



United Nations
Educational, Scientific and
Cultural Organization

Organisation
des Nations Unies
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la science et la culture

Organización
de las Naciones Unidas
para la Educación,
la Ciencia y la Cultura

Организация
Объединенных Наций по
вопросам образования,
науки и культуры

منظمة الأمم المتحدة
للتربية والعلم والثقافة

联合国教育、
科学及文化组织



MIDDLE EAST
TECHNICAL
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UNESCO-RELEMR

Workshop on Seismicity and Earthquake Engineering in the Extended Mediterranean

Ankara Plaza Hotel

21 - 24 June 2010

Logistic Information

Workshop on Seismicity and Earthquake Engineering in the Extended Mediterranean

The workshop on Seismicity and Earthquake Engineering in the Extended Mediterranean Region was hosted by the Middle East University at the Ankara Hotel Plaza, and sponsored by the United Nations Educational, Scientific and Cultural Organization (UNESCO) and the U.S. Geological Survey (USGS).

70 senior scientists from 26 countries and the Palestinian Authority, in the extended Mediterranean region participated in the workshop that was held from 21 to 24 June 2010 at the Hotel Plaza, Ankara, Turkey.

UNESCO and the USGS have been working with the Council of Europe, government agencies, and other organizations on a program for Reducing Earthquake Losses in the Extended Mediterranean Region (RELEMR). Twenty-nine RELEMR meetings have been held since the first meeting in Cairo in 1993 and during the last seven years workshops have been hosted by the Jordan Natural Resources Authority and Royal Scientific Society, the Kandilli Observatory and Earthquake Research Institute and the Middle East Technical University in Turkey, the Cyprus Geological Survey Department, the Institute of Earth Sciences 'Jaume Almera' in Spain, and the Technical University of Crete, Greece.

At these meetings, participants discussed regional approaches to improve seismic data (e.g., more accurate locations and improved magnitude estimates), probabilistic seismic hazard assessment (PSHA), engineering issues (e.g., reasons for building failures), and the production of a RELEMR seismicity map has also been discussed. Participants produced a ground shaking map of the Dead Sea region and training courses in PSHA, HAZUS, David Boore's Ground Shaking and other software have been given.

The last workshop featured special sessions on the Technical Methodology and Applications of the HAZUS-MH Earthquake Loss Estimation Model, the Protection of Historical Sites in the Extended Mediterranean Region and Open Source Software. Sessions for General Presentations in seismology, geology and earthquake engineering were also part on the agenda of this workshop.

This new workshop will feature a special "hands on" session on the Technical Methodology and Applications of the HAZUS-MH Earthquake Loss Estimation Model. This session will be held in the Laboratory of the Department of Civil Engineering of the Middle East Technical University (METU). Sessions for General Presentations in seismology, geology and earthquake engineering are also part on the agenda.

As it was foreseen, this workshop contributed to the improvement of knowledge focalized in the reduction of earthquake losses; and was an opportunity to contribute to the health and safety of the millions of people on the extended Mediterranean region.

Agenda

UNESCO-RELEMR workshop on Seismicity and Earthquake Engineering in the Extended Mediterranean Region 21-24 June 2010

Sunday, June 20th 2010

	6:00-24:00	Participants arrive in Ankara
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Monday, June 21th 2010

	9:00-9:30	Registration
SESSION I	9:30-10:30	Opening Ceremony, Chair: Dr. Mehmet Ersoy Prof. Dr. Polat Gülkan , METU Dr. Mehmet Ersoy , Head of the Turkish Disaster and Emergency Management Authority Dr. Michael Foose , USGS Dr. Frederick Simon , UNESCO
	10:30-11:00	Coffee/tea break
	11:00-11:15	Logistical announcements
	11:15-13:00	Keynote Presentations: Chair: Dr. Michael Foose Dr. Ahmet C. Yalçiner <i>Professor of Civil Engineering, Middle East Technical University</i> <i>"An Overview of Marine Hazards in the Extended Mediterranean Region"</i> Dr. Önder Çetin <i>Professor of Civil Engineering, Middle East Technical University</i> <i>"Liquefaction-Induced Hazard and Its Effects on Structural Damage"</i>
	13:00-14:30	Lunch

SESSION II	14:30-16:00	<p>Contributed Papers:</p> <ul style="list-style-type: none"> • M. Yilmazer and N. Türkelli: <i>A Model for a RELEMR Data Sharing Website—Introduction</i> • Rami Hofstetter: <i>Sayarim Infrasound Calibration Explosion</i>
	16:00-16:30	Coffee/tea break
	16:30-18:00	<p>Douglas Bausch, FEMA: Technical Methodology and Applications of the <i>HAZUS-MH Earthquake Loss Estimation Model</i></p> <p>The technical methodology that will be used in the “hands on” session will be reviewed for each major component of the earthquake model including ground motion, ground deformation, development of the buildings and infrastructure inventory, engineering fragility functions, analysis parameters, economic and social loss approach, as well as results and uncertainties. Instruction on modifying this information with local data, and how engineering parameters can be adjusted to represent the building stock characteristic of the extended Mediterranean region will be provided. The presentation will focus on a broad variety of applications including an emphasis on how participants can remove the USA-focused databases and insert databases more appropriate to their country.</p>

Tuesday, June 22th 2010

ALL-DAY HANDS ON SESSION	9:00-10:30	<p>Douglas Bausch, FEMA: <i>Technical Methodology and Applications of the HAZUS-MH Earthquake Loss Estimation Model – Part I</i></p>
	10:30-11:00	Coffee/tea break
	11:00-13:00	<p>Douglas Bausch, FEMA: <i>Technical Methodology and Applications of the HAZUS-MH Earthquake Loss Estimation Model – Part II</i></p>
	13:00-14:30	Lunch
	14:30-16:00	<p>Douglas Bausch, FEMA: <i>Technical Methodology and Applications of the HAZUS-MH Earthquake Loss Estimation Model – Part III</i></p>
	16:00-16:30	Coffee/tea break
	16:30-18:00	<p>Douglas Bausch, FEMA: <i>Technical Methodology and Applications of the HAZUS-MH Earthquake Loss Estimation Model – Part IV</i></p>

Wednesday, June 23th 2010

SESSION III	9:00-10:30	<p>Contributed Papers:</p> <ul style="list-style-type: none"> • Abdunnur Ben Suleman: <i>The April 19, 1935, M=7.1 "Al-Qaddahiya" earthquake sequence, what did we learn after 75 years</i> • Yelles A. K. , Beldjoudi H. , Haned A. , Djellit H. , Kherroubi A., Semmane F.: <i>Recent seismic events in northern Algeria (2000-2010)</i> • Nacer Jabour, Abdelilah Tahayt, Touria El Mrabet: <i>The Seismicity of Al Hoceima and Nador regions, Northern Morocco</i> • Chedly Ben M'hamed and Moncef Rajhi: <i>Upgraded seismic system in Tunisia</i>
	10:30-11:00	Coffee/tea break
SESSION IV	12:15-13:00	<p>Contributed Papers:</p> <ul style="list-style-type: none"> • Mohamed Hamdache: <i>Relations between different ground motion parameters for Northern Algeria</i> • Alexander Vella: <i>A Seismic Site Response Survey of the Maltese Islands</i> • Mohammad Al-Haddad: <i>National Plan for Seismic Evaluation and Rehabilitation of Existing Buildings in Saudi Arabia</i> • El Mouraouah, A. Iben Brahim, A. Birouk, M. Kasmi et H. S. El Mouraouah: <i>Seismic Risk Assessment and Attenuation in Morocco; Recent Developments</i>
	13:00-14:30	Lunch
SESSION V	14:30–16:00	<p>Contributed Papers:</p> <ul style="list-style-type: none"> • Ramy El-Khoury: <i>Earthquake Resistant Measures for Building Construction in the Middle East</i> • Tadili Benaissa: <i>New sismotectonic zoning of Northern Morocco</i> • Noorbakhsh Mirzaei: <i>Earthquake Storms in Central-East Iran</i> • Marleine Brax: <i>The Lebanese Seismic Network and the Activities of the Geophysical Research Centre</i>
	16:30-17:00	Coffee/tea break
SESSION VI	17:00–18:00	<p>Contributed Papers:</p> <ul style="list-style-type: none"> • Adel M.E. Mohamed and Abuo El-Ela A. Mohamed: <i>Quarry Blasts Assessment and Their Impacts on the Nearby Oil Pipelines, South East Helwan, Egypt</i> • Cuneyt Tuzun: <i>Earthquake Model for Middle East: A GEM Regional Project</i> • Karin Sesetyan: <i>Rapid shake-map and loss estimation capability by eler - earthquake loss estimation routine</i> • John Coyne: <i>"CTBTO in the Context of the Mediterranean Region."</i>

Thursday, June 24th 2010

SESSION VII	9:00-10:30	<p>Contributed Papers</p> <ul style="list-style-type: none"> • Mohsen Ashtiani: <i>Earthquake Insurance Risk Management</i> • Salah M. Mahmoud and Adel M. El-Shahat: <i>NRIAG's Role to Mitigate Earthquake Disasters in Egypt Using GPS and Seismic Data</i> • Ahmed Mebarki, Abderrahmane Laribi, Fattoum Kharchi, Djillali Benouar: <i>Postquake evaluation of structural damages: A probabilistic methodology</i>
	10:30-11:00	Coffee/tea break
SESSION VI	11:00-13:00	<p>Contributed Papers</p> <ul style="list-style-type: none"> • Meirova T., Pinsky V., Hofstetter R.: <i>Ambient Broad Band Seismic Noise Tomography across the Dead Sea Transform</i> • Shamil Habet: <i>Torsional behavior of base isolated asymmetric multi-story buildings</i> • Belazougui M., Boukri M.: <i>Damage Analysis and Behaviour of Beam-Column Reinforced Concrete Structures after the Boumerdes Earthquake of May 21st, 2003</i> • R. Abdel-Fattah, A. Al-Enezi, and F. Al-Jeri: <i>Kuwait National Seismic Network: capabilities and applications</i>
	13:00-14:30	Lunch
	14:30-16:00	<p>Contributed Papers</p> <ul style="list-style-type: none"> • Omar Amellal: <i>Determination of Seismic vulnerability index for steel structures</i> • M. Yilmazer and N. Türkelli: <i>A Model for a RELEMR Data Sharing Website—Part II</i>
	16:00-16:30	Coffee/tea break
	16:30-18:00	Closing session

Friday, June 25th 2010

6:00-24:00	Depart from Ankara
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List of Participants

	Participant	Organization	City	Country
1	Djillali Benouar	University of Bab Ezzouar	Algiers	Algeria
2	AbdelKrim Yelles	CRAAG	Algiers	Algeria
3	Mohamed Hamdache	CRAAG	Algiers	Algeria
4	Omar Amellal	CGS	Algiers	Algeria
5	Mehdi Boukri	CGS	Algiers	Algeria
6	Eleni Morisseau	GSD	Nicosia	Cyprus
7	Stelios Nicolaidis	GSD	Nicosia	Cyprus
8	Abuo El-Ela Amin Mohamed	NRIAG	Cairo	Egypt
9	Salah M. Mahmoud	NRIAG	Cairo	Egypt
10	El Sayed Mohammad Salem	EGSMA	Cairo	Egypt
11	Ahmed Mebarki	University Paris-Est Marne-la-Vallée	Marne la Vallée	France
12	Mohammad Reza Rezaee	IIEES	Tehran	Iran
13	Mohsen Ashtiany	IIEES	Tehran	Iran
14	Noorbakhsh Mirzaei	Tehran Univ.	Tehran	Iran
15	Avi Shapira	GII	Tel Aviv	Israel
16	Rami Hofstetter	GII	Tel Aviv	Israel
17	Veronic Avirav	GII	Tel Aviv	Israel
18	Gideon Leonard	IAEC	Tel Aviv	Israel
19	Hanan S. Al-Nimry	Jordan University for Science and Technology	Amman	Jordan
20	Sheml Farouq	RSS	Amman	Jordan
21	Reda Abdul Fatah	KISR	Kuwait	Kuwait
22	Rami El-Khoury	El-Khoury & Partners	Beirut	Lebanon
23	Fadi Geara	Ecole Superieure d'Ingenieurs de Beyrouth	Beirut	Lebanon
24	Marleine Brax	Centre de Recherches Géophysiques CRG	Beirut	Lebanon
25	Abdunnur Ben Suleman	Seis. Obs. Office	Tripoli	Libya
26	Alexander Vella	Malta University	Malta	Malta
27	Aomar Iben Brahim	CNR	Rabat	Morocco
28	Nacer Jabour	CNR	Rabat	Morocco
29	El Mouraouah Azelarab	CNR	Rabat	Morocco
30	Ben Aissa Tadili	Department de Physique du Globe	Rabat	Morocco
31	Yousef Mohammed Al-Shijbi	SQU	Muscat	Oman
32	Issa El Hussain	SQU	Muscat	Oman
33	Hatem Alwahsh	Seis. Eng. Ctr.	Nablus	Pal. Auth.
34	Mutaz A. Al-Qutob	Al-Quds University	Jerusalem	Pal. Auth.
35	Osama .H. Omran	Seis. Eng. Ctr.	Nablus	Pal. Auth.
36	Mohammed S. Fnais	KSU	Riyadh	Saudi Arabia
37	Mohd. Al Haddad	KSU	Riyadh	Saudi Arabia
38	Hani Zahran	SGS	Jeddah	Saudi Arabia

	Participant	Organization	City	Country
39	Mansour K. Alotaibi	KACST	Riyadh	Saudi Arabia
40	Maria Jose Jimenez	MNCN	Madrid	Spain
41	Indira Abdel Rahman Mohamed	Geological Research Authority, Sudan Seismic Network (SSN)	Khartoum	Sudan
42	Abdulmutaleb Alchalbi	NEC	Damascus	Syria
43	Ryad Darawcheh	AEC	Damascus	Syria
44	Moncef Rajhi	INMT	Tunis	Tunisia
45	Ben Mhamed Chedly	INMT	Tunis	Tunisia
46	Mustafa Erdik	KOERI	Istanbul	Turkey
47	Niyazi Turkelli	KOERI	Istanbul	Turkey
48	Mehmet Yilmazer	KOERI	Istanbul	Turkey
49	Cuneyt Tuzun	KOERI	Istanbul	Turkey
50	Karin Sesetyan	KOERI	Istanbul	Turkey
51	Polat Gulkan	METU	Ankara	Turkey
52	Ramazan Demirtas	GDDA/ERD	Ankara	Turkey
53	Burcak Basbug	METU	Ankara	Turkey
54	Ahmet C. Yalçiner	METU	Ankara	Turkey
55	Önder Çetin	METU	Ankara	Turkey
56	John Coyne	CTBTO	Vienna	Austria
57	Rengin GOK	LLNL	Livermore, CA	USA
58	Keith Nakanishi	LLNL	Livermore, CA	USA
59	Mike Foose	USGS	Reston, VA	USA
60	Douglas Bausch	FEMA Region VIII, Denver Federal Center	Denver	USA
61	Frederick Simon	USGS	Washington, DC	USA
62	Abdullah Al-Mandoos	National Center for Meteorology and Seismology	Abu Dhabi	UAE
63	Ismail Al Ganad	Geological Survey	Sanaa	Yemen
64	Jamal M. Sholan	Seis. Obs. Ctr.	Sanaa	Yemen
65	Jair Torres	UNESCO	Paris	France



General information about Turkey

Official language: Turkish

Currency and exchange rate: Turkish Lira (TL).

1 EURO = approximately 2.18 TL

US\$1 = approximately 1.56 TL

You can change money from airport, hotel, currency exchange offices and the banks. The exchange rates in the banks are mostly higher, so it is better to change money from exchange offices.

The hotel uses the exchange rate from Central Bank of Turkish Republic and adds approximately 2% to this rate.

For central bank of Turkish Republic daily exchange rates check:

<http://www.tcmb.gov.tr/kurlar/kur2009.html>

In order to pay for transportation to the hotel from the airport, it may be better to change some amount of money at the airport exchange office.

Time zone: GMT + 2 hours in the entire country (seven hours ahead of U.S. Eastern Standard Time).

Electricity: 220 volts AC throughout Turkey

Weights and Measures: Metric system



Arriving in Ankara

Esenboğa International Airport



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USGS
science for a changing world

**UNESCO-RELEMR
Workshop**

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Airport Transfer

You will be provided with transfer transportation from the airport to the Hotel (and *vice versa*). After have claimed your luggage you should find the exit. There, a driver from the 'Esenboga Airport Service' company will be waiting for you in order to bring you to the Ankara Plaza Hotel.

Contact Person: **Mr. Mehmet Alktunbas**
Mobile: +90 507 216 6154



About the Airport

Esenboğa International Airport (IATA: ESB, ICAO: LTAC), is an airport located 28 km (17 mi) northeast of Ankara, the capital city of Turkey. It has been operating since 1955. The name of the airport comes from the village of Esenboğa (the g is silent), which literally means "healthy bull".

Map of the Airport

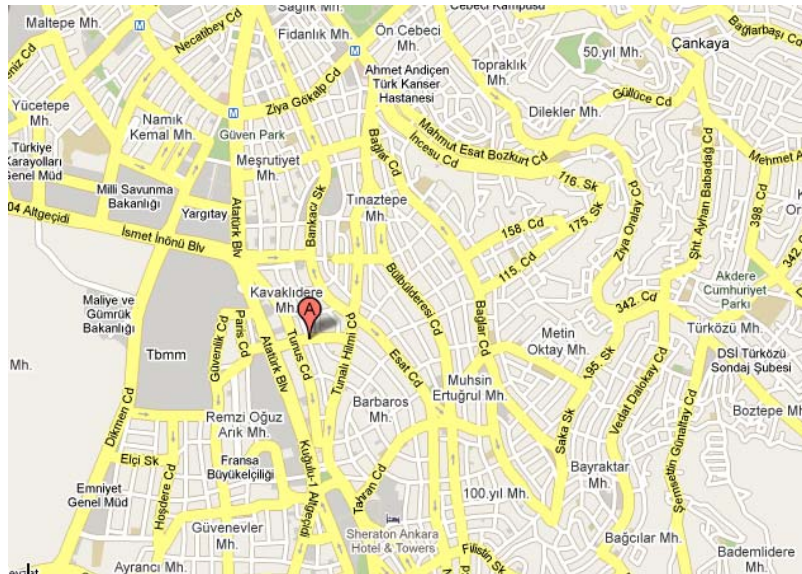


Ankara Plaza Hotel

The workshop on Seismicity and Earthquake Engineering in the Extended Mediterranean Region will be held in the Ankara Plaza Hotel. Ankara Plaza Hotel is a 92 modern and comfortable decorated rooms hotel which provides 5 banquet & meeting rooms with all technical equipments. Centrally located, this hotel is much closed to the business centers, ministries and several embassies.

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Contact Persons: **Aslihan Altinyay**
Halime Taşan



Middle East Technical University

The workshop will feature a special “hands on” session on the Technical Methodology and Applications of the HAZUS-MH Earthquake Loss Estimation Model. This session will be held in the Laboratory of the Department of Civil Engineering of the Middle East Technical University (METU). On Tuesday 22 June, a bus will bring you from the hotel to the venue (*and vice versa*). The bus will be leaving the hotel at 8:30 a.m. We would appreciate if you could be at the lobby around 8:20.

Contact Person: Polat Gülkan

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Cell: +90 533 430 9230;
Fax: +90 312 210 1193,
E-mail: a03516@metu.edu.tr;
pgulkan@ce.metu.edu.tr



Daily Subsistence Allowance

Hotel expenses will be directly paid by UNESCO and it includes buffet breakfast, coffee breaks, buffet lunch, and VAT. You will receive a Daily Subsistence Allowance (DSA) especially for your dinners. You will be responsible for any incidental expenses. In Ankara on Monday 21st June, we will provide you the DSA. If you have paid for a Turkish Visa, we would very much appreciate it if you can provide us with original receipts. A contribution for your visa fee will be offer upon submission of proves of payment.

Wishing you a safe journey to Ankara!!!

For any query please contact:

Donara Sydeeva

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