



# TU1406

COST ACTION

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QUALITY SPECIFICATIONS FOR ROADWAY BRIDGES,  
STANDARDIZATION AT A EUROPEAN LEVEL

## **3<sup>rd</sup> WG + MC MEETING & WORKSHOP OF COST ACTION TU1406**

March 1 – 2, 2018

Wrocław, Poland



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STANDARDIZATION AT A EUROPEAN LEVEL

1<sup>st</sup> and 2<sup>nd</sup> of March, 2018

Wrocław University of Science and Technology  
Building H-14  
Wyb. Wyspiańskiego 40, 50-370 Wrocław, Poland

### ACTION CONTACTS

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Local organizer

Action websites

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## 1. INTRODUCTION

### 1.1. OBJECTIVES

The seventh workshop of COST Action TU1406 “Quality specifications for roadway bridges, standardization at a European level” ([www.tu1406.eu](http://www.tu1406.eu)), will be held in Wrocław, Poland, at the Wrocław University of Science and Technology on 1<sup>st</sup> and 2<sup>nd</sup> of March 2018.

In the first year of COST Action TU1406 the main focus was on the screening process of existing European documents and establishing a database for PIs. The second year of the project was focused on technical and non-technical bridge performance goals, followed by the establishment of quality control plans, applications to case studies and recommendations for guidelines in the third year.

The workshop will be dedicated to the following topics:

- Bridge management systems;
- Methods and experiences of bridge Life-cycle Assessment;
- Quality control plans;
- Quality control measurements, techniques and methods.

During the 2-day workshop, selected manuscripts will be presented and discussed, followed by WG3, WG4 and WG5 meetings.

### 1.2. PROGRAMME

Thursday, March 1 <sup>st</sup> , 2018	
08:30 – 09:00	Registration
09:00 – 09:30	Welcome and opening session by <i>José Matos</i> , Chairman of COST Action TU1406, <i>Jerzy Jasieńko</i> , Vice-Rector of Wrocław University of Science and Technology, <i>Jan Bień</i> , Director of the Department of Bridges and Railways, Faculty of Civil Engineering, Wrocław University of Science and Technology Introduction on Polish Road Bridge Infrastructure by <i>Przemysław Maliszewicz</i> , General Directorate for National Roads and Motorways
09:30 – 10:05	Keynote Lecture 1 by <i>Marek Salamak</i> “Building Information Modelling (BIM) and Augmented Reality (AR) in improvement of roadway bridges quality”
10:05 – 10:40	Keynote Lecture 2 by <i>Michel Ghosn</i> “Toward a Risk-Based Approach for the Structural Assessment of Highway Bridges”
10:40 – 11:15	Coffee break

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**Session 1**

Moderators: Rade Hajdin, Joan Casas

11:15 – 11:30	Presentation 1-1 by <i>Marija Kušter Marić</i> “Quality Specification for Concrete Bridges Vulnerable to Reinforcement Corrosion”
11:30 – 11:45	Presentation 1-2 by <i>Mariano Angelo Zanini</i> “Prioritizing Seismic Retrofit Interventions for Ageing Bridge Portfolios”
11:45 – 12:00	Presentation 1-3 by <i>Damir Bekic</i> “Flood Early Warning System for Supporting Decision Process on Roads and Bridges”
12:00 – 12:15	Presentation 1-4 by <i>Boulent Imam</i> “Data Uncertainties in Bridge Scour Risk Assessment”
12:15 – 12:30	Presentation 1-5 by <i>Lennart Elfgren</i> “Load Testing Used for Quality Control of Bridges”
12:30 – 14:00	Lunch
14:00 – 14:35	Keynote Lecture 3 by <i>Vikram Pakrashi</i> “Diversity in results and Quality control in IBMS”
14:35 – 15:10	Keynote Lecture 4 by <i>Colin Caprani</i> “Australian Bridge Assessment and Management Processes”

**Session 2**

Moderators: Amir Kedar, Vikram Pakrashi

15:10 – 15:25	Presentation 2-1 by <i>Sandra Skaric</i> “Economy, Societal and Environmental Performance Indicators for Bridges”
15:25 – 15:40	Presentation 2-2 by <i>Naida Ademovic</i> “Life Cycle Assessment of Composite Bridges – Some Experiences”
15:40 – 15:55	Presentation 2-3 by <i>Volkmar Zabel</i> “Condition Assessment of a Pre-Stressed Concrete Beam Bridge”
15:55 – 16:10	Presentation 2-4 by <i>Gabriela Proca</i> “Rehabilitation of Road Bridge Over Siret River, KM 6+950”
16:10 – 16:25	Presentation 2-5 by <i>Paweł Hawryszków</i> “Structural Health Monitoring System as a Tool for Permanent Supervision of Roadway Bridges”
16:25 – 17:00	Coffee break and Group Photo
17:00 – 18:00	<b>MC meeting (*)</b>

**Social Events**

18:00 – 19:30	City Tour
19:30 – 21:30	Networking dinner

**Friday, March 2<sup>nd</sup>, 2018**

08:30 – 09:00	Registration			
09:00 – 10:30	<b>WG3 report presentation</b>			
10:30 – 11:00	Coffee-Break			
11:00 – 12:30	<b>Joint WG meeting</b>			
12:30 – 14:00	Lunch			
<b>Separate WG meetings</b>				
14:00 – 15:30	WG4	WG5	IAB	Innovation Subgroup
15:30 – 16:00	Coffee break			
<b>Separate WG meetings</b>				
16:00 – 17:00	WG4		WG5	
<b>Closing of the meeting</b>				
17:00 – 17:05	Information on the next Workshop in Barcelona, Spain by <i>Joan Casas</i>			
17:05 – 17:10	Closing words by <i>Jose Matos &amp; Jan Bieñ</i>			

(\*) The MC meeting is only for MC members, MC observers or MC substitutes (in substitution of a MC member).

## 1.3. LOCATION, DATES AND TRAVELLING

### 1.3.1. LOCATION AND DATE

The workshop will take place at Wrocław University of Science and Technology, conference rooms, location: **Building H-14, Wyb. Wyspiańskiego 40, 50-370 Wrocław, Poland.**



Fig. 1. Wrocław University of Science and Technology, Building H-14

Meeting dates are Thursday 1<sup>st</sup> and Friday 2<sup>nd</sup> of March 2018.

Wroclaw University of Science and Technology (WUST) is the leading scientific and educational centre in Poland confirmed by national annual rankings. Also its position among technical universities in both Europe and the rest of the world is increasing every year. The University has been operating since 1945. Its creators and organizers were scientists from Lviv and Warsaw. Today it is one of the biggest and best technical universities in the country with 28 815 students being educated by 2000 academic teachers in 16 faculties.

The exact meeting rooms will be signed at the location.

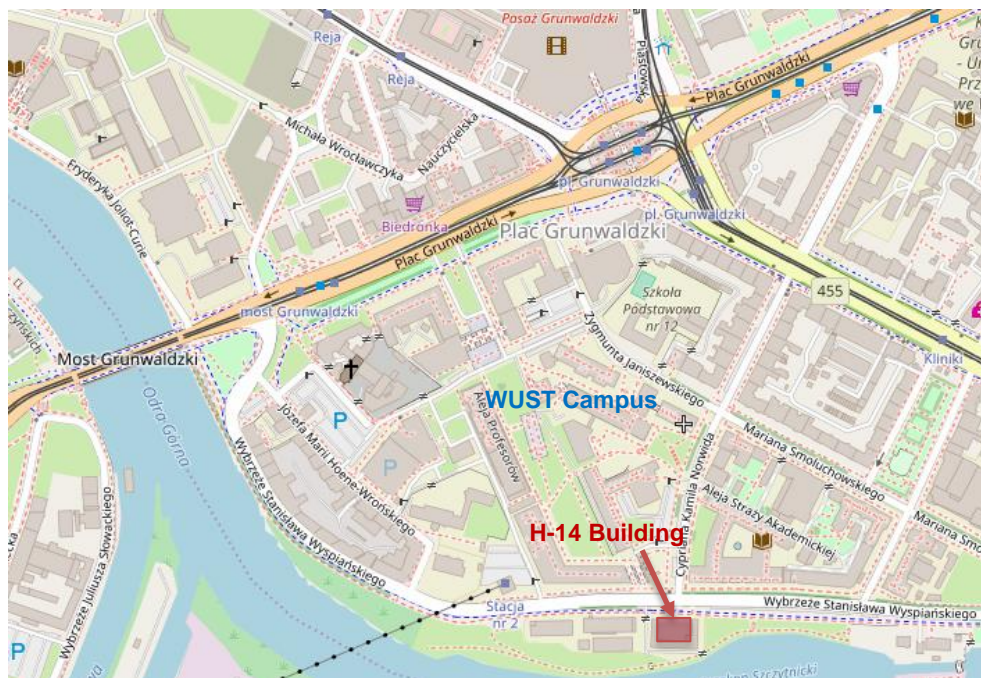


Fig. 2. Location scheme of the meeting Venue

Frequent trams and buses run from the city centre east direction to the University – Pl. Grunwaldzki (Grunwaldzki Square) stop:

- Trams 0, 1, 2, 4, 10
- Buses 115, 116, 145, 146, 149

Tickets can be bought in self-service vending machines on the bus using a credit/debit card only or at stops using cash as well.

There is also a new way of transport In Wroclaw based on electric car rental service available per minutes: [www.vozilla.pl/](http://www.vozilla.pl/). Prices is 1.15 PLN/min.



### 1.3.2. HOW TO GET TO WROCLAW

#### By plane

A useful link for airway connections to Wrocław is: [airport.wroclaw.pl/en/](http://airport.wroclaw.pl/en/). It provides direct (traditional and low-cost) flights to many European cities according to the map below.



Fig. 2. Map of connections with the Wrocław Airport

#### By public transport from the airport to the city centre



##### MUNICIPAL BUS

Bus **No. 106** goes to/from the Central Railway/Bus Station everyday every 20 minutes. The entire journey (price **3.4 PLN**) takes approximately **40 minutes** (depending on the traffic). Night bus line **No. 206**, operates on the same route through the Airport. See the detailed timetable: [www.wroclaw.pl/rozklady-jazdy](http://www.wroclaw.pl/rozklady-jazdy).

##### WRO AIRPORT EXPRESS

A shuttle bus operates on the route Airport - City Centre (Plac Dominikański) – Dworzec Wrocław (Central Bus and Railway Station). A ticket will cost **10 PLN** (to be paid directly to the driver by cash or by card). The journey will take about **30 minutes**.





## 1.4. ACCOMMODATION

The accommodation is the responsibility of participants and the organizers do not offer apartments. There is a large selection of hotels in the city centre. The nearest ones are given below.

<b>Name</b>	<b>Address</b>	<b>Distance</b>
Jan Paweł II Hotel****	Św. Idziego 2	1,3 km
DoubleTree by Hilton Wrocław*****	Podwale 84	1.6 km
B&B**	Ks. Piotra Skargi 24-28	1.8 km
Tumski Hotel***	Wyspa Słodowa 10	1.9 km
HP Park Plaza****	Bolesława Drobnera 11/13	2.1 km

## 1.5. COMMITTEES

A scientific committee was defined as well as an organizing committee.

### 1.5.1. SCIENTIFIC COMMITTEE

<b>Name</b>	<b>TU1406 Position</b>	<b>E-mail</b>
José Matos	Chair	chair@tu1406.eu
Joan Casas	Vice-chair	joan.ramon.casas@upc.edu
Rade Hajdin	WG3 Leader	wg3@tu1406.eu
Amir Kedar	WG4 Leader	wg4@tu1406.eu
Vikram Pakrashi	WG5 Leader	wg5@tu1406.eu
Jan Bień	Local Organizer	jan.bien@pwr.edu.pl

### 1.5.2. ORGANIZING COMMITTEE

<b>Name</b>	<b>TU1406 Position</b>	<b>E-mail</b>
José Matos	Chair	chair@tu1406.eu
Jan Bień	Local Organizer	jan.bien@pwr.edu.pl
Tomasz Kamiński	Local Organizer	tomasz.kaminski@pwr.edu.pl
Sérgio Fernandes	TU1406 Support	support@tu1406.eu

### 1.5.3. SECRETARIAT

<b>Name</b>	<b>TU1406 Position</b>	<b>E-mail</b>
Eleni Chatzi	Technical Secretariat	tecsec@tu1406.eu
Lara Leite	Administrative Secretariat	admsec@tu1406.eu
Tomasz Kamiński	Local Organizer	tomasz.kaminski@pwr.edu.pl

## 2. PARTICIPATION

### 2.1. FUNDING AND REIMBURSEMENT

COST organization provides a certain amount of financial means for organizing such meetings and to reimburse participants. This includes for example accommodation costs, meals, transport expenses, etc. For more information about travel reimbursement request please visit the following [webpage](#). Please book your flight and hotel as soon as possible in order to find cheap solutions.

### 3. SOCIAL EVENTS

#### 3.1. CITY TOUR & NETWORKING DINNER

Networking dinner will be organized on the 1<sup>st</sup> of March. The expected cost is 35 EUR per person. To attend this event a registration is required. Therefore **people willing to participate are asked to fill in the given [Doodle registration form](#) until 15<sup>th</sup> of February** in order to book accordingly. In the form please put your name and vote by choosing a button beside your name.

The dinner will take place in Barka Tumaska Restaurant at the Tumski Hotel (address: Wyspa Słodowa 10, 50-266 Wrocław). It is located on a barge moored to a bank of the Odra River in the heart of Wrocław City.



Fig. 1. Barka Tumaska Restaurant

Directly before the dinner a walking city tour will be arranged. The city tour will directly follow the MC meeting. It will start at 18 o'clock on 1<sup>st</sup> of March. The meeting point for the city tour will be the front of H-14 building at Campus of WUST.



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[WWW.TU1406.EU](http://WWW.TU1406.EU)