# INTERNATIONAL SYMPOSIUM ON SAFETY AND DURABILITY OF MATERIALS AND CONSTRUCTIONS SEDUREC 2009

# Barcelona, 25-27 February 2009

### PRELIMINARY PROGRAMME

February, 25th, 2009 14:00 Welcome Address		
		14:30 Session 1
Jesús Rodríguez	Safety and durability of constructions. An industrial perspective	
Roger Owen	Computational modeling of damage in structures and the development of retrofitting strategies	
Jacky Mazars	A strategy to model the response of concrete structures under severe loadings: from static loads to impacts	
Arnon Bentur	Design for durability of reinforced concrete structures: Concrete cover and field practices	
	<b>16:30</b> Coffee	
	17:00 Session 2	
Dan M. Frangopol	Lifetime safety, redundancy and durability of structures under uncertainty	
Fabio Biondini	Life-cycle oriented methods for structural analysis and design	
Franco Bontempi	Structural robustness: analysis and design	
Antonio Marí	Evaluation of the performance of structures along their service life by nonlinear evolutionary analysis models	
19:	<b>30</b> Welcome Reception	

# February, 26th, 2009

#### 9:00 Session 3

9:00 Session 3	
Manolis Papadrakakis	Safety of structures under seismic loading: A critical assessment of the design codes
Jorge Hurtado	Optimized information approaches for structural reliability analysis
Alex Barbat	Evaluation of the seismic risk in urban areas by means of scenarios
Joan Ramon Casas	Safety and durability assessment of existing bridges. European Guidelines
11:	00 Coffee
11:30	0 Session 4
Herbert Mang	Structural safety of concrete tunnel shells subjected to fire load
Carmen Andrade	Modelling of service life of the reinforcement
Jerzy Rojek	Structural failure analysis using the discrete method and combined discrete/finite element method
Günther Meschke	Durability oriented modeling and numerical simulation of concrete and reinforced concrete structures
13:	30 Lunch
14:30	0 Session 5
Kaspar J. Willam and Yunping Xi	Experimental and Computational Observations on Thermal Spalling of Concrete Materials and Structures
Miguel Ángel Toledo	Rockfill dam safety in overtopping scenarios
Suru Shah	Some Properties of Highly Dispersed Carbon Nanotube Reinforced Concrete
Gilles Pijaudier-Cabot	Nonlocal damage based failure models and extraction of crack opening for durability analyses
16 :	:30 Coffee
17:00	0 Session 6
Vicente Sánchez Galvez	Numerical simulation of blast effect on reinforced concrete structures
Bernard Schrefler	Simulation of fire resistance and durability of concrete
Xavier Oliver	The continuum strong discontinuity approach: a computational setting to evaluate structural safety and deterioration in front of material failure

Hans Reinhardt	Exposure supported frost testing of	
	concrete	
	<b>20:30</b> Banquet	
February, 27th, 2009		
	9:00 Session 7	
Peter Tanner	Acceptable level of notional risks	
	associated with structural design.	
David R. Jones	Avoiding fatigue failure in large steel	
	structures - problems of technology	
	transfer between designers and	
	codes, and codes and the scientific	
	literature	
Mike Faber	Risk informed decision making	
	concerning engineered facilities	
Olga Rio	Instantaneous deformability of actual	
	new concept concrete for tunnels	
	<b>11:00</b> Coffee	
	11:30 Session 8	
Pere Roca	Reliability analysis of historical	
	structures	
Fuminori Tomosawa	The normative on durability of	
	concrete structures in Japan	
Eugenio Oñate and	Modelling and simulation of	
Benjamín Suárez	structural failure accounting for	
	fluid-soil-structure interaction	
13:	<b>30</b> Farewell cocktail	