



United Nations  
Educational, Scientific and  
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Organisation  
des Nations Unies  
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la science et la culture

Organización  
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para la Educación,  
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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



Instituto Dom Luiz

FUNDAÇÃO  
LUSO-AMERICANA



# UNESCO-RELEMR Workshop on Seismicity and Earthquake Engineering in the Extended Mediterranean

## Luso-American Foundation

### 26 - 29 October 2009

## Logistic Information

# Workshop on Seismicity and Earthquake Engineering in the Extended Mediterranean

The workshop on Seismicity and Earthquake Engineering in the Extended Mediterranean Region will be hosted by the Instituto Dom Luiz and the Luso-American Foundation, and sponsored by the United Nations Educational, Scientific and Cultural Organization (UNESCO) and the U.S. Geological Survey (USGS).

Approximately 80 senior scientists from approximately 26 countries and the Palestinian Authority, in the extended Mediterranean region are invited to participate in the workshop that will be held 26 - 29 October 2009 at the Luso-American Foundation.

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-eight 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.

This workshop will feature 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 as well as sessions for General Presentations in seismology, geology and earthquake engineering.

This workshop will contribute to the reduction of earthquake losses and we have the 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 26-29 October 2009

### Sunday, October 25<sup>th</sup> 2009

	6:00-24:00	Participants arrive in Lisbon
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### Monday, October 26<sup>th</sup> 2009

	9:00-9:30	Registration
<b>SESSION I</b>	9:30-10:30	<b>Opening Ceremony: Chair: H.E Mr Fernando Andresen Guimarães</b> Dr. Jorge Miguel Alberto de Miranda, University of Lisbon Representatives of Portuguese Government's earthquake agencies Dr. Michael Foose, USGS Dr. Badaoui Rouhban, UNESCO Ambassador Fernando Andresen Guimarães, President of UNESCO's National Commission Dr. Rui Machete, President of the Executive Council of the Luso-American Foundation Eng. Vitor Vieira, Director of the City Hall Civil Protection Department
	10:30-11:00	Coffee/tea break
	11:00-11:15	Logistical announcements
	11:15-13:00	<b>Keynote Addresses: Chair: Jorge Miguel Miranda</b> - <b>Carlos Oliveira:</b> <i>The new generation of seismic simulators and applications in Portugal</i> - <b>M.J. Jimenez and M. Garcia-Fernandez:</b> <i>Assessing seismic hazard in the Iberian Peninsula: Few issues and some risk</i>
	13:00-14:30	Lunch

<b>SESSION II</b>	14:30-16:00	<p><b>Contributed Papers:</b></p> <ul style="list-style-type: none"> <li>- <b>Iman Amad:</b> <i>Protection of Historic Buildings against Seismic Hazards: The Case of Palestine</i></li> <li>- <b>Kadder Abu-Daqqah, Samer Barakat and Abdallah Shanableh:</b> <i>Seismic Fragility of Buildings in Sharjah, United Arab Emirates</i></li> <li>- <b>Nada Ahmed:</b> <i>Seismic hazard mitigation in Sudan</i></li> <li>- <b>Jalal Al-Dabbeek and Hussein Ahmad:</b> <i>The Extent of Awareness of Seismic Risk Among Palestinian Cities</i></li> <li>- <b>Mehdi Boukri:</b> <i>Seismic risk assessment of current buildings of Algiers city</i></li> <li>- <b>Rita Nogueira Leite Pereira Bento:</b> <i>Seismic Vulnerability Assessment of Old Buildings</i></li> </ul>
	16:00-16:30	Coffee/tea break
	16:30-18:00	<p><b>Douglas Bausch, FEMA:</b> <i>Technical Methodology and Applications of the HAZUS-MH Earthquake Loss Estimation Model – Part I</i></p> <p>The technical methodology 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.</p> <p>The HAZUS software contains many databases that are focused on the USA (for example, the building types). Doug will also discuss how participants can remove the USA-focused databases and insert databases more appropriate to their country.</p>
	18:00–19:00	<p><b>Contributed Papers:</b></p> <ul style="list-style-type: none"> <li>- <b>Hanan S. Al-Nimry:</b> <i>Quasi-Static Testing of Stone-Concrete Bearing Walls and Infilled RC Frames</i></li> <li>- <b>Lassina Zerbo:</b> <i>Civil and Scientific Applications of International Monitoring Data</i></li> <li>- <b>Rui Pinho:</b> <i>The Global Earthquake Model: Calculating and communicating earthquake risk</i></li> <li>- <b>A. Dhemaied, N. Bouden-Romdhane, F. Rejiba, C. Camerlynck, L. Bodet, and R. Guérin:</b> <i>Wave propagation modeling in viscoelastic media: Application to sedimentary basin of Tunis</i></li> </ul>

## Tuesday, October 27<sup>th</sup> 2009

<b>SESSION III</b>	9:00-10:30	<b>Douglas Bausch, FEMA:</b> <i>Technical Methodology and Applications of the HAZUS-MH Earthquake Loss Estimation Model – Part II</i>
	10:30-11:00	Coffee/tea break
	11:00-13:00	<b>Douglas Bausch, FEMA:</b> <i>Technical Methodology and Applications of the HAZUS-MH Earthquake Loss Estimation Model – Part III</i>
	13:00-14:30	Lunch
<b>SESSION IV</b>	14:30-16:00	<p><b>Contributed papers on the use of loss estimation software</b></p> <ul style="list-style-type: none"> <li>- <b>Ahmed Ksentini and Najla Bouden Romdhane:</b> <i>FEMA-HAZUS software exporting study for the seismic risk evaluation on the new and old cities of Tunis</i></li> <li>- <b>Tsafrir Levi, Barak Taveron, Oded. Kats, David Segal, Yakov Bar-Lavi, Shacham, Romach:</b> <i>Earthquake loss estimates in Israel: Insight from a new implementation of HAZUS software</i></li> <li>- <b>Douglas Bausch:</b> <i>Application of HAZUS-MH to Loss Estimation in the U.S.A.</i></li> <li>- <b>Mustafa Erdik, Karin Sesetyan, Mine Demircioglu, Ufuk Hancilar, Can Zulfikar, Eser Durukal, Yaver Kamer, Cem Yenidogan, Cuneyt Tuzun, Zehra Cagnan, Ebru Harmandar:</b> <i>Rapid earthquake hazard and loss assessment for the Euro- Mediterranean region</i></li> <li>- <b>Alfredo Campos Costa:</b> <i>Seismic loss estimation in Portugal; methods and results</i></li> </ul>
	16:00-16:30	Coffee/tea break
	16:30-19:00	<p><b>Contributed Papers</b></p> <ul style="list-style-type: none"> <li>- <b>Eduardo Cansado Carvalho:</b> <i>Seismic zonation and seismic action in the Portuguese National Annex to Eurocode 8</i></li> <li>- <b>Abdunnur Ben Suleman and Hadi Ghashut:</b> <i>Establishment of the Libyan National Seismograph Network: An effort aimed at assessing and mitigating natural disaster risks on national and regional scales</i></li> <li>- <b>João F. Fonseca:</b> <i>Onshore versus offshore: what controls the seismic hazard in Greater Lisbon?</i></li> <li>- <b>Dmitry A. Storchak:</b> <i>Re-production of the Entire ISC Dataset (1960-2009)</i></li> <li>- <b>Niyazi Türkelli and Mehmet Yilmazer:</b> <i>Data Processing and Archiving System at Kandilli Observatory and Earthquake Research Institute (KOERI)</i></li> <li>- <b>Kyriacos Solomi:</b> <i>The Cyprus Seismic Network: The accelerometric network and strong ground motion</i></li> <li>- <b>Mourad Bezzeghoud:</b> <i>Seismicity along the Western Eurasia-Africa plate boundary</i></li> <li>- <b>Abdullah M. Al-Amri and Mohammed S. Fnais:</b> <i>Seismo-Volcanic Investigation of 2009 Swarms at Harrat Lunayyir (Ash Shaqah), Western Saudi Arabia</i></li> <li>- <b>Susana Custódio:</b> <i>Parkfield Earthquakes: Characteristic or Complementary?</i></li> <li>- <b>Maria Ana Baptista:</b> <i>On the implementation of the PtTWS (Portuguese tsunami warning system)</i></li> </ul>
20:00	Workshop Dinner hosted by Instituto Dom Luiz and the Luso-American Foundation	

### Wednesday, October 28<sup>th</sup> 2009 - Group A

<b>FIELDTRIP - GROUP A</b>	9:30-11:00	<p><b>Meeting-point: Largo da Casa do Governador ao Castelo, for visiting the area comprising the Castle, Alfama and Mouraria: visit to buildings (not restored yet, being restored or already restored), with visible anti-seismic construction elements.</b> Confirmed visit to the building in Recolhimento Street, 28-36, a building dated from the end of the 19th century, which presents characteristics of the cage structures built on that time. It comprises 5 floors, 20 dwellings and 1021,23 m2 gross area and most of its houses are being rent./ Guidance: Dr. Rui Matos e Arqtº Nuno Brito, from UPA.</p>
	11:00-12:00	<p><b>Visit to the Museum Centre of Saint Jorge's Castle and the Castle area.</b> /Guidance: Dra. Inês NOIVO, from EGEAC. Visit to the fortified area of the Castle (duration: 20 mn) and to the Museums Centre (duration: 40 mn);</p>
	12:15-13:00	<p><b>Visit to the Roman Theatre and to the Archaeological centre,</b> by Dr. Rodrigo Banha da Silva (duration: 50/60 mn);</p>
	13:00-14:30	Lunch
	14:30-17:00	<p><b>Meeting-point: Largo do Carmo. Visit guided by the Architect Clara Vieira and by Dra. Mafalda Enes Dias. The visit will consist on the observation of the Carmo's Convent (Convento do Carmo) and an in-depth explanation on its resistance to the earthquake, foothills of the Ghotic Architecture, the reinforcement cuttings included during the subway works, the holding walls and reinforcements, explanation done on the platform of Santa Justa's lift, from where one can see the building of Carmo's Street, 63-75, (Rua do Carmo) of the Architect Siza Vieira.</b> The route will continue along the Carmo's bystreet (Travessa do Carmo) until building nr. 1 and then will cross the Chiado's Block ("Quarteirão do Chiado") by Garrett's Street, 54, 58, 60, (Rua Garrett) where one will observe the restoration/renovation works of the Architect Gonçalo Byrne. We will move down the Garrett's street (Rua Garrett) until the "A Courtyard" ("Pátio A"), of the Architect Siza Vieira (Access by the Garrett's Street, nr. 10), observation of the reinforcement works and of the sustenance methods of the holding walls. The route will continue through the Anchieta Street (Rua Anchieta) or through the Capelo's Street (Rua Capelo) until the Ivens Street (Rua Ivens), where one will visit the building nr. 21-25, in works (still to be confirmed). We will then move down through the Nova de S. Francisco Sidewalk (stairs) (Calçada Nova de S. Francisco), Nova do Almada Street (Rua Nova do Almada), S. Nicolau's Street (Rua de S. Nicolau) until the Correeiros Street (Rua dos Correeiros) to visit the Archaeological centre in the Correeiros Street (TO BE CONFIRMED)</p>
	17:00-18:00	<p><b>Visit to the Archaeological centre of Millennium BCP</b> guided by Archaeologists (duration: 60 mn).</p>

### Wednesday, October 28<sup>th</sup> 2009 - Group B

<b>FIELDTRIP - GROUP B</b>	9:00-12:00	<p><b>Meeting-point: Largo do Carmo. Visit guided by the Architect Clara Vieira and by Dra. Mafalda Enes Dias</b> The visit will consist on the observation of the Carmo's Convent (Convento do Carmo) and an in-depth explanation on its resistance to the earthquake, foothills of the Ghotic Architecture, the reinforcement cuttings included during the subway works, the holding walls and reinforcement works, explanation done on the platform of Santa Justa's lift, from where one can see the building of Carmo's Street, 63-75, (Rua do Carmo) of the Architect Siza Vieira. The route will continue along the Carmo's bystreet (Travessa do Carmo) until building nr. 1 and then will cross the Chiado's Block ("Quarteirão do Chiado") by Garrett's Street, 54, 58, 60, (Rua Garrett) and one will observe the restoration/renovation works of the Architect Gonçalo Byrne. Climbingdown the Garrett's street (Rua Garrett) until the "A Courtyard" ("Pátio A"), of the Architect Siza Vieira (Access by the Garrett's Street, nr. 10), observation of the reinforcements and of the sustenance methods of the holding walls. The route will continue through the Anchieta Street (Rua Anchieta) or through the Capelo's Street (Rua Capelo) until the Ivens Street (Rua Ivens), where one will visit the building nr. 21-25, in works (still to be confirmed). Climbingdown through the Nova de S. Francisco Sidewalk (stairs) (Calçada Nova de S. Francisco), Nova do Almada Street (Rua Nova do Almada), S. Nicolau's Street (Rua de S. Nicolau) until the Correios Street (Rua dos Correios) to visit the Archaeological centre in the Correios Street (TO BE CONFIRMED)</p>
	12:00-13:00	<b>Visit to the Archaeological centre of Millennium BCP</b> , guided by Archaeologists (duration: 60 mn).
	13:00-14:30	Lunch
	14:30-15:30	<b>Visit to the Museums Centre of Saint Jorge's Castle and the Castle area.</b> Guidance: Dra. Inês NOIVO, from EGEAC. Visit to the fortified area of the Castle (duration: 20 mn) and to the Museums Centre (duration: 40 mn);
	15:30-16:30	<p><b>Largo da Casa do Governador ao Castelo, for visiting the area comprising the Castle, Alfama and Mouraria: visit to buildings (not restored yet, being restored or already restored), with visible anti-seismic construction elements.</b> Confirmed visit to the building in Recolhimento Street, 28-36, a building dated from the end of the 19th century, which presents characteristics of the cage structures built at that time It comprises 5 floors, 20 dwellings and 1021,23 m2 gross area and most of its houses is being rent./ Guidance: Dr. Rui Matos e Arqtº Nuno Brito, from UPA.</p>
	16:30-17:30	<b>16:30 - Visit to the Roman Theatre and to the Archaeological centre</b> , by Dr. Rodrigo Banha da Silva (duration: 50/60 mn);

## Thursday, October 29<sup>th</sup> 2009

<b>SESSION V</b>	9:00-10:30	<p><b>Contributed Papers</b></p> <ul style="list-style-type: none"> <li>- <b>R.Yassmineh, S. Bagh and M. Daoud:</b> <i>Local and Duration Magnitude Scales for Syria</i></li> <li>- <b>Mehdi Zare:</b> <i>Contribution to the Spectral Attenuation of Strong Motions in Iran</i></li> <li>- <b>Reilinger, R. , And Mcclusky, S.,; Arrajehi, A. , Mahmoud, S. , Rayan, A. ; Ogubazghi, G., Sholan, J.:</b> <i>Geodetic constraints on arabia plate motion and intra-plate deformation: Implications for regional geodynamics</i></li> <li>- <b>Hani Zahran and Salah El-Hadidy Yousef:</b> <i>The 2009 volcanic and seismic activity in Harrat Al-Shaqah (Lunayyir), western Saudi Arabia</i></li> <li>- <b>Jabour Nacer and Menzhi Mohammed:</b> <i>The seismicity in the region of Agadir, southwest Morocco</i></li> <li>- <b>Veronique Avirav and Avi Shapira:</b> <i>Seismic Data Acquisition (SDA), the Israel Seismic Network: a tool for permanent and portable seismic measurements (software presentation)</i></li> </ul>
	10:30-11:00	Coffee/tea break
	11:00-13.00	<p><b>Contributed Papers</b></p> <ul style="list-style-type: none"> <li>- <b>Abdullah Al-Enezi and Reda Abdul Fatah:</b> <i>Oilfields in Kuwait: A Source of Seismic Hazard</i></li> <li>- <b>M. Hamdache, J.A. Peláez, A. Talbi, M.A. Ureña and M.T. García-Hernández:</b> <i>A main earthquake catalog in Northern Algeria from 856 to 2008</i></li> <li>- <b>Zaslavsky, Y., Shapira, A., Hofstetter, A., Ataev, G., Gorstein, M., Aksinenko, T. Kalmanovich, M. and Perelman, N.:</b> <i>Microtremor Measurement for Seismic Hazard Assessment in urban areas: Examples from Israel</i></li> <li>- <b>Mehdi Boukri:</b> <i>Vulnerability index of Algiers masonry buildings</i></li> <li>- <b>Josep Batló:</b> <i>New earthquake parameters from old bulletins and seismograms</i></li> </ul>
13:00-14:30	Lunch	



<b>SESSION VI</b>	14:30-16:00	<p><b>Contributed Papers</b></p> <ul style="list-style-type: none"> <li>- Hofstetter, R., Zaslavsky, Y., and Perelman, N.: <i>Investigation of topographic effects and seismic hazard assessment: Hadassa En Kerem hospital</i></li> <li>- Tareq Al Hadeed: <i>Microzonation of Aqaba</i></li> <li>- Naser, M. F. and Darweesh, J.: <i>Vibration Modes, Frequency and Damping of the Al-Mujib Bridge</i></li> <li>- El-Sayed Mohamed Salem: <i>The relationship between recorded earthquakes and shear zone mineralization in central and south Eastern Desert of Egypt</i></li> <li>- Keith K. Nakanishi, Arthur Rodgers, Jr., and Rengin Gok: <i>Open source software for seismic processing</i></li> <li>- Keith K. Nakanishi: <i>Strategies for Data Sharing</i></li> </ul>
	16:00-16:30	Coffee/tea break
	16:30-18:00	<b>Closing session</b>

## Friday, October 30<sup>th</sup> 2009

6:00-24:00	<b>Depart Lisbon</b>
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# List of Participants

Participant	Organization	City	Country
1 Boukri Mehdi	CGS	Algiers	Algeria
2 Djillali Benouar	University	Algiers	Algeria
3 Mohamed Hamdache	CRAAG	Algiers	Algeria
4 Lassina Zerbo	CTBTO	Vienna	Austria
5 Eleni Morisseau	GSD	Nicosia	Cyprus
6 Kyriacos Solomi	GSD	Nicosia	Cyprus
7 El Sayed Mohammad Salem	EGSMA	Cairo	Egypt
8 Ahmed Mebarki	Université Paris Est - Marne la Vallée	Paris	France
9 Mehdi Zare	IIEES	Tehran	Iran
10 Mohsen Ashtiany	IIEES	Tehran	Iran
11 Noorbakhsh Mirzaei	Tehran Univ.	Tehran	Iran
12 Avi Shapira	GII	Tel Aviv	Israel
13 Rami Hofstetter	GII	Tel Aviv	Israel
14 Tal Vexsler	NDC	Tel Aviv	Israel
15 Tsafrir Levi	GII	Tel Aviv	Israel
16 Veronic Avirav	GII	Tel Aviv	Israel
17 Yuli Zaslavsky	GII	Tel Aviv	Israel
18 Rui Pinho	GEM Foundation	Pavia	Italy
19 Darwish Jaser	NRA	Amman	Jordan
20 Mohammad Dawoud Fandi Naser	NRA	Amman	Jordan
21 Tareq Al-Hadid	RSS	Amman	Jordan
22 Hanan S. Al-Nimry	Jordan University for Science and Technology	Irbid	Jordan
23 Abdullah Al-Enezi	KISR	Kuwait	Kuwait
24 Rami El-Khoury	El-Khoury & Partners	Beirut	Lebanon
25 Abdunnur Ben Suleman	Seis. Obs. Office	Tripoli	Libya
26 Hadi Gashut	Seis. Obs. Office	Tripoli	Libya
27 Pauline Galea	Malta University	Malta	Malta
28 Mohamed Menzhi	CNR	Rabat	Morocco
29 Nacer Jabour	CNR	Rabat	Morocco
30 Issa El Hussain	SQU	Muscat	Oman
31 Mutaz A. Al-Qutob	Al-Quds University	Jerusalem	Palestinian Authority
32 Hatim F. Alwahsh	Seis. Eng. Ctr.	Nablus	Palestinian Authority
33 Iman Amad	Seis. Eng. Ctr.	Nablus	Palestinian Authority
34 Jalal Al-Dabbeek	Seis. Eng. Ctr.	Nablus	Palestinian Authority
35 Alfredo Campos Costa	LNEC	Lisbon	Portugal
36 Carlos Sousa Oliveira	IST	Lisbon	Portugal
37 Eduardo Cansado Carvalho	GAPRES-SA	Lisbon	Portugal
38 Isabel Pais	C. Nac. de Planeamento Civil de Emergência	Lisbon	Portugal

	Participant	Organization	City	Country
39	João F. Fonseca ou Susana Vilanova	IST	Lisbon	Portugal
40	Jorge Miguel Miranda	IDL	Lisbon	Portugal
41	Josep Batló	IDL	Lisbon	Portugal
42	Luis Matias	IDL	Lisbon	Portugal
43	Luis Mendes Victor	CERU-EU	Lisbon	Portugal
44	Maria Ana Baptista	IDL	Lisbon	Portugal
45	Mário Manuel Paisana dos Santos Lopes	IST	Lisbon	Portugal
46	Mourad Bezzeghoud	CGE	Lisbon	Portugal
47	Paula Costa	IDL	Lisbon	Portugal
48	Rita Nogueira Leite Pereira Bento	IST	Lisbon	Portugal
49	Susana Custódio	I. Geof. da Univ. Coimbra	Lisbon	Portugal
50	Hani Zahran	SGS	Jeddah	Saudi Arabia
51	Talal A. Mokhtar	King Abdulaziz University	Jeddah	Saudi Arabia
52	Yahya Tarabulsi	National Centre for Earthquakes and Volcanoes	Jeddah	Saudi Arabia
53	Abdullah Alamri	KSU	Riyadh	Saudi Arabia
54	Khalid Aldamegh	KACST	Riyadh	Saudi Arabia
55	Mohammed Fnais	KSU	Riyadh	Saudi Arabia
56	Jenni Jenni	MNCN	Madrid	Spain
57	Maria Jose Jiminez	MNCN	Madrid	Spain
58	Mariano Garcia Fernandez	MNCN	Madrid	Spain
59	Nada Bushra El Tahir	Sudan Seismic Network	Khartoum	Sudan
60	Rayan Yassminh	NEC	Damascus	Syria
61	Ryad Darawcheh	AEC	Damascus	Syria
62	Ahmed Ksentini	Ecole Nationale d'Ingenieurs	Tunis	Tunisia
63	Atef Bouallegue	INM	Tunis	Tunisia
64	Ben Abdalla	INM	Tunis	Tunisia
65	Najla Bouden-Romdhane	Ecole Nationale d'Ingenieurs	Tunis	Tunisia
66	Cuney Tuzun	BU	Istanbul	Turkey
67	Habib Cem Yenidoğan	Bogazici University	Istanbul	Turkey
68	Niyazi Turkelli	KOERI	Istanbul	Turkey
69	Yousif Marzooqi	Dubai Municipality	Dubai	UAE
70	Abdullah Shanableh	Sharjah Univ.	Sharjah	UAE
71	Dmitry Storchak	ISC	London	UK
72	Douglas Bausch	FEMA Region VIII, Denver Federal Center	Denver	USA
73	Artie Rodgers	LLNL	Livermore, CA	USA
74	Keith Nakanishi	LLNL	Livermore, CA	USA
75	Rengin GOK	LLNL	Livermore, CA	USA
76	Mike Foose	USGS	Reston, VA	USA
77	Jamal M. Sholan	Seis. Obs. Ctr.	Sana'a	Yemen
78	Frederick Simon	UNESCO	Washington	UNESCO
79	Badaoui Rouhban	UNESCO	Paris	UNESCO
80	Jair Torres	UNESCO	Paris	UNESCO

# General information about Portugal

**Official language:** Portuguese

**Currency and exchange rate:** Portugal is one of 16 European Union countries whose common official currency is the euro.

You can exchange money at banks, which are open from 8.30 a.m. to 3 p.m. five working days a week; at bureaux de change; and at automatic currency exchange machines (these are for currency sale transactions only).

1 EURO = 1.453 US\$ Dollars  
US\$1 = 0.688 Euros

Portugal has a national network of cash machines (ATMs) identified by the symbol MB (Multibanco), from which you can withdraw cash 24 hours a day.

In Portugal, the most commonly used credit cards are: Visa, American Express, Diners Club, Europay / MasterCard, JCB and Maestro. If your Visa or MasterCard credit card is lost or stolen, contact the following telephone numbers for assistance: Visa: Tel. 800 811 107; MasterCard: Tel. 800 811 272.

**Time zone:** During winter time, i.e. from 1 a.m. on the last Sunday in October to 1 a.m. on the last Sunday in March, the official time in mainland Portugal and Madeira is the Universal Time Coordinated (UTC). The rest of the year (between 1 a.m. on the last Sunday in March and 1 a.m. on the last Sunday in October), summer time is in effect and the official time in mainland Portugal and Madeira is Universal Time Coordinated plus one hour.



**Electricity:** The electric current in Portugal is 230/400 volts at a frequency of 50 hertz and sockets comply with European standards.

You will need a 230 volt transformer and an adaptor to use American-style flat-prong plugs.

**Weights and Measures:** Metric system

**Average Temperature:** For the period of October/December the average temperature is 17.2 °C (53,0 °F)

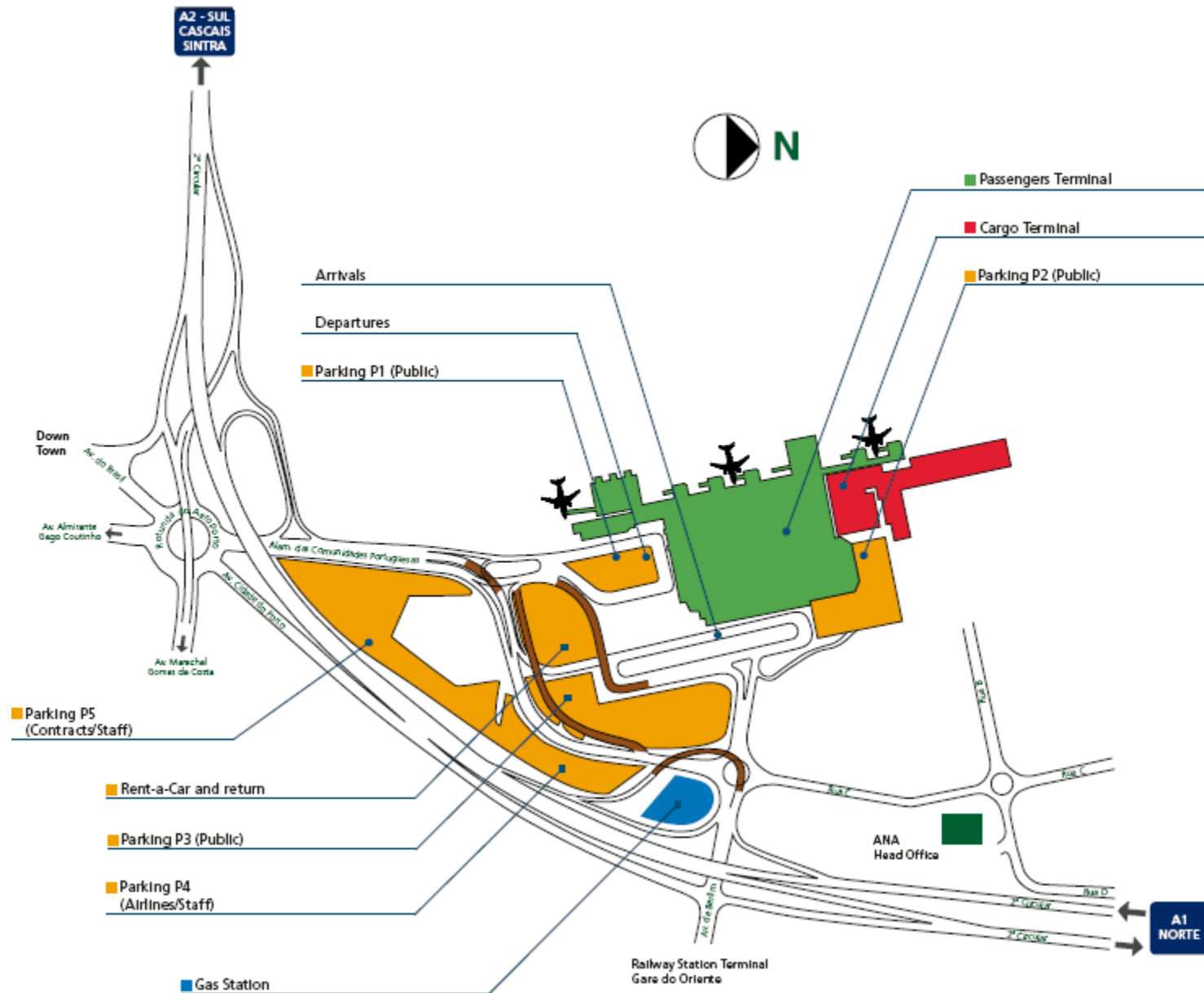
**National Emergency Number:** 112

**Tipping:** Service is included in the bill in restaurants, though it is customary to leave an additional tip of about 5-10% of the total. It is also normal to tip taxi drivers 5-10 % or rounding up the amount paid to the nearest euro.






# Arriving in Portugal

## Lisbon Portela Airport





United Nations  
Educational, Scientific and  
Cultural Organization

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pour l'éducation,  
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Workshop**

**Luso-American Foundation**

**26 - 29 October 2009**

## 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 'Fidalgui Viagens' company will be waiting for you in order to bring you to the Hotel Lisboa Plaza.

Contact Person: Mr. Jose Almeida.  
Mobile: +351.917004011



## About the Airport

Lisbon Portela Airport, also known as Lisbon Airport, is located 7 km (4.3 mi) north of Castle of São Jorge in the city of Lisbon, the capital of Portugal. In Portuguese, it is called Aeroporto de Lisboa, Aeroporto da Portela, or Aeroporto da Portela de Sacavém. It takes its name from the neighboring parish (freguesia) of Portela, also known as Portela de Sacavém.

# Hotel Lisboa Plaza

Hotel Lisboa Plaza is a charming Boutique hotel in the historic center of Lisbon.

Located close to Avenida da Liberdade, the Plaza is a charmer. Family owned and operated since its construction, the atmosphere of informal good taste and the constant updating of services provided making this charming hotel your best friend's home in Lisbon.

Opened at the beginning of the 1950's, this hotel is one in which the architect developed a concept of modernity through, as he himself said, "practical solutions, which promote a sense of well-being".

The family who own the hotel continued the architect's dream and over the years have created an atmosphere of informal good taste, which makes us feel well.

The beauty of the décor created by Graça Viterbo, one of the most famous Portuguese interior designers, the constant updating of services provided and the attention paid to even the smallest detail make this charming hotel one of the most character in Lisbon.

**Address:**

TV. Salitre / Av. Liberdade

Lisboa, 1269-066

Tel.:(351) 213 218 218

Fax:(351) 213 471 630

Contact Person: *Diana Resende*





# Luso-American Foundation



The workshop on Seismicity and Earthquake Engineering in the Extended Mediterranean Region will be hosted by the Instituto Dom Luiz and the Luso-American Foundation.

Everyday of the workshop, 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.

## Address:

Rua do Sacramento a Lapa, 21P - 1249-090, Lisbon, Portugal, Tel: +351 21 393 5800.



# Underground in Lisbon

The underground ("Metro" in Portuguese) is an important addition to the traditional forms of public transport. It operates between 6 a.m. and 1 a.m.

The Lisbon underground reaches a considerable part of the city. Its network has gradually been extended in recent years. Both the oldest and the most recent stations are decorated with panels of tiles by renowned Portuguese artists, making them true underground art galleries.





# Map of Lisbon



**Wishing you a safe journey to Lisbon!!!**

**For any query please contact:**

**Livia Moreira**

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