Wednesday 30 Sept
8:30-10 Welcome Address

10:30-12 Session A
Public Transit Surveys
Competition between busways and heavy rail system in South East Queensland, Australia
Barbara T.H. Yen, Wen-Chun Tseng, Corinne Mulley, Lawrence Lan, Matthew Burke and Yu-Chiun Chiou
Valuing Public Transport Service Quality using a Combined Rating & Stated Preference Survey
Neil Douglas
Behavioural findings of observed transit route choice strategies from the farecard data in Brisbane
Neema Nassir, Mark Hickman and Zhenliang Ma

Session B
Forecasts and Models I
2 Forecasting Australian Transport
David Gargett
Idea to impact: Framework for strategic management of investment in road transport research
Mike Shackleton and William Young
269 Forecasting transport demands and mobility in Remote Australia
Nicholas Holyoak, Bruno Spandonide, Michael Dockery, Branko Stazic and Rocco Zito

Session C
Pedestrian Models
213 Sensing and Perception Technology to Enable Real Time Monitoring of Passenger Movement Behaviours Through Congested Rail Stations
Alex Virgona, Nathan Kirchner and Alen Alempijevic
An empirically verified ‘Passenger Route Selection Model’ based on the principle of least effort for monitoring and predicting passenger walking paths through congested rail station environments
Fatma Al Widyan, Nathan Kirchner and Michelle Zeibots
47 Empirical study on pedestrian crowd behaviour in right angled junction
Nirajan Shiwakoti, Xiaomeng Shi, Zhirui Ye and Wei Wang

Session D
Freight
6 Impact of increasing container ship size on container handling productivity at Australian ports
Dr Renée Kidson, Thomas Rutherford, Dr Adam Malarz and Simon O’Mahony
Estimating Australian commodity freight movements: a linear programming approach
David Mitchell and Teddy Kurniawan
Dynamic on-board mass used for monitoring road condition and truck suspensions - Big Data from a widely distributed fleet of trucks.
Roger Sack and Lloyd Davis
Access, amenity, and agglomeration: What can we expect from rapid transit projects?  
Karl Baker and Peter Nunns

The performance and potential of rail stations in and outside freeway medians: the application of a node/place model to Perth  
Courtney Babb, Anthony Duckworth-Smith, Ryan Falconer, Richard Isted, Doina Olaru and Sharon Biermann

Are network planning guidelines based on equal access equitable?  
Corinne Mulley, Liang Ma, Geoffrey Clifton and Michael Tanner

Methodologies for updating parameter values for economic evaluation of road transport projects in Australia  
Clifford Naude, Tariro Makwasha and Ed McGeehan

Application of Streamline in Australian Cities  
Michiel Jagersma, Cameron Reid and Dr Tomas Potesil

What Effect do Queensland’s Major Road Infrastructure Projects have on Traffic Volumes and Growth Rates?  
Wayne Davies

Changes in Cycling Following an Infrastructure Intervention  
Stephen Greaves, Adrian Ellison, Richard Ellison, Chris Standen, Chris Rissel and Melanie Crane

Bike share’s impact on active travel: evidence from the United States, Great Britain, and Australia  
Elliot Fishman, Simon Washington and Narelle Haworth

An artificial bee colony algorithm for the public bike repositioning problem  
Chin Sum Shui and Wy Szeto

High Productivity Vehicle Factors, Commodity Characteristics and Route Choice  
John Dudgeon, Adam Pekol, Neil Findlay and Chris Bull

Insights from the Sydney Commercial Vehicle Video Study  
Shaun Tabone and Qingjian Jiang

Modelling Sydney’s light commercial service vehicles  
Richard Ellison, Collins Teye and David Hensher

The economics of financing and funding public transport projects  
Ben Ellis and Neil Douglas

Economic benefits of park and ride  
Ian Wallis, Julie Ballantyne, Adam Lawrence, David Lupton and Doug Weir

A review and assessment of fare capping as a passenger incentive mechanism for Australia and New Zealand
Reza Chalabianlou, Adam Lawrence and Brian Baxter

**Session B**

**Forecasts and Models III**

276  **Applying Input-Output tables to model freight demand**
     Mende Gorgievski and Adam McCartney

257  **Quality investigation and variability analysis of GPS travel time data in Sydney**
     Ruimin Li, Malcolm Bradley, Matthew Jones and Steven Moloney

168  **Revised vehicle operating cost models for Australia**
     Clifford Naude, Tyrone Toole and Ed McGeehan

**Session C**

**Parking**

171  **A practical application of modelling remote parking behaviour**
     Yun Bu and Tracey Pershouse

141  **Impacts of On-street Parking on Road Capacity**
     Sahan Wijayaratna
     When what's mine isn't yours in collaborative consumption: the politics of parking for car sharing cars.
     Jennifer Kent and Robyn Dowling

**Session D**

**Logistics**

83  **Training the Logisticians of the Future: skill implications of technological changes in the Transport and Logistics industry**
     Gwendaline Jossec and Olivia Shanahan

118  **Modelling Supply Chains as Complex Networks for Investigating Resilience: An Improved Methodological Framework**
     Supun Perera, Michael Bell and Michiel Bliemer

267  **A Proof-of-Concept Framework of Municipal Solid Waste Location**
     Hossein Asefi, Samsung Lim and Mojtaba Maghrebi

**Thursday 1 October**

8:30-10  **Key Note**

10:30-12  **Session A**

204  **Influencing Passenger Egress to Reduce Congestion at Rail Stations**
     Nathan Kirchner, Sonja Caraian, Peter Colborne-Veel and Michelle Zeibots

57  **Public Transport Comfort - An inclusive taxonomy of attributes**
     Robbie Napper, Selby Coxon and Mark Richardson
     Investigating commuter train boarding and alighting dispersal by contemporary agent based modelling techniques.
     Selby Coxon, Tom Chandler and Elliott Wilson

**Session B**

**Forecasts and Models IV**

10  **A workplace choice model accounting for spatial competition and agglomeration effects**
    Chinh Ho and David Hensher
Assessing the effects of long-term travel behaviour changes on travel forecasts
Li Shen, Grace Corpuz and Peter Hidas
The spatial distribution of the travel to work by sustainable transport modes in Australian cities from 2001 to 2011
George Karanfilovski and John Stone

Session C Land Use
Comparing the transit-oriented nature of development around trams to other transit modes in Melbourne
Laura Aston, Graham Currie and Katerina Pavkova
Developing the ‘Ds’ – Predicting mode share from urban structure
Kym Norley
Does the Built Environment Make a Difference in Travel Behaviour
Liang Ma, Corinne Mulley and Liu Wen

Session D Poster Showcase
1:30-3 Session A Current Issues in Public Transit
Estimating trip purposes of transit smart card users using household travel survey data
Takahiko Kusakabe, Takahiro Tsubota and Ashish Bhaskar
Post Evaluation of a Decade of Experience with Jakarta’s Transjakarta
Philip Sayeg
‘Get used to it’ – the economics of Sydney’s Rail Future
Kym Norley

Session B Value of Time Studies
Value of travel time savings for multiple occupant car: evidence from a group-based modelling approach
Chinh Ho, Corinne Mulley, Yoram Shiftan and David Hensher
Working while travelling: what are implications for the value of travel time savings in the economic appraisal of transport projects?
Baojin Wang and David Hensher
Value of Travel Time Revisited-NSW Experiment
Julieta Legaspi and Neil Douglas

Session C Land Use
Shared Space Evaluation: O’Connell Street, Auckland
Auttapone Karndacharuk, Pragati Vasisht and Mitra Prasad
Do restaurant precincts need more parking? Differences in business perceptions and customer travel behaviour in Brisbane, Queensland, Australia
Barbara T.H. Yen, Matthew Burke, Wen-Chun Tseng, Mohammad Ghafoor, Corinne Mulley and Claudine Moutou
Travel plans for new residential developments: Insights from theory and
practice

Chris De Gruyter, Geoffrey Rose and Graham Currie

Session D  Simulation

263  **Modelling and Simulation of Mixed Traffic**

Anique Lenorzer, Jordi Casas, Alex Torday, Mark Brackstone, Rajiv Dinesh, Mohd Zubair, Naveen Sharma and Vinayak Dixit

**Quasi-dynamic model in Aimsun compared to static and dynamic models.**

Jordi Casas, Aleix Ruiz de Villa, Martijn Breen, Josep Perarnau, Margarita Delgado and Alex Torday

**A Network Wide Evaluation of the SCATS Ramp Metering System Using Microsimulation**

Nima Amini, Carlos Aydos, Kasun Wijayaratna, Hanna Grzybowaka and Travis Waller

3:30-5  Session A  Transit Corridor & Network Analysis

**Bringing Better Buses to Brimbank - Implementing Bus Network Reform in Melbourne.**

Chris Loader, Naomi Langdon and Effie Robotis

Superior mobility achieved through an alternative to heavy rail – Melbourne south-east case study

Daniel Knol and John Stone

Evaluation of modal congestion management strategies at Melbourne corridor

Kaniz Fatima and Sara Moridpour

Session B  Travel Surveys

277  **Novel methods in travel survey data collection**

Taha Hossein Rashidi

222  **Informing transport research by the use of social media**

Rosemary Sharples

**COMBINING STATED AND REVEALED PREFERENCE SURVEYS IN STRATEGIC TRANSPORT MODELS**

Doina Olaru and Brett Smith

Session C  Transit and Land use

25  **Does residential property price benefit from light rail in Sydney?**

Corinne Mulley, Chi-Hong Patrick Tsai and Liang Ma

Transforming Adelaide into a city of networked TODs using buses: case study of the Adelaide O-Bahn

Andrew Allan, Munshi Nawaz and Matthew Fielke

The impact of a new bus route on a new suburban development in Melbourne

Alexa Delbosc, Graham Currie, Larissa Nicholls and Cecily Maller

Session D  Traffic Assignment
A Learning Model for Traffic Assignment: Incorporating Bayesian Inference within the Strategic User Equilibrium Model
Tao Wen, Kasun Wijayaratna, Lauren Gardner, Vinayak Dixit and S. Travis Waller

Deploying a dynamic traffic assignment model for the Sydney region
Melissa Duell, Nima Amini, Sai Chand, Neeraj Saxena, Hanna Grzybowska and S. Travis Waller

Genetics of traffic assignment models for strategic transport planning
Michiel Bliemer, Mark Raadsen, Luuk Brederode, Michael Bell and Luc Wismans

Friday 2 October
8:30-10   Session A  Transit Transfers & Connectivity
Improving the connectivity of an urban transit ferry network through integrated regular interval timetabling
Robin Sandell
Grade separations and improving intermodal transfer on mass transit networks
Ian Woodcock and John Stone
Missing the Connection? A case study approach to understanding effective public transit transfers in dispersed cities
Iain Lowrie and John Stone

Session B  Funding Future Transport I
36 Cost Escalation in Road and Rail Transport Projects-NSW Experience
Pravin Raniga
UK City Deals – adapting new thinking to Australia’s growth and funding challenges
Paul Low and Praveen Thakur
13 Capturing Value: New Funding Strategies for Transport Infrastructure
Joe Langley

Session C  Vehicles I
43 Tilting Human Powered Trikes: Designs, Principles and New Developments.
Stephen Nurse, Mark Richardson and Robbie Napper
34 Motorcycles in Developing Asian Cities: A Case Study of Hanoi
David Bray and Nicholas Holyoak
72 Car design for distributed microfactory production
Mark Richardson, Frank Will and Robbie Napper

Session D  Traffic Flow
229 Mapping the capacity and performance of the arterial road network in Adelaide
Kun Zhang and Andrew Excell
44 A Technical Note on the Fundamental Diagram for Freeway Traffic
Jin Zhang and Xiaobo Qu
155 Monitoring real-time travel delay at roadworks
Session A

Energy and Emissions

CO₂ intensity and the importance of country level differences: an analysis of the relationship between per capita emissions and population density

Thomas Longden

Real-world fuel efficiency of light vehicles in New Zealand

Haobo Wang, Iain McGlinchy, Stuart Badger and Sarah Wheaton

Impacts of Policy on Electric Vehicle Diffusion

Dunstan Chris, Josh Usher, Michelle Zeibots and Katie Ross

Session B

Funding Future Transport II

Probabilistic Benefit Cost Ratio – A Case Study

Surya Prakash and David Mitchell

PRICING PRINCIPLES FOR MINOR PORTS

Shanta Hallock

Estimating economic impacts of transport investments using TREDIS: a case study on a National Highway Upgrade Program

Baojin Wang

Session C

Vehicles II

Privacy in the Era of Mobile Sensors: A Case Study on the Data Collection in ADAS and Autonomous Vehicles

Zhitao Xiong, Vinayak Dixit and S. Travis Waller

Unsupervised Detection of Drivers’ Behavior Patterns

Zhang Li and Chen Cai

Electric Vehicles Adoption: Environmental Enthusiast Bias in Discrete Choice Models

Brett Smith, Stephen Greaves, Doina Olaru and Fakhra Jabeen

Session D

Safety

Transport Network Reliability during Disaster Events

Vinayak Dixit

A decision support system for improving the management of traffic networks during disasters

Arash Kaviani, Russell Thompson, Abbas Rajabifard, Ged Griffin and Yiqun Chen

International Air Travel: Safety and Security in a Post-MH Climate

Matthew Beck, John Rose and Rico Merkert

Wrap Up