

# Proposal of ICL Network

## 1. Name of Network

ICLLAN: International Consortium on Landslides-Latin-American Network

## 2. Name of Proposer

Irasema Alcántara-Ayala

### Affiliation: position

Institute of Geography, National Autonomous University of Mexico (UNAM)  
Director and Professor

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## Core members of the activities

### Names/Affiliations

#### 1. Mexico

##### Leading Institution:

Institute of Geography  
National Autonomous University of Mexico (UNAM)  
Irasema Alcántara-Ayala  
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##### Participants:

Leobardo Domínguez-Martínez  
National Centre for Disaster Prevention  
CENAPRED  
Mexico

Manuel Mendoza-López  
Institute of Engineering  
National Autonomous University of Mexico (UNAM)  
Professor

Gabriel Legorreta Paulín

Institute of Geography  
National Autonomous University of Mexico (UNAM)

Ricardo Garnica Peña  
Institute of Geography  
National Autonomous University of Mexico (UNAM)

## 2. **Brasil**

### **Leading Institution:**

CENACID, UFPR  
Center for Scientific Support in Disasters  
Federal University of Paraná-UFPR  
Renato Eugenio de Lima  
Professor, Director of CENACID-UFPR and UN consultant  
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### **Participants:**

Lazaro Valentim Zuquette  
CENACID-UFPR and USP (University of São Paulo – São Carlos)  
Professor

Jorge Xavier da Silva  
CENACID –UFPR and UFRJ (University of Rio de Janeiro)  
Professor

Juciara Carvalho Leite  
CENACID-UFPR  
Professor

Leonardo Fadel Cury  
CENACID-UFPR  
Professor

Luis Eduardo Mantovani  
CENACID-UFPR  
Professor

Francisco Dourado  
CENACID-UFPR and UERJ (University of the State of Rio de Janeiro)  
Professor

Jefferson Picanço  
CENACID-UFPR and UNICAMP (University of Campinas)  
Professor

**3. Perú**

**Leading Institution:**

GRUDEC AYAR

Cusco, Peru

Raúl Carreño

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**Participants:**

Rolando Chevarría Ochoa

GRUDEC AYAR

Susana Kalafatovich Castañeda

GRUDEC AYAR

Ronald López Zapana

Geological Engineering Faculty

University of Cusco

**4. Honduras**

**Leading Institution:**

Universidad Politécnica de Ingeniería, UPI,

Tegucigalpa, Honduras

Luis Eveline

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**Participants:**

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Anibal Godoy

Director de Instituto de Geociencias de Honduras

Universidad Politécnica de Ingeniería, UPI

Agodoyv2003@yahoo.com

**3. ICL member organizations (representatives) involved in the Network.**

Institute of Geography

National Autonomous University of Mexico (UNAM)

Mexico City, Mexico

CENACID, UFPR

Centre for Scientific Support in Disasters

Parana Federal University, Brazil

GRUDEC AYAR  
Cusco, Peru

Universidad Politécnica de Ingeniería, UPI,  
Tegucigalpa, Honduras

#### **4. Objectives for the initial 3 years: (5 lines maximum; what you expect to accomplish?)**

- a. Setting up a database of experts of landslides in the region.
- b. Identifying the areas of landslide expertise of the participants.
- c. Establishing a programme of necessities and priorities to be addressed.
- d. Organizing a summer/winter school of landslides for young students/researchers, and landslide workshops.
- e. Strengthening activities associated to landslide capacity building within Universities and governmental institutions.
- f. To facilitate scientific support during and after landslide disasters.

#### **5. Background Justification: (10 lines maximum)**

Landslides disasters in Latin America have increased during the last decades. Examples include the consequences of hurricane Mitch which were devastating in Central America, and particularly Honduras, a country that has been considered by the United Nations as the third most vulnerable world-wide.

In almost all the Latin American region, landslide disasters are increasing as result of unsustainable development policies. Most of the cities do not have risk maps and also there is a lack of expertise in many areas to assess and to evaluate mass movement potential zones. There is a clear need to share capacity and experiences to improve the Latin America programmes for landslide disasters reduction.

#### **6. Resources available for Network activities**

Personnel, Facilities, Budgets, and Contribution to ICL/IPL

##### **1. Mexico**

10 landslide experts

Auditorium – videoconference facility - capacity 100 people

Conference room – videoconference facility - capacity 30 people

2 computing rooms – capacity 30 people each (they can be used as a single one for 60 people)

Meeting rooms for 10-20 people

Vehicles for fieldwork

Economical full support to publish a book on Latin American landslides (in Spanish) published by UNAM.

Local organization of landslide events (logistics)

Availability of a computer server to setup a webpage

Financial support for two experts per year to travel to Mexico to give a conference or participate as teachers in the Landslides summer/winter school or the workshops

Seeking support from the Mexican Academy of Sciences (and other institutions) for the organization of landslides related events

## **2. Brazil**

10 landslides experts with experience in landslide disaster assessment and response  
CENACID group includes more 9 associated universities in Brazil and few others in other countries. Therefore, more scientists that can be involved

Availability of RRLA (Relative Rapid Landslides Analysis); a methodology to assess rapid response for landslide risk

Availability of "VICON-desastres"; a Geographic Information System (by cooperation agreement)

Facilities to meetings, workshops and congresses (meeting rooms, computers, etc)

Vehicles to undertake field activities

Economical support to publish scientific documents (proceedings, books, etc.)

Possibility to have a Coordinator for the publications resulting from the network (Portuguese, Spanish and English)

Possibility to organize-coordinate a field scientific seminar in Brazil discussing the last disasters involving landslides

Possibility to organize a small workshop on regular and rapid risk assessment

## **3. Perú**

Four landslides experts

One vehicle for fieldwork

A preliminary historical database on landslides of Southeastern Peru

A Landslide handbook (in preparation)

Logistic capacity to organize scientific events

## **4. Honduras**

One Auditorium – videoconference facility - capacity 200 people

One Conference room – videoconference facility - capacity 12 people

One Computing rooms – capacity 25 people

Two Vehicles for fieldwork

Economical support for publications

Local organizations of landslide events (logistics)

Availability of a computer server to setup a webpage

Seeking support from the Japanese International Cooperation Agency and other organizations of landslides related events

## **7. Description of past activities related to proposed network (30 lines maximum).**

Several publications on landslides have been developed by Mexican experts. The Institute of Geography (UNAM) has been collaborating for almost 10 years with the National Centre for Disaster Prevention to undertake landslide investigations. Recent efforts include the instrumentation and monitoring of two hillslope sites in the state of Puebla. Additionally, landslide evaluations and vulnerability and risk assessments have been carried out for different sites. Landslide courses at national and international level (mostly in Central America) have also been offered after disasters or particular events.

Brasil-CENACID group is working in the development of knowledge, strategies, methodologies and capacity to be useful to prevent and respond to disasters. Some papers and few books have been published, in addition to the organization of seminars and field. The CENACID team has been supporting the response of almost all the most significant landslides disasters in Brazil, in South America, Central America and Caribbean region. CENACID received from the United Nations (OCHA-UNEP-Green Cross) the GREEN STAR AWARD for excellence in the theme of response to disasters. Results have been published in scientific papers and books.

The work developed by the colleagues from Peru has included landslide investigations, risk assessment and monitoring in different susceptible zones. Papers and other kind of publications have been produced for various regions of Peru including world heritage sites such as Machupichu. International collaboration has also taken place and research has addressed issues like the establishment of landslide indicators, instrumentation and monitoring.

In the case of Honduras, there are no landslide experts and the efforts made in the field have been concentrated on seeking support from the Japan International Cooperation Agency (JICA), which has involved a conference offered by Dr. Hiromitsu Yamagishi, Professor of the Center for Disaster Management and Informatics (DMI), EHIME University, Japan.

## **8. Planned future activities /Expected Results: (20 lines maximum)**

1. Establishment of a webpage of the ILLAC
2. Publication of a book on Latin American Landslides (in Spanish)
3. Organization of landslides summer/winter school
4. Publication of regional investigations in scientific journals
5. Organization of a Latin American conference on Landslides
6. Organization of a workshop in risk assessment (50 people)
7. Organization of meetings
8. Scientific support during major landslide disasters in the Latin America region