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

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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09.00 - 10.30  Session 5

Moderators: Alfred Strauss, Yiannis Xenidis

Topic 1 -  **Keynote Speech**  
- Keynote speaker: Mitsuyoshi Akiyama, Waseda University, Japan: Long term performance of concrete bridges under multiple hazards

Topic 2 -  **Presentations**  
- 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**  
- 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
12.35 – 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 ~