

**An international workshop on school earthquake safety organised by:**

*Ministry of National Education, Republic of Turkey and  
Economic Co-operation Organisation (ECO)*

*With the support of the  
OECD Programme on Educational Building (PEB) and  
GeoHazards International (GHI)*

**Polat Renaissance Istanbul Hotel ([www.polatrenaissance.com](http://www.polatrenaissance.com)), Istanbul, 1-2 June 2006**

## **Workshop programme**

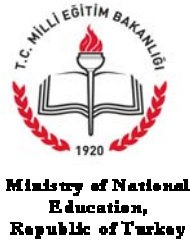
Thursday 1 June 2006

- 9.00 – 9.50      **Welcome**  
**Abdussamet Arslan**, Head, Department for Educational Facilities, Ministry of National Education, Turkey  
**Muzaffer Alacaogullari**, Director of Human Resources and Sustainable Development, ECO Secretariat
- 9.50 – 10.05    **Workshop objectives and programme**  
**Richard Yelland**, OECD Programme on Educational Buildings
- 10.05 – 10.15   **Opening of the workshop**  
**HE Hüseyin Çelik**, Minister of Education, Turkey
- 10.15 – 10.45   Self-introductions by workshop members
- 10.45 – 11.00   *Coffee break*

### **Theme 1. Identifying the problem: Assessing the vulnerability and risks to schools**

- Performance of school buildings in past earthquakes
- Earthquake vulnerability of school buildings
- Norms for risk assessment and quantification of hazard

*Panel: Richard Yelland* (Chair), **Abdussamet Arslan**, Turkey, **Mohsen Ghafory-Ashtiany**, Iran, and **Abid Shaban**, Pakistan



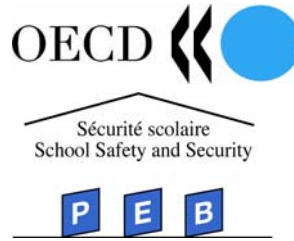
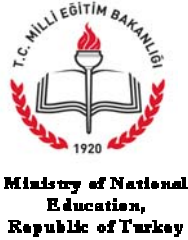
- 11.00 – 12.00 - Self-introductions by Panel: Reflections on past experience and existing knowledge:
- Performance of school buildings in Turkey in past earthquakes (*Arslan*).
  - Performance of school buildings in Iran in past earthquakes (*Ashtiany*).
  - Performance of school buildings in Pakistan in past earthquakes (*Shaban*).
- Isolation of focus question(s) for the group by Chair  
*e.g. How have school buildings performed in past earthquakes?*
- 12.00 – 13.00 Group discussion
- 13.00 – 14.30 **Lunch**
- 14.30 – 15.00 Summary by Chair: How *are* countries identifying the problem?

## **Theme 2. Addressing the problem: Improving school earthquake safety**

- Preparedness and emergency response planning
- Strengthening existing buildings to resist earthquakes
- Safety standards and construction codes for building schools
- Trainings and qualifications
- Risk reduction in new facilities

*Panel:* **Brian Tucker** (Chair), **Mauro Dolce**, Italy, **Nuray Aydınoğlu**, Turkey, **Haluk Sucuoğlu**, Turkey, and **Jozef Kubin**, Turkey

- 15.00 – 16.30 - Self-introductions by Panel: Reflections on past experience and existing knowledge:
- Towards seismic safety in Italian schools (*Dolce*).
  - Seismic Risk Mitigation Practices in Istanbul School Buildings (*Aydinoğlu*).
  - Safe Schools Campaign after the 2002 Bingöl Earthquake in Turkey (*Sucuoğlu*).
  - Retrofitting Implementations in School Buildings following the Safe Schools Campaign (*Kubin*).
- Isolation of focus question(s) for the group by Chair  
*e.g. What challenges do countries face in terms of implementing these measures to improve earthquake safety in schools?*
- 16.30 – 17.00 *Coffee break*



- 17.00 – 18.30 Group discussion
- 18.30 – 19.00 Summary by Chair: How *are* countries addressing the problem?
- 20.00 – *Dinner*

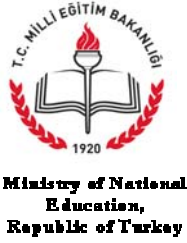
Friday 2 June 2006

### **Theme 3. The way forward: Developing strategies and programmes for school earthquake safety**

- School earthquake safety programmes in developing countries
- Conducting a review of the school earthquake safety programmes of participating countries
- Recommendations on how to establish and implement programmes
- The next step for ECO countries.

*Panel: Abdussamet Arslan* (Chair), *A. Mete Işıkara*, Turkey, *Brian Tucker*, GHI, *Richard Yelland*, OECD, *Murat Balamir*, Turkey, and *Ferda Gülbitti*, Turkey.

- 9.00 - 10.30 - Self-introductions by Panel: Reflections on past experience and existing knowledge:
- Earthquake Education (*Işıkara*).
  - OECD/GHI Experts' Group Meeting on Earthquake Safety in Schools, February 2004, and its recommendations (*Tucker*).
  - OECD Recommendations Concerning Guidelines on Earthquake Safety in Schools (*Yelland*).
  - Safety for Schools: Planners Concerns (*Balamir*).
  - Psycho-Social Impact of Disasters on the School Community (*Gülbitti*).
- Isolation of focus question(s) for the group by Chair  
*e.g. What is the relevance of this work to ECO countries and what are the next possible steps?*
- 10.30 – 10.45 *Coffee break*
- 10.45 – 12.00 Group discussion
- 12.30 – 14.00 *Lunch*

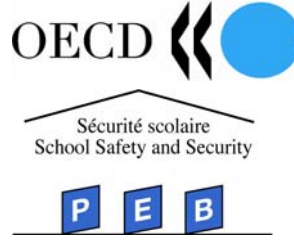
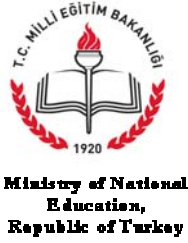


#### **Theme 4. Seismicity of the region and strengthening educational facilities**

*Panel: Haluk Eyidođan, Turkey and Zekai Celep, Turkey*

14.00 – 15.30 Self-introductions by Panel: Reflections on past experience and existing knowledge

15.30 – *Site visits*



## Experts' biographical summaries

*Abdussamet Arslan is head of the Department for Educational Facilities at the Ministry of National Education.*

*Nuray Aydinoglu is a professor of earthquake engineering at Kandilli Observatory and Earthquake Research Institute at Bogazici University Istanbul. He is Chair of the National Earthquake Council of Turkey.*

*Murat Balamir is a professor at the Department of City and Regional Planning in the faculty of Architecture, Middle East Technical University. He is also a member of the National Earthquake Council of Turkey.*

*Zekai Celep is professor of reinforced concrete structures, earthquake resistant design, repair and strengthening of structures, structural dynamics at Department of Civil Engineering, İstanbul Technical University. He is a member of the Turkish National Committee for Earthquake Engineering, Chamber of Turkey and Turkish National Committee for Theoretical and Applied Mechanics.*

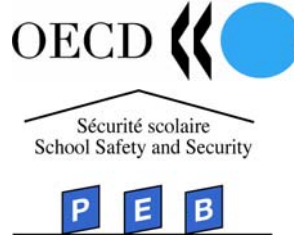
*Mauro Dolce is professor of earthquake engineering at the University of Basilicata, Italy. He is a leading Italian expert on the earthquake resistance of schools and the public policy changes that resulted from the collapse of the San Giuliano school on 31 October 2002.*

*Haluk Eyidoğan is a professor of seismology at Department of Geophysical Engineering at the İstanbul Technical University (ITU). He is Chair of the National Earthquake Council of Turkey.*

*Ferda Gülbitti is a psychologist who is working in the Psychosocial Support Unit, Disaster Operation Centre at the Turkish Red Crescent Society. She is an expert on pre- and post-disaster psychosocial intervention and capacity improvement.*

*Mohsen Ghafory-Ashtiany is president of the International Institute of Earthquake Engineering and Seismology, an independent research institute created in 1989 and based in Tehran. Its goal is to reduce and mitigate seismic risk in Iran and the region.*

*Ahmet Mete Işıkara is a professor of geophysics and former head of the Kandilli Observatory and Earthquake Research Institute at Bogazici University (1991-2002). He is Chair of the Disaster Providence and Earthquake Education Association, is currently head Councilor of the President of the Turkish Red Crescent Society.*



**Jowef Kubin** is a civil engineer who has provided consulting and engineering services to a number of public and private institutions for over 20 years, including the Central Bank of Turkey, Ministry of Financial Affairs, Ministry of National Education Gazi University and Türk Telekom.

**Haluk Sucuođlu** is professor of Civil Engineering at Middle East Technical University. He is the chairman of Turkish Seismic Code Committee and consultant to the Istanbul Metropolitan Municipality for seismic risk mitigation in Istanbul.

**Abid Shaban** is president of Shaban & Co. He is actively involved in improving earthquake safety of Pakistan.

**Brian Tucker** is president of GeoHazards International, a nonprofit organisation whose mission is to reduce death and suffering due to natural disasters, particularly earthquakes, in the world's most vulnerable communities, through advocacy, mitigation, prevention and preparedness.

**Richard Yelland** is head of the Programme on Educational Building (PEB) at the Organisation for Economic Co-operation and Development (OECD). Through its numerous publications and events, PEB informs on how to adapt to emerging technologies, how to obtain maximum educational benefit from investment in facilities, and how to efficiently plan and manage educational infrastructure.