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RISEN

H2020-MSCA-RISE-RISEN Rail Infrastructure Systems Engineering Network



March 2017 Newsletter



Foreword

Welcome to the March issue of RISEN newsletter.

First of all, we would like to congratulate **Prof Karoumi (KTH)**. He has been featured in an interview with Engineers Australia about his recent innovation in advanced bridge monitoring using sensor network. Well done indeed!

Back to our business, it is very important that our secondment plan is placed smoothly and successfully. **Please kindly ensure that the decoration on EU Participation Portal is updated and the signed declaration is uploaded to the portal within 20 days after the commencement of each secondment.**

We are approaching our first year anniversary in April. If you have any publications, news and events, we would be grateful if you could kindly inform us. The information will be used in the annual progress report due in late April 2017. We will also contact each partner separately in early April for any feedback.

Best wishes and please keep tweeting,

RISEN Coordinator

Dr Sakdirat Kaewunruen, the University of Birmingham, UK.

www.risen2rail.eu



RISEN helped solving NetworkRail Drainage Challenges



RISEN UOB Team participated in the NetworkRail Drainage Challenges Workshop. This workshop was conducted at Coventry Training Facility of NetworkRail. A series of presentations and discussions to generate collaboration among industry partners and academia were a key highlight in the workshop. RISEN team had also provided a recommendation and offered to collaborate with NetworkRail in the area of risk-based inspection of track and drainage for enhancing predictive track maintenance.

RISEN planned to help improve Dubai transport systems

RISEN UOB Team (Dr Kaewunruen) visited UOW in Dubai and gave a presentation on railway innovation. The visit was aimed to collaborate with UAE researchers to improve transport systems. This visit was kindly sponsored by Newton Fund from British Royal Academy of Engineering.



RISEN UOB Team visited Indonesia



RISEN UOB Team visited Agency for the Assessment and Application of Technology (BPPT), Universitas Pembangunan Jaya and University of Indonesia in Jakarta. The visits were to disseminate the research outcomes and to build relationships with Indonesian government and universities. A number of presentations and talks were conducted to provide research information based on RISEN and railway engineering innovation. The visit was kindly sponsored by Newton Fund from British Royal Academy of Engineering.

RISEN Team invited to 12th Annual Concrete Conference



RISEN UOB Team (Dr Kaewunruen) was invited to attend and give an invited presentation at 12th Annual Concrete Conference in Cha Am, Thailand between 15 and 16 February 2017. The talks were focussed on the applications of low carbon cement and concrete and sustainable and self-sensing concrete in railway industry. The talks were extremely well received with over 500 audiences from industry, government and academia. The printed booklets were highly sought after. The low-carbon session and the trips were kindly sponsored by Newton Fund from British Royal Academy of Engineering.

RISEN Team invited to Newton Fund Workshop on Geopolymer

RISEN UOB Team (Dr Kaewunruen) was invited to give a presentation on recent research in railway engineering innovation at Kasetsart University in Bangkok, Thailand. The presentation involves current research funded by H2020 RISE RISEN Project and the research trend in railway industry. The talk also discussed railway matter in Thailand and the potential collaboration to disseminate RISEN outcome to Thai railway sectors. The talk has also enabled a new joint project (funded by NERC) to investigate transport resilience in Thailand. Dr Jaroszowski will spend a couple weeks at Kasetsart University in March to interview experts from various authorities for the project.



KTH RISEN researchers in Sweden

KTH RISEN Coordinator in Sweden are rigging up the country's bridges with multiple sensors that allow early detection of wear and tear. Congratulations to Prof Raid Karoumi from KTH to be featured on Engineers Australia's crEAt Magazine. The magazine is very popular and widely read by over 100,000 engineers and technologists in Australia and New Zealand. His work on innovative railway bridge monitoring has inspired many of readers.

RISEN participated in Climate Change Adaptation Workshop

RISEN UOB team participated in climate change adaptation workshop. The workshop aimed to help researchers improve resilience of transport and urban mobility infrastructure. The practical case of Rio de Janeiro was demonstrated as an example in vulnerability and sensitivity identification. RISEN UOB Team had exchanged our research outcomes with the Brazilian researchers from the Federal University of Rio de Janeiro and built relationships for future research dissemination.



News and Events (please kindly submit your news, marketing and event items to s.kaewunruen@bham.ac.uk)

In July 2017, Polytechnic University of Valencia in Spain will proudly host the second RISEN ECR Training Workshop to provide training in public speaking and engagement, research commercialisation skills, intellectual properties and open access publication strategies for RISEN young researchers and scholars. If you would like to participate, please send an e-mail to RISEN Project Researcher Chayut Ngamkhanong (chayut.ngam@gmail.com). The deadline for registration is June 1, 2017. About 20 registrations will be accepted.