

INFRAVATION TO FEATURE AT IALCCE 2016

Infraction
An Infrastructure Innovation Programme

Following the kick-off of the nine projects in the last quarter of 2015 (highlighted in the January 2016 issue of this magazine), the ERA-NET Plus Infraction programme has featured both at TRB2016 in January and at TRA2016 in April (see page 7). The 2016

annual event for the programme will be part of the fifth International Symposium on Life-Cycle Civil Engineering, IALCCE2016 (www.ialcce2016.org) in Delft, the Netherlands from 16-19th October 2016. It will be designed as a forum session on the afternoon of Tuesday

18th October entitled 'Infraction: advancing infrastructure innovations through transnational collaboration'. And on the afternoon of Wednesday 19th October, an international market event is planned to focus on the implementation of resulting innovations.

UPDATE ON INNOVATION PROJECTS

A special factsheet was produced for TRA2016 giving outline information on the nine projects, which can be downloaded from www.infraction.net/calldocuments. Here are some recent selected highlights:



ALTERPAVE (www.alterpave.eu) The regional-based Supply Management Plan (allocated in WP5) has been developed, which looks at the availability of waste within the partner countries and is expected to help stakeholders evaluate the use of alternative materials such as by-products, reclaimed asphalt pavement (RAP), bio-binders, rejuvenators or refined engine oil bottoms. At the same time, one of the two rejuvenators to be used in further stages of the project has been selected. Accordingly, the design of the asphalt mixtures with this rejuvenator and maximised use of RAP and industrial by-Products has just started.



FASSTBRIDGE (fasstbridge.eu) Several meetings and update telephone conferences have been held including a Steering Committee meeting on 12th April in Berlin, Germany, and a flyer has been produced. The requirements of the

Carbon-Fiber-Reinforced Polymer (CFRP) strengthening system have already been defined, and the resin formulation is under progress by COLLANTI. The study of the bridge in Madrid has already started, and an in situ visit conducted by DRAGADOS and VIA-M.



HEALROAD (www.healroad.eu) Asphalt beams have been healed by applying two methods: infra-red lamps and electromagnetic induction. A suitable methodology of healing with both methods has been proposed. The research done so far has discovered that the main mechanism affecting asphalt self-healing is the thermal expansion of bitumen. Different tests are being made to assess the effect of metal in the mechanical properties of asphalt concrete and porous mixtures.



SEACON (seacon.um-sml.com)

In addition to progress in laboratory work and dissemination of preliminary results (documented on the website), the two field demonstrations have been scheduled for construction in late 2016. Most notable is the five-span Halls River Bridge of the Florida Department of Transportation

whose features will be presented at a workshop planned in Tampa, Florida, for early May 2017.



SEE BRIDGE (seebridge.net.technion.ac.il)

The partners have been working steadily to put together the various components of the envisaged bridge modeling system. The Information Delivery Manual is now complete, and the ensuing Model View Definition work well underway. The SeeBIM – Semantic Enrichment Engine for BIM - tool enhancement is complete, and can be tried at vclab.technion.ac.il. A total of 14 highway bridges have been scanned (three in Atlanta, Georgia in collaboration with the Georgia Department of Transportation, 10 in Cambridge, UK, and one in Haifa, Israel in collaboration with Netivei Israel; four have been filmed for photogrammetry - three in Atlanta and one in Haifa) and can be seen on the website. The consortium held its mid-term meeting on 14th-15th July at Georgia Tech in Atlanta, with the participation of Katherine Petros from FHWA, the project's scientific liaison.



► See www.infraction.net for more information or contact Call Manager, Richard van der Elburg at richard.vander.elburg@rws.nl [in](#) [tw](#)

