



This workshop is a multi-disciplinary meeting aimed at discussing the need for a new way of conceiving building retrofit that integrates structural safety, environmental/thermal and economic performances in a sustainable perspective. The event will be focused on different fields of scientific study and research, bringing together experts of structural engineering, energy performance, economic values and life time thinking with the purpose to define a Roadmap for the retrofit of Multi-storey Concrete Buildings across Europe.

The two-days meeting is articulated in four plenary sessions devoted to **Structures**, **Energy**, **Sustainability** and **Case Studies**. Each session is introduced by a *Keynote Lecture* and is concluded at the end of all the oral presentations by a *Rapporteur*.

VENUE



The Workshop is hosted by the *Joint Research Centre* in Ispra which is a small town located in Northern Italy, in the province of Varese in the Lombardy region on the shore of Lake Maggiore.

Ispra is about 60 km far from Milan and it is very close to Malpensa Airport.

There will be no participation fees and the Joint Research Centre will take care of the transportation of the participants from/to the airport and to the meeting place. Moreover it will provide the meals for the duration of the workshop and will assist for the accommodation in nearby hotels.

SCIENTIFIC COMMITTEE

dr. Paolo Negro - European Commission - Joint Research Centre

dr. Ornella Iuorio - University of Leeds

prof. Dan Dubina - 'Politehnica' University of Timisoara

prof. Raffaele Landolfo - University of Naples 'Federico II'

dr. Chris Jofeh - Arup (UK)

prof. Laura Bellia - University of Naples 'Federico II'

prof. Andy Gouldson - University of Leeds

prof. Helena Gervasio - University of Coimbra

dr. Stuart Matthews - BRE Associate (UK)

prof. Paolo Riva - University of Bergamo

PLEASE REGISTER AT:

https://web.jrc.ec.europa.eu/remjrc/screen/meeting/707/registration-form

VISIT THE WEBSITE AT:

https://engineering.leeds.ac.uk/events/event/20131/school-of-civil-engineering/350/surecon-conference



SAFESUST 2

- SURECON Workshop -

A roadmap for a **SU**stainable integrated **RE**trofit of **CON**crete buildings



Joint Research Centre Ispra (VA) - Italy

October 23 - 24, 2018

ORGANIZING COMMITTEE



European Commission Joint Research Centre

dr. Paolo Negro Francesca Gadusso



University of Leeds

dr. Ornella Iuorio Elvira Romano

	SAFESUST 2 - SURECON Workshop		
23 rd OCTOBER	A GENDA	24 th OCTOBER	
10:00	Opening & Welcome to JRC	9:00	
	Dr Dan Chirondojan – Director of Dir. E:'Space, Security and Migration' - Joint Research Centre	SUSTAINABILITY	Paolo Negro & Ornella luorio
10:15	Introduction to SAFESUST 2 - SURECON Workshop Dr Paolo Negro - Joint Research Centre	Session Rapporteur	Prof. Helena Gervasio - University of Coimbra
C	Dr Ornella Iuorio - University of Leeds	9:15	KEYNOTE LECTURE The Economics of Low Carbon Cities
Structures Session Rapporteur	Prof. Raffaele Landolfo - University of Naples 'Federico II'		Prof. ANDY GOULDSON - University of Leeds
10:30	KEYNOTE LECTURE	9:45	, and the same of the product of the
	Using steel solutions to enhance seismic resilience of reinforced concrete buildings		A. Colombo
	Prof. DAN DUBINA - 'Politehnica' University of Timisora	10:00	A Life Cycle-based methodology to integrate seismic risk into combined energy- structural retrofit strategies
11:00	Measures for reducing vulnerability of building structures due to explosions F. Dinu, I. Marginean, E. Ghicioi, V. Pasculescu, E. De Iuliis, A. Khalil & D. Dubina		C. Menna, U. Vitiello, G. M. Mauro, D. Asprone, N. Bianco & A. Prota
11:15	Risk assessment procedure for RC frame structures caused by extreme events	10:15	
	K. Szylak		existing buildings C. Passoni, A. Marini, A. Belleri & C. Menna
11:30	Towards performance-based engineering of building structures subjected to extreme	10:30	
	hazards F. Parisi	_5.55	buildings
11:45	Degradation of concrete		E. Romano, O. Iuorio & P. Negro
	L. Black	10.45	COFFEE BREAK
12:00	Retrofit of existing RC buildings with diagrids adopting a holistic-sustainable design	CASE STUDY Session Rapporteur	Prof. Paolo Riva - University of Bergamo
	framework S. Labò, C. Passoni, J.Zanni, A. Marini, A. Belleri & P. Riva	11:15	
12:15	Design criteria to enhance the robustness of flush end-plate beam-to-column		Structural assessment of existing large panel system-built (LPS) residential
12.13	connections		blocks for accidental loads – Background to the development of the current UK guidance
	M. D'Aniello & R. Landolfo		Dr STUART MATTHEWS - BRE Associate (UK)
12:30	LUNCH	11:45	Seismic assessment and retrofit of typical pre-code school masonry building -
ENERGY Sassian Pannartour	Prof. Laura Bellia - University of Naples 'Federico II'		Case study R. Apostolska
Session Rapporteur 14:00	KEYNOTE LECTURE	12:00	A case study: seismic retrofitting of an existing multi-storey r.c. building in
	Automated overcladding for improved energy efficiency – a UK perspective		Northern Italy
	Dr CHRIS JOFEH - Arup (UK)		F. Mola & E. Mola
14:30	Renovation solutions for buildings with large precast reinforced concrete panels – Case Study	12:15	Retrofitting the existing reinforced concrete buildings for seismic resistance and energy efficiency
	S. Pescari, V. Stoian & C. Măduta		D. Bournas
14:45	Technology overview of prefab facade systems for multi-objectives building	12:30	Opportunities and barriers to the deep rehabilitation of the collective buildings
	renovation S. Avesani, A. Andaloro, F. Babich & R. Lollini		in East Europe L. A. Fülöp, V. Ungureanu, Z. Nagy & D. M. Muntean
15:00		12:45	
	M.C. Caruso, M. Lamperti Tornaghi & P. Negro	12.43	O. Iuorio, N. Nikitas, E. Romano & P. Negro
15:15	Structural and thermal intervention for rehabilitation of precast large concrete panels for residential buildings	13:00	• •
	V. Ungureanu, L.A. Fülöp, A. Ciutina, A. Botici & D. Dubina	13:15	
15:30	Rapporteurs wrap up	14:00	
15:45	ELSA Laboratory visit	15:00	Acknowledgments & Future steps Paolo Negro & Ornella luorio
16:30	First day Closure	15:30	Workshop Closure