



Circle: WG Members  
Date: 20.10.2016  
Time: 09:00 CET  
Location: TNO, Delft, Netherlands  
Participants: Listed in Appendix A

## **COST TU1406 - Performance indicators for roadway bridges, Standardization at a European Level**

### **Subject | WG2 & WG3 Workshop & Meeting of COST Action TU1406**

#### **09.00 - 11.00 Session 1**

Moderators: Irina Stipanovic, Jose Matos

#### **Topic 1 - Opening of the WG Meeting and Welcome (time 9:00)**

- José Matos, Chairman of the COST TU 1406, University of Minho, Portugal,
- Agnieszka Bigaj-van Vliet and Jos Wessels, TNO, Netherlands
- Irina Stipanovic, WG 2 leader, University of Twente, Netherlands

#### **Topic 2 - Keynote Speech (time 9:30)**

- Keynote speaker: Agnieszka Bigaj-van Vliet, TNO, the Netherlands:  
Advancement of fib Model Code for structural concrete to incorporate assessment of existing structures

#### **Topic 3 - Presentations (time 10:20)**

- 10.20 – 10.40 Mariano Angelo Zanini: Performance goal assessment for existing bridges subject to pier local scour  
Not presented: Dimitrios Nikolaidis: Detailed Evaluation of Deteriorated Highway Bridges in Greece  
10:40 – 11:00 Vikram Pakrashi: Principal component analysis as a comparative technique for bridge management systems

**11.00 – 11.30 Coffee break**

#### **11.30 - 12.30 Session 2**

Moderators: Matej Kusar, Lojze Bevc

#### **Topic 4 - Presentations (time 11:30)**

- 11.30 – 11.50 Carmen Andrade: Resistivity as indicator of durability: survey in existing bridge  
11.50 – 12.10 Ivan Zambon: Reliability of existing bridges determined with physical

models – chloride induced corrosion

12.10 – 12.30 Tomasz Kamiński: Quality control of masonry bridges based on empirical

influence lines of displacements

**12.30 – 13.20 Lunch**

**13.20 - 15.00 Session 3**

Moderators: Rade Hajdin, Eleni Chatzi

**Topic 5 - Opening of the WG3 Rade Hajdin** (time 13:30)

**Topic 6 - Keynote Speech** (time 13:40)

- Keynote speaker: Bruce Johnson, State Bridge Engineer, Oregon Department of Transportation, (WG 3): Overview and preliminary results of Long Term Bridge Performance Program (LTBPP)

**Topic 7 - Presentations** (time 14:00)

14.00 – 14.20 Poul Linneberg: Reflections on Quality Control Plans for Girder and Frame Bridges

14.20 – 14.40 Dimosthenis Kifokeris: Project performance appraisal frameworks as blueprints for bridge quality control

14.40 – 15.00 João Amado: Quality Control Plan for Earth Retaining Walls – Conceptual Framework

**15.00 – 15.30 Coffee**

**15.30 - 17.00 Session 4**

Moderators: Ana Mandic, Amir Kedar

**Topic 8 - Presentations** (time 15:30)

15.30 – 15.50 Ignacio Pinero: Value-based method for condition assessment and management of bridges

15.50 – 16.10 Matej Kusar: Non-destructive investigation techniques in bridge inspection

16.10 – 16.30 Stefan Maas: Structural health monitoring based on static measurements with temperature compensation to detect stiffness reductions

16.30 – 17.00 Collecting findings from the 1st day workshop – Open Discussion

17.30 – 19.00 City tour through Delft, walk to the dinner

**19.00 Networking dinner**



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### **Subject | WG2 & WG3 Workshop & Meeting of COST Action TU1406**

#### **09.00 - 10.30 Session 5**

Moderators: Alfred Strauss, Yiannis Xenidis

#### **Topic 1 - Keynote Speech (time 9:00)**

- Keynote speaker: Mitsuyoshi Akiyama, Waseda University, Japan: Long term performance of concrete bridges under multiple hazards

#### **Topic 2 - Presentations (time 09:30)**

- 09.30 – 09.50 Giel Klanker: Sustainability score for roadway bridges  
09.50 – 10.10 Boulent Imam: Environmental performance framework for bridge infrastructure maintenance  
10:10 – 10.30 Joana Almeida: Life-cycle cost optimisation on a set of bridges

**10.30 – 11.00 Coffee break**

#### **11.00 - 12.10 Session 6**

Moderators: Joan Casas, Nikola Tanasic

#### **Topic 3 - Presentations (time 11:00)**

- 11.00 – 11.20 Nikola Tanasic: Bridge management practice & methodologies related to flooding hazards  
11.20 – 11.40 Naida Ademovic: Assessment of bridge performance by loading test after reconstruction  
11.40 – 12.10 João Amado: Interceptable decaying processes in arch bridges

#### **12.10 - 12.40 Closing ceremony**

Moderators: Joan Casas, Giel Klanker



- 12.10 – 12.25 Wrap up of the workshop: Open discussion
- 12.25 – 12.35 Ana Mandic: Announcement of the next joint COST TU1402 – COST TU1406 – IABSE WC1 Workshop, Zagreb 2-3 March 2017
- 12.35 – 12.40 Joan Casas and Giel Klanker: Closing words

**12.40 – 13.30 Lunch**

**13.30 - 15.30      Session 7**

Moderators: Irina Stipanovic, Rade Hajdin

**Topic 4 -      Joint WG2 and WG3 Meeting** (time 13:30)

- 13.30 – 13.50 Alfred Strauss: Categorization of indicators/findings
- 13.50 – 14.10 Irina Stipanovic: Performance goals and performance assessment
- 14.10 – 14.30 Rade Hajdin: From findings to performance goals
- 14.30 – 15.30 All: General discussion/Resolution of incompatibilities

**15.30 – 16.00 Coffee break**

**16.00 - 17.00      Session 8**

Moderators: Helmut Wenzel

**Topic 5 -      WG5 Kick-off meeting** (time 16:00)

- 16.00 – 16.25 Scope and activity around WG5 – presentation to invitees
- 16.25 – 16.40 Brief review of activities in other WG in TU1406 relevant to WG5
- 16.40 – 17.50 Discussion on WG5 activities to identify potential barriers and opportunities for standardization process
- 16.50 – 17.00 Update of follow-up work and assignment of scope of work and indicative timelines, along with alignment with activities of other WG ~