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RISEN

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



November 2018 Newsletter



Foreword

Welcome to the November issue of RISEN newsletter.

We hope this newsletter finds you well and happy. Again, our monthly update shows strong performance of secondments in Year 3, totalling to **over 80%** by April 2019. Please kindly declare the actual secondments on 'EU Participation Portal' within 20 days after the start of the secondment in order to assure that the budget can be allocated to the secondment in time. Please note that if any European partner wishes to release early or to take more secondments, please do not hesitate to let us know.

We are currently finalising an edited book proposal 'Best Practices Handbook of Rail Infrastructure Resilience', to be published by Elsevier by late 2019. In a couple of weeks, we will send invitations to our European partners as well as international partners to help take part in the book development. The book will be archived on both Scopus and Web of Science and indexed on DOAJ. A green open access copy will be archived on UoB open data server, in compliance with Art. 29.2 of Grant Agreement.

Another edited book proposal 'Best Practices Handbook of Advanced Rail Condition Monitoring' is being drafted for possible publication in 2020. If you have any suggestion or advice, please feel free to contact **Prof Stefano Bruni** or RISEN coordinator.

We are glad to reaffirm that our scientific impacts have significantly outgrown the target initially set for 2020. We would like to sincerely thank all partners, friends and supporters who kindly help us get to this point. According to European Commission's Open Science Platform 'OpenAIRE', it is believed that RISEN is in the **Top 1%** of all EU projects in terms of scientific impacts. Hopefully, this momentum will bring us more influence and research funding in the near future.

Finally, we have excellent feedbacks from our ECRs seconded at the University of Illinois at Urbana Champaign (UIUC). We will interview them for RISEN Youtube Channel shortly.

Best wishes and take care,

RISEN Coordinator



Berkeley UNIVERSITY OF CALIFORNIA



Dr Sakdirat Kaewunruen, the University of Birmingham, UK; Twitter: @risen2017, YouTube Channel: ['RISEN2Rail'](#) URL: www.risen2rail.eu

Invited lectures in China and Thailand

Dr Kaewunruen (RISEN Coordinator) was invited to give a guest lecture on the topic: "Reliable and Resilient Transport Infrastructure towards Smart and Sustainable Urban Systems" on Monday 5th November 2018 at Tsinghua University, China Academy of Railway Sciences, and Beijing Jiaotong University in Beijing, China; and on Wednesday 8th November 2018 at Chulalongkorn University and Siam Cement Group PCL. in Bangkok, Thailand. The lectures highlighted collaborative projects in order to promote and encourage further collaboration in research, development and innovation in improving safety, reliability, resilience and sustainability in transportation and transit systems. The collaborative research is aligned with United Nation's Sustainable Development Goals. The lecture involved a wide coverage of timely issues on railway track technologies and innovations focusing on broad aspects of rail infrastructure in order to address global grand challenges and UN's sustainable development goals with great social and economic importance. The presentation also provided highlights of world-class research and education at the University of Birmingham, U.K.



RISEN TUT gave presentations at UIUC

Visiting RISEN Scholars Riku Varis & Tiia Lopenen from Tampere University of Technology (TUT) gave a presentation for the prestigious Hay Seminar Series entitled 'Railway Track Superstructure Research at Tampere University of Technology, Finland' at the University of Illinois at Urbana-Champaign. After the seminar, there was a group discussion between RISEN researchers and other railway researchers from USA, Japan, Taiwan, and other nations at RailTEC at the University of Illinois at Urbana-Champaign.



RISEN researchers participated in UKRRIN 2018

RISEN researchers participated in UKRRIN annual conference 2018 held at Kings Place, London. The conference included over 200 academic and industry representatives coming together to discuss and showcase partnerships to increase innovation, help bring products to market, and allow the rail industry to grow and thrive in uncertain times. The UK Rail Research and Innovation Network (UKRRIN) is a partnership between the rail industry and eight leading UK Universities delivering four world-class Centres of Excellence including Birmingham Centre for Railway Research and Education (BCRRE).



Chinese Academy of Railway Sciences (CARS) warmly welcomed RISEN coordinator

Prof Ruilin You from Chinese Academy of Railway Sciences (CARS) warmly welcomed Dr Kaewunruen, RISEN coordinator for a technical visit and laboratory tour. The meeting aimed to make positive discussions on railway research and future collaboration. Based on this discussion, a RISEN ECR will second at Tsinghua University and further collaborate with CARS. Note that, Prof You was an academic visitor at the University of Birmingham in 2017 and he has carried out significant research on prestressed concrete sleepers as part of a RISEN sub-project.



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

- We are very pleased to announce that the 12th World Congress on Railway Research - WCRR 2019 will be held in Tokyo, Japan, at the venue called 'Tokyo International Forum' from October 28 to November 1, 2019 hosted by the Railway Technical Research Institute (RTRI), of the Japan Railways (JR) group. For details, please see: <http://werr2019.org/cfp.html>
- RISEN will proudly host a special session on railway infrastructure engineering at the Congress on Numerical Methods in Engineering (CMN 2019), which will be held in Guimarães, Portugal, in July 1-3, 2019. For more information, please visit <http://www.cmn2019.pt/>