



**The Abdus Salam  
International Centre for Theoretical Physics**



**2142**

**Advanced Conference on Seismic Risk Mitigation and Sustainable  
Development**

*10 - 14 May 2010*

**Panel Discussions**



Ministero dell'Ambiente  
e della Tutela del Territorio



## ***Panel Discussions:***

- 1. PSHA and DSHA:** limits and perspectives;
- 2. Toward Validation of SHA:** lessons learnt from recent earthquakes;
- 3. ISDR-GTFBC; Risk and Hazard Estimates:** what the engineers need for effective risk estimates? What the stakeholders need for effective planning and decision making? Lessons from Haiti, Chile and other recent earthquakes.



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## Panel Discussion 1

### PSHA and DSHA: Limitations and perspectives

- PSHA limitations;
- DSHA limitations;
- Alternative methods for SHA;
- Relevance of the advanced science to SHA;
- Physically based approach...

*Panelists: Kojiro Irikura (Japan), Arthur Lerner-Lam (USA), Koji Uenishi (Japan), Jens Uve Klügel (Switzerland - rapporteur)*



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## Panel Discussion 2

### Toward Validation of SHA:

- Any model should be verifiable and validated;
- Cross-checking with independent physical models and/or observations;
- Lessons learnt from recent earthquakes;
- Relevant data and access to these data: catalogues, ground motion data, intensities...

*Panelists: Arthur Lerner-Lam (USA), Vladimir Kossobokov (Russia), Zhenming Wang (USA), Zhonliang Wu (China - rapporteur)*



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## Panel Discussion 3 (ISDR-GTFBC)

### Hazard and Risk :

- General concepts and roles in policy making;
- Earth scientists - Engineers - Stakeholders interaction targeted on effective planning and decision making;
- What kind of decisions should be made by whom?
- What do the stakeholders need for effective planning and decision making?
- Affordable costs of risk assessments and implementation;
- Earthquake lesson: Haiti, Chile and other recent earthquakes...

*Panelists: Takashi Imamura (France), Rodolfo Saragoni (Chile), Alessandro Martelli (Italy), Efraim Laor (Israel -rapporteur)*