

**INTERNATIONAL SEMINAR ON SEISMIC RISK AND REHABILITATION
SEMINÁRIO INTERNACIONAL DE RISCO SÍSMICO E REABILITAÇÃO
FAIAL, AZORES 2008**

FINAL PROGRAMME

WEDNESDAY 9TH JULY	
10:00 - 12:00	Official Ceremony Book Presentation “Sismo 1998 – Açores. Uma década depois” / Cerimónia Oficial do lançamento do livro Sismo 1998 – Açores. Uma década depois With the participation of the / Com a presença do Presidente do Governo dos Açores
12:30 – 14:00	
15:30 – 17:30	Workshop School/ Escola Manuel de Arriaga
18:00 – 19:00	Registration, Hotel Fayal
19:00 – 19:30	Technical appreciation “Sismo 1998 – Açores. Uma década depois” Apreciação técnica do livro “Sismo 1998 – Açores. Uma década depois”
20:00	Ice breaker (Fayal Hotel)

NOTES:

- July, 9: Arrival of participants at Faial Airport at 14:00.
- July, 13: Departure of participants at 15:25.

SCIENTIFIC SESSIONS

THURSDAY 10TH JULY

08:30 - 09:00	Transfer to the Manuel de Arriaga school from Hotel Fayal
09:00 - 09:30	Late Registration
09:30 - 10:00	Keynote Lecture Agostin Udias (Universidad Complutense de Madrid, Spain) "Azores-Gibraltar Seismicity: a Review"
10:00 - 10:15	Seismic activity in the Azores Region in the context of the western part of the Eurasia-Nubia plate boundary M. Bezzeghoud, J.F. Borges, B. Caldeira, E. Buforn, A. Udias
10:15 - 10:30	Recent seismic activity in the Azores Region J.F. Borges, B. Caldeira, M. Bezzeghoud, E. Buforn
10:30 - 10:45	Seismic alarm system for the Azores Region - preliminary model M.C.M. Rodrigues
10:45 - 11:00	Probabilistic seismic hazard analysis in Angra do Heroísmo: Problems on defining the seismic source zones L. Matias, I. Veludo, P.T. Costa
11:00 - 11:30	Coffee Break
11:30 - 12:00	Keynote Lecture Gillian Foulger (Durham University, U.K.) "Geodynamics, Seismology, and Plumes: Formidable Challenges Remain"
12:00 - 12:15	Geological mapping of urban centers, a challenging and crucial task on vulnerability and seismic risk assessment studies. The case of Horta city area (Faial Island) J.C. Nunes, E.A. Lima, S. Medeiros
12:15 - 12:30	Landslides and Flooding areas susceptibility assessment on Ribeira Funda (Faial, Azores) R. Marques, P. Amaral, A. Malheiro
12:30 - 12:45	Preliminary vulnerability assessment for seismic and tsunami damage scenarios in the Bay of Cadiz (Spain) J. Irizarry, P. Murphy, T. Goded, A. Pazos
12:45 - 13:00	Rocking response of rigid blocks subjected to ground motion C. Casapulla, A. Maione
13:00 - 14:00	Lunch (Manuel de Arriaga School)
14:00 - 14:30	Poster Session
14:30 - 15:00	Keynote Lecture Gaetano Zonno (Istituto Nazionale di Geofisica e Vulcanologia - Milan, Italy) "Finite-Fault Ground-Motion Simulations. Application to the Azores"
15:00 - 15:15	Stochastic ground motion simulation with geological site effects in damage assessment J.M.C. Estêvão, C.S. Oliveira
15:15 - 15:30	Development of a reduced intrusiveness seismic strengthening technique in traditional masonry walls through GFRP strips and anchorages, bonding tests and design model J.G. Cardoso, J.M. Proença, A.S. Gago, V. Córias, R.F. Paula
15:30 - 15:45	Seismic Vulnerability of built cultural heritage: the case of the eastern turret of Praça do Comércio A. Mateus, C.S. Oliveira
16:15 - 16:45	Coffee Break
16:45 - 17:15	Keynote Lecture Ragnar Sigbjornsson "Earthquake Damage and Seismic Action: Lessons Learned in Iceland"
17:15 - 17:30	Emergency plans and heritage preservation E. Paupério, X. Romão, J.M. Guedes, A. Costa
17:30 - 17:45	Numerical assessment of the efficiency of seismic strengthening solutions on a stone masonry church B. Quelhas da Silva, J.M. Guedes, A.G. Costa
17:45 - 18:00	Seismic risk of traditional unreinforced masonry buildings of Barcelona, Spain R. Moreno, L.G. Pujades, A. Barbat, S. Lagomarsino
18:00 - 18:15	Assessment of seismic hazard and structural safety of buildings in Beira P.J.A. Mercês e Sousa, R. Carneiro Barros, J.J. Bommer
18:15 - 18:30	In-plane behavior of a stone masonry pier: experimental test, numerical simulation and retrofitting efficiency evaluation A.A. Costa, B. Silva, A. Arêde, J.M. Guedes, A. Costa
19:30	Transfer to Hotel Fayal

ORAL SESSIONS

FRIDAY 11TH JULY

8:30	Transfer to the Manuel de Arriaga school from Hotel Fayal
09:00 - 09:30	Keynote Lecture Randolph Langenbach (Conservationtech, USA) <i>"Paredes Pombalinas and the 'invention' of earthquake resistant construction"</i>
09:30 - 09:45	Collapse behavior test of a masonry using the shaking table C. Minowa, T. Narafu, H. Imai, T. Nakagawa T. Hanazato, Q. Ali
09:45 - 10:00	Collapsing process simulations of masonry structures under dynamic loading T. Nakagawa, T. Narafu, H. Imai, C. Minowa, T. Hanazato
10:00 - 10:15	Calibration of a masonry chimney numerical model based on in-situ dynamic testing V. Lopes, J. Guedes, E. Paupério, A. Arêde, A. Costa
10:15 - 10:30	Seismic rehabilitation of masonry towers in the Faial Island L. Guerreiro, J. Azevedo
10:30 - 10:45	Comparison of seismic reinforcement systems in a small building with masonry walls P. Lamego, F. Branco
11:00 - 11:30	Coffee Break
11:30 - 11:45	Estimating building fundamental frequencies and damping from vibrations induced by ambient noise M. Herak, D. Herak
11:45 - 12:00	Timber reinforced stone masonry in northern Pakistan in the context of the post-earthquake reconstruction efforts T. Schacher
12:00 - 12:15	Experimental analyses of rubble stone masonry walls strengthened with reinforced micro-concrete layers and transversal ties F.F.S. Pinho, V.J.G. Lúcio, M.F.C. Baião
12:15 - 12:30	Rehabilitation of house affected by the 9th July earthquake at Faial and Pico islands R. Furtado Marques, R.D. Justino
12:30 - 12:45	The use of building stone materials and the favourable behaviour of stone buildings with skeleton structures in earthquakes M. Bostenaru Dan
13:00 - 14:00	Lunch (Manuel de Arriaga School)
14:00 - 14:30	Poster Session
14:30 - 15:00	Keynote Lecture António Arêde (Faculdade de Engenharia da Universidade do Porto, Portugal) <i>"In Situ Testing of the Out-Of-Plane Capacity of Traditional Stone Masonry Walls"</i>
15:00 - 15:15	In situ Testing / On-line Transmission (FEUP/IST team)
15:15 - 15:30	Probabilistic risk assessment of RC building structures with masonry infills H. Rodrigues, H. Varum, A. Costa, X. Romão, A. Arêde, R. Delgado
15:30 - 15:45	Societal factors involved on risk mitigation policy: challenges to seismic retrofitting of hospital buildings D. Sousa e Silva, B.E. Aguirre
16:00 - 16:30	Coffee Break
16:30 - 17:00	Keynote Lecture Sergio Lagomarsino (Università degli Studi di Genova, Italy)
17:15 - 17:30	Benchmarking of commercial software for the seismic assessment of masonry buildings R. Marques, P.B. Lourenço
17:30 - 17:45	Calculation of costs for seismic retrofit of stone masonry buildings in Greece M. Bostenaru Dan, G. Bourlotos
17:45 - 18:00	Decision analysis of building owners incentives in retrofitting earthquake prone heritage buildings F. Ying, S. Wilkinson
18:00 - 18:15	A qualification system for personnel and contractors working in heritage conservation: general outline V.C. Silva
18:15 - 18:45	Seminar Conclusions & Closing Session
19:00	Transfer to Hotel Fayal
20:00	Banquet (Conference dinner at Fayal Hotel)

TECHNICAL VISITS

SATURDAY 12TH JULY (VISIT TO PICO ISLAND)	
7:30	Boat to Pico Island
8:00	Madalena Church
9:00	Wine Museum
10:00	"Lajidos" flows and winnery
11:00	Bandeiras church rehabilitation
12:00 – 14:00	Lunch ("O Lavrador" Restaurant)
14:00	Capitão lake
15:00	Almagreira rehabilitation
16:00	Lajes Village and Wale museum
17:00	Criação Velha pahoehoe field and UNESCO Protected Landscape
17:45	Boat to Faial Island

SUNDAY 13TH JULY (VISIT TO FAIAL ISLAND)	
8:30	Check out Hotel
9:00	Bus departure
09:30	Espalamaca (view over Horta city and Faial Graben)
10:00	Ribeirinha rehabilitation
10:30	Cedros rehabilitation – visit to the <i>in situ</i> testing
11:30	Capelinhos Volcano
12:00 – 13:30	Lunch (Forest Park of Capelo)
14:00	Check in at Airport
15:25	Participants departure

POSTER SESSION

P01	M. Silva, E. Gongora, M. Escuer	Azores seismicity during 2006 and 2007
P02	J. Fontiela, J.C. Nunes	An analysis of the b-values on the Congro Fracture Zone (S. Miguel Island, Azores) during the period 2003-2007
P03	A. Carvalho, A. Martins	Stochastic strong ground motion simulation of the 1998 Azores earthquake
P04	P. Chitas, C.S. Oliveira	H/V spectral ratio using weak motion at Monte das Moças, Horta
P05	P.J.A.M. Sousa, R.C. Barros, J.J. Bommer	Assessment of seismic hazard and structural safety of buildings in Chimoio
P06	R.A. Ribeiro, A.G. Costa, C.S. Oliveira	Dynamic Analysis of the Church bell tower in Praia do Norte village, Faial island
P07	S. Rocha, C.S. Oliveira, P. Roca	Dynamic behaviour of the 22 storey Solmar building in Ponta Delgada
P08	R. Barros, U. Almag, A. Grazine	Analysis of Podestà Palace's facade
P09	C. Dias, C.S. Oliveira	Seismic vulnerability of a "gaioleiro" building
P10	A.M.G.S. Braga, J.M.C. Estêvão	Feasibility of confined masonry design in Azores
P11	S. Carlino, E. Cubellis, A. Marturano	Damages of the 1883 earthquake in the island of Ischia (Italy) and seismic hazard assessment
P12	C.F. Carocci, D. Indelicato	Seismic safety and preservation of historical urban texture: a study case in Catania
P13	M.A. Ferreira, C.S. Oliveira,	Overall impact of July, 9 Earthquake. Ten years later
P14	F.F.S. Pinho, V.J.G. Lúcio, P. Faria, M.F.C. Baião	Durability aspects related to rubble stone masonry walls strengthened with reinforced micro-concrete layers
P15	T. Ilharco, J.M. Guedes, A. Arêde, E. Paupério, A.G. Costa	Strengthening of timber floors at Porto Historical Centre
P16	B.Q. Silva, J.M. Guedes, A.G. Costa	Comparison between different numerical modeling strategies for masonry, including linear and non linear behaviour
P17	L.F.A. Bernardo, A.J. Baptista	Seismic rehabilitation of existing buildings: study case
P18	A.G. Costa, F. Neves, C.S. Oliveira	Methodology for assessing the efficiency of reinforced techniques
P19	F. Neves, R.S. Vicente, A.G. Costa, C.S. Oliveira	Seismic vulnerability assessment of the buildings in Faial Island, Azores
P20	M.L. Sousa, N. Afonso	Simulation of seismic scenarios in Azores islands
P21	M.L. Senos, P.M. Alves, D. Vales, J. Cruz, M. Silva, F. Carrilho	The 9th July 1998 Azores earthquake and the related seismic swarm – ten years after
P22	F. Mota de Sá, C. S. Oliveira, M.A. Ferreira	The crystal islands. Calibration of seismic simulation based in damages observed on the building stock during the 1998 Azores earthquake

NOTES

- 1- All lectures will be held in the Auditorium of Manuel de Arriaga Secondary School.
- 2- Invited speakers presentation is 30 minutes total duration, including questions and discussion.
- 3- Oral presentation is 15 minutes duration, including discussion: authors are requested to leave time for questions. Please be fair towards the other Seminar participants and strictly observe your speaking time.
- 4- Oral Presentation: the supported format is Power Point Office 2003 or previous versions.
- 5- Participants are kindly asked to hand over a CD-ROM or USB key to the Seminar staff, at the latest in before the beginning of each session. The CD or USB key should be labeled with your paper name, your name, your institution and the day of your presentation.
- 6- Chairpersons are kindly requested to keep schedule and to ask the participant's help on that.
- 7- Posters ("Portrait" format and max. size 0.8 x 1.2 m) should be placed in site during "Late Registration" (Thursday morning). Please remove your poster on Friday after the Closing Session. The remaining posters will be removed by the Seminar staff; no guaranty can be given in this case that the posters can be recovered.
- 8- On Saturday the boat will depart from Faial Island at 07h30, so it is advisable to arrive at the harbour at least 15 minutes before departure time.