Takashi INOKUCHI (National Research Institute of Earth Science and Disaster Prevention
Tsukuba, Japan)
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Dr. Vishnu DANGOL (Nepal Landslide Society, Kathmandu, Nepal)
Mr. Yuichi UENO (Nippon Koei Co. Ltd., Tokyo, Japan)

Steering Committee

- Chair:** Prof. Dr. Toyohiko MIYAGI (Tohoku Gakuin University, Sendai, Japan)
- Secretary:** Dr. Vishnu DANGOL (Nepal Landslide Society, Kathmandu, Nepal)
- Members:** Prof. Dr. Daisuke HIGAKI (Hirosaki University, Hirosaki, Japan)
Dr. Hiroshi FUKUOKA (Research Centre on Landslides of DPRI, Tokyo, Japan)
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Mr. Jun UMEMURA (Nihon University, Koriyama, Japan)
Prof. Dr. Masahiro CHIGIRA (Geohazards Division of DPRI, Kyoto, Japan)
Mr. Noriyuki CHIBA (Tohoku University of Technology, Sendai, Japan)
Dr. Takanari YAMASAKI (Japan Conservation Engineers Co. Ltd., Saitama, Japan)

Field Trip Committee: Prof. Dr. Hiroshi YAGI (Chair) **Three days field trip is fully occupied.**

Editorial Committee: Prof. Dr. Masahiro CHIGIRA (Editor-in-Chief)

Greetings from Chairperson of the Organizing Committee

The Japan Landslide Society hosts the International Conference on “Management of Landslide Hazard in the Asia-Pacific Region” which will be held soon on 11th – 15th November 2008. This specific event is the significant step to promote scientific and technical exchange in the field on management of landslide hazard among many countries that are seriously threatened by landslide disasters. Japan is also severely suffered from various types of landslide disasters especially caused by heavy rainfall, typhoon, earthquake and volcanic activity. Japan had to develop its specific science and technology to prevent or mitigate those landslide disasters.

Reflecting the fact that comprehensive and interdisciplinary approaches are requested for management of landslide hazards, the Organizing Committee of the International Conference attempts to synthesize a broad variety of topics that range from basic to practical aspects. The topics include geological and geomorphological processes, risk assessment and management, hazard zoning, stabilization measures and so on.

This Conference will be held in Sendai, located in northeastern Japan. Sendai is a comfortable and pleasant city. It is abundant in green and called as “Forest City”. A post-conference field trip is scheduled immediately after the Conference from 12th to 15th November. This trip will provide an opportunity to the participants to observe panoramic landscapes and representative landslides on the way across the northeastern island arc from the Pacific to the Japan Sea coast.

The Organizing Committee would like to extend special appreciation to all active participants from various countries for their contributions.

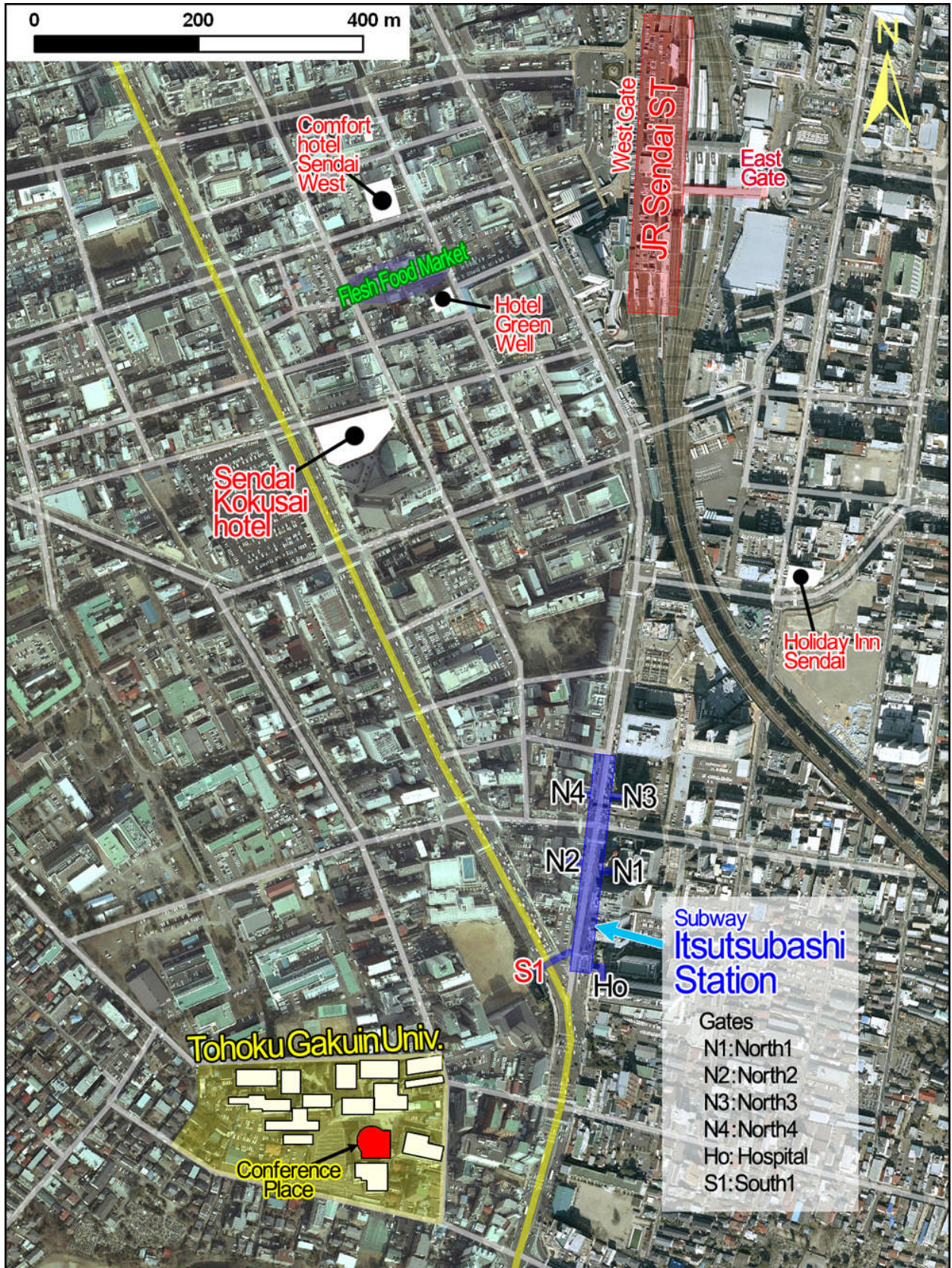


Hideaki Marui
Convener and President of Japan
Landslide Society

10th Sep. 2008

VENUE

The conference venue is located at the Building No. 8 of the Tsuchitoui Campus of the Tohoku Gakuin University, Sendai. The Tsuchitoui Campus is located about 1.5 km southwest from the Sendai station, and is near to Itstsubashi subway station.

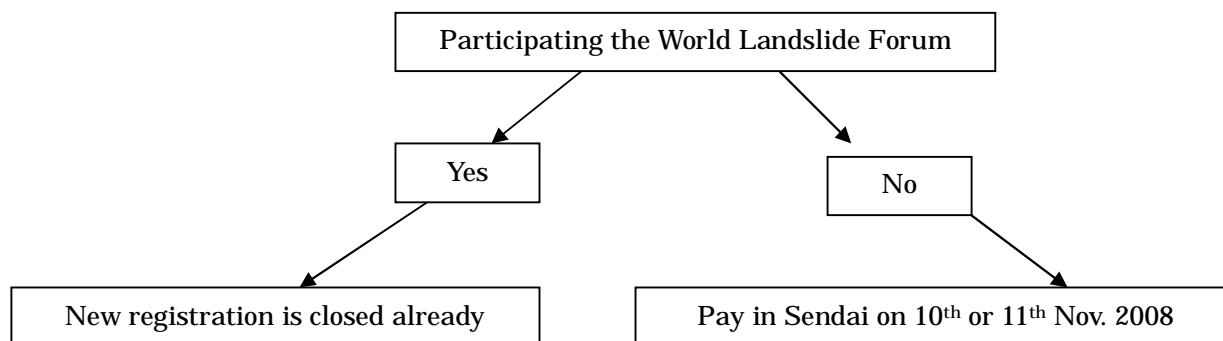


REGISTRATION

The fees for participating in the conference and post conference field trip as well as of the First Landslide Forum are indicated below. Students must submit documentary evidence of being enrolled in the year 2008. The registration fee includes the conference documents and proceedings, access to the programme and conference banquet. The fee for field trip covers for the field guide, maps, bus transport, and lodging from 12th November to 14th November 2008. As the field trip is fully occupied, we set one day trip to landslide area near Sendai. The fee is 4000 JPY which includes transportation and light food for lunch. Please contact T. Miyagi, the chair of the steering committee, to take part in the one day trip,

Date	Event	Registration fee by September 19, 2008	Registration fee on/after 19/09/ 2008	Remarks
Morning on Nov. 11 to Afternoon on Nov. 12	International Conference in Tohoku-Gakuin University, Sendai	Individual - Yen 15,000 Student - Yen 10,000 Accompanying Person - Yen 6,000 (for conference banquet)	Individual - Yen 15,000 Student - Yen 10,000 Accompanying Person - Yen 6,000 (for conference banquet)	Hotels directly to be reserved. Or contact: miyagi@izcc.tohoku-gakuin.ac.jp
Participation to Conference, Proceedings and Conference banquet are included in the Registration fee				
Afternoon on Nov. 12 to Evening on Nov. 15	Field trip from Sendai to JR Nagaoka Station, Niigata Prefecture	Full occupancy		JR Nagaoka station to Tokyo is 95 minutes (2 trains/hour) The JR East Flex Pass is usable.
18-21 November	First World Landslide Forum	Yen 25,000	Yen 30,000	Contact: wlf@iclhq.org
	Participation to Conference, CD proceedings and Welcome reception are included in the Registration fee.			
	Two full color books	Yen 24,000	Yen 24,000	Yen 50,000 after the Forum
	Post Conference Dinner	Yen 12,000	Yen 12,000	Application on/after November 5 may not be accepted.

Mode of Payment



1. The registration and field trip fees may be paid at the Conference desk on 11th November 2008.
2. The participants of the First World Landslide Forum, which will to be held in Tokyo from 18th to 21st November, need to pay registration and field trip fees of this conference through the [Kinki Nippon Tourist Co. Ltd](http://www.knt-ec.net/2008/wlf/index.html) (<http://www.knt-ec.net/2008/wlf/index.html>).

KEYNOTE AND SPECIAL PAPERS

During the conference, one keynote paper and two special papers will be presented. Both the papers will be presented after the Opening Ceremony of the Conference.

COUNTRY REPORTS

There will be seven country reports on Landslide Disaster Mitigation from China, Indonesia, Japan, Thailand, Nepal, Pakistan and Vietnam. All the country reports will be presented in special session of the conference.

PAPER PRESENTATION

Oral presentation. The time allocated for standard oral presentations is **18 minutes (15minutes plus three for discussion)**. An LCD projector and computer (Windows OS) will be available at the venue. Authors are strongly encouraged to prepare their own presentation on **MicroSoft PowerPoint** and provide to the organizer in advance with all link files.

Poster presentation. Special slots have been scheduled with the express purpose of focusing attention on this important form of presentation. **The display boards comprise panel(s) of 90 cm wide and 180 cm high.** The author(s) must be present at the poster booth during the poster session (please see the daily schedule of the conference). **Posters must be removed from display boards at the end of the Conference.**

Time schedule of the conference			
Date	Time	Schedule	Outline
11Nov.	8:20 - 9:10	Registration	Entrance of Oshikawa Hall
	9:10 - 9:30	Opening ceremony	Oshikawa hall
	9:30 - 10:45	Keynote & Special Papers	Oshikawa hall (Key note by D. Petley, Special papers by G. Hearn and A. Strom)
	10:45 - 11:00	Coffee break	
	11:00 - 12 : 30	Oral session A1 & A2	5 speech in Oshikawa hall, 5 speech in 3F A room
	12 : 30 - 13:15	Lunch	Self in Univ. canteen or elsewhere.
	13:15 - 14:00	Poster session (odd number)	About 25 posters
	14:00 - 16:06	Oral session B and a part of C	7speech in Oshikawa hall, 7 speech in 3F A room
	16:06 - 16:20	Coffee break	
	16:20 - 17:30	Oral session (D and part of C)	4 speech in Oshikawa hall, 4 speech in 3F A room
	17:30 - 17:45	Instruction for excursion, Remarks	Oshikawa hall
19:00 - 20:30	Reception	Sendai Kokusai Hotel	
12 Nov.	9:00 - 10:12	Oral session E1 & E2	4speech in Oshikawa hall, 4 speech in 3F A room
	10:12 - 11:00	Poster session (even number)	About 25 poster
	11:10 - 12:25	Country report session	25minuts ×3 report Oshikawa hall
	12:25 - 13:25	Lunch	Coop canteen etc.
	13:25 - 15:05	Country report session	25minuts ×4 report Oshikawa hall
	15:15 - 16:00	Round up meeting	Oshikawa hall
	16:30	Start of excursion	Instruction for 1day trip

Important notice for the participants on the filed trip

The destination of the filed trip on 12th and 13th Nov. has been alternated to Kurikoma area; the earthquake affected area devastated by the Iwate-Miyagi inland earthquake 2008, the epicenter of which was located only 80 kilometers NNW from Sendai where the symposium will be held. This means the travel plan on 12th and 13th are modified. On 14th morning, the participants will visit northern mount foot of Mt Bandai with new schedule.

Iwate-Miyagi Inland Earthquake 2008 of Mg. 7.2 in scale occurred on 14th June 2008 along the range front of the Ou Backbone Mts., the volcanic front of the Northeastern Japan Island arc. The earthquake triggered enormous number of landslides on the hilly slopes that are consisted of pyroclastics such as welded tuff or lavas overlying Neogene tuffaceous sediments. The scale of the biggest landslide of translational type is more than 100 million cubic meters (please see the picture).



Aratozawa landslide triggered by the earthquake and Mt. Kurikoma

We would like to discuss the nature of this big landslide just at the site and to get nice recommendations to rehabilitate this area from the participants who have much knowledge and experience on landslides. However, this area is now severely restricted to enter into by the local government with some regulations from the view point of safety and security. The field trip will be a little bit tough work, starting early morning and trekking in the ragged landslide area. So field boots and suitable field gears will be required to the participants.

Special one day trip on 13th Nov. to above area is also planned for overflowed participants to the main excursion by the steering committee. We are waiting for your aggressive requests. The fee is only 4,000 JPY. Please contact to landslide_conf08@izcc.tohoku-gakuin.ac.jp for the participation.

SUPPLEMENTARY INFORMATION

immigration Procedures

For details on immigration procedures, please visit the official website of the Japanese Ministry of Foreign Affairs www.mofa.go.jp/j_info/visit/visa or contact your nearest Japanese diplomatic mission directly.

Access to Sendai from Narita International Airport

Sendai is located approximately 300 kilometers (180 miles) north of Tokyo on the Pacific coast of Honshu (the largest of Japan's four major islands). It takes about 1 hour and 40 minutes to reach Sendai station from Tokyo station on the Tohoku Bullet Train (Shinkansen) of the Japan Railway Company (JR). **The regular round-trip ticket (Narita-Tokyo-Sendai and Sendai-Tokyo-Narita) with a reserved seat on an ordinary car during the regular season is 27,060 JPY. Therefore, you are recommended for you to buy the JR East pass or JR East Pass Special at JR station in Narita Airport. The JR East pass can be used on the five consecutive days or four individual days in one month. The cost of JR East Pass is 20,000 JPY. Now, the promotion pass named JR East Special Pass is available at a cost of 10,000 JPY., which can be used on three individual days in one month.** Then catch the JR Narita Express rapid train from Narita to Tokyo Station and get the JR Tohoku Shinkansen limited express from Tokyo to Sendai. **Please visit www.jnto.go.jp/eng for details on travelling in Japan.**

Sendai Airport has a few international flights from South Korea, Taiwan and China. It connects Sapporo, Nagoya, Osaka, Hiroshima, Fukuoka, Okinawa and Kanazawa with regular flights. The airport is linked by the Sendai Airport Access railway, which takes 17-25 minutes to Sendai Station and costs ¥630.

Climate

The weather in Sendai in mid November is generally cool. The average day-time temperature varies between 10 to 15 degrees Celsius. The temperature may go as low as 1 ° C. You are advised to bring warm clothing. Although the period is normally quite dry, rainy weather cannot be ruled out.

Insurance

The organizers of the International Conference on "Management of Landslide Hazard in the Asia-Pacific Region" can not be held responsible for any personal injury, loss, damage, accident to private property or additional expenses incurred as a result of delays or changes in air, road or other services, weather, war or any other cause. Conference participants are advised to take out their own insurance.

Currency **Important !!!**

The Yen (¥.) is the currency of Japan. Bank notes come in ¥ 1000, 2000, 5000, and 10000 denominations, while coins come in ¥ 1, 5, 10, 50, 100 and 500 denominations. **The participants are recommended to exchange sufficient amount of foreign currency into Yen at Narita Airport for your expenses, including the payment of registration and/or field trip fees.**

Electricity

100 voltage/50 cycles

Implementing a Slope Management Programme

Gareth Heam, Tim Hunt, Julian Aubert and John Howell

12:12 – 12:30 Dangerous Lakes in Mountains Surrounding Uzbekistan

Glazirin Gleb E.

Session A2 Landslide mechanisms and case studies

11th Nov.

3rd floor room

11:00 – 11:18 Using the Largest Seismically Induced Landslides for Estimating the Topography Changes

Roman Nepop and Anna Agatova

11:18 – 11:36 Estimating Magnitudes of Prehistoric Earthquakes from Landslide Data: One of Criteria of Seismic Risk Zoning in Mountain Provinces

Anna Agatova and Roman Nepop

11:36 – 11:54 Coseismic Rock Avalanches in the Himalaya: A Palaeoseismic Data Source

Wishart A Mitchell, David N Petley and Stuart A Dunning

11:54 – 12:12 Characteristics and Distribution Pattern of landslides Induced by the 2008 Wengchan Earthquake, Sichuan, China

Masahiro Chigira, Woo Xiyong, Takashi Inokuchi

12:12 – 12:30 Causative Factors of Landslide Induced by Recent Strong Earthquake in Northern Japan- Case of Mid-Niigata Prefecture Earthquake in 2004

Has Baator, Ryota Muranaka, Masaaki Hanaoka , Kiyoteru Maruyama and Yasuo Ishii

12:30 – 13:15 Lunch time

Session B Measurement, instrumentation, monitoring and modeling

11th Nov.

Oshikawa hall

14:00 – 14:18 Landslide Warning System for Mount Pass, Malaysia Based on Surface Monitoring Technique

Suhaimi Jamaludin, Kamal Bahrin Jaafar, Che Hassandi Abdullah and Ashaari Mohamad

14:18 – 14:36 Towards a Morphology Based Hazard Assessment for Coastal Rock Falls at Staithes, North Yorkshire, UK

Michael Lim, Nicholas Rosser, David Petley and Emma Norman

14:36 - 14:54 Monitoring and Modelling Deformation on Failing Slopes Implications for Understanding Landslide Failure

Nick Rosser, Michael Lim and David Petley

14:54 – 15:12 Investigation of Soil Moisture Characteristics of Landslide-Prone Slopes in Thailand

Apiniti Jotisankasa, Hansa Vathananukij

15:12 – 15:30 A Study on Mechanisms of Accumulation of Large Boulders in Debris Flow by the Distinct Element Method

Senro Kuraoka, Takahisa Makino, Minoru Sugiyama, Ayano Sugiyama and Youhei Kawamura

15:30 – 15:48 Simulation Model of Surface Displacement of Rainfall-Induced Shallow Landslide and its Application to Granite Soil Slope at West Japan.

Katsuo Sasahara, Keiji Tamura and Junnichi Kurihara

15:48 – 16:06 Investigation of Soil Layer on Steep Slope Using SH-Type Penetration Test.

Wataru Sagara, Ryosuke Tsunaki, Koichi Kondo, Jyunichi Kurihara, Yukio Okamura and Osamu Fujimoto

16:06 – 16:20 Coffee break

Session D Countermeasure techniques for landslide stabilization

11th Nov.

Oshikawa hall

16:20 – 16:38 The Gschlief Graben-Landslide Southeast of Gmunden, Austria -Process and Countermeasures-

Gernot Fiebiger

16:38 - 16:56 Minimisation of Landslides on Road Alignments: Observations and Experience from the Nepal Road Sector

I. S. Dhakal, S. R. Baral and J. H. Howell

16:56 – 17:12 Geotechnical Investigation of Landslide Hazard Zone in and around Luhri area, Lower Himalaya, Himachal Pradesh, India

Kripamoy Sarkar, T.N. Singh

17:12 – 17:30 Role of Vegetations on Slope Stability- Results of Pore Water Pressure Measurement in an Embankment Supported by Vegetative Crib Wall

Madhu Sudan Acharya

Session C Landslide hazard mapping and related

11th Nov.

3rd floor room

14:00 – 14:18 Landslide Hazards in Pamir, Central Asia

F. Jean Schneider

14:18 – 14:36 From National Landslide Database to National Hazard Assessment – A Slovenian Experience

Mateja Jemec, Marko Komac

14:36 - 14:54 Landslide Susceptibility Assessment in Romania. A Review of Regional Approaches

Mihaela Constantin

14:54 – 15:12 GIS Using Analyses of the Landslides by the Heavy Rainfalls (1961 To 2004) and the Chuetsu-Oki Earthquake (2007) in Izumozaki Area, Niigata, Japan

Hiromitsu Yamagishi, Masaya Saito and Junko Iwahashi

15:12 – 15:30 GIS-based Landslide Susceptibility Mapping in the Kathmandu-Hetauda Section, Nepal

Bhoj Raj Pantha, Ryuichi Yatabe, Netra Prakash Bhandary and Kiyoharu Hirota

15:30 – 15:48 Regional Scale Landslide Hazard Mapping in the Lesser Himalayan Terrain of Nepal

Ranjan Kumar Dahal, Shuichi Hasegawa, Atsuko Nonomura, Minoru Yamanaka, Netra Prakash Bhandary and Ryuichi Yatabe

15:48 – 16:06 Landslide Hazards Zonation Based on Weights of Evidence Modeling of the Qazvin-Rasht Railway Track, North Iran

Hossein Hassani , Soheil Ghiasvand and Shobeir Arshadnejad

16:06 – 16:20 Coffee break

16:20 – 16:38 Mapping of Landslides under Tropical Vegetation Cover Along Roads in Sabah, Malaysia

Felix Tongkul

16:38 – 16:56 Landslide Hazards along the Tectonic Zone in Java Island, Indonesia

Takeshi Ito, Edi Prasetyo Utomo

16:56 – 17:12 The global occurrence of fatal landslides in 2007

D.N. Petley

Session E1 Non-structural measures, education and other related phenomenon.

12th Nov.

Oshikawa hall

- 09:00 – 09:18 Social Trust in Management of the Debris Flow
Kai-Min Liao, Sue-Huei Chen and Hsin-Chi Li
- 09:18 – 09:36 Recent Geohazards Along a Popular Mountain Trail in a Pleistocene Glaciated Valley in the Northern Japanese Alps
Yoshihiko Kariya, Yu Matsunaga, Takumi Kawasaki, Yosuke Miyazawa, Masaki Ishii, Jiro Komori, Kuniyasu Mokudai, Go Sato, and Shuji Iwata
- 09:36 – 09:54 Status of Monitoring Studies for Slope movements – Indian Perspective
Surya Parkash & Sreeja S. Nair
- 09:54 – 10:12 Landslide Clays and other Geological Characteristics of the Kushiro-Type Landslides Occurred within the Nemuro Group around Akkeshi Bay and Lake Akkeshi Area, Eastern Hokkaido, Japan
Hiroyuki Maeda, Hiroshi Naya, Masanori Kohno, Shigenori Hasebe and Hiromasa Hiura

Session E2 Non-structural measures, education and other related phenomenon.

12th Nov.

3rd floor room

- 09:00 – 09:18 Relation between Microtopography and Forest Vegetation at a Small Landslide Area in the Shirakami Mountains, Northeast Japan
Daisuke Higaki, Yoshie Mishima, Hajime Makita
- 09:18 – 09:36 Landslides, Vulnerability and Decision-Making in Central Nepal
Katie Oven, David Petley, Jonathan Rigg and Christine Dunn
- 09:36 – 09:54 The Relationship Between the Deterioration of Trails and the Topographical Conditions in the Shirakami Mountains.
Asahi Nakamura, Daisuke Higaki and Hajime Makita

Country Report open session with citizen

12th Nov.

Oshikawa hall

11:10-11:35 Landslides and their Control in Japan - Process and Countermeasures

Hideaki Marui (Japan)

11:35-12:00 Landslide Mitigation in China

Zuyu CHEN, Yueping YIN, Sijing Wang (China)

12:00 – 12:25 Landslide disaster mitigation in Nepal

Vishnu Dangol (Nepal)

12:25-13:25 Lunch time

13:25 – 13:50 Landslide Disaster Problems in 2005 Kashmir Earthquake Hit Areas

Allah Bakhsh Kausal (Pakistan)

13:50 – 14:15 Landslide Disaster Mitigation In Vietnam

Chu Van Ngoi, Mai Trong Nhuan, Luong Thi Thu Hoai, Nguyen Ngoc Truc (Vietnam)

14:15 – 14:40 Management of landslide hazard in Thailand

Charlchai Tanavud (Thailand)

14:40 – 15:05 Landslide Disaster Mitigation in Indonesia

Agus Sumaryono (Indonesia)

15:05 – 15:30 Discussion

15:30 – 15:45 Coffee break

Closing session

12th Nov.

Oshikawa hall

15:45 – 16:30

16:30 Start of Excursion

Poster presentation 3rd floor poster room, No. 8 building

Core time for posters

Odd number: 13:15 – 14:00 11th Nov.

Even number: 10:12 – 11:00 12th Nov.

Poster Session A Landslide mechanisms and case studies 12 Posters

A1 Mechanism and Countermeasure of the Toyomaki and the Hirane Landslides, Tohoku District, Japan

Osamu Tainaka

A2 Eject Induced by 2007 Central Mie Prefecture Earthquake and Topographical Amplification of Ground Motion

Hidehisa Nagata

A3 Characteristics of Landslides in the Gamaharazawa Area in the Northern Fossa -Magna Region Shown by Lidar DEM

Wataru Murakami, Hiromu Daimaru and Sumio Matsuura

A4 Landslide and Mudflow Hazard on the Northern Slope of the Zailiysky Alatau

Berik Baimagambetov and Roza Yafyazova

A5 Influence of Large Water Level Changes on Slope Stability and Reactivation of Mass Movements in the Three Gorges Reservoir, P. R. China

Dominik Ehret, Joachim Rohn, Wei Xiang and Shaojun Yan

A6 Precursory Features of Deep-seated Landslides in the Haibara River Area, Central Japan

Hiromu Daimaru, Ushio Kurokawa, Wataru Murakami and Sumio Matsuura

A7 Deformation and Crushing Structures of Moving Blocks in Tertiary Hard Mudstone Landslides

Hiroshi Moriya, Shinro Abe and Daisuke Higaki

A8 Reflection of Micro Landforms to the Characteristics of Landslide Materials and the Mechanisms – A Case Study of the Ohokamizawa Landslide Area, Northeastern Japan

Toyohiko Miyagi, Makoto Hatakeyama, Eisaku Hamasaki, Shoichiro Uchiyama, Kazunori Hayashi and Yukimitsu Ono

A9 The Mechanism of Pshada mudflow Formation in the North-West Caucasus (Russia)

Yu.V. Efremov, D.Yu. Shulyakov and A. Chernyavskiy

A10 Field Excursion Guidebook Series on Geology and Natural Hazards in Nepal Himalaya

Masaru Yoshida, Bishal Nath Upreti, Santa Man Rai, Tara N. Bhattarai, Prakash D. Ulak, Ananta P. Gajurel, Ranjan K. Dahal, Subodh Dhakal, and Matrica P. Koirala

A11 Geological study on earthquake triggered large-scale massive landslide by the Iwate-Miyagi Nairiku Earthquake in 2008 at Aratozawa Dam in Kurikoma City, Miyagi prefecture, Japan

Takayuki Kawabe, Osamu Kazaoka, Jun Kagawa, Kunio Furuno, Takashi Kusuda, Yutaka Sakai and Tsuyoshi Yoshida

A12 Oikubo landslide occurred in the landslide topographic area -case study on the prediction of activity of landslide at pre-movement-

Noriyuki CHIBA, Hideaki SUZUKI, The Investigation Team of Oikubo Landslide, The Japan landslide Society Tohoku Branch

Poster Session B Measurement, instrumentation, monitoring and modeling 8 posters

- B1 LiDAR-derived DEM analysis of Landslide Activity in Differing Lithological Settings in Japan
Mio Kasai, Manabu Ikeda and Kazunori Fujisawa
- B2 Topography of Failed and Deposited Areas of the Large Collapse in Southern Leyte, Philippines Occurred on 17 February 2006
Kiminori Araiba, Hiroshi Nagura, Byeong-pyo Jeong, Mamoru Koarai, Hiroshi P. Sato, Nobuyuki Osanai, Hideyuki Itoh and Kyoji Sassa
- B3 Landslide Catastrophic Phase Forecast Based on the Slope Deformations Analysis
Alexander M. Demin
- B4 Distribution of Displacement and Strain on the Ground Surface in a Large-scale Landslide
Shiho Asano, Sumio Matsuura, Takashi Okamoto and Ushio Kurokawa
- B5 Application of Cut Slope Management System in Korea
Koo Ho Bon, Kim Seung Hyun, Choi Ji Yong and Jeong Sang
- B6 Application of New Landslide Monitoring Systems at Takisaka Landslide, Northeast Japan
Kazunori Fujisawa, Masaichi Nagata, Alessandro Pasut, Gianluca Marcato, Gen Furuya, Akira Okawara, Yasumasa Tanaka, Kei Higuchi and Hiroyuki Shimomura
- B7 Rockfall Run-out Distances Depending on Volume in Large-scale Experiments
Yasuhiko Okada, Ippei Uchida and Hirotaka Ochiai
- B8 Shear Deformations and Landslide Initiation Associated with Seepage Flow Conditions in a Rainfall-induced Model-slope Experiment
Yasuhiko Okada, Hirotaka Ochiai

Poster Session C Landslide hazard mapping 6 posters

- C1 Evaluating the Estimation of Landslide Masses on a Catchment Scale in the Akaishi Mountains Using Data-Mining Techniques
Hitoshi Saito, Daichi Nakayama and Hiroshi Matsuyama
- C2 Evaluation of the Rainfall-Induced Landslides in a Forested Mountain Region
Dong Yeob Kim, Sang Ho Lee, Sangjun Im, Edwin A. Combalicer and Sujung Ahn
- C3 GIS Mapping of Landslides Caused by the 2004 Niigata-Ken Chuetsu Earthquake
Shoichiro Uchiyama, Norio Oyagi and Takashi Inokuchi
- C4 Use of remote sensing and geographic information system to establish the landslide sensitivity map for Son La area, Vietnam
Nguyen Ngoc Thach
- C5 Distribution and characteristics of mass movements triggered by the Iwate – Miyagi Nairiku (inland) Earthquake in 2008, northeast Japan
Hiroshi Yagi, Go Sato, T. Yamasaki
- C6 An Approach for GIS-based Landslide Susceptibility Zonation: The Case of Enna (Italy)
Licia Caruso, Francesco Castelli and Michele Maugeri

Poster Session D Countermeasure techniques for landslide stabilization

3 posters

D1 Field Surveys of Protected Slopes after 2004 Niigataken Chuetsu Earthquake

J. Takemura, H. Kubo and J. Yamazaki

D2 Recent Case Studies on Devastating Landslides in Chittagong, Bangladesh

Md. Zakaria Hossain

D3 Functioning of a large irrigation canal ($Q=180\text{m}^3/\text{s}$) on sliding slope

Eduard Zaporozhchenko

Poster Session E Non-structural measures and education and other related phenomenon.

6 Posters

E1 Landslide Risk Management Framework in India

Surya Parkash ,Sreeja S. Nair

E2 Influence of Climatic Conditions on the Origin of Landslides in Kyrgyzstan

Isakbek Torgoev, Yuri Aleshin and Gennady Ashirov

E3 Possible Mechanism to Explain Various Landslide Behaviors During Snow Season

Tatsuya Shibasaki, Kazunori Shinoda and Takanari Yamasaki

E4 Geomorphological and Geological Settings of the Tsugaike Landslide in the Northern Japanese Alps

Go Sato, Yoshihiko Kariya

E5 Some Cases of Hazard and Heavy Rain induced by Convergence

Yushiro Iwao, Akinori Saito, Kentaro Koga, Yuichi Koga and Kazuhisa Mizoguchi

E6 Biodiversity Establishment by Landslide Processes in Humid Orogenic Area

Ayako Saitoh, Toyohiko Miyagi and Akihide Takehara