

Round Table Discussion

**Strengthening Research and Learning on Earth System Risk Analysis
and Sustainable Disaster Management within UN-ISDR as Regards “Landslides”
- Towards a dynamic global network of International Programme on Landslides (IPL) -**

Date: 18-20 January 2006

Venue: Elizabeth Rose Hall (5F) of the United Nations University



Organized by

International Consortium on Landslides (ICL), United Nations Educational, Scientific and Cultural Organization (UNESCO), World Meteorological Organization (WMO), Food and Agriculture Organization of the United Nations (FAO), United Nations International Strategy for Disaster Risk Reduction (UN/ISDR), United Nations Environment Programme (UNEP), United Nations University (UNU), Kyoto University (KU)

Cosponsored by

Cabinet office of Japan (CAO), Ministry of Foreign Affairs, Japan (MOFA), Ministry of Education, Culture, Sports, Science and Technology, Japan (MEXT), Ministry of Agriculture, Forestry and Fisheries of Japan (MAFF), Ministry of Land Infrastructure and Transport, Japan (MLIT), Ministry of Foreign Affairs, Italy, Italian Civil Protection Department (Presidency of the Council of Ministers), Ministry of Environment of the Slovak Republic, Ministry of Environment of the Czech Republic, National Emergency Management Agency of Korea, Embassy of Switzerland in Japan, Science Council of Japan (SCJ), International Union of Geological Sciences (IUGS), Academy of Forest, Wood and Environment, Japan (AFWE), Japan Landslide Society (JLS)

Bulletin-3 (Draft)

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United Nations Environment Programme (UNEP)
United Nations University (UNU)
Kyoto University (KU)

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Ministry of Foreign Affairs, Japan (MOFA)
Ministry of Education, Culture, Sports, Science and Technology, Japan (MEXT)
Ministry of Agriculture, Forestry and Fisheries of Japan (MAFF)
Ministry of Land Infrastructure and Transport, Japan (MLIT)
Ministry of Foreign Affairs, Italy
Italian Civil Protection Department (Presidency of the Council of Ministers)
Ministry of Environment of the Slovak Republic
Ministry of Environment of the Czech Republic
National Emergency Management Agency of Korea (NEMA)
Embassy of Switzerland in Japan
Science Council of Japan (SCJ)
International Union of Geological Sciences (IUGS)
Academy of Forest, Wood and Environment, Japan (AFWE)
Japan Landslide Society (JLS)

Organizing Committee

Honorary Chairpersons

Salvano BRICENO (Director of UN/ISDR)
Hosny El-Lakany (Assistant Director-General of FAO)
Walter ERDELEN (Assistant Director-General of UNESCO)
Michel JARRAUD (Secretary-General of WMO)
Kazuo OIKE (President of KU)

Chairpersons

Hans van GINKEL (Rector of UNU)
Yoshiaki KAWATA (Director of Disaster Prevention Research Institute of Kyoto University)
Badaoui ROUHMAN (Chief, Section for Disaster Reduction of UNESCO)
Kyoji SASSA (President of ICL, Director of Research Centre on Landslides (RCL/DPRI-KU))

Secretaries

Wolfgang EDER (Past Director of Division of Earth Science of UNESCO, ICL Technical Advisor, and
Guest Lecturer of DPRI/KU)
Hiroshi FUKUOKA (Treasurer of ICL, and Assoc. Prof. of RCL/DPRI-KU)
Srikantha HERATH (Senior Academic Programme Officer of UNU)
Kaoru TAKARA (Executive Director of ICL, Deputy Director of DPRI/KU)

Background and Objectives of the Round Table Discussion

At the thematic session 3.8 “New International Initiatives for Research and Risk Mitigation of Floods (IFI) and Landslides (IPL)” of the 2005 United Nations World Conference on Disaster Reduction (WCDR), a “*Letter of Intent concerning cooperation for Strengthening Research and Learning on Earth System Risk Analysis and Sustainable Disaster Management within the United Nations International Strategy for Disaster Risk Reduction*” was proposed by ICL. The Letter was signed by seven global stakeholders: the United Nations Educational, Scientific and Cultural Organization (UNESCO), the World Meteorological Organization (WMO), the Food and Agriculture Organization of the United Nations (FAO), the United Nations International Strategy for Disaster Risk Reduction (UN/ISDR), the United Nations University (UNU), the International Council for Science (ICSU), and the World Federation of Engineering Organizations (WFEO).

One of the outcomes of the WCDR, the Hyogo Framework of Action 2005-2015 (HFA), stressed in chapter IV “Implementation and follow-up” under item (30): “All States should endeavour to undertake the following tasks ... ensure that the management of risks associated with geological hazards, such as **earthquakes and landslides**, are fully taken into account in disaster risk reduction programmes”. The Hyogo Declaration highlighted further “We recognize the intrinsic relationship between disaster reduction, sustainable development and poverty eradication, among others, and the importance of involving all stakeholders, including governments, regional and international organizations and financial institutions, civil society, including non-governmental organizations and volunteers, the private sector and the scientific community”.

As the important contribution to the implementation of the Hyogo Framework of Action 2005-2015 and under the global framework of the agreed Letter of Intent, ICL has proposed an International Round Table Discussion to create the first good model of global cooperation for Strengthening Research and Learning on “Landslide” Risk Analysis and Sustainable Disaster Management within the United Nations International Strategy for Disaster Risk Reduction.

This round table discussion is aiming to plan between the seven partners who signed the Letter of Intent, ICL and other relevant organizations including governments, universities and institutes, non-governmental organizations and other entities clearly defined activities and the necessary framework of action for the implementation of activities related to landslide disaster reduction. The results of the round table will be of relevance to the five priorities for actions that are included in the Hyogo Framework of Action, in particular the following priorities:

- Identify, assess and monitor disaster risks and enhance early warning,
- Use knowledge, innovation and education to build a culture of safety and resilience at all levels,
- Reduce the underlying risk factors.

LETTER OF INTENT

"United Nations World Conference on Disaster Reduction (WCDR)", Kobe, Japan, 18-22 January 2005

This 'Letter of intent' aims to provide a platform for a holistic approach in research and learning on 'Integrated Earth system risk analysis and sustainable disaster management'.

Rationale

- Understanding that any discussion about global sustainable development without addressing the issue of Disaster Risk Reduction is incomplete;
- Acknowledging that risk-prevention policies including warning systems related to Natural Hazards must be improved or established;
- Underlining that disasters affect poor people and developing countries disproportionately;
- Stressing that after years of under-investment in preventive scientific, technical and communicational infrastructure activities it is time to change course and develop all activities needed to better understand natural hazards and to reduce the vulnerability notably of developing countries to natural hazards, and
- Acknowledging that a harmful deficiency in coordination and communication measurements related to Disaster Risk Reduction exists.

Proposal

Representatives of United Nations Organisations, as well as the Scientific (ICSU) and Engineering (WFEO) Communities propose to promote further joint global activities in disaster reduction and risk prevention through

Strengthening research and learning on 'Earth System Risk Analysis and Sustainable Disaster Management' within the framework of the 'United Nations International Strategy for Disaster Risk Reduction' (ISDR).

More specifically it is proposed,





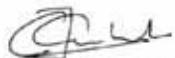
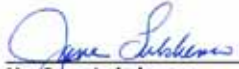
based on the existing structural framework of the ISDR and plan of action of the UN-WCDR, as well as other relevant networks and institutional and international expertise,

to establish specific, goal-oriented 'Memoranda of Understanding' (MoUs) between international stakeholders targeting Disaster Risk Reduction, for example focusing on landslide risk reduction, and other natural hazards.

Invitation

Global, regional and national competent institutions are invited to support this initiative by joining any of the specific MoUs following this letter through participation in clearly defined projects related to the issues and objectives of any of the MoUs.

Signatories:

 Mr. Koichiro Matsuura Director-General United Nations Educational, Scientific and Cultural Organization	 Mr. Michel Jarraud Secretary-General World Meteorological Organization	 Mr. Jacques Diouf Director-General Food and Agriculture Organization of the United Nations	 Mr. Sálvamo Briceño Director UN International Strategy for Disaster Risk Reduction
<u>4 MAR 2005</u> Date	<u>22. 3. 2005</u> Date	<u>21. VE 2005</u> Date	<u>19. 01. 05</u> Date
 Mr. Hans van Ginkel Rector United Nations University	 Ms. Jane Lubchenco President International Council for Science	 Ms Françoise Come Executive Director World Federation of Engineering Organizations	
<u>19. 01. 05.</u> Date	<u>21. 04. 05</u> Date	<u>24/ 21 2005</u> Date	

The International Consortium on Landslides (ICL) proposed the "Letter of Intent" at the thematic session 3.8 "New International Initiatives for Research and Risk Mitigation of Floods (IFI) and Landslides (IPL)" of the United Nations World Conference on Disaster Reduction held on 19 January 2005 in Kobe, Japan. This is the Letter of Intent, which was electronically combined based on the original Letters of Intent, formally approved and signed by all parties. All of the original Letters of Intent with signatures are deposited in the secretariat of the International Consortium on Landslides which is located in the Research Centre on Landslides of the Disaster Prevention Research Institute, Kyoto University.



International Consortium on Landslides

Secretariat : Research Centre on Landslides, Disaster Prevention Research Institute, Kyoto University, Kyoto, Japan
Web: <http://ICL.dpri.kyoto-u.ac.jp>, E-mail: jimu@landslide.dpri.kyoto-u.ac.jp, Tel: +81-774-38-4110, Fax: +81-774-32-5597

Programme of Round Table Discussion
Strengthening Research and Learning on Earth System Risk Analysis
and Sustainable Disaster Management within UN-ISDR as Regards “Landslides”
Towards a Dynamic Global Network of International Programme on Landslides (IPL)

18 January (Wednesday)

9:30-10:00 Opening Session

Chairperson: Kyoji SASSA

Opening Address

Hisao IDA (Deputy Director General for Research & Development Bureau, MEXT, Japan)

Hans van GINKEL (Rector of United Nations University, Under Secretary-General of the United Nations)

Badaoui ROUHBAN (Chief of Section for Disaster Reduction of UNESCO) on behalf of **Walter ERDELEN** (Assistant Director-General of UNESCO)

Salvano BRICENO (Director for United Nations International Strategy for Disaster Reduction)

Avinash TYAGI (Director of Hydrology and Water Resources Department) on behalf of **Michel JARRAUD** (Secretary-General of WMO)

Thomas HOFER (Forestry Officer for Sustainable Mountain Development) on behalf of **Hosny EL-LAKANY** (Assistant Director-General of FAO)

Hari SRINIVAS (Chief of Urban Environmental Management on behalf of UNEP)

Yoshiaki KAWATA (Director of DPRI/KU) on behalf of **Kazuo OIKE** (President of Kyoto University, Japan)

10:00-12:00

High Level Session: Objectives and Framework of Output

Representatives from Meeting Organizers of ICL, UNESCO, WMO, FAO, UN/ISDR, UNEP, UNU, KU, Cosponsored organizations of the Cabinet Office of Japan (CAO), the Ministries of the Government of Japan, the Italian Civil Protection Department, the Ministry of Environment of the Slovak Republic, the Ministry of Environment of the Czech Republic, the National Emergency Management Agency of Korea, and others will discuss for the framework of the outcome document.

Draft Agenda

- 1) Overview of ICL, IPL and the Letter of Intent.
Kyoji Sassa, President of ICL
- 2) Introductory remarks on the activities from respective stakeholders related to landslides
- 3) Introduction of the draft 2006 Tokyo Action Plan including IPL Framework
Kyoji Sassa, RTD Organizing Committee
- 4) Open discussion on the draft 2006 Tokyo Action Plan

12:30-14:30 Working Lunch

High level session panelists will finalize the IPL framework and core action items of the 2006 Tokyo Action Plan

14:30 -17:00

Plenary Session 1: Target Activities based on the draft framework

Draft Agenda

- 1) Introduction of the framework of the outcome document
- 2) Examination and Discussion of the global cooperating fields and major target activities for IPL
- 3) Nomination of the moderators for 4 parallel sessions on 19 January

17:15-17:35 Joint Photo Session of all participants

All participants are requested to join this photo session as a memory of the probable new dynamic global network of International Programme on Landslides (IPL)

18:30-21:00 Reception

Welcome Address

Fumio TAKEDA (Deputy Director General for Disaster Management of Cabinet Office, Japan)

Hans van GINKEL (Rector of United Nations University, Under Secretary-General of the United Nations)

Address from Foreign participants

Laszlo MIKLOS (Minister, Ministry of Environment of Slovak Republic)

19 January (Thursday)

9:30-12:00 Parallel Sessions: Implementation Strategy

4 group discussion in 4 rooms. Participants are invited to join on of these four groups.

- 1) Discussion on specific topics and activities with high priority for 4 global cooperating fields, provisionally proposed as;

(1) Methodology

A. Monitoring and Early Warning

Early warning of rainfall-induced landslides and long-term creeping landslides;
Global Landslide Monitoring from satellite (Optical photograph and Synthetic Aperture Radar)

B. Risk Identification and Hazard Map

Identification of large scale landslides at the precursor stage, and risk identification of potential landslides at urban development area,
Hazard mapping at global scale (landslide disaster hot spots), regional scale and street level

(2) Target Landslides

A. Catastrophic landslides induced by earthquakes and heavy rains

Earthquake induced rapid landslides and flow slides and debris flows in volcanic area;
Catastrophic earthquake-rainfall complex landslide disasters which are caused by earthquakes after heavy or long rainfalls;
Gigantic coastal landslides and marine landslides causing Tsunamis.

B. Landslides threatening cultural heritage sites

Machu Picchu heritage site in Cusco, Peru; Niches of Bamiyan Buddhas (Northern Afghanistan); Huaqing Palace in Xian, China; Rock Hewn Church of Bet Aba Libanos in Lalibela (Ethiopia), Valley of the Kings in Egypt

(3) Capacity Building

A. Education and Capacity Building

Summer school on landslides in the fields,

Landslide training course in the educational base,
Promotion of education of postgraduate foreign students in the field of landslides

B. Hyper Database

Database (image, video and text included) and information dissemination

(4) Preparedness and Recovery

A. Policy, Planning, other Measures for landslide disaster reduction

Landslides associated with mountain, urban and coastal developments and other human activities such as mining and power plant construction, and small scale and surficial landslides to be prevented by mountain conservation methods and civil engineering works are dealt in this field.

B. Disaster Recovery to avoid secondary disasters and to create safer community

2) Provisional time table of activities, events and expected outcomes

12:00-14:30 Working lunch

Each moderator to prepare summary report including power point presentations to report to the afternoon Plenary Session2.

14:30 -17:00 Plenary Session 2: Action Plan

Draft Agenda

- 1) Summary reports from 4 groups
- 2) Discussion of the proposals from four each groups
- 3) Discussion for Action Plan based on the framework

17:00- Working Group Meeting for the Final Document

Making the draft outcome document (proposed title “2006 Tokyo Action Plan – towards a dynamic global network of International Programme on Landslides”)

20 January (Friday)

9:30-12:00 Plenary Session 3: IPL Tokyo Action Plan

Draft Agenda

- 1) Presentation of draft outcome document
Leader of the working group
- 2) Discussion on the outcome document and identification of follow-up mechanism

13:30-15:30 Working Group Meeting

Finalization of the outcome document based on the Plenary Session 3.

15:30-16:30 Concluding Session

Draft Agenda

- 1) Supporting speech from foreign governments Italy, Korea, Slovak, USA
- 2) Adoption of the outcome document “2006 IPL Tokyo Action Plan
- 3) Announcement of the next meeting following the Tokyo Round Table Meeting (proposal schedule: 14-16 November 2006 at UNESCO, Paris)
- 4) Closing remarks from the Government of Japan (**Takashi FUJII**: Director, Office of Disaster Reduction Research, MEXT, Japan) and the organizer

16:30-17:00 Press Conference (in the same room with Closing Session)

Facilitator: Satoru NISHIKAWA (Director for Disaster Preparedness, Cabinet Office of Japan):
Announcement of the outcome document to the Press with a communiqué for public

“ 2006 IPL Tokyo Action Plan”

-Strengthening Research and Learning on Global Risk Preparedness for Landslides and Related Earth System Disasters-

17:30-18:30 Farewell Toast hosted by UNU (5F Lounge)

19:00- 21:00 Post-Conference Dinner (Restaurant outside of UNU)

Round Table Discussion Timetable

	17 January (Tue)	18 January (Wed)	19 January (Thurs)	20 January (Fri)
AM	9:30-12:00 5F Committee Room 2 ICL Steering Committee Meeting	9:30-12:00 5F Elizabeth Rose Hall Opening Session Opening Address by MEXT, Ginkel, Erdelen, Briceno, Jarraud, EILakany, Oike High Level Session (Chaired by Ginkel, Kawata, Rouhban, Sassa)	9:30-12:00 5F Elizabeth Rose Hall, Committee Room 2, 3, Staff Room Parallel Session: Implementation Strategy Parallel Sessions by (four) working groups to (four) cooperation fields	9:30-12:00 5F Elizabeth Rose Hall Plenary Session 3: 2006 Tokyo Action Plan Discussion on the Tokyo Action Plan and identification of follow-up mechanism.
Lunch	13:00-16:00 5F Committee Room 2 Preparatory meeting for RTD 5F Committee Room 3 Registration of Participants	12:00-14:30 12F Working Lunch among High Level Session panelists Finalization of the draft framework for the outcome document.	12:00-14:30 5F Lounge Working lunch Each moderator to prepare summary report including power point presentations	13:30-15:30 5F Elizabeth Rose Hall, Working Group Meeting Finalization of the “2006 Tokyo Action Plan” based on the Plenary Session 3.
PM		14:30-17:00 5F Elizabeth Rose Hall Plenary Session 1: Target Activities based on the draft framework Examination and Discussion of the global cooperating fields and major target activities for IPL 17:15-17:35 5F Elizabeth Rose Hall Joint Photo for all participants	14:30 -17:00 5F Elizabeth Rose Hall Plenary Session 2: Action Plan Discussion for Action Plan based on the framework	15:30-16:30 5F Elizabeth Rose Hall Concluding Session Supporting speeches from foreign governments Adoption of “2006 Tokyo Action Plan” Concluding remarks from Takashi Fujii, and the Chairpersons 16:30-17:00 5F Elizabeth Rose Hall Press Conference Facilitator: Satoru Nishikawa
Evening		18:30-21:00 2F Reception Room Reception Welcome Address by Fumio Takeda, Hans van Ginkel, Address from participants by Laszlo Mikos	17:00- 12F Working Group Meeting Making “2006 Tokyo Action Plan”	17:30-18:30 5F Lounge Farewell Toast 19:00-21:00 Post Conference Dinner (Restaurant outside UNU)

List of Participants to the Round Table Discussion at UNU in Tokyo

Name	Country	Affiliation
Badaoui ROUHBAN	UNESCO	Chief, Section for Disaster Reduction of UNESCO
Franz Wolfgang EDER	UNESCO/ICL	Technical Advisor of ICL, former Director of UNESCO/Earth Science
Salvano BRICENO	UN/ISDR	Director of United Nations Secretariat for ISDR
Praveen PARDESHI	UN/ISDR	Senior Programme Officer, UNDP and UN/ISDR Joint Post
Yuki MATSUOKA	UN/ISDR	Programme Officer, Assistant to the Director of UN/ISDR
Avinash TYAGI	WMO	Director of Hydrology and Water Resources Department
Thomas HOFER	FAO	Forestry Officer, Forestry Department of FAO
Hari SRINIVAS	UNEP	Chief of Urban Environmental Management of UNEP
Hossein KALALI	UNDP	Programme Advisor of UNDP
Hans VAN GINKEL	UNU	Rector, United Nations University
Srikantha HERATH	UNU	United Nations University
Libor JANSKY	UNU	United Nations University
See Sew GUE	WFEO	Institution of Engineers, Malaysia (World Federation of Eng. Orgs)
Oldrich HUNGR	Canada	Faculty of Science, the University of British Columbia, Vancouver
Baolin WANG	Canada	Geological Survey of Canada
Elizabeth THERIAULT	Canada	Canada Embassy in Japan
Zhong LI	China	Embassy of the People's Republic of China in Tokyo
Xuanmin WU	China	Dept. of Hydro. & Env. Geo., China Geological Survey (CGS)
Qin BAI	China	Dept. of Sci., Tech. & Int'l Coop, CGS
Pinggen ZHOU	China	China Institute of Geology and the Envir. Monitoring, CGS
Wei SHAN	China	Northeast Forestry University
Vit VILIMEK	Czech	Faculty of Science, Charles University, Prague
Karel ZEBRAKOVSKY	Czech	Ambassador, Embassy of the Czech Republic in Japan
Claudio MARGOTTINI	Italy	Italian Agency for New technologies Energy and Environment
Nicola CASAGLI	Italy	Earth Sciences Department, University of Firenze
Filippo CATANI	Italy	Earth Sciences Department, University of Firenze
Kisung BANG	Korea	National Emergence Management Agency
Byung-Gon CHAE	Korea	Korea Institute of Geoscience and Mineral Resources
Dug-Keun PARK	Korea	National Institute for Disaster Prevention (NIDP), Korea
Mats ERIKSSON	Nepal	International Centre for Integrated Mountain Development (ICIMOD)
Raul CARRENO	Peru	Grudec Ayar
Alexander STROM	Russia	Institute of the Geospheres Dynamics, Russian Academy of Sciences
Oleg ZERKAL	Russia	FSUGE Scientific Centre "HydGeo"
Irina ANTIPINA	Russia	FSUGE Scientific Centre "HydGeo"

Tatiana KRUCHININA	Russia	FSUGE Scientific Centre "HydGeo"
Laszlo MIKLOS	Slovakia	Minister of the Ministry of the Environment of Slovak Republic
Peter VRSANSKY	Slovakia	Ambassador Extraordinary and Plenipotentiary, Embassy of the Slovakia Republic in Japan
Jan VLCKO	Slovakia	Faculty of Natural Sciences, Comenius University
Felix MOESNER	Switzerland	Embassy of Switzerland in Japan
Walter AMMANN	Switzerland	Swiss Federal Institute for Snow and Avalanche Research (SLF)
Aniruth POTICHAN	Thailand	Land Development Department, Gov. of Thailand
Robert L. SCHUSTER	USA	U.S. Geological Survey
Fumio TAKEDA	Japan	Deputy Director General for Disaster Management, Cabinet Office
Satoru NISIKAWA	Japan	Director for Disaster Preparedness, Cabinet Office of Japan
Hiroshi TAJIHI	Japan	International Office for Disaster Management, Cabinet Office
Hisao IDA	Japan	Deputy Director General for Research & Development Bureau, MEXT
Takashi FUJII	Japan	Director, Office of Disaster Reduction Research, MEXT
Hiroyuki NAKAGAWA	Japan	Deputy Director, Office of Disaster Reduction Research, MEXT
Yasutaka TAKEUCHI	Japan	Office of Disaster Reduction Research, MEXT
Takashi ASAI	Japan	Office of the Director-General for International Affairs, MEXT
Kazuo AKIYAMA	Japan	Office of the Director-General for International Affairs, MEXT
Tetsuhito MINAMI	Japan	Chief programme specialist for UNESCO, MEXT
Shuichi TAKANO	Japan	Principal Deputy Director of the Global Environmental Division, MOFA
Shinichi SAKABE	Japan	Deputy Director, International Policy Unit for Infrastructure, MLIT
Haruo TSUNEZUMI	Japan	Head, Dis. Prev. Geog. Div., Geog. Dept., Geographical Survey Institute
Mamoru KOARAI	Japan	Head, Geog. Info. Anal. Res. Div., Geog. & Crustal Dyna. Res. Center, Geographical Survey Institute
Manabu HASEGAWA	Japan	Dis. Prev. Geog. Div., Geog. Dept., Geographical Survey Institute
Hiroshi JODO	Japan	Director, Conservation Division, Forestry Agency, MAFF
Shingi KOTOU	Japan	Conservation Division, Forestry Agency, MAFF
Tadahiko SAKAMOTO	Japan	Chief Executive, Public Works Research Institute (in Tsukuba)
(representative)	Japan	Science Council of Japan
Tsuneo KATAYAMA	Japan	President, National Research Institute for Earth Science and Disaster Prevention
Takashi INOKUCHI	Japan	National Research Institute for Earth Science and Disaster Prevention
Yoshitsugu TAKEUCHI	Japan	Chief, Division of Soil and Water Conservation, Forestry and Forest Products Research Institute
Hiroataka OCHIAI	Japan	Forestry and Forest Product Research Institute
Yasuhiko OKADA	Japan	Forestry and Forest Product Research Institute
Masayuki KITAMOTO	Japan	Director, Asia Disaster Reduction Center
Etsuko TSUNOZAKI	Japan	Asia Disaster Reduction Center
Hideki OHTA	Japan	President, Japanese Geotechnical Society

Hiromitsu YAMAGISHI	Japan	President, Japan Landslide Society
Hideaki MARUI	Japan	Vice President, Japan Landslide Society
Ryuichi YATABE	Japan	Faculty of Engineering, Ehime University
Mitsu OKAMURA	Japan	Faculty of Engineering, Ehime University
Kazuo KONAGAI	Japan	Institute of Industrial Science, University of Tokyo
Ikuo TOWHATA	Japan	Faculty of Engineering, University of Tokyo
Naoki WATANABE	Japan	Research Institute of Hazards Snowy Areas, Niigata University
Daisuke HIGAKI	Japan	Faculty of Agriculture and Life Science, Hirosaki University
Masashi KAMON	Japan	Dean, Graduate School of Global Environmental Studies, Kyoto University
Rajib SHOW	Japan	Graduate School of Global Environmental Studies, Kyoto University
Hiroyuki KAMEDA	Japan	Kyoto University (Prof. Emeritus), NIED (Visiting Researcher)
Yoshiaki KAWATA	Japan	Director, Disaster Prevention Research Institute, Kyoto University
Kaoru TAKARA	Japan	Vice Director, DPRI, Kyoto University, Executive Director of ICL
Masahiro CHIGIRA	Japan	DPRI, Kyoto University
Kyoji SASSA	Japan	Director, Research Centre on Landslides (RCL), DPRI, Kyoto University, President of ICL
Hiroshi FUKUOKA	Japan	RCL, DPRI, Kyoto University, Treasurer of ICL
Fawu WANG	Japan/China	RCL, DPRI, Kyoto University, Assistant to the President of ICL
Gonghui WANG	Japan/China	RCL, DPRI, Kyoto University
Sang-hyeok KANG	Japan/Korea	Visiting Scholar, DPRI, Kyoto University
Gen FURUYA	Japan	RCL, DPRI, Kyoto University
Taichi MINAMITANI	Japan	RCL, DPRI, Kyoto University
Nanase OGAWA	Japan	RCL, DPRI, Kyoto University
Kirill M. GERKE	Japan	RCL, DPRI, Kyoto University
Ekaterina GEORGIEVA	Japan	RCL, DPRI, Kyoto University
Mie UEDA	Japan	RCL, DPRI, Kyoto University

Access to the UNU and Hotel in Shibuya, Tokyo, Japan



1: United Nations University.

Tel: +81-3-3499-2811 Website: <http://www.unu.edu/index.htm>

2: Hotel Floracion Aoyama.

Tel: +81-3-3403-1541



Metal box

Memory box

battery

GPS receiver on top

Pen-recording type automatic extensometer

Solar power panel (left) and 4m-long pole (right)

Extensometer and GPS Receiver Installation in Machu Picchu

The complex block contains four photographs. The top-left photo shows a group of five men standing around a large, light-colored metal box with its doors open. Yellow arrows point from text labels to the box's interior. The top-right photo is a close-up of a white GPS receiver mounted on a pole. The bottom-left photo shows a close-up of a pen-recording automatic extensometer with a roll of paper. The bottom-right photo shows a man holding a solar panel, with a tall pole visible in the background.