

2. PRESENTATION MATERIALS OF WORKSHOP

ワークショップ発表資料

2.1. Background and Objectives of International Workshop 2008 (Tatsuo NARAFU)

ワークショップの趣旨 (榑府龍雄)



Background

Serious damages
by Pisco Earthquake
in August, 2007
in Peru



Background

Devastating damages by
Central Java Earthquake
in May, 2007 in Indonesia



- We need to share the lessons from two tragic seismic events
- Reconstruction should realize safer communities in order not to repeat same tragedies in future



New R&D in 2006 - 2008

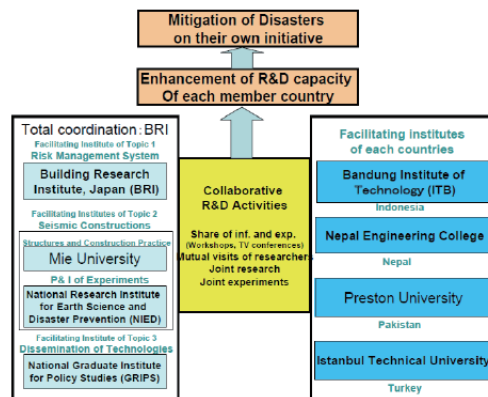
<Collaborative R&D Project for Disaster Mitigation on Network of Research Institutes in Asia>

- **Term of R&D**

three years
(2006-2008)

- **Funds**

- The Asia S&T Strategic Cooperation Promotion Program prepare by MEXT
- BRI budget



Research Topics of

Collaborative R&D Project for Disaster Mitigation on Network of Research Institutes in Asia

- R&D focuses on realization of mitigation of disasters
- To concentrate on conventional houses which is the main cause of human losses
- Three major topics
 - Feasible and Affordable Seismic Constructions
 - Strategies for Dissemination of Technologies to Communities
 - Risk Management System

Seven components (R&D Activities Programs)

- **Topic 1 Risk Management System**
 - Component 1-1:**
Contrivance for Seismic Risk Recognition by Communities
 - Component 1-2:**
Compilation of Available Information/Data on Seismic Risks
- **Topic 2 Feasible and Affordable Seismic Constructions**
 - Component 2-1:**
Study on Feasible and Affordable Seismic Constructions through Full Scale Shaking Table Experiments
 - Component 2-2:**
Bridge between Engineering and Construction Works
 - Component 2-3:**
Development of Simple and Affordable Seismic Isolation
- **Topic 3 Strategies for Dissemination of Technologies to Communities**
 - Component 3-1:**
Comprehensive Study on Strategies for Dissemination of Technologies to Communities
 - Component 3-2:**
Compilation of Manuals/Guidelines/Leaflets for Safer Housing

Topic 2: Risk Feasible and Affordable Seismic Constructions

Component 2-2:

Bridge between Engineering and Construction Works

- To grasp construction practices of non-engineered houses by monitoring construction works on site
- To elaborating recommendations which could be accepted and adopted by local workers



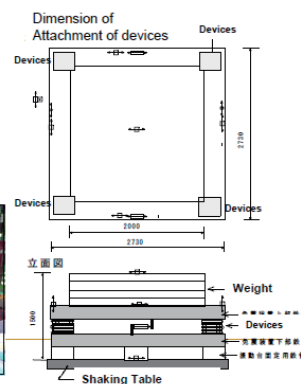
Topic 2: Risk Feasible and Affordable Seismic Constructions

Component 2-3:

Development of Simple and Affordable Seismic Isolation

- **Research Topics**
 - development of low cost isolation devices
 - low cost rigid base
 - simple construction procedures
- **Activities**
 - Study on devices and rigid base
 - Workshops for dissemination
 - Pilot project

Shaking Table in Building Research Institute (BRI) in Tsukuba used for the experiments



International Workshop 2008 on
Safer Housing in Indonesia and Peru

<Lessons from Seismic Events in 2006 and 2007, and construction from Them>

■ Venues

- Japan

Building Research Institute (BRI) in Tsukuba
JICA Head quarter Office in Tokyo

- Indonesia

Gadja Mada University (UGM) in Yogyakarta
JICA Indonesia Office in Jakarta

- Peru

JICA Peru Office

■ Coordination of Video conference system

The World Bank Tokyo Development Learning Center
(TDLC)

International Workshop 2008 on
Safer Housing in Indonesia and Peru

<Lessons from Seismic Events in 2006 and 2007, and construction from Them>

■ Contents

- Reports on two seismic events and reconstruction
projects in Indonesia and Peru

- Reports of monitoring activities of construction practices
of confined masonry structures in Indonesia an Peru

- Introduction of studies for safer constructions

Experimental study by Dr. Iman from Gadja Mada Univ.
Proposal of simple and affordable safer CM by BRI and
partners

Proposal of strengthening masonry structures using
scrap tire by Dr. Ahmet Turer

- Brief introduction of activities by JICA and BRI for safer
structure

