

**Seismic Risk Assessment and Mitigation in the Antakya-Maraş Region  
on the  
Basis of Microzonation, Vulnerability and Preparedness Studies  
(SERAMAR)**

**Joint Research Program Supported by  
Scientific and Technological Research Council of Turkey (TUBİTAK)  
and  
Deutsche Forschungsgemeinschaft (DFG)**

**Executed by  
Mustafa Kemal University (MKU), Hatay  
Middle East Technical University (METU), Ankara  
Bauhaus Universitaet, Weimar**

**Program of the Closing Workshop  
September 30-October 2, 2010  
Antakya, Hatay**

**30.09.2010 Thursday**

08.00-09.00 Registration

09.00 Opening Session

1. 09.00-09.10 Address by Prof. Dr. Polat Gülkan (Project Partner)
2. 09.10-09.20 Address by Cihat Mazmanoğlu (Chairman, Chamber of Civil Engineers, Antakya Branch)
3. 09.20-09.30 Address by Prof. Dr. Şerefettin Canda (Rector of MKU)
4. 09.30-09.40 Assoc. Dr. Lütfi Savaş ()
5. 09.40-09.50 Address by Celalettin Lekesiz (Governor of Hatay)

09.50-10.30 Coffee Break

Session 1 (Chairman: Pierre-Yves Bard)

6. 10.30-11.00 **Prof. Dr. M. Nafi Toksöz:** New GPS measurements, plate motions and seismicity of Hatay
7. 11.00-11.30 **Prof. Dr. Polat Gülkan:** Overview of the SERAMAR project, and the expected outcomes of the studies
8. 11.30-12.00 **Prof. Dr. Jochen Schwarz:** Building typologies for empirical and analytical risk assessment – case study Antakya

9. 12.00-12.30 **Dr. M. Cemal GENEŞ:** Seramar projesi'nin başlangıcından bu güne kadarki safhaları ve elde edilen veriler  
12.30-14.00 Lunch

Session 2 (Chairman: Jochen Schwarz)

10. 14.00-14.30 **Prof. Dr. Pierre-Yves Bard:** Seismic microzonation techniques: present possibilities and recommendations for an optimal impact on risk mitigation  
11. 14:30-15:00 **Prof. Dr. Mehmet Celebi:** The M8.8 Chile earthquake of February 27, 2010: Performance of engineered structures and implications for earthquake engineering  
12. 15:00-15:30 **Prof. Dr. Erdal Safak:** Development of analytical Models from vibration records of multi-story buildings

15.30-18.00 excursion to selected instrumented buildings (optional)

01.10.2010 Friday

Session 3 (Chairman: Mehmet Çelebi)

13. 09.00-09.20 **Prof. Dr. Semir Över:** Antakya'nın depremselliği, tektonik yapısı, jeolojisi ve zemin hakim titreşim periyot haritasının değerlendirilmesi  
14. 09.20-09.40 **Lars Abrahamczyk:** Basics for reliable damage prognosis - requirements and solutions for Antakya  
15. 09.40 -10.00 **Prof. Dr. Ahmet Yakut:** Ülkemizdeki betonarme binaların deprem performansını etkileyen genel özellikler  
16. 10.00-10.20 **Dr. Ing. Dominik Lang:** Earthquake Risk and Loss Assessment - From data collection to preventive action

10.20-10.50 Coffee Break

Session 4 (Chairman: Dominik Lang)

17. 10.50-11.10 **Prof. Dr. Oğuz Özel:** S-wave velocity structure of the Antakya Basin  
18. 11.10-11.30 **Prof. Dr. Eser Çaktı:** Surface geology of the Antakya urban region  
19. 11.30-11.50 **Dr. Aysegul Askan-Gündoğdu:** Estimation of seismic damage in the Antakya region due to background seismic activity

11.50-13.30 Lunch

Session 5 (Chairman: Murat Bikçe)

20. 13.30-13.50 **Prof. Dr. Uğurhan Akyuz:** Forced vibration tests and their interpretation

21. **13.50-14.10 Dr. Selçuk Kaçın:** Forced vibration studies on school buildings in Antakya and the expected results from the analysis of the experimental data
22. **14.10-14.30 Alper Kırıkkaya:** Basic studies for building type and code development - as one of many contributions to the SERAMAR project
23. **14.30-14.50 Dr. M.Cemal Geneş:** Ambient vibration tests and their interpretation

14:50-15:10 Coffee Break

Session 6 (Chairman: Polat Gülkan)

24. **15.10- 16.30:** Summary and outlook of the Workshop

## **02.10.2010 Saturday**

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| <b>08:30 - 09:45</b> | Visit to the Antakya Archeological Museum                                    |
| <b>10:00 - 10:45</b> | Visit to historic St. Peter Church   |
| <b>11:00 - 12:30</b> | Visit to historic Habib-i Neccar Mosque and City Tour around Kurtuluş Street |
| <b>12:30 - 13:30</b> | <b>Lunch</b>   |
| <b>13:45 - 17:00</b> | Departure for visit to the Titus Vespasianus Tunnel                          |
| <b>19:00 - 23:00</b> | Dinner   |