

Transport Research Bulletin

Transport Research
Institute Newsletter

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Institute

Welcome to our Christmas newsletter!



TRI continues to grow with recent new project successes such as the EU Horizon 2020 Projects DIAMOND (Prof Wafaa Saleh) on women and data in transport planning and Park4SUMP, on parking (Prof Tom Rye), and a new Rees Jeffreys Road Fund project to test continental zebra crossings on public roads in Scotland. We were sorry to say good bye to research assistants Monika Grigorova and Clare McTigue but pleased to welcome Suzanne Meade and Niaz Gharavi to take their place, with a further new research fellow position to be advertised soon.

TRI staff performed well in the University's recent mini-REF exercise and contributed a quarter of the School's crucially important impact case studies as well as large number of quality publications, with Dr Achille Fonzone and Dr Jonathan Cowie particularly strong in this regard. We congratulate also Faqhrul Islam and Clare McTigue, TRI PhD students until recently, who graduated with their doctorates this November. We look forward to further successes and to working with colleagues inside and outwith the university during 2019.

New appointments

Richard Llewellyn

Richard was appointed Fellow of the Chartered Institution of Highways and Transportation (FCIHT). This is the highest grade of membership awarded by the institution and is only given to those with proven ability who have made a significant contribution to their profession. Richard Llewellyn has been a member of the CIHT since being a student. Since joining, he has actively contributed to the activities of the institution and has been a member of the Scotland committee for over five years. In 2017-18, Richard was committee chair and was responsible for setting up the first CIHT national conference in Scotland.

Keynote speakers and presentations

Prof Tom Rye and Dr Jonathan Cowie

Prof Tom Rye and Dr Jonathan Cowie appeared at the Parliament's Rural Affairs, Economy and Connectivity Committee giving evidence at a stakeholder event on the Transport (Scotland) Bill on 24th October. Coverage of the panel discussions can be found at: <https://www.scottishparliament.tv/meeting/rural-economy-and-connectivity-committee-stakeholder-event-for-transport-scotland-bill-october-24-2018>.

Prof Tom Rye

Prof Tom Rye visited Kocaeli and Izmir in Turkey in September on a World Bank mission as an expert adviser to the cities about their Sustainable Urban Mobility Plans and their public transport systems.



Prof Tom Rye took part in the panel discussion and Q&A session at the 'Rail: North of the Border 2018 event' in Glasgow in September. He made some points about the high cost of rail infrastructure and operations here compared to elsewhere in northern Europe.

Prof Tom Rye delivered a keynote address at the Scotland Policy Conferences Keynote Seminar: Next steps for transport in Scotland - infrastructure, decarbonisation and economic growth on 20th November 2018.

Prof Tom Rye visited Krakow Technical University from 15th-17th October to carry out his duties there as a visiting professor.

Prof Tom Rye was a keynote speaker at a Diputacion de Barcelona (regional government) seminar on intermodality in Barcelona on 18th October.

Prof Adrian Davis

Prof Adrian Davis was invited to speak at the Integrating Transport & Health: research, policy and practice seminar which was held in Cardiff Bay in October 2018. The aim of the event was to identify ways to integrate Transport and Health in research, policy and practice in Wales. Adrian continues in his mission to encourage transport and health to work more closely together in Scotland. Adrian also launched an Essential Evidence 4 Scotland series at an invite-only Transport Planning and Public Health seminar, held at Merchiston Campus on November 22nd. Essential Evidence is a free translation research service to provide practitioners, typically working in local and central government, with de-jargonised summaries of key peer reviewed articles that they otherwise would not know of or have access to (perhaps including some of your papers?) <https://blogs.napier.ac.uk/tri/essential-evidence-scotland/>

Prof Tariq Muneer

Scottish Power Energy Networks organised a think-tank meeting in Edinburgh in September 2018. Invitees included politicians, policy makers, bus operators, engineers and academics. Professor T Muneer was invited to give his views related to the introduction of electric vehicles within the City of Edinburgh fleet and the relevant implications.

Dr Nazan Kocak

Dr Nazan Kocak took part in the Parliamentary Advisory Council for Transport Safety (PACTS) Conference: Streets Safe for Walking as a panellist this month to share her experience in street design. Naz was one of the key officers who led the development of the Edinburgh Street Design Guidance and the detailed technical manual that supports it.

Dr Nazan Kocak was also invited to represent Park4SUMP at the Polis Annual Conference in Manchester on 21st November to promote embedding parking control and management into cities' SUMP.

Dr Mark Taylor

Dr Mark Taylor presented research findings and a workshop on instrumented bicycles at the 1st Annual Meeting of the Cycling Research Board in Amsterdam in November 2018. Mark's research concerning cyclist vibration exposure, public health and active travel is attempting to demonstrate a clinical need to improve Scottish cycling infrastructure. Through developing low-cost electronics packages mounted on bicycles, infrastructure could be managed in a more sustainable manner and improve safety standards.

Dr Achille Fonzone

Dr Achille Fonzone was interviewed about the Transport Scotland strategy on Connected and Autonomous Vehicles (CAV) in November. During the interview, Dr Fonzone stressed that the deployment of CAV may lead to an increase of vehicle miles travelled and have a negative impact on congestion if automated cars will be used in the future in the same way the non-automated cars are used at the moment. Therefore he suggested that Scotland should invest not only on the development of the technology but also on the development of policies and services to induce shared



ownership and shared ridership of CAV. Sayed Faruque, one of TRI PhD students, is working on the topic under the supervision of Dr Fonzone, Dr Fountas and Professor Rye.

At the CAV Scotland event at the end of October, the Scottish Government announced its ambition to be at the forefront of the CAV revolution. Transport Scotland is working with KPMG on in the development of a CAV Strategy for Scotland, to be published in the first half of 2019.

Dr Jonathan Cowie

On 1st November the Start Conference of the Interreg Surflogh project (of which Dr Jonathan Cowie is project lead at TRI and working with SEStran) brought together representatives of major international organizations and city architects, stakeholders from the transport and retail sectors, urban developers, universities and government authorities in Groningen. All joined forces to share experience and new ideas on much needed smart and sustainable solutions for last mile delivery in cities. The focus of the project is the optimization of the interaction between the hub and the urban logistics system, promoting both efficient and sustainable logistics in urban areas in smaller and medium-sized cities and city networks. More information can be found at: <https://northsearegion.eu/surflogh/news/what-a-great-start/>

Dr Grigorios Fountas

Dr Grigorios Fountas was appointed as a Paper Review Coordinator in the Transportation Research Board (TRB) Standing Committee on Statistical Methods (ABJ80).

PhD students



*Clare McTigue and Faqhrul Islam
graduating in November 2018*

Mohamed Jama Mohamed

TRI PhD Researcher - Mohamed Jama Mohamed, participated in and presented a research paper at WCTR SIG2 (World Conference in Transport Researches) workshop in September at Vienna University of Technology. The paper was titled "UberPOOL Services – Approaches from Transport Operators and Policy makers in London". This was based on the findings from recent research that looked at impacts of ridesourcing services on public transport, and involved interviews with 30 transport policy makers, experts, operators and innovators.

Mohamed also undertook a two-week study visit to Stockholm, Sweden as part of the MISTRA SAMS programme led by KTH and VTI. In addition to learning about the progress of MISTRA SAMS programme and reviewing recent publications from the programme, Mohamed undertook follow up on his research data collected in 2017 in Sweden to understand if there has been any changes or updates to Stockholm's approach on managing and regulating ridesourcing services.

Mohamed also delivered a lunch-time seminar in October 2018 at KTH about his research progress and initial findings from recent Uber user surveys, which was very well received.



New projects

- Prof Tom Rye has won a new project funded by Rees Jeffreys Road Fund, led by Transform Scotland, to test continental zebra crossings (without belisha beacons or zig zags) on public roads in two local authority areas in Scotland.
- Prof Tom Rye has won a new project with the Swedish K2 National Public Transport Centre, funded by them, to look at “Policies for Reducing Car Traffic and their Problematization” in north west European local and regional public authorities.
- We have also won a new project on ‘Uneven Span Greenhouse integrated Semitransparent Photovoltaic Thermal (GiSPVT) System for Agricultural Applications.’ Professor G N Tiwari, a true solar pioneer of India is the lead investigator. Lead Implementing Organization is Jamia Millia Islamia University, Delhi (Lead investigator: Professor G N Tiwari) Partnering Organization: Edinburgh Napier University, Edinburgh, UK (co-investigator: Professor Tariq Muneer).
- Dr Grigorios Fountas won a proposal in Edinburgh Napier University’s internal research funding competition. ‘Analysis of the effect of lighting characteristics on motor vehicle accident injury severities using a zero-inflated hierarchical ordered probit approach.’
- Prof Wafaa Saleh won a new EU Horizon 2020 project DIAMOND. Current transport systems do not sufficiently take into account physical and social characteristics of women in the design of products and services, and in fostering women’s employability in the industry. Technologies such as data mining and analytics, together with the use of elicitation techniques to gather and analyse information from different stakeholders, allow the generation of actionable knowledge for addressing gender-specific needs for transport decision-making, planning tools and methods. DIAMOND will exploit such technological advances and innovations, to (i) analyse real-world scenarios where these open issues exist, and (ii) take concrete action, to create a fair and inclusive transport system. DIAMOND’s main goal is to turn data into actionable knowledge with notions of fairness, in order to progress towards an inclusive and efficient transport system.

Publications

- Dr Grigorios Fountas had the article “Analysis of accident injury-severity outcomes: The zero-inflated hierarchical ordered probit model with correlated disturbances” published in the journal “Analytic Methods in Accident Research.”

Press releases

- Prof Adrian Davis’ article ‘No trade-off between accidents and keeping traffic moving is the zero sum game’ has been published in the Scotsman on 20th November 2018.



Events

4th Annual Electric Vehicle Event

Prof Tariq Muneer and Yvonne Lawrie organised and hosted a successful Electric Vehicle Event which was held at Edinburgh Napier University's Craiglockhart Campus on 10th October 2018. Michael Matheson, MSP, Cabinet Secretary for Transport, Infrastructure & Connectivity gave the keynote address and praised the university-hosted conference as an "excellent opportunity" to discuss progress towards phasing out the need for new petrol and diesel cars.



The conference continues to be a popular event with delegates from universities, Transport Scotland, local authorities, energy companies, enterprise groups and other organisations attending. Watch out for details of next year's event which will be held on Wednesday 9th October 2019.



Thank you to all our speakers who helped make the event a success.

Upcoming events

Transport Planning & Public Health Seminar

This half-day seminar, headed up by Prof Adrian Davis, will take place on Thursday 22nd November to discuss how we can coordinate and accelerate efforts to improve public health outcomes in the context of road transport in Scotland. The Chief Medical Officer, Dr Catherine Calderwood, will provide the opening address. Presenters will address a number of topics in both the theory and practice of transport and health. Following the presentations, we will discuss and debate what collaborative actions we might undertake in order for Scotland to move forward on road transport and health.

Cycling Industries Europe Innovation Summit

Dr Mark Taylor has been invited to give a keynote presentation on instrumented bicycles and components testing at the Cycling Industries Europe Innovation Summit in association with the Scottish MTB Conference 2018. Developing Mountain Biking in Scotland (DMBinS) will be the lead organiser of this international event. The 2016 conference won the prestigious 'Conference of the Year' at the Scottish Event Awards 2017. DMBinS will be in working partnership with Cairngorms National Park Authority, Scottish Government, Edinburgh Napier University, Mountain Bike Centre of Scotland (MTBCoS), Highlands & Islands Enterprise and the Cairngorms Business Partnership to deliver the conference. The biennial conference will take place on 22nd – 24th November 2018 and will be hosted at the MacDonald Hotel, Aviemore.



2019 STAR Conference – Call for Abstracts



The 15th annual STAR (Scottish Transport Applications and Research) Conference will be held in Glasgow on 22nd May 2019. TRI's Dr Kathryn Stewart is chair of the STAR programme committee and would welcome informal discussion regarding abstract submission. The deadline for the submission of abstracts is 14 December 2018. Details about the conference can be found at: www.starconference.org.uk/

The 9th International (TDM) symposium will be organised and hosted by TRI, and will take place from 19-21 June 2019, at the Hilton Grosvenor Hotel in Edinburgh. Prof Wafaa Saleh chairs the international organising committee. The TDM symposium will provide three days of intellectual exchange of your research findings with leading researchers and professionals in the field. It will be a platform for best practice sharing and networking with these researchers. The symposium promises to bring together the national and international TDM researchers to brainstorm ideas and research findings on TDM theoretical and practical investigations. See our blog for more details: blogs.napier.ac.uk/tdm2019.

Lithuanian Ministry of Transport seminar, Vilnius

Prof Tom has been invited to be a keynote speaker at a Lithuanian Ministry of Transport seminar in Vilnius on 29th November, talking about Sustainable Urban Mobility Plans.

We wish you a healthy, happy Christmas and new year from all of us at TRI!