

Workshop on Natural Disasters

9:00-12:30 May 29

Room 32

Earthquake and Tsunami Damage Survey in Indonesia and
Recommendation for the Reconstruction (Iemura and Pradono)

Earthquakes: What needs to be done in Asia (Harsh Gupta)

Building A Resilient Society: Transferring Sciences to Society
(Hery Harjono and Irina Rafliana)

Policy and Planning Response for Tsunami Hazard in Malaysia
(Jamaluddin, Komoo et al.)

Policy Recommendation for SCA on Natural Hazard Reduction (Satake)

Schedule for the Report

- ✓ More specific than the previous recommendations
- ✓ Focus on Earthquakes and Tsunamis
- ✓ Based on International Collaboration made after the 2004 Sumatra-Andaman earthquake, but consider more recent events such as the 2008 Wenchuan earthquake
- ✓ Reports to be adopted at the next SCA (Singapore 2009)

Action plans for Earthquake Hazard Reduction in Asia

1. Establish Monitoring System for (Harjono)
for Early detection, Tsunami warning and Damage Estimations
2. Hazard and Risk Assessments (Gupta)
for Damage Scenario, Planning, Mitigation and Insurance
3. Seismic Structural Design and Retrofit (Iemura)
Design, including long-period motion
Implementation and Enforcement
Retrofitting existing buildings (incentive)
4. Preparedness (Jamaluddin)
Education and Drills, Scientific education
Roles and Discussion among community, NGO and governments
5. Basic Research (Satake)
Paleoseismology for long-term recurrence, Short-term prediction
Multidisciplinary and interdisciplinary
6. International information exchange and collaboration (Satake)

Prof. Iemura

- ✓ International Global Hazard Monitoring System
- ✓ Calculation and Plotting of Hazard Maps
- ✓ Calculation and Plotting of Risk Maps
- ✓ Acceptable Performance-Based Design Approach

Prof. Gupta

- ✓ Seismic and GPS Monitoring System
- ✓ Loss scenarios and building codes
- ✓ Continue GSHAP
- ✓ Retrofit houses
- ✓ Earthquake Drills
- ✓ Reservoir triggered earthquakes
- ✓ Tsunami forecast
- ✓ Cyclone warning and evacuation system was successful

Hery Harjono

- ✓ Increase research activity
- ✓ Transfer scientific knowledge to policy makers
- ✓ Public education and community preparedness
- ✓ Appeal private sector for sharing their resource
- ✓ International collaboration

Tajur Anuar Jamaluddin

- ✓ Improve knowledge on geohazards
- ✓ Enhance awareness and capacity
- ✓ Coordination at various levels
- ✓ Preparedness

Kenji Satake

- ✓ Promotion of basic science
- ✓ Interdisciplinary collaboration
- ✓ International collaboration

- ✓ Interaction between scientists and policy makers
- ✓ Outreach activity to public about scientific knowledge