



UNIVERSITY OF BIRMINGHAM



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

U. PORTO

NTNU Norwegian University of Science and Technology



VYSOKÉ UČENÍ TECHNICKÉ V BRNĚ



RISEN

September 2019 Newsletter

Foreword

Welcome to the September issue of RISEN newsletter.

On behalf of RISEN, we would like to sincerely thank all of our friends, collaborators, partners, fellows, researchers and various other people, who make this project a great success. We sincerely apologise in advance if we have caused any inconvenience and hopefully we can collaborate again soon. We are now having around 6 to 7 months before the end of RISEN in March/April 2020. Our secondment progress so far is 88% to date so please kindly make sure that we declare the actual secondments on 'EU Participation Portal' within **20 days** after the start of the secondment.

We are very happy to say that the last RISEN ECR Training Workshop was successfully hosted by Tampere University, Finland in August. Special thanks to **Heikki Luomala** for his kind hospitality. Also, big congratulations to all of the winners for the Best Presentation Awards.

We have commenced the work on our edited book '**Best Practices Handbook of Rail Infrastructure Resilience**', to be published by Elsevier. The publishing server has been set up. The electronic template will be sent to you to upload your contribution. The deadline for the draft Book chapter will be around January 2019. Another book '**Best Practices Handbook of Advanced Rail Condition Monitoring**', will be published by Frontiers. The deadline is around February 2019. Please submit to <https://www.frontiersin.org/research-topics/10545/best-practices-on-advanced-condition-monitoring-of-rail-infrastructure-systems>.

We are now preparing to finalise our project. We have successfully completed most of scientific deliverables. If you have any administration enquiry, please kindly let us know ASAP. Please assure that you meet all administration requirements specified by Grant Agreement (e.g. timesheets, evidence of secondments such as boarding passes, accommodation receipts, and so on). A minor grant amendment to append LORAM as a key partner of RISEN will be soon finalised to enable our ex-RoadScanner researchers to continue working within RISEN. Finally, please note that all RISEN secondees, researchers and staff are the alumni of the prestigious Marie Skłodowska Curie Action. Please register to get involved & shape scientific policy in your communities via <https://www.mariecuriealumni.eu/>.

Best wishes and please take care,

RISEN Coordinator

Dr Sakdirat Kaewunruen, the University of Birmingham, UK; Twitter: @risen2017, YouTube Channel: '**RISEN2Rail**' URL: www.risen2rail.eu



RISEN ECR Training Workshop 2019

On 13-14 August 2019, Tampere University successfully hosted the last RISEN ECR Workshop and International Symposium on Rail Infrastructure Systems Engineering (i-RISE 2019). On the first day, we had a special discussion panel about future career options and various successful pathways for ECRs by high profile speakers (i.e. CEO, senior governmental officer, and university professors). It was followed by many research presentations for i-RISE 2019. On the second day, our RISEN ECRs had successfully engaged with over 20 local school students (12-14 years old) to help them gain some understanding in STEM and fundamental knowledge in railway engineering. Our ECRs had demonstrated a creative idea by using an easy and cost-effective equipment to build MagLev prototypes for student competitions.



The activities had attracted and engaged the students extremely well. All school students were very excited. The event was found to be very successful. Finally, big congratulations to the best presentation winners: **Riku Varis** (Tampere University), **Zihua Pan** (Norwegian University of Science and Technology) and **Chayut Ngamkhanong** (University of Birmingham). We would like to thank **Heikki Luomala**, and **TU team** for their kind and superb hospitality.

International Workshop on Plasticity, Damage and Fracture of Engineering Materials

Dr Kaewunruen (RISEN Coordinator) presented his new work to the plenary hall at the International Workshop on Plasticity, Damage and Fracture of Engineering Materials held in Ankara, Turkey from 22 to 23 August 2019. The workshop was co-organized by the Middle East Technical University and TOBB University of Economics and Technology. The workshop intended to provide an open platform for discussion on new directions in prediction and prevention of failure of engineering materials. The real life problems and the inadequacy in standards for railway track components were also discussed. In addition, Dr Kaewunruen has recently been elected to the fellow member of Engineers Australia (FIEAust).



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

- Congratulations to our UoB RISEN alumnus: **Dr Serdar Dindar**, who completed his PhD viva successfully in early September. He will be appointed as an Assistant Professor of Civil Engineering in Turkey shortly.
- RISEN will proudly host a mini-symposia on Computational Mechanics and Dynamics in Transport and Rail Infrastructure at The Asia Pacific Congress on Computational Mechanics, which will be held in Taipei, in December 18-21, 2019. For more information, please visit <http://www.apcom2019.org>
- RISEN is hosting a special issue on Extreme Sciences and Engineering featured on Applied Sciences (ISI/Scopus Indexed). Please visit https://www.mdpi.com/journal/applsci/special_issues/Extreme_Sciences_Engineering.
- RISEN is hosting a special issue for book publication on Best Practices on Advanced Condition Monitoring of Rail Infrastructure Systems, featured on Frontiers in Built Environment (Scopus indexed). Please visit <https://www.frontiersin.org/research-topics/10545/best-practices-on-advanced-condition-monitoring-of-rail-infrastructure-systems>.
- RISEN secondees, researchers and staff are all invited to join The Marie Curie Alumni Association (MCAA) supported by the European Commission to promote networking between past and current beneficiaries of Marie Curie research funding. Please register to get involved & shape scientific policy in your communities via <https://www.mariecuriealumni.eu/>.