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RISEN

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



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July 2016 Newsletter



Foreword

Thank you all very much and Congratulations! Welcome to the first issue of RISEN newsletter.

RISEN has been kicked off in April 2016, and will span over 4 years until March 2020. It is now very important for all of us to be aware that we need to ensure that the secondments and research activities meet our proposed targets. These targets can be easily found in the Grant Agreement in H2020 Research Participation Portal.

The process for secondments is simple. Please send the topic of research with brief technical details, plan, duration and proposed international or inter-sectorial partner to RISEN coordinator (s.kaewunruen@bham.ac.uk). We will try our best to coordinate with relevant WP leader and to locate potential and suitable host for you. Please give us some early warning so that we could help you diligently.

The first event, our RISEN Early Career Researcher Training Workshop, held at the University of Birmingham, UK in June 2016 was successfully organised and we were very glad to see our ECRs enjoying the sun in Birmingham. More details can be seen later in this newsletter. The next ECR Training Workshop will be held at UPV in Spain. We will inform you more details here in the future.

With kind support from Professor Zhai from Southwest Jiaotong University, we plan to arrange a mini-symposium for RISEN at the first International Conference on Rail Transportation in Chengdu, China from 10 to 12 July 2017. Please visit <http://www.icrt-swjtu.org/> for more information.

Congratulations to our international partner, Professor Indraratna from University of Wollongong. He will deliver the *Inaugural Proctor Lecture* at the 3rd International Conference on Transportation Geotechnics in Portugal between 4 and 7 September 2016. More details can be found here: <http://www.sciencedirect.com/science/article/pii/S2214391216300174>.

On the final note, we welcome any contribution (news, announcement, publications, upcoming events, blogs, tips, movements, etc.) from all of our European and International Partners for the next issue. Please kindly send them to s.kaewunruen@bham.ac.uk.

Best wishes, enjoy your summer and chat soon in the next issue of RISEN Newsletter.

RISEN Coordinator

Dr Sakdirat Kaewunruen, the University of Birmingham, UK.



RISEN-ECR Training Workshop

(by Y Takeuchi): Between 27 and 29 June 2016, the University of Birmingham proudly hosted the inaugural **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. 20 participants from our network attended the workshop.



The ECRs engaged in public speaking exercises including a 10-minute presentation on their research project assessed by Dr Jaroszowski, explored around Birmingham in an orienteering exercise, and prepared then presented two railway-based STEM activities towards Year 9 students at the local secondary school in Birmingham; **Swanshurst School**. The project presentations were held on the second day where every participant presented an overall look into their various research theses, from MRes to PhD and even an industrial presentation by Roadscanners Oy. All of the participants successfully passed the workshop with excellent marks, with special congratulations to **Matteo Caccialanza** (POLIMI) and **Sarah Rådeström** (KTH) for winning the 'Best Presentation' award. The training certificates were presented to all participants by Professor Anson Jack, Director of Birmingham International Rail Academy.



The STEM activities took place on the third and final day of the RISEN workshop and included investigating drag forces on various shapes of trains using a scale-model wind tunnel apparatus, and constructing a single-battery maglev train track using coiled copper wire. Thank so much to everyone who attended the 3-day workshop, we hope you had a wonderful time in the UK and hopefully have taken away vital public communication skills from the event. **RISEN** will be holding another workshop session in **Spring 2017**, hosted by the Polytechnic University of Valencia and welcomes all of our networking partners to attend the upcoming workshop.

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

Our first secondment (WP2) will be carried out from January 2017 to January 2018 by Dr Andreas Andersson (KTH) at Southwest Jiaotong University, China. He will work on the area of vehicle-bridge-track interactions. We hope he enjoys the time and delicious dishes in Chengdu! Special thanks to Professor Wanming Zhai to kindly host his secondment.

UK-Thailand Workshop on Low-Carbon Concrete will be hosted at the University of Birmingham, UK from 19 to 20 September 2016. Please contact s.kaewunruen@bham.ac.uk for more details.

InnoTrans is the leading international trade fair for transport technology and takes place every two years in Berlin (by Messe Berlin). The eleventh InnoTrans will take place from 20 to 23 September 2016. Hope to see you all there!

The 4th Rolling Stock Summer School will be held at Lecco by POLIMI in September 2016. For more details, please visit <http://www.polo-lecco.polimi.it/it/eventi/dettaglio-dellevento/article/167/rolling-stock-summer-school-864/>

Dr Kaewunruen (RISEN Coordinator) will visit and give a talk at NYU, Columbia University, University of Illinois, MIT and Harvard from 27 August to 12 September 2016. He will also explore future RISEN expansion at those institutions.

Recent Publications (gold: publicly open; green: open through institutions; joint research)



 Kaewunruen S, Sussman JM and Matsumoto A (2016) Grand Challenges in Transportation and Transit Systems. *Front. Built Environ.* 2:4. doi: [10.3389/fbuil.2016.00004](https://doi.org/10.3389/fbuil.2016.00004)