

3rd COST TU1402 Workshop

COST Action TU1402: Quantifying the Value of Structural Health Monitoring

3rd Workshop, 4th Management Committee Meeting, 5th Steering Committee Meeting

Objectives

The objectives of the 3rd Workshop are (1) the presentation and the consolidation of factsheets and (2) the preparation of the intermediate report.

Tasks

According to the COST TU1402 MoU, the working foci are:

- For WG1: Communication of theory
- For WG2: Structural Health Monitoring and structural performance categorisation and modelling platform
- For WG3: Databases and modelling toolboxes

The preparation of the first intermediate report will be initiated and tasks are distributed.

Organisation

The workshop is organised in mainly consecutive plenum sessions. All Action sessions will be audio and video recorded. The key presentations and contributions will be uploaded and disseminated through the Action website. The fact sheets will be compiled to a workshop report.

Dates

14. and 15. March 2016

Venue

BarcelonaTech
Escola Tecnica Superior d'Enginyers de Camins, Canals i Ports
Carrer de Jordi Girona, 1, 08034 Barcelona, Spain
Barcelona, Spain

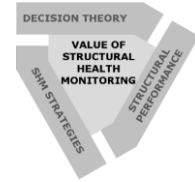
Please see also the last page: "How to get to UPC- Campus Nord".

Accommodation

Please have a look to: [Accommodation UPC - Barcelona](http://www.upc.edu/sri/congress/accomodation-upc-barcelonatech)
(<http://www.upc.edu/sri/congress/accomodation-upc-barcelonatech>).

Local Organisers

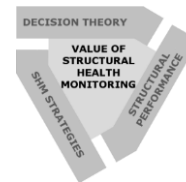
Prof. Joan Ramon Casas (joan.ramon.casas@upc.edu)



Agenda

DAY 1: Monday, 14.03.2016

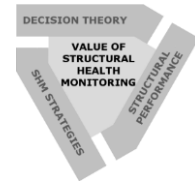
09:00-09:30	Registration and welcome reception	
09:30-09:45	Workshop opening	
09:45-10:00	Joan Ramon Casas: Presentation of COST Action TU 1406 on “Quality specifications for roadway bridges, standardization at a European level (BridgeSpec)”	
10:00-10:30	General Session, Chair: Sebastian Thöns	
	Authors/Speakers	Topic of presentation
	Maria Pina Limongelli	Glossary
	Helder Sousa	Innovation Committee Recommendations
	Helmut Wenzel	Ranking of objectives from clients
Coffee Break		
11:00-12:30	WG 1 – Theoretical Framework, Chair: Dimitri Val	
	Authors	Topic of presentation
	Joan Hee Roldsgaard, Daniel Honfi	System representation
	Henning Brüske, S. Thöns	Domains of Vol in SHM
	Daniele Zonta	Why should I waste my money on monitoring?
	Robby Caspeelee, Dimitri Val, Cheng Xing	Classes of decision analysis
	Robby Caspeelee, Dimitri Val, Cheng Xing	Pre-posterior formulations
	Discussion	
Lunch Break		

**DAY 1: Monday, 14.03.2016 cont.**

14:00-16:00	WG 2 – SHM Strategies and Structural Performance, Chairs: Marios Chryssanthopoulos, Geert Lombaert, Michael Döhler	
	Authors	Topic of presentation
	Miroslav Sykora and Jana Markova	Assessment of cooling towers and industrial chimneys based on monitoring
	Luis Oliveira Santos and António Castro	Structural monitoring of dams
	Rafał Szydłowski, Mariusz Maślak, Michał Pazdanowski	Monitoring of the prestressed concrete slabs with unbonded tendons during erection and in service
	Maria Giovanna Masciotta, José A.C. Matos, Luís F. Ramos	The value of SHM for the structural behaviour of masonry structures under varying environmental effects
	Krzysztof Radzicki, Stephane Bonelli	Thermal monitoring of dams and levees
	W.M.G. Courage, G.T. Luiten, W.H.A. Peelen, A.J. Bigaj van Vliet	Smart Structures for Smart Maintenance
	Discussion	
Coffee Break		
16:30-18:00	Steering Committee meeting	
20:00	Workshop Dinner: EL CANGREJO LOCO, Moll de Gregal, 29-30 Port Olímpic 08005 Barcelona, www.elcangrejoloco.com	

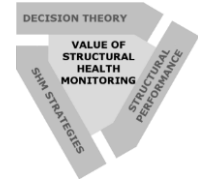
DAY 2: Tuesday, 15.03.2016

09:00-10:30	WG 2 – SHM and Structural Performance cont., Chairs: Marios Chryssanthopoulos, Geert Lombaert, Michael Döhler	
	Piotr Omenzetter, Maria Pina Limongelli, Serdar Soyoz, Ufuk Yazgan	Towards understanding and quantifying the value of SHM and inspection data for seismic risk management of buildings
	Alfred Strauss, Ana Mandic, Helder Sousa	Performance indicators for bridges
	Aleš Žnidarič, Maja Kreslin, Jan Kalin	Weigh-in-motion and traffic load monitoring
	Sebastian Thöns, Simona Miraglia	Classification
	Discussion	
Coffee Break		



DAY 2: Tuesday, 15.03.2016 cont.

11:00-12:30	WG 3 – Methods and Tools, Chairs: Daniel Straub, Eleni Chatzi	
	Álvaro Cunha, Elsa Caetano, Carlos Moutinho, Filipe Magalhães	ViBest_SHM – A Digital Data Repository for Structural Health Monitoring
	Bernt J. Leira	Two Examples of Reliability Updating Based on Monitoring of Structural Response Parameters
	Maria Pina Limongelli, Eleni Chatzi, Michael Döhler, Geert Lombaert	Towards the extraction of vibration-based damage indicators
	Casciati F., Casciati S.	Elaborations from an experimental campaign on a timber footbridge
	Discussion	
Lunch Break		
14:00-14:30	Discussion and Conclusion	
Coffee Break		
15:00-16:00	Management Committee Meeting	



How to get to UPC- Campus Nord

From the City Centre

Campus Nord of Universitat Politècnica de Catalunya is located at the North-West corner of the city, at the end of the Green Line (L3) of the underground. In order to reach the Campus by public transport, it is advisable to use the underground. There are two stations near to the Campus, “Zona Universitària” and “Palau Reial”, both at L3. Once there, please use the [Location map](#) to arrive in the Campus.

From The Airport

By Taxi

Barcelona taxis (yellow & black) are available at the arrival terminals. A taxi ride to Campus Nord costs around 25 € (ask in advance the taxi driver if you plan to pay with credit card)

By Train

Airport Station: The train station is connected to Terminal T2 through a footbridge placed between terminals T2A and T2B. From Terminal T1 get the shuttle bus (free service) to Terminal T2

Downtown stations: Main stations are Barcelona Sants and Barcelona Plaça Catalunya. Once there you may take Metro line L3 to "Palau Reial" or "Zona Universitària"

Timetable: From Barcelona Plaça de Catalunya 05:39 to 22:11 every 30 minutes. From Barcelona Sants 05:43 to 22:16 every 30 minutes. From the Airport 06:13 to 23:40 every 30 minutes

Tickets are purchased at the stations. A single ticket costs 3€

By Bus (Aerobus)

Airport stops: Bus stops at Terminal T1 and T2 (A, B, C)

Downtown stops: This line ends at Plaça Catalunya (city center). Once there, you may take L3 of the underground to "Palau Reial" or "Zona Universitaria" stations.

Timetable: From Plaça Catalunya 05:00 to 00:30 every 10 minutes. From the Airport 06:05 to 01:05 every 10 minutes

Tickets are purchased in the bus A return ticket costs 7,30€