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# Irish Transport Research Network

hosted by



**School of Architecture, Landscape and Civil Engineering**

## ITRN Conference

**31st August - 1st September 2010**

Register your attendance at  
**ITRN.ie**

### Sponsored by

**smartertravel >>>**

The key sponsor of the Conference is the Department of Transport which is tasked with leading the implementation of the Irish Government's sustainable transport policy, Smarter Travel. Full details of that policy and progress in implementing can be reached on [www.smartertravel.ie](http://www.smartertravel.ie).

**NRA**  
An tÚdarás um Bóithre Náisiúnta  
National Roads Authority

# Preliminary Conference Programme

## DAY 1 - TUESDAY 31ST AUGUST

**08:45** Conference Registration

**09:15** Opening Address

**09:45** Plenary Session - Prof. Roger Mackett  
[Centre for Transport Studies, University College London]

**11:00** Parallel Sessions A:

Public Transport (1) <i>Chair: xxx</i>	The Future for Vehicles <i>Chair: xxx</i>	Transport & Society <i>Chair: Dr. Kieran Feighan [PMS Pavement Management Services]</i>
Bus Rapid Transit, International practice, characteristics and achievements	What shape will the vehicle of the future take?	Transport needs of older people in rural areas
Bus Rapid Transit and Light Rail Transit investment alternatives for Dublin: A case study of the Lucan corridor	Electric vehicles: Infrastructure regulatory requirements	Transport disadvantage and public transport network change in Belfast city
An examination of the feasibility of LRT or BRT in Galway	Private car transport and the 10% RES-T target- quantifying the contribution of EVs and Biofuels	The Irish road network as a delivery mechanism for health, education and employment opportunities
Bus vs. Light Rail - A study on public perception	The use of hydrogen as a fossil fuel extender for Internal combustion engines	Teaching of transport and planning at 3rd level from an environmental perspective
	Electric motorbike energy storage	Exploring the social dimensions of urban cycling culture

**13:00** Lunch

**14:00** Parallel Sessions B:

Public Transport (2) <i>Chair: xxx</i>	Road Materials <i>Chair: Mr. Tom Casey [National Roads Authority]</i>	Smarter Travel (1) <i>Chair: xxx</i>
Development of optimum rapid transit route and cycle routes for Cork city centre	Abatement technologies for road surface run-in	Carbon from car transport undermines sustainability— a prickly problem
Wider economic benefits and appraisal for urban rail schemes in Ireland	Application of terrestrial photogrammetry to modelling and monitoring of Antrim coast morphology	Walkability means what, to whom? Difficulties and challenges in defining walkability
Transport investment strategies and outcomes in Dublin: 1941-2006	Modelling the risk of groundwater contamination from reclaimed asphalt	Cycling promotion in a university context- experiences and opportunities
Risk of attack on public transport systems	Performance assessment of a 14mm stone mastic asphalt containing high quantities of reclaimed asphalt	Car free day: Transport policy intervention could bring social benefit to the community
Investigating the potential for a circle rail line in Dublin	Laboratory prediction of early life asphalt surfacing properties	The potential for origin-based mobility management planning in the GDA
	Investigating the use of hydrated lime to reduce the susceptibility of cold-mix pavement materials	Estimating the potential success of sustainable transport measures in a small town

**16:30** AGM

**19:00** Dinner - Radisson St. Helens, Stillorgan.

## DAY 2 - WEDNESDAY 1ST SEPTEMBER

**09:00** Parallel Sessions C:

Transport Safety <i>Chair: Mr. Harry Cullen [National Roads Authority]</i>	ICT in Transport <i>Chair: Dr. Donnacha O'Connell [UCC]</i>	Smarter Travel (2) <i>Chair: Prof. Zorica Budic-Nedovic [UCD]</i>
Transverse variation in skid resistance - implications on urban safety	Microsimulation for highway bridge congested traffic load modelling	Unsustainable commuting patterns - the legacy of the housing boom in Ireland
Evaluation of the road safety remedial programme and the traffic calming of towns and villages on national roads in Ireland	Reducing whole body vibrations levels in off-road, heavy duty vehicles: a case study with computer modelling results	Job accessibility and the spatial distribution of employment in an urban-rural setting: a case study for the west of Ireland
Accidents on rural roads - for better or worse	Highly dynamic, pervasive monitoring of traffic congestion levels	A methodological framework for the study of household residential location choice and travel behaviour
Effects of varying entrance and observation angles on retro-reflective road lines	Vehicle trajectory projection for road lane detection in image sequencing	Using a multi-criteria assessment approach to identify key sustainable transport system attributes
A decade of research into cross-border enforcement - what is the impact on Ireland	Application of digital elevation models to delineate areas of residual water in highway surfaces	Irish Transport Policy and Sustainability - Delivering a Greener Transport Network
	Short-term traffic flow predictions using neural networks - a comparison of adaptive learning rate algorithms	

**11:30** Plenary Session & Prize Giving

Plenary Address: Prof. Tschangho John Kim

[Urban & Regional Systems, University of Illinois]

“Sustainable Transport in the Information Age - Cross Disciplinary Approaches in Coping with Challenges”

**12:45** Lunch

**13:30** Parallel Sessions D:

Transport & Energy <i>Chair: Dr. Brian O'Gallachoir</i>	Transport & Economy <i>Chair: xxx</i>	Smarter Travel (3) <i>Chair: xxx</i>
Identifying the socio-economic characteristics of CO <sub>2</sub> emitters in the Greater Dublin Area	Airport hinterland and overlap in European and North American transport systems	CASP: Lessons from 40 years of integrated land use and transport plans in Cork
Soft measures—hard numbers	The transport implications for Ireland of the elimination of the Milk Quota Regime in 2015	Searching for sustainable land use and transport policies
Quantifying transport energy efficient savings	Imposing parking charges on non-residential spaces in Ireland	Transportation scenarios - Looking forward and backward in 4 European cities
Quantifying displaced CO <sub>2</sub> emissions from electric vehicles in Ireland	Parking guidelines in Ireland: Are they consistent and are they sustainable?	Managing car dependency - A comparative assessment of city experiences
Climate change and sustainability of Irish roads	Freight transport policies: A way forward?	

\* The Conference Agenda is preliminary and subject to change.