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RISEN

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



VYSOKÉ UČENÍ TECHNICKÉ V BRNĚ



## July 2019 Newsletter

### Foreword

Welcome to the July issue of RISEN newsletter.

We really hope this newsletter finds you very well and healthy during this summer. Please do not forget the sunscreen plus sunglasses as we are facing various heat waves. These adverse events are indeed the supporting evidences for RISEN. We are happy to say that **RISEN Summer Doctoral Course** was successfully hosted by **KTH** in June. Special thanks to **Prof Raid Karoumi** for his kind hospitality.

It is important to note that we are in the *last year* of the project. We have about **8 months** left to complete (until end of March 2020). Our secondment progress so far is **87%** 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.

For our edited book '**Best Practices Handbook of Rail Infrastructure Resilience**', to be published by Elsevier, the publishing server has been set up. The electronic link will be sent to you to upload your contribution. Another book '**Best Practices Handbook of Advanced Rail Condition Monitoring**', will be published by Frontiers. Please submit to <https://www.frontiersin.org/research-topics/10545/best-practices-on-advanced-condition-monitoring-of-rail-infrastructure-systems>.

For RISEN ECRs/ERs, the **ECR Training Workshop** will be organised by **TUT** between 13<sup>th</sup> and 14<sup>th</sup> August 2019 in Tampere, Finland, together with our annual research conference (i-RISE). **High profile speakers** (i.e. CEO, senior governmental officer, and university professors) have confirmed our invitation to have lively discussions with ECRs in the event. Special thanks to TUT for the active support for this event. If you are interested, please kindly let us know ASAP.

As you may already know, our partner RoadScanner's Rail Division has merged with LORAM. We are currently working hard for a minor grant amendment to append LORAM as a key partner of RISEN, enabling our ex-RoadScanner researchers to continue working within RISEN. We hope this minor grant amendment will be finalised by August 2019. 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, enjoy your well-deserved summer holidays, and please take care,

**RISEN Coordinator**

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



RISEN €1.2m

## RISEN Doctoral course on “Advanced Structural Dynamics, Modelling and Measurement” in Stockholm, Sweden

**RISEN KTH** successfully organised the RISEN doctoral course “Advanced Structural Dynamics, Modelling and Measurement”. The course was organised by leading experts within the fields of Structural Dynamics, Signal Analysis, Experimental Modal Analysis and Operational Modal Analysis from KTH. This RISEN course was from 24<sup>th</sup> to 28<sup>th</sup> June 2019. The event was successfully organized and extremely well received by 15+ RISEN participants. The course consisted of the lectures focusing on basic and advanced structural dynamics of railway bridges, soil-structure interaction, & computational fluid dynamics. The participants also had an opportunity to do measurement on a footbridge structure. The doctoral course was followed by RISEN research seminar presented by RISEN UOB and UOP. Very positive feedbacks during the event were obtained from RISEN and other students. We would like to thank **RISEN KTH** Team for their kind and superb hospitality.



## Thai Academics visited UOB RISEN Team

On 1<sup>st</sup> June 2019, 20 Thai senior researchers from National Science and Technology Development Agency (NSTDA) and lecturers from various Thai universities visited UOB RISEN Team to discuss potential collaboration on railway research and education. Moreover, a RISEN research seminar was held at the University of Birmingham. The presentation entitled “Influence of the root cohesion on vegetated soil slope stability” was given by Prof. Suched Likitlersuang, from Chulalongkorn University, Thailand.



## Keynote speech at “Geotechnics for High Speed Corridors- GHC 2019”

From 24<sup>th</sup> to 27<sup>th</sup> July 2019, RISEN coordinator, Dr Kaewunruen gave a keynote speech at International Conference on Geotechnics for High Speed Corridors in Thiruvananthapuram, Kerala, India. The conference was organized by Indian Geotechnical Society, Thiruvananthapuram Chapter and College of Engineering Trivandrum. It aimed to highlight the latest Geotechnical innovations and challenges in Transportation projects. The conference provided a platform for academicians, research scholars, practicing engineers and students working in the area of Transportation Geotechnics to interact and share their experience and knowledge. Moreover, this conference provided an opportunity for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find partners for future collaboration.



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

- The last ECR Training Workshop will be organised by TUT between 13 and 14 August 2019 in Tampere, Finland, together with our annual research conference (i-RISE). For more information, please contact Heikki Luomala ([heikki.luomala@tuni.fi](mailto:heikki.luomala@tuni.fi)) or Chayut Ngamkhanong ([cxn649@bham.ac.uk](mailto:cxn649@bham.ac.uk))
- 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](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>.