

TRAIN rig reopening event and 'Train Aerodynamics' book launch

Dear Colleague,

We write to invite you to a special event on Wednesday 19th June at the Hallmark Hotel Derby Midland to celebrate the formal reopening of the University of Birmingham Transient Aerodynamic Investigation (TRAIN) rig facility and the launch of our new book on train aerodynamics.

The TRAIN rig is a unique purpose built testing facility for examining the transient aerodynamics of moving vehicles; with advantages over conventional wind tunnel facilities through the ability to correctly simulate the relative motion between a moving vehicle and the ground/structures or crosswind simulation. The facility has recently undergone a large £1.5 million upgrade as part of the UK Collaboratorium for Research in Infrastructure and Cities (UKCRIC) [project](#). The vision of the UKCRIC is to create, operate and coordinate an (inter)national multi-disciplinary research programme in a partnership between Industry, Government and Academia. The Government has provided £138 million of funding in total for UK national and local infrastructure (such as transport, water, waste, energy and ICT systems) to be fit for purpose for supporting societal development in a changing world. The facility upgrade works at the TRAIN rig include building extension works, developing a crosswind tunnel and increasing instrumentation capabilities.

In addition to the TRAIN rig upgrades, the University of Birmingham Wind Engineering and Vehicle Aerodynamics research group have written a book entitled 'Train Aerodynamics – fundamentals and applications', which will be published by Elsevier in June. The book draws together for the first time internationally leading research on railway aerodynamics to provide a comprehensive overview of train aerodynamics to the benefit of railway engineers, train operators, train manufacturers, infrastructure managers and researchers of train aerodynamics.

The launch event will be held at the Hallmark Hotel Derby Midland, opposite the railway station in Derby, on Wednesday 19th June. The programme is as follows:

4:45 pm – Arrive

5:00 pm – Short presentations describing the UKCRIC project, the TRAIN Rig developments and the new book

6:00 pm - Tours of the TRAIN rig and informal networking – a buffet supper and drinks will be provided.

8:30 pm - Depart

We hope that you will be able to join us for this special event and look forward to sharing our exciting facility and research. We would be grateful if you could please confirm your attendance by the event [webpage](#). In addition, please share this event with colleagues who may have an interest in our vehicle aerodynamics research.

Kind Regards,

Dr David Soper and Prof Chris Baker