

International Consortium on Landslides



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2004/2005

Established in January 2002



The International Consortium on Landslides (ICL) created at the Kyoto Symposium in January 2002 is an International non-governmental and non-profit scientific organization, which is supported by 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 Reduction (UN/ISDR), and intergovernmental programmes such as the International Hydrological Programme of UNESCO; the Government of Japan; and other governmental bodies. ICL was registered as a legal body under Japanese law for non-profit organizations in August 2002 in the Government of Kyoto Prefecture, Japan. The present domicile of the International Consortium on Landslides is Kyoto, Japan, where the Secretariat is located.

1. Background

Landslides are various types of gravitational mass movements of the earth surface triggered by rainfall, earthquakes, volcanic activities, natural and anthropogenic change of slope geometry, and others. They are studied in the field of earth sciences (geology and geomorphology, geophysics), water sciences (hydrology and hydraulics), engineering sciences (civil and mining engineering, forest and agricultural engineering), and also are relevant in cultural and social sciences.

Landslides may result in catastrophic disasters by destroying settlements in urban and urbanizing areas. They cause great economic losses by the destruction of construction works such as roads, railways, bridges, dams, ports, and occasionally in the destruction of cultural and natural heritage and other fragile treasures of humanity. At this time as we enter the 21st century, landslide risk mitigation and the protection of cultural and natural heritage are extremely important, but these have not always been studied in the integrated fashion as no common platform was present on an international level.

A series of international initiatives have been taken to solve this situation:

The Japan Landslide Society started an international newsletter “**Landslide News**” in 1987 with the secretariat in the Disaster Prevention Research Institute, Kyoto University. 4,000-5,000 copies of each issue are distributed within Japan and throughout the world with support from United Nations organizations, international academic societies and international experts.

“**IGCP-425: Landslide Hazard Assessment and Mitigation of Cultural Heritage Sites and Other Locations of High Societal Value**” has been conducted since 1998, as one project of the UNESCO/IUGS Joint Programme “International Geological Correlation Programme”.

UNESCO and the Disaster Prevention Research Institute, Kyoto University exchanged a Memorandum of Understanding (**UNESCO/DPRI MoU**) “Concerning cooperation in research for landslide risk mitigation and protection of the cultural and natural heritage as a key contribution to environmental protection and sustainable development in the first quarter of the twenty-first century” in December 1999.

The UNESCO/IGCP Symposium on Landslide Risk Mitigation and Protection of Cultural and Natural Heritage was organized in the Science Council of Japan on 15-19 January 2001, Tokyo,

Japan. The 2001 Tokyo Declaration “**Geoscientists tame landslides**” was released for the establishment of a new International Consortium on Landslides.

Landslide experts and representatives from related United Nations organizations gathered in the Foundation Meeting of the International Consortium on Landslides held during the International Symposium “Landslide Risk Mitigation and Protection of Cultural and Natural Heritage: called **the Kyoto Symposium**” on 21-25 January 2002 in Kyoto, Japan

Discussion started from the opening address by Andras Szollosi-Nagy (Deputy Assistant Director General of UNESCO) on behalf of Walter Erdelen (Assistant Director General of UNESCO) and continued to the 2002 Kyoto Declaration “**Establishment of an International Consortium on Landslides.**”

2. Objectives and Activities

The objectives of the Consortium are to:

- a) promote landslide research for the benefit of society and the environment, and capacity building, including education, notably in developing countries;
- b) integrate geosciences and technology within the appropriate cultural and social contexts in order to evaluate landslide risk in urban, rural and developing areas including cultural and natural heritage sites, as well as contribute to the protection of the natural environment and sites of high societal value;
- c) combine and coordinate international expertise in landslide risk assessment and mitigation studies, thereby resulting in an effective international organization which will act as a partner in various international and national projects; and
- d) promote a global, multidisciplinary programme on landslides.

The central activity is the **International Programme on Landslides (IPL)**. Other activities planned include international co-ordination, exchange of information and dissemination of research activities and capacity building through various meetings, dispatch of experts, landslide database, and publication of “Landslides”: Journal of the International Consortium on Landslides.

3. Structure

The outline of ICL and the relationship of ICL, IPL and the Research Centre on Landslides (RCL) are illustrated in Figures 1 and 2. Figure 1 shows the structure of ICL. ICL members come from one of four categories of intergovernmental organizations, non-governmental organizations, governmental and public organizations, and other organizations and entities. Members are those organizations that support the objectives of ICL intellectually, practically and financially. Each Member sends a representative to the Board of Representatives (BOR), which has full power for all decision of the consortium. Figure 2 shows the relationship of ICL, IPL and the Research Centre on Landslides (RCL). ICL consists of four categories of Members and receives special support from UNESCO, WMO, FAO, UN/ISDR, and governmental bodies such as Japan, USA, Italy, Canada, Norway, and IUGS (as of January 2004). The Research Centre on Landslides was established in Kyoto, Japan, with possible satellite centers elsewhere.

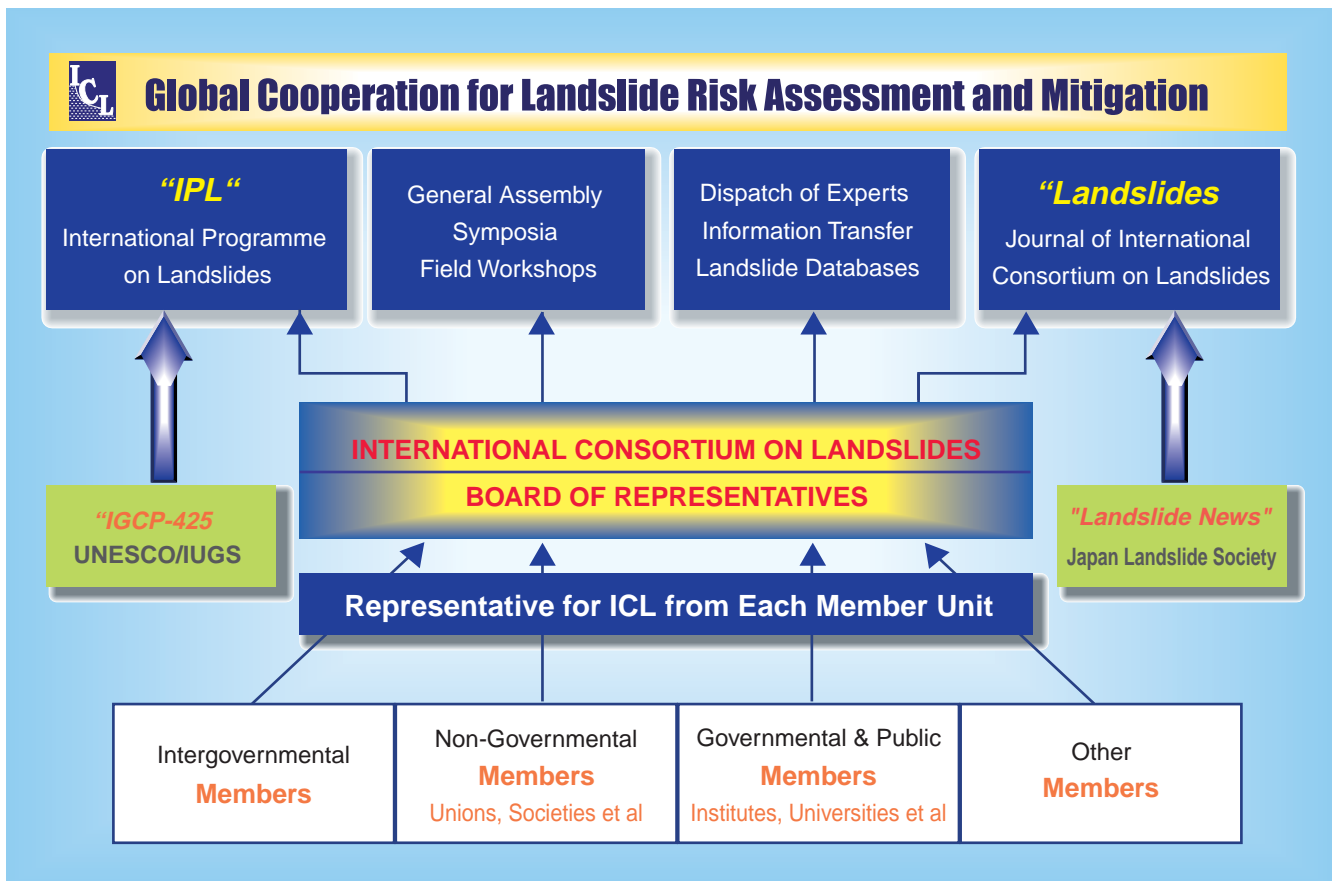


Figure 1. ICL Structure

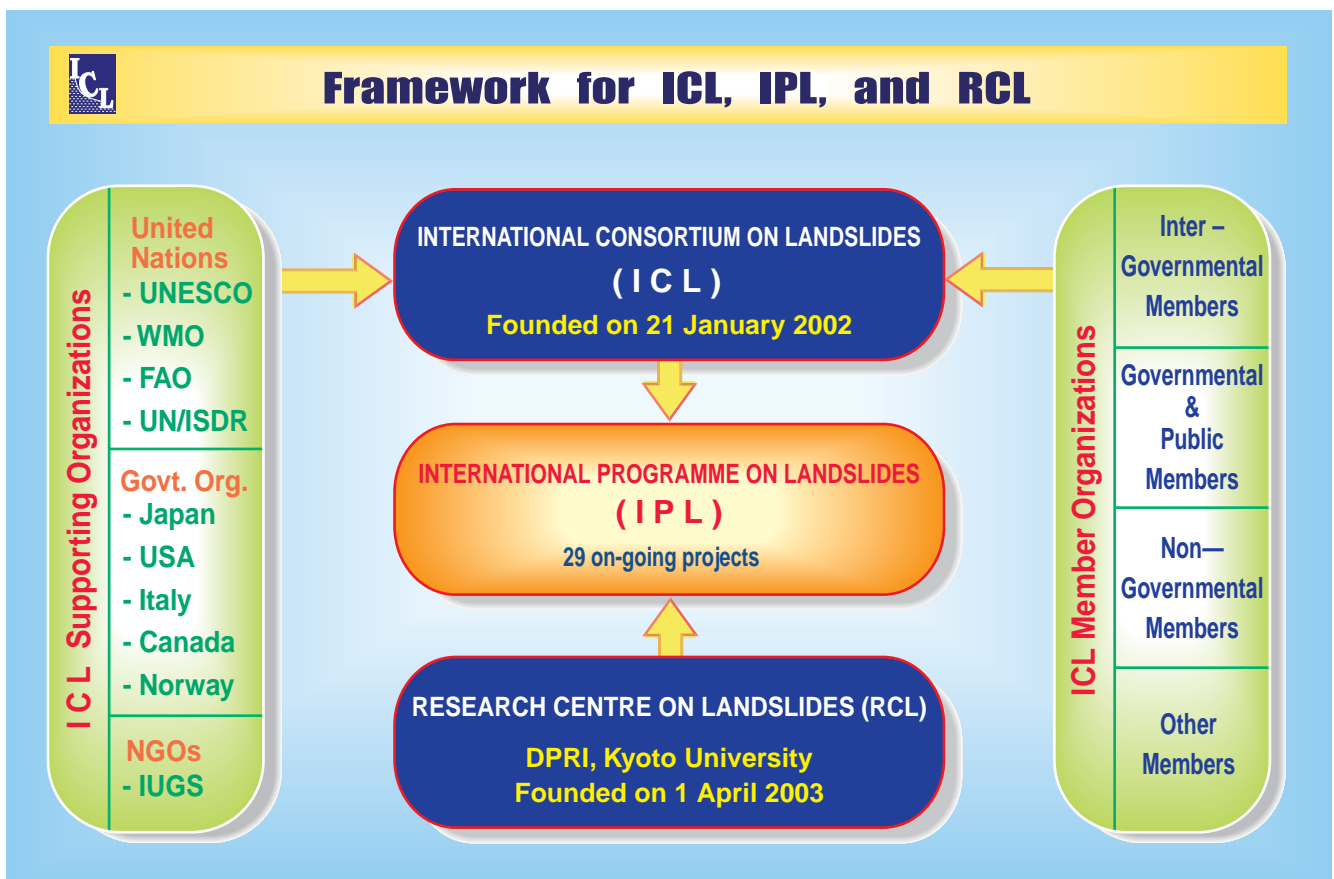


Figure 2. Relationship of ICL, IPL, and RCL

4. Officers of ICL

President: Kyoji SASSA (Kyoto University, Japan)

Vice Presidents:

Peter BOBROWSKY (Geological Survey of Canada)

Paolo CANUTI (University of Firenze)

Romulo MUCHO (Instituto Geologico Minero y Metalurgico, Peru)

Peter LYTTLE (U. S. Geological Survey)

Executive Director: Kaoru TAKARA (Kyoto University, Japan)

Treasurer: Claudio MARGOTTINI (Italian Agency for New Technologies, Energy and Environment / CIVITA Consortium, Italy)

Assistants to the President:

Rafi AHMAD (University of the West Indies, Jamaica)

Nicola CASAGLI (University of Firenze, Italy)

Yasser ELSHAYEB (Cairo University, Egypt)

Hiroshi FUKUOKA (Kyoto University, Japan)

Oddvar KJEKSTAD (International Centre for Geohazards, Norway)

Zieaoddin SHOAEI (Soil Conservation and Watershed Management Institute, Iran)

Alexander STROM (Shear-holding Company "Institute Hydroproject", Russia)

Fawu WANG (Kanazawa University, Japan/China)

Committees and Coordinators

IPL Review Committee

Yasser ELSHAYEB (Faculty of Engineering, Cairo University, Egypt), Coordinator

Ján VLČKO (Comenius University, Slovakia), Assistant Coordinator

Committee for Capacity Building

Zieoddin SHOAEI (Soil Conservation and Watershed Management Research Institute, Iran),
Coordinator

Alexander STROM (Institute of the Geospheres Dynamics, Russia), Assistant Coordinator

Rafi AHMAD (University of the West Indies), Assistant Coordinator

Task Force for Resources Mobilization

Oddvar Kjekstad (International Centre for Geohazards, Norway), Coordinator

Peter LYTTLE (U. S. Geological Survey), Assistant Coordinator

Paula GORI (U. S. Geological Survey), Assistant Coordinator

Claudio MARGOTTINI (Italian Agency for New Technologies, Energy and Environment/
CIVITA Consortium, Italy), Assistant Coordinator

Kaoru TAKARA (Kyoto University, Japan), Assistant Coordinator

Committee for ICL Library and Information Dissemination

Hiroshi FUKUOKA (Kyoto University, Japan), Coordinator

Nicola CASAGLI (University of Firenze, Italy), Assistant Coordinator

ICL Award Committee (Research, Practice, and Service)

Peter BOBROWSKY (Geological Survey of Canada), Coordinator

Paolo CANUTI (University of Firenze, Italy), Assistant Coordinator

5. ICL Member Organizations and Supporting Organizations

Forty-nine organizations have registered as ICL member organizations. Following list includes the names of organization, Representative (Board Member) and Alternative Representative (Deputy Board Member).

1. Geological Survey of Canada, Peter BOBROWSKY/ Baolin WANG
2. Institute of Geology and Mineral Exploration (IGME), Greece, Nikos NIKOLAOU / Eleftheria POYIADJI
3. CIVITA Consortium, Italy, Claudio MARGOTTINI
4. Consiglio Nazionale dei Geologi, Italy, Pietro Antonio De PAOLA / Gerardo NOLLEDI
5. ENEA (Italian Agency for New Technologies Energy and Environment), Italy, Guiseppe DELMONACO / Claudio PUGLISI
6. European Commission's Joint Research Centre, IPSC/HSU, Italy Alois SIEBER / Dario TARCHI
7. Istituto Nazionale di Oceanografia e di Geofisica Sperimentale - OGS, Italy, Daniel Nieto YABAR / Emanuele LODOLO
8. University of Firenze, Earth Sciences Department, Italy, Paolo CANUTI / Nicola CASAGLI
9. Ehime University, Faculty of Engineering, Japan, Ryuichi YATABE / Netra P. BHANDARY
10. Forestry and Forest Product Research Institute, Japan, Kiyoshi TANAKA / Hirotaka OCHIAI
11. Geographical Survey Institute, Japan, Masanori SUGIYAMA / Makoto IIDA
12. Japan Landslide Society, Japan, Hiromitsu YAMAGISHI / Hiroshi FUKUOKA
13. Kanazawa University, Faculty of Engineering, Geotechnical Engineering Group, Japan, Tatsunori MATSUMOTO / Fawu WANG
14. Kyoto University, Disaster Prevention Research Institute, Research Centre on Landslides, Japan, Kyoji SASSA / Hiroshi FUKUOKA
15. Kyoto University, Disaster Prevention Research Institute, Flood Section, Japan, Kaoru TAKARA / Roy SIDLE
16. Niigata University, Research Institute for Hazards in Snowy Areas, Japan, Hideaki MARUI / Naoki WATANABE
17. University of Tokyo, Department of Civil Engineering, Geotechnical Engineering Group, Japan, Ikuo TOWHATA
18. University of Tokyo, Institute of Industrial Science, Japan, Kazuo KONAGAI
19. International Centre for Geohazards (ICG) in Oslo, Norway, Oddvar KJEKSTAD / Farrokh NADIM
20. Swiss Federal Institute for Snow and Avalanche Research SLF, Switzerland, Walter AMMANN / Oliver KORUP
21. National University of Science and Technology, Ecological and Hazard Mitigation Engineering Research Center, Taiwan, H.J. LIAO

22. U.S. Geological Survey, USA, Peter T. LYTTLE / Randall G. UPDIKE
23. Charles University, Research Center of Earth Dynamic, Czech Republic, Vit VILIMEK / Jiri ZVELEBIL
24. International Association of Geomorphologists (IAG), Italy, Mario PANIZZA
25. Federal State Unitary Geological Enterprise Scientific Centre "HydGeo", Russia, Oleg ZERKAL / Julia V. Frolova
26. Institute of the Geospheres Dynamics, Russian Academy of Sciences, Russia, Alexander STROM / Nikolai SYRNIKOV
27. Comenius University, Faculty of Natural Sciences, Department of Engineering Geology, Slovakia, Rudolf HOLZER / Ján VLČKO
28. Chengdu Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, China, Tianchi LI / Peng CUI
29. Chongqing Seismological Bureau, China, Renjie DING
30. Jilin University, Environmental Geological Disaster Research Institute, China, Binglan CAO
31. Lishan Landslide Prevention and Control Office, Xian Municipal Government, China, Qingjin YANG / Yongjin TIAN
32. Northeast Forestry University, China, Wei SHAN / Yin-ge ZHANG
33. Shanghai Jiotong University, School of Civil Engineering and Mechanics, Geotechnical Engineering Group, China, Xingchun HUANG / Dexuan ZHANG
34. Cairo University, Faculty of Engineering, Rock Engineering Laboratory, Egypt, Yasser ELSHAYEB / Hany HELAL
35. Mekelle University, Ethiopia, Kurkura KABETO / Trufat HAILEMARIAM
36. Indian Institute of Technology, Roorkee, India, A.K. PACHAURI
37. Building & Housing Research Center, Iran, S.H. TABATABAEI / M.H. Tofigh RAYHANI
38. International Institute of Earthquake Engineering and Seismology (IIEES), Iran, Mohammadreza MAHDAVIFAR / Ebrahim HAGHSHENAS
39. Soil Conservation and Watershed Management Research Institute (SCWMRI), Iran, Zieaoddin SHOAEI
40. University of the West Indies, Jamaica, Rafi AHMAD
41. Mara University of Technology, Malaysia, Roslan Zainal ABIDIN / Yusof Abdul. RAHMAN
42. International Centre for Integrated Mountain Development (ICIMOD), Nepal, Binayak BHADRA
43. Grudec Ayar, Peru, Raul CARRENO
44. Instituto Geologico Minero y Metalurgico (INGEMMET), Peru, Romulo MUCHO / Antonio GUZMAN
45. Institute of Environmental Geoscience (IEG RAS), Russian Academy of Sciences, Russia, Victor OSIPOV / Svalova VALENTINA
46. Technical University, Civil Engineering Faculty, Romania, Nicolae BOTU / Dan CARASTOIAN
47. Share-holding Company "Institute Hydroproject", Russia, Alexander PIOTROVSKIY
48. West-Siberian Regional Center (RC "TomskGeoMonitoring"), SC HydGeo, Russia, Viktor A. LGOTIN
49. Ministry of Agriculture and Cooperatives, Land Development Department, Thailand, Parida KUNEEPONG / Aniruth POTICHAN

The Supporting Organizations and contact persons are as follows:

The United Nations Educational, Scientific, Cultural Organization (UNESCO: Wolfgang EDER/Director of Division of Earth Sciences, Andras SZOLLOSI-NAGY/Director of Division of Water Sciences, Laurent LEVI-STRAUSS, Galia SAOUMA-FORRERO & Christian MANHART/Division of Cultural Heritage, Badaoui ROUHBAN/Division of Engineering Sciences, Winsome GORDON/Division of Higher Education), the World Meteorological Organization (WMO: Michel JARAUD/Secretary General, Hong Yan, Carlos TAVARES), the Food and Agriculture Organization of the United Nations (FAO: Hosny EL-LAKANY/Assistant Director General, ElHadji SENE/Director of Division of Forest Resources of the Forestry Department), the United Nations International Strategy for Disaster Reduction (ISDR) Secretariat (Salvano BRICENO/Director, Pedro BASABE/Technical advisor), the Ministry of Education, Culture, Sports, Science and Technology (MEXT) Japan (Takayuki NAKAMURA/Director of Office of Disaster Prevention Research, Hiroyuki NAKAGAWA), and the U.S. Geological Survey of the United States Department of the Interior (P. Patrick Leahy/Associate Director of Geology), and IUGS (Werner JANOSCHEK/Secretary General).

6. International Programme on Landslides

The International Program on Landslides (IPL) is an international initiative of the International Consortium on Landslides. IPL aims to conduct international cooperative research and capacity building on landslide risk mitigation, notably in developing countries. Protection of cultural and natural heritage will be addressed for the benefit of society and the environment. The activities of IPL will contribute to the International Strategy for Disaster Reduction (ISDR).

Project Categories

Each IPL project can fall into one of the following three categories:

- New project proposed by an ICL member.
- Existing project conducted by an ICL member.
- Coordinating projects proposed by the IPL Review Committee. These projects will cover topics of general interest with high priority and urgent societal needs.

The Board of Representatives of the International Consortium on Landslides (BOR/ICL) will examine the result of evaluation for each project by the IPL Review Committee and select some of projects as on-going IPL projects. The Board will allocate a budget for each project based on the consideration of significance and other financial resources.

In addition to these three categories, projects proposed by ICL Supporters/Associates or non-affiliated individuals/groups shall be examined when criteria and resources are identified.

Projects Topics

The activities of IPL shall include the following main topics:

1. **Fundamental research on landslides.** For example;
 - o Geological, geotechnical, and geophysical models;
 - o Monitoring including remote sensing and non-invasive systems;

- o New technology, expert and intelligent systems;
 - o Earthquake-triggered landslides and rain-induced landslides; and
 - o Rapid and long-traveling flow phenomena.
2. **Global data base and landslide hazard assessment.** For example;
 - o Global database on landslide research;
 - o Effects of meteorological and hydrological factors and global climatic change;
 - o Assessment of landslide data; and
 - o GIS applications to landslides.
 3. **Landslide Risk Mitigation.** For example;
 - o Landslide risk evaluation: hazard assessment, hazard mapping and vulnerability assessment;
 - o Early warning system;
 - o Land development and land-use planning; and
 - o Landslide remedial measures.
 4. **Cultural and Societal Application.** For example;
 - o Cultural and natural heritage sites such as Machu Picchu World Heritage site in Peru and the Masoule case in Iran;
 - o Case studies in sites of high societal value;
 - o Joint investigations of catastrophic landslide disasters; and
 - o Special focus on case studies in developing countries.
 5. **Capacity Building, Communication and Information.** For example;
 - o International co-ordination and networking with other organizations or international initiatives on landslides;
 - o Publication of the "Landslide" Journal, books and guidelines;
 - o Conference organization and sponsorship;
 - o Public awareness through press conferences and public seminars;
 - o Training courses in specific countries; and
 - o Supplying expert knowledge.

On-going Projects in 2004

I. Coordinating Projects

- C100** "Landslides": Journal of International Consortium on Landslides
4 issues/year, full color, both printed version & web version. Printed and distributed through Springer-Verlag. The Journal was launched in April 2004.
- C101** Landslide Risk Evaluation and Mitigation in Cultural and Natural Heritage Sites
Coordinators: Kyoji SASSA and Paolo CANUTI
- C101-1** Landslide investigation in Machu Picchu
Coordinator: Kyoji SASSA
- C101-1-1** Low environmental impact technologies for slope monitoring by radar interferometry: application to Machu Picchu site
Office: ENEA (Italian Agency for New Technology Energy and Environment)
Proposer: Claudio MARGOTTINI

- C101-1-2** Expressions of risky geomorphologic processes in deformations of rock structures at Machu Picchu.
Office: Research Center of Earth Dynamic , Charles University, Czech Republic
Proposers: Vít VILÍMEK and Jirí ZVELEBIL
- C101-2** Landslides monitoring at selected historic sites in Slovakia
Office: Faculty of Natural Science, Comenius University in Bratislava, Slovakia
Proposer: Ján VLCKO
- C101-3** The geomorphological instability of the Buddha niches and surrounding cliff in Bamiyan valley (Central Afghanistan)
Office: CIVITA Consortium, Italy
Proposers: Claudio MARGOTTINI
- C101-4** Stability assessment and prevention measurement of Lishan Landslide, Xi'an, China
Office: Lishan Landslide Prevention and Control Office, Xi'an, China
Proposer: Qing-Jin YANG
- C101-5** Environment protection and disaster mitigation of rock avalanches and Landslides in Tianchi Lake region and natural preservation area of Changbai Mountains, Northeast China
Office: Environmental Geological Disaster Research Institute, Jilin University, China
Proposer: Binglan CAO
- C101-6** Conservation of Masouleh Town
Office: Building and Housing Research Center, Iran
Proposer: S.H. TABATABAEI
- C102** Assessment of global high risk landslide disaster hotspots
Office: International Centre for Geohazards at Norwegian Geotechnical Institute (NGI), Oslo
Proposer: Farrokh NADIM

II. Member Projects

- M101** Areal prediction of earthquake and rain induced rapid and long-traveling flow phenomena (APERITIF)
Office: Disaster Prevention Research Institute, Kyoto University
Proposer: Kyoji SASSA
- M102** Disaster evaluation and mitigation of the giant Jinnosuke-dani Landslide in the Tedori water reservoir area, Japan
Office: Geotechnical Engineering Group, Kanazawa University, Japan
Proposer: Tatsunori MATSUMOTO
- M103** Capacity building on management of risks caused by landslides in Central America countries
Office: International Centre for Geohazards at Norwegian Geotechnical Institute (NGI), Oslo
Proposer: Farrokh NADIM

- M104** A global literature study on the use of critical rainfall intensity for warning against landslide disasters
Office: International Centre for Geohazards at Norwegian Geotechnical Institute (NGI), Oslo
Proposer: Haakon HEYERDAL
- M105** Hurricane-flood-landslide continuum: A forecast system
Office: U.S. Geological Survey
Proposer: Randall UPDIKE
- M106** A best practices handbook for landslide hazard mitigation
Office: U.S. Geological Survey and Geological Survey of Canada
Proposers: Randall UPDIKE and Peter BOBROWSKY
- M107** Landslide risk assessment in landslide prone regions of Slovakia – modelling of climatic changes impact
Office: Faculty of Natural Science, Comenius University in Bratislava, Slovakia
Proposer: Rudolf HOLZER
- M108** Disaster evaluation and mitigation of landslides in the Three-Gorge water reservoir area, China
Office: Chongqing Seismological Bureau, China
Proposer: Renjie DING
- M109** Recognition, mitigation and control of landslides of flow type in Greater Kingston and adjoining parishes in Eastern Jamaica, including public education on landslide hazard
Office: Department of Geography and Geology, University of the West Indies, Jamaica
Proposer: Rafi AHMAD
- M110** Capacity building in landslide hazard management and control for mountainous developing countries in Asia
Office: International Centre for Integrated Mountain Development (ICIMOD), Nepal and Research Institute for Hazards in Snowy Areas, Niigata University
Proposer: Tianchi LI and Hideaki MARUI
- M111** Detail study of the internal structure of large rockslide dams in the Tien Shan and International field mission: Internal structure of dissected rockslide dams in Kyrgyzstan
Office: Hydroproject Institute, Russia
Proposer: Alexander STROM
- M112** Landslide mapping and risk mitigation planning in Thailand
Office: Land Development Department (LDD), Govt. of Thailand and Japan Landslide Society
Proposers: Chaiyasit ANEKSAMPARM and Toyohiko MIYAGI
- M113** Zone risk map: Towards harmonized, intercomparable landslide risk assessment and risk maps
Office: Faculty of Engineering, Cairo University, Egypt
Proposer: Yasser ELSYAEB
- M114** Landslide Hazard Assessment Along Tehran-Caspian Seaside Corridors
Office: Soil Conservation and Watershed Management Research Institute, Iran
Proposer: Zieaoddin SHOAEI

- M115** Establishment of a regional network for disaster mitigation, disaster education, and disaster database system in Asia
Office: Faculty of Engineering, Ehime University, Japan
Proposer: Ryuichi YATABE
- M116** Standardization of Terminology, Integration of Information and the Development of Decision Support Software in the area of Landslide Hazards
Office: Geological Survey of Canada
Proposer: Catherine HICKSON
- M117** Geomorphic hazards from landslide dams
Office: Swiss Federal Institute of Snow and Avalanche Research, Switzerland
Proposer: Oliver KORUP
- M118** Development of an expert DSS for assessing landscape impact mitigation works for Cultural Heritage at risk (VIP project)
Office: ENEA Agency, Italy
Proposer: Giuseppe DELMONACO
- M119** Slope instability phenomena in Korinthos county
Office: Institute of Geology and Mineral Exploration, Greece
Proposer: Nikos NIKOLAOU
- M120** Landslide Hazard Zonation in Garhwal using GIS and geological attributes
Office: Indian Institute of Technology, Roorkee, India
Proposer: Ashok K. PACHAURI
- M121** Integrated system for a new generation of monitoring of dynamics of unstable rock slopes and rock fall early warning
Office: Charles University, Czech Republic
Proposer: Jirí ZVELEBIL

7. Statutes

INTERNATIONAL CONSORTIUM ON LANDSLIDES STATUTES

I: DENOMINATION

1. ICL: The International Consortium on Landslides, hereinafter named "ICL" is an international non-governmental and non-profit making scientific organization.

II: OBJECTIVES

2. The principal objectives are to:
 - a) promote landslide research for the benefit of society and the environment, and capacity building, including education, notably in developing countries;
 - b) integrate geosciences and technology within the appropriate cultural and social contexts in order to evaluate landslide risk in urban, rural and developing areas including cultural and natural heritage sites, as well as to contribute to the protection of the natural environment and sites of high societal value;
 - c) combine and coordinate international expertise in landslide risk assessment and mitigation studies, thereby resulting in an effective international organization which will act as a partner in various international and national projects; and
 - d) promote a global, multidisciplinary Programme on landslides.

III: Background and Domicile

3. The International Consortium on Landslides (ICL) was created in 2002 as a result of several international initiatives by specialists in the field of landslides:

the international newsletter "Landslide News", published since 1986 by the Japan Landslide Society in cooperation with UNESCO and other international organizations and experts;

the 1999 Memorandum of Understanding between UNESCO and the Disaster Prevention Research Institute, Kyoto University, Japan (DPRI/KU) concerning cooperation in research for landslide risk mitigation and protection of the cultural and natural heritage as a key contribution to environmental protection and sustainable development in the first quarter of the twenty-first century; and

the 2001 Tokyo Declaration "Geoscientists tame landslides" in the UNESCO/IGCP Symposium on Landslide Risk Mitigation and Protection of Cultural and

Natural Heritage.

The present domicile of ICL is Kyoto, Japan, where the Secretariat is located. The official languages of the Consortium are English and Japanese.

IV: MEMBERS

4. **Members** are those organizations that support the objectives of ICL intellectually, practically and financially. Membership is for a minimum period of two years. Members will come from one of four categories:
 - a) Intergovernmental organizations
 - b) Non-governmental organizations
 - c) Governmental organizations and public organizations
 - d) Other organizations and entities.

V: OBSERVERS

5. Relevant UN entities and Governmental entities may wish to delegate **Observers** as Special Supporting Organizations to the Steering Committee and the Board of Representatives.

VI: ASSOCIATES

6. **Associates** are organizations and individuals who support the objectives of ICL and meet the appropriate financial obligations but do not qualify for Member status.

VII: SUPPORTERS

7. **Supporters** are other organizations and individuals who support the objectives of ICL and provide funds for its activities.

VIII: BOARD OF REPRESENTATIVES

8. Full power for the management of the affairs of the Consortium is vested in the Board of Representatives, which will meet at least annually. The quorum and internal regulations are defined by the bylaws.
9. The Board of Representatives shall be composed of representatives of the Member organizations. Each Member organization shall designate one Representative and one Alternative Representative.
10. In the absence of a Member's Representative from any meeting of the Board of Representatives, the alternative

representative may attend the meeting and exercise all the rights, powers and privileges of the absent Representative. Alternatively, the Representative may delegate his rights, powers and privileges to another Member of ICL for that particular meeting, or authorize him/her to act and vote on his behalf.

11. The Board of Representatives shall:
 - a) determine general policy;
 - b) initiate scientific programmes and decide on future priorities for the activities of ICL;
 - c) approve or change, if necessary, the budget and accounts;
 - d) examine and decide on each application for Member, Associate or Supporter status;
 - e) elect the Officers of ICL in accordance with the Bylaws;
 - f) terminate the status of any Member, Associate or Supporter of ICL which has failed to fulfill any of its obligations or when the association is no longer considered appropriate, in accordance with the Bylaws;
 - g) change the Statutes and Bylaws;
 - h) deal with other items which may be referred to it.
12. Voting will be decided on a simple majority. Each Member shall have one vote. Normally the President of ICL will not vote but in the event of a tie, the President may have the casting vote.

IX: STEERING COMMITTEE OF THE BOARD

13. The Steering Committee of the Board shall consist of:
 - a) the President, between 2 and 4 Vice Presidents, the Executive Director, the Treasurer and the immediate past president;
 - b) Co-opted Members from the board recommended by the President to act as Assistants to the President during his term of office; and
 - c) a limited number of “ex officio” observers from the United Nations Educational, Scientific, 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 Reduction (ISDR) Secretariat, the Ministry of Education, Culture, Sports, Science and Technology (MEXT) Japan, and other organizations as may be considered appropriate.

14. The Steering Committee, which duly reflects the international character of the consortium, reports to the Board of Representatives. It oversees the operations of ICL and recommends the direction and priorities of ICL to the Board of Representatives.
15. The Steering Committee shall meet as often as necessary and at least annually. Its duties are to:
 - a) prepare the Agenda for the meetings of the Board of Representatives;
 - b) present to each annual meeting of the Board of Representatives a report of the scientific and administrative activities of ICL since the previous ordinary meeting of the Board of Representatives;
 - c) propose a draft budgetary outline for consideration by the meeting of the Board of Representatives and recommend the scale of annual membership fees to be paid by Members and Associates for the ensuing 3-year period; and
 - d) review the scientific activities of ICL and make appropriate recommendations to the meeting of the Board of Representatives.

X: SECRETARIAT

16. The Secretariat is responsible for the day-to-day operations of ICL. It consists of the Executive Director, the Treasurer and other secretarial members. The number of secretarial members may vary and will depend on the extent of the activities of ICL.
17. The Secretariat prepares for and reports to the meetings of the Steering Committee including:
 - a) preparation of an annual work plan for the scientific and administrative activities of ICL;
 - b) preparation of an annual budget and financial report for ICL;
 - c) preparation of an annual report of the scientific and administrative activities of ICL; and
 - d) dissemination of the results of landslide studies undertaken by/through ICL.

XI: GENERAL ASSEMBLY

18. In order to report and disseminate the activities and achievements of ICL, a General Assembly shall be convened

once every three years by inviting Members, Associates and Supporters of ICL, individual members within those organizations and all levels of co-operating organizations and individual researchers, engineers and administrators. The General Assembly will receive reports on ICL's activities and provide a forum for open discussion and new initiatives from all participants.

19. Symposia and Field Workshops shall be organised annually or as appropriate at/or between the General Assemblies, in order to present the scientific and technological progress achieved through ICL activities and to disseminate new proposals and new scientific initiatives.

XII: OFFICERS

20. The Officers of ICL shall consist of the President and Vice Presidents, the Executive Director, the Treasurer and the Immediate Past President. They shall meet and communicate as often as is deemed necessary.
- a) The President of ICL shall preside at all meetings of the General Assembly, the Board of Representatives and the Steering Committee and shall perform such other duties and exercise such other powers as shall be assigned by the Board of Representatives.
 - b) The Vice Presidents shall assist the President and in his absence preside at meetings and exercise the powers of the President in his place.
 - c) The Executive Director, except as otherwise provided by the Board of Representatives, shall be the chief executive officer of the Consortium and execute contracts and agreements with external parties on behalf of ICL. The Executive Director, upon the approval of the Steering Committee, may appoint secretaries, working groups or committees to assist in carrying out the business of the Consortium.
 - d) The Treasurer, in accordance with the financial regulations to be developed, approved by the Board of Representatives and set out in the Bylaws, shall collect and receive and have charge and custody of the funds and securities of the Consortium. The accounts of the Consortium shall be prepared at the end of each calendar year and submitted by the Treasurer to the Board of Representatives after having been audited by two authorized auditors appointed by the Board of Representatives.

- e) Election and Terms of Office

The President and Vice Presidents shall be elected by the Board of Representatives, in accordance with the Bylaws and hold office for a term of three years, beginning from the end of the ordinary meeting of the Board of Representatives at which he or she has been elected. The President and Vice Presidents may be re-elected but may not hold the same office for more than two consecutive terms.

The Executive Director and Treasurer shall each be recommended by the President and the Vice Presidents and approved by the Board of Representatives. They shall hold office for three calendar years beginning from January 1st of the year following the meeting of the Board of Representatives at which they have been approved. The Executive Director and the Treasurer may each be re-elected for no more than three consecutive terms.

XIII: FINANCE

21. The funds of ICL are obtained from:
- a) membership fees from Members;
 - b) contributions from Special Supporting Organizations;
 - c) membership fees from Associates;
 - d) funds from Supporters;
 - e) other subventions, donations and financial support; and
 - f) funds for research and investigation projects on landslide risk mitigation which are requested by third parties and accepted by ICL.

XIV: MEMBERSHIP FEES

22. Annual membership fees for Members, Associates and Supporters are decided by the Board of Representatives

XV: TERMINATION OF MEMBERSHIP

23. Notification of termination of Membership must be given to the Treasurer at least one year in advance.

XVI: MODIFICATION OF THE STATUTES

24. Changes to the Statutes require approval by a quorum of the Board of Representatives with a minimum two-thirds majority of the votes cast.
25. Changes to the Bylaws require approval by a quorum of the Board of Representatives with a simple majority votes cast.



International Consortium on Landslides Bylaws

1. This Bylaw will define the internal regulation for the management of the International Consortium on Landslides.
2. Quorum and Internal Regulations of the Board of Representatives defined by Chapter VIII: Board of Representatives, Article 8 are;
 - 1) Quorum is defined as half of the members; and
 - 2) Decisions of the Board of Representatives are made by majority vote. When the votes are equally divided, the chairperson decides.
3. Alternative representation defined by the Board of Representatives described in Chapter VIII: Board of Representatives, Article 10 is;
 - 1) If a representative of ICL will be absent and asks his alternative or another member to act and vote on his behalf, the president must be informed in writing before the meeting of the Board of Representatives.
4. Election of Officers defined by XII: Officers, Article 20 are;
 - 1) President shall be elected by a quorum of the Board of Representatives with a simple majority of votes cast.
 - 2) Vice presidents shall be recommended by the nominating committee, the latter consists of five individuals who shall be approved by the Board of Representatives.
5. Membership fees by Chapter XIV: Article 22 are;
 - 1) Membership fees for Members are 5,000 US\$ for full membership;
 - 2) Membership fees for developing countries are 500US\$, 1,000US\$ or 2,000US\$;
 - 3) Membership fees for Associates to be examined;
 - 4) Membership fees for Supporters are 500 US\$ or more;
 - 5) The financial year of ICL starts on 1 January and ends on 31 December; and
 - 6) Membership fees for the current year must be paid one month before the ordinary BOR meeting.

Note:

Conditions for Members and Supporters

Members have the right to participate and vote in the Board of Representatives, which has full power for the management of the affairs of the consortium. Members will receive a minimum of two hard copies of the journal and access to the web version of the journal once it is published.

Supporters will receive information, news and reports on ICL and IPL. After the publication of ICL Journal, the list of supporters shall appear in each issue of the journal and they will receive one hard copy of the journal and access to the web version of the journal. They may attend the Board of Representatives as observers, if invited.

8. Other Information

"Landslides" - Journal of the International Consortium on Landslides

ICL has launched a new international full-color journal "Landslides", since April 2004.

Aim of this journal : Landslides are gravitational mass movements of rock, debris or earth. They may occur in conjunction with other major natural disasters such as floods, earthquakes and volcanic eruptions. Expanding urbanization and changing land-use practices have increased the incidence of landslide disasters. Landslides as catastrophic events include human injury, loss of life and economic devastation and are studied as part of the fields of earth, water and engineering sciences. The aim of the

journal "Landslides" is to be the common platform for the publication of integrated research on landslide processes, hazards, risk analysis, mitigation, and the protection of our cultural heritage and the environment. The journal publishes research papers, news of recent landslide events and information on the activities of the International Consortium on Landslides.

The Journal is an activity of the International Programme on Landslides, which is coordinated by the International Consortium on Landslides. Ownership of this journal belongs to ICL. This journal is supported by the United Nations Educational, Scientific and Cultural Organizations (UNESCO), the World Meteorological Organizations (WMO), the Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan, and Kyoto University, Japan.

Website of this journal is:

<http://icl.dpri.kyoto-u.ac.jp/journal.htm>

Online First of Springer Verlag :

<http://www.springerlink.com>



UNESCO – Kyoto University – ICL UNITWIN Cooperation Programme on Landslide Risk Mitigation for Society and the Environment

UNESCO, Kyoto University, and ICL exchanged the agreement concerning the establishment of a UNITWIN Cooperation Programme on Landslide Risk Mitigation for Society and the Environment Cooperation, at Kyoto University President Room on 19 March 2003. They had a ceremony for establishing UNITWIN Headquarter on 23 January 2004 in Kyoto University.

Detail of this programme is accessible through

<http://landslide.dpri.kyoto-u.ac.jp/unitwin.htm>.

The principal objectives of the Cooperation Programme are to ;

- (1) promote an integrated system of research, training, information and documentation activities in the field of Landslides for the benefit of society and the environment and as a key contribution to sustainable development and the protection of the environment on a global scale;
- (2) provide advice and expertise to all countries, particularly



the least developed, with a view to:

- (i) establishing landslide research and education for landslide risk mitigation;
- (ii) facilitating exchange of scientists and engineers;
- (iii) helping members of the Consortium in developing methods of global landslide monitoring;
- (iv) enhancing landslide experiments;
- (v) permitting development of a landslide database and digital library as well as of a world digital inventory.



Signing ceremony of UNITWIN Cooperation Programme on 19 March 2003.



Ceremony of Establishment of UNITWIN Cooperation Headquarter in Kyoto University on 23 January 2004.



Registration for International Consortium on Landslides and Application for International Programme on Landslides

The Registration form for ICL and the Application format for the IPL are below. Those interested in application are requested to submit the proper forms to the ICL Secretariat.

IPL Project Proposal Format

(MAXIMUM: 3 PAGES IN LENGTH)

Type of ICL Project Proposal: (ICL member existing project; ICL member new project; ICL supporters/associates or non-affiliated individuals new project)

Project Title: (2 lines maximum)

Main Project Category(s): (1 line maximum; fundamental research, database and hazard assessment, societal application, capacity building/information or other)

Date of Proposal Submission:

Primary Investigator Name:

Primary Investigator Affiliation: (2 lines maximum; include position and address)

Primary Investigator Contact: (1 line maximum; fax, phone, email)

Co-Investigator Names/Affiliations: (1 line maximum per investigator; 4 individuals maximum)

Objectives: (5 lines maximum; what you expect to accomplish?)

Background Justification: (10 lines maximum)

Study Area: (2 lines maximum; where will the project be conducted/applied?)

Project Duration: (1 line maximum)

Total Project Budget: (1 line maximum; in USD; equals sum of the following two):

Total Amount of Secured Funding/List Sources: (1 line per source maximum)

Total Amount of Funding Still Required/List Sources: (1 line per source maximum)

Total Budget Details: (10 lines maximum; include travel, equipment, personnel, contracts, in-kind support, etc. as needed)

Project Description: (30 lines maximum)

Work Plan/Expected Results: (20 lines maximum; work phases and milestones)

Deliverables/Time Frame: (10 lines maximum; what and when will you produce?)

Project Beneficiaries: (5 lines maximum; who directly benefits from the work?)

References (Optional): (6 lines maximum; i.e. relevant publications)

Note:

The International Program on Landslides(IPL) is coordinated by the International Consortium on Landslides. IPL projects can be financially supported by various sources. IPL projects must be proposed to the ICL Secretariat in the project proposal format by ICL members. IPL projects will be evaluated by the IPL Review Committee of the International Consortium on Landslides.

One of projects proposers is requested to attend and orally explain the projects in the Session of Board of Representatives of International Consortium on Landslides(BOR/ICL). The next Session of BOR/ICL in 2004 is to be held on 19– 23 October 2004 in Bratislava, Slovakia.



Membership Registration Form

Those who wish to join the ICL are requested to complete and return this form to the ICL Secretariat together with the bank transfer of membership fee.

1. Member Organization

Name of Organization:	
Postal Address:	
E-mail:	
Tel:	Fax:

2. Category and Amount of Membership

Category	Annual Fee	Amount *
Members	5,000 USD	
Members from Developing Countries	2,000 USD* 1,000 USD* 500 USD*	

* The membership fee is reduced for organizations in developing countries. If you would like to select your Annual Fee of 2,000, 1,000 or 500 USD, please contact the ICL Secretariat, which can advise the appropriate Fee amount for your organization based on Gross National Income (GNI).

3. Representatives to the ICL Board

Each Representative of ICL Board should be a landslide researcher for the active discussion in the Board.

Name of Representatives to ICL Board

Name and Position in the Member Organization:	
E-mail:	
Tel:	Fax:

Name of Alternate Representative

Name and Position in the Member Organization	
E-mail:	
Tel:	Fax:

4. Description of Member Organization

Please select one of the following categories which describes your organization properly and write a short outline of your organization below.

- a) Intergovernmental organizations, b) Non-governmental organizations, c) Governmental organizations, and Public organizations, d) Other organizations and entities, including a combination of organizations of more than two categories

Outline of your organization:

5. Payment of Membership Fee

Please send the registration form to ICL Secretariat and credit the membership fee to ICL Bank Account. Currency of membership fee should be one of USD, EURO and JPY.

ICL Bank Account

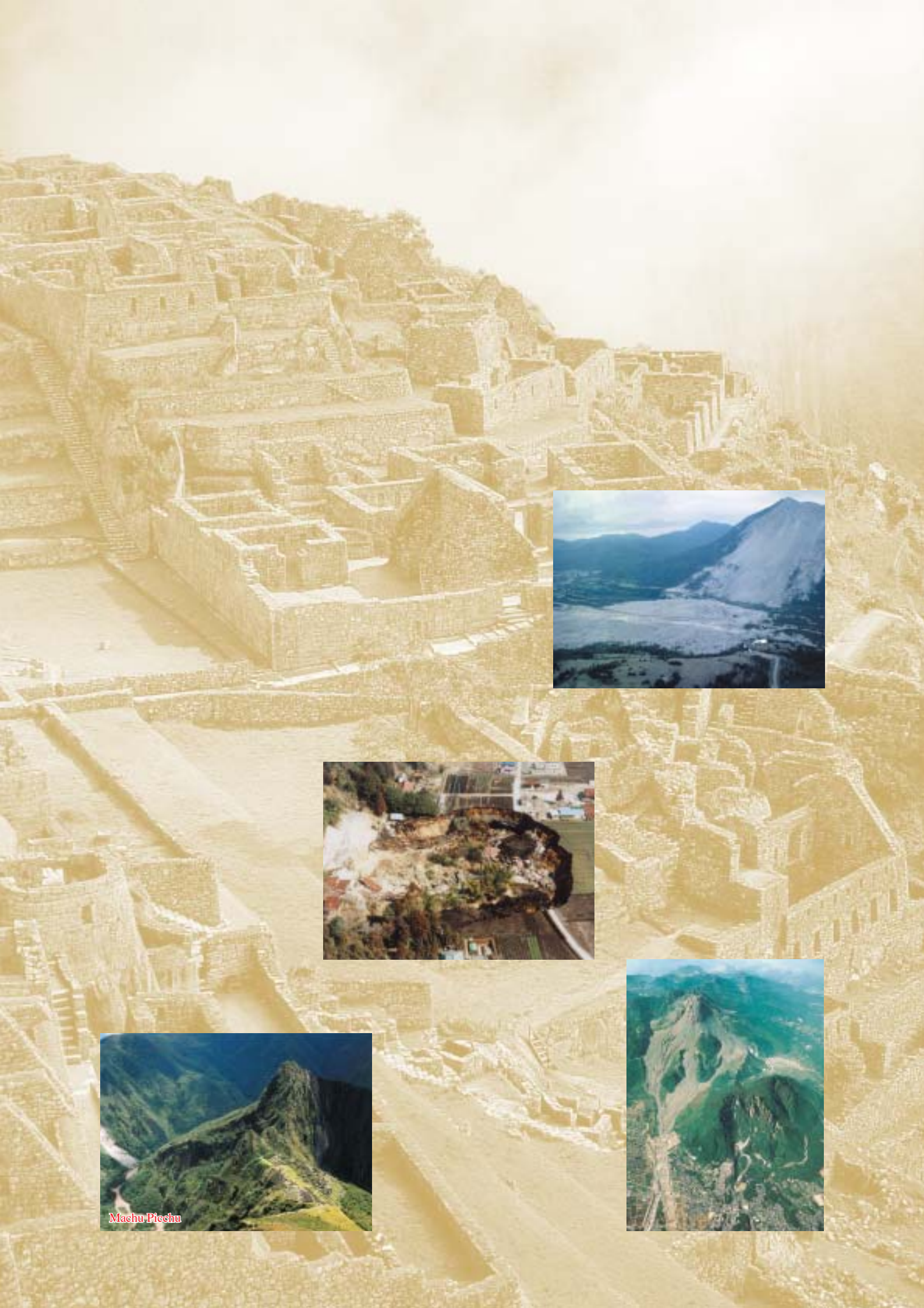
Bank of Tokyo Mitsubishi, Fushimi Branch
 Swift Code: BOTKJPJA
 Account Name: ICL Kyoji SASSA
 Account Number for USD: (508) 0028367
 Account Number for EURO: (508) 0028354
 Account Number for JPY: (508) 0754780



A joint photo commemorating the establishment of International Consortium on Landslides
23 January 2002, Kyoto, Japan

Secretariat of International Consortium on Landslides

Research Centre on Landslides, Disaster Prevention Research Institute
Kyoto University, Uji, Kyoto 611-0011, Japan
Facsimile: +81-774-325597, +81-774-38-4300 Telephone: +81-774-384110
Web site: <http://icl.dpri.kyoto-u.ac.jp/>
e-mail: jimu@landslide.dpri.kyoto-u.ac.jp



Machu Picchu

