



UNIVERSITY OF BIRMINGHAM



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

U. PORTO

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## May 2019 Newsletter



EVOLEO TECHNOLOGIES We evolve for you...

### Foreword

Welcome to the May issue of RISEN newsletter.

This period is the busiest time for many academic partners in Europe as student exam markings are due shortly. We really hope you could cope with this time well.

It is important to note that we are in the last year of the project. We have about 10 months left to complete (until April 2020). Our secondment progress so far is 72% 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.

You all have already been invited to contribute for an edited book 'Best Practices Handbook of Rail Infrastructure Resilience', to be published by Elsevier. The book publishing server will be set up by Elsevier shortly. 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>.

**RISEN Summer Doctoral Course** will be hosted by KTH from 24 to 28 June 2019 in Stockholm. About 15 RISEN ECRs/ERs will join this course. For RISEN ECRs/ERs, the **ECR Training Workshop** will be organised by TUT between 13 and 17 August 2019 in Tampere, Finland, together with our annual research conference (i-RISE). This is our last workshop and it will feature career options and various successful pathways for ECRs. **High profile speakers** (i.e. CEO, senior governmental officer, and university professors) have already accepted 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.

We were invited to attend *Frontiers Forum 2019* in Switzerland between 10 and 12 May 2019. One key notable highlight is the new OA policy, *Plan S*, which will mandate all European research from 2020. RISEN is on the right track and 100% of RISEN's research outcomes are **open access** in accordance with GA Article 29.2.

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 communities via <https://www.mariecuriealumni.eu/>.

Best wishes and 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)



65+

Journals

85+

Conferences

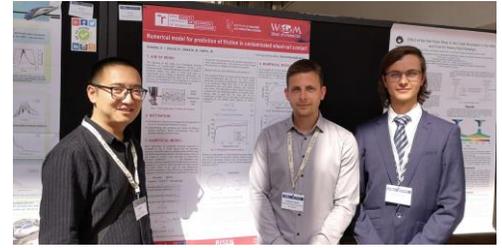
RISEN €1.2m

open sciences



## RISEN BUT participated in Wear of Materials 2019

From 14 to 18 April 2019, Dr Radovan Galas and PhD student Daniel Kvarda from Brno University of Technology in Czech Republic participated and gave a poster presentation in the Wear of Materials conference in Miami, USA. Lubing Shi also gave an oral presentation on "*The wheel/rail adhesion restoration and damage in the application of alumina particles*" stemmed from the joint research between BUT and Tribology Research Institute, Southwest Jiaotong University, China.



## Global platform for disaster risk reduction 2019 in Geneva, Switzerland

RISEN researcher Chayut Ngamkhanong attended the Global Platform for Disaster Risk Reduction organized by UN office for Disaster Risk Reduction (UNDRR), held in Geneva, Switzerland from 13 to 17 May 2019. This event is the world's foremost gathering on reducing disaster risk and building resilience. The participation of representatives from a wide range of sectors of governments and stakeholder groups reflects the shift enshrined in the Sendai Framework from managing disasters to managing disaster risk. RISEN will also contribute to the achievement of the sustainability outcome by substantially reducing disaster damage to rail infrastructures and disruption of basic transport services, through the improvement of their resilience.



## Invited lectures in South Korea and China



RISEN coordinator, Dr Kaewunruen, was invited to give a guest lecturer at the Institute of Construction and Environmental Engineering, Seoul National University (SNU) on 16<sup>th</sup> May. He gave a presentation on the topic entitled "*Sustainability and Resilience of Transportation Infrastructure Systems*". The lecture was successfully organised and well received by SNU's researchers and students. In addition, on 18<sup>th</sup> May, Dr Kaewunruen visited Tsinghua University, our international partner and had a good discussion with Tsinghua's researchers and Mr Li, RISEN researcher from UOB seconded at Tsinghua, for further research collaboration. In addition, a short visit to Beijing Jiaotong University was carried out to discuss potential collaboration in the future.

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

- RISEN KTH will proudly organise the course "**Advanced Structural Dynamics, Modelling and Measurement**". The course is organised by leading experts within the fields of Structural Dynamics, Signal Analysis, Experimental Modal Analysis and Operational Modal Analysis. The course will be given in two concentrated blocks (24<sup>th</sup>–27<sup>th</sup> June and 12<sup>nd</sup>–15<sup>th</sup> August 2019) with lectures and one field test on a bridge in Stockholm. For more, please visit <http://www.risen2rail.eu/files/Advanced%20Structural%20Dynamics.pdf>
- RISEN TUT is pleased to invite you to the 21<sup>th</sup> Nordic Seminar on Railway Technology. The seminar will take place on 9-10 June 2020 at Solo Sokos Hotel Torni Tampere in Tampere, Finland. For more information, please visit <http://events.tuni.fi/nrs2020>
- 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>.