

2.16. Activity Program of R&D for Safer Housing including Full Scale Experiment and Shaking Table Experiment (Tatsuo NARAFU)

「地震防災に関するネットワーク型共同研究」の活動の概要と計画 (檜府龍雄)

Activities for Next Step
<Activity Program of R&D for Safer Housing>

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Building Research Institute (BRI), Tsukuba, Japan

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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

- **Cyclic loading experiment of confined masonry walls reinforced by proposed methods by BRI and others**
- **Pilot construction of full scale model houses by proposed method to verify feasibility of construction works**
- **Pull down experiments of full scale model houses to verify seismic performance of the model houses**

Topic 2: Risk Feasible and Affordable Seismic Constructions

Component 2-3:

Development of Simple and Affordable Seismic Isolation

- **Additional/supplemental experiment of isolation devices in BRI**
- **Studies on low cost rigid base construction**
- **Proposal of pilot project to construct model houses/buildings with seismic isolation in developing countries to disseminate seismic isolation technologies by workshops and others ways**

Topic 2: Risk Feasible and Affordable Seismic Constructions

Component 2-1:

Study on Feasible and Affordable Seismic Constructions through Full Scale Shaking Table Experiments

- **Full Scale Shaking Table Experiments on December 27, 2007 at NIED in Tsukuba (non reinforced Pakistan brick house model)**



- **Full scale shaking table experiment on several types of confined masonry structures managed by Dr. Hanazato and Dr. Minowa**

We expect your continuous participation and contribution

