THE AUSTRALIAN KEY CENTRE IN TRANSPORT MANAGEMENT

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Annual Report 2012
# THE AUSTRALIAN KEY CENTRE
## IN TRANSPORT MANAGEMENT
### ANNUAL REPORT 2012

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THE KEY CENTRE

The Commonwealth Key Centre of Teaching and Research in Transport Management is a joint venture between the Institute of Transport and Logistics Studies in the University of Sydney Business School (ITLS-Sydney) and the Institute of Transport Studies in the Department of Civil Engineering at Monash University, Melbourne (ITS-Monash). The Key Centre was established in 1995; for 17 years the Australian federal government has continued to recognise it as a centre of excellence in teaching and research in all areas of transport management including supply chain management, transport economics, transport engineering, transport planning, and transport modelling.

OUR CONSTITUTION

The primary object of the Key Centre is to undertake graduate teaching, executive programs, grant and contract research and development in the fields of transport and supply chain management studies. The work of the Key Centre also has the following objectives:

- To provide a focus for University work in areas of transport and logistics management and to establish an ambience attractive to those committed to excellence in graduate transport and logistics management programs and research.

- To collaborate, to the fullest extent possible, with other parties having an interest in transport and logistics management studies and its applications.

- To offer specialised training courses, workshops, short courses and seminars on topics of interest in the area of transport and logistics management.

- To seed the development, in Australia, of innovative ideas in transport and logistics policy and professional practice in which the Key Centre plays a role.

These objectives are achieved by the Key Centre through:-

- developing and offering graduate transport and logistics management programs, industry programs, certificates, executive programs and short courses;

- bringing high quality transport and logistics management programs to people outside Sydney and Melbourne (both nationally and globally), as well as widening the offerings of courses within Melbourne and Sydney, through access to courses provided by both ITLS-Sydney and ITS-Monash;

- contributing to Australia’s growing participation in the Asia Pacific region in a leadership role in transport and logistics management;

- widening the range of courses available for middle level professional managers in critical areas of transport and logistics management not currently served;

- equipping managers in all disciplines (i.e., engineering, economics, planning), the small business sector and local government to succeed in the face of technological, economic and institutional change;

- building on the recognised need for stronger links between education of engineers, planners, policy analysts and managers in transport and logistics management;

- undertaking research to develop state-of-the-art management practices and technical methods; and

- transferring the knowledge developed through research to client groups through the Key Centre’s publications, workshops, conferences, seminars, and by participation in networks of transport and logistics stakeholders.
DIRECTOR’S REPORT

2012 marks the 17th year since the establishment of the Key Centre. The individual nodes have a much longer independent history: the transport group at ITS-Monash celebrated their 40th anniversary in 2009 and this year ITLS-Sydney celebrated 21 years as an institute.

On June 30th ITLS-Sydney celebrated its 21 years with over 120 guests at the University. Our special international guests were Professor Juan de Dios Ortúzar (Chile), Professor Jackie Walters (ITLS-Africa, South Africa) and Professor John Preston (United Kingdom). The NSW Minister of Transport (The Hon Gladys Berejiklian MP), The University of Sydney Provost (Professor Stephen Garton), members of the Board of Advice, alumni and past staff were in attendance at this gala occasion. I recommend the videos of the event at http://sydney.edu.au/business/its - especially the video prepared in advance of the event to profile the achievements of ITLS-Sydney over the last 21 years. Such events are refreshing occasions that not only acknowledge our history but also give us a great sense of future. The Vice Chancellor at Sydney (Dr Michael Spence) wrote a message of appreciation which we reproduce in the following section.

The Key Centre has grown to 32 permanent academics and researchers supported by seven professional staff and complemented by 12 honorary and adjunct affiliates and sessional lecturers. We welcomed an unprecedented 13 new staff members in 2012, however, at ITLS-Sydney, we also said farewell to Drs Zheng Li and Ada Suk-Fung Ng and to Bart Ahluwalia, Russell Familiar, Anne Fernando and Christine Prasad. ITS-Monash welcomed Dr Terry Liu to the lecturing staff and Dr Marilyn Johnson and Omid Ejtemai as Research Fellows. ITLS-Sydney welcomed Professor Michiel Bliemer as the Foundation Chair in Transport and Logistics Network Modelling, Professor Michael Bell as the Foundation Chair in Ports and Maritime Logistics, and Dr Rico Merkert as Senior Lecturer in Aviation Management. Mark Raadsen joined as a Senior Research Analyst, Wen Liu as a Research Analyst and Jenny Vicic joined the professional staff support team. On completing their doctorates ITLS-Sydney’s Dr Matthew Beck, Dr Andrew Collins, Claudine Moutou and Chi-hong (Patrick) Tsai became members of our academic and research staff in 2012.

I am extremely proud that in the Australian Research Council’s 2012 Excellence in Research for Australia Initiative both institutes were awarded the highest rating of 5 – above world standard – in their respective research areas, civil engineering – ITS-Monash, transport and freight services – ITLS-Sydney. Underlining this achievement is the award of five highly competitive Australian Research Council grants to the Key Centre in 2012, two Discovery Projects and three Linkage Projects.

Key centre staff continue to be recognised for the contributions they make to industry and government sector activities and their active engagement with the broader community through events such as ITS-Monash’s Research Roadshow and ITLS-Sydney’s Research and Policy Breakfast Workshop and through their contributions to the print and broadcast media.

After 21 years, ITLS-Sydney has been relocated from Burren Street in Newtown to the Central Business District of Sydney at the St James Campus. This move has been welcomed by our staff, visitors and alumni who see it as recognition of our growing engagement with government and industry in the ‘big end of town’.

Finally, I would like to acknowledge the commitment and dedication of Adjunct Professor John Stanley and Dr Alastair Stone in chairing our Boards of Advice. These Boards continue to provide important advice and direction to the Key Centre. Our success is also, in no small measure, due to the extraordinary support we enjoy from Professor Edwina Cornish (Deputy Vice-Chancellor (Research), Monash University) and Professor Tyrone Carline (Acting Dean, University of Sydney Business School). It continues to be my very great pleasure to serve as the Director of the Key Centre. The working environment brings a great deal of joy to me, overwhelmingly due to the team we have. A special thanks to all Key Centre staff.

Professor David Hensher
Key Centre Director
HIGHLIGHTS

KEY CENTRE AWARDED HIGHEST RATING
– WELL ABOVE WORLD STANDARD –
IN ARC’S EXCELLENCE IN RESEARCH FOR AUSTRALIA INITIATIVE

The rating of 5 well above world standard achieved by both institutes is a significant recognition of the excellent quality of the research produced by the Key Centre. ITS-Monash was classified in civil engineering and is one of only two civil engineering departments in Australia to receive this rating. ITLS-Sydney was the only unit in Australia to be awarded the highest rating for research in transportation and freight services. Less than one fifth of units evaluated nationally achieved the highest rating. The evaluation is undertaken by research evaluation committees comprised of distinguished and internationally recognised researchers from Australia and overseas. Their evaluation is informed by four indicators: i) research quality (publishing profile, citation analysis, ERA peer review); ii) research volume and activity (total research outputs, research income, other research items); iii) research application (research commercialisation income, other applied measures); and iv) recognition, based on a range of esteem measures.

An indicator of the high level of research success at the Key Centre is its continued record in winning highly competitive ARC grants. The Key Centre now holds four ARC Discovery Projects, two of which commenced in 2012 – Travel time budget analysis from multi-day and multi-year data Professor Peter Stoper; and Valuation of service reliability and crowding under risk and uncertainty: neglected drivers of demand for public transport Professor David Hensher and Professor John Rose – and five ARC Linkage Projects, three of which were won in 2012 – The development and application of an evaluation framework to assess transport, health and economic impacts of new urban cycling infrastructure Associate Professor Stephen Greaves; Innovative tools to improve stations design and management of crowds in emergency and panic conditions Dr Majid Sarvi, Professor Graham Currie and Dr Nirajan Shiwakoti; and Integrating mobility on demand in urban transport infrastructures Dr Russell Thompson.

PUBLIC ENGAGEMENT

Dr Majid Sarvi presents at ITS-Monash’s inaugural Transport Research Roadshow

In 2012 the Key Centre made a substantial contribution to the public debate in transport. ITS-Monash’s 2012 Ogden Lecture was delivered by the Secretary of the Victorian Department of Transport who explored a range of issues related to land use and transport planning. ITS-Monash presented its inaugural Transport Research Roadshow at the Department of Transport Lecture Theatre introducing transport professionals from industry and government to its research. At ITLS-Sydney’s Research and Policy Breakfast Workshop academics discussed with NSW policy makers how to improve mechanisms for the transfer of research findings into public transport policy. The latest policy developments were presented to an audience from academia, government and industry in the ITLS-Sydney Leadership and Policy Seminar Series; speakers included Greg Martin, Chair of the National Transport Commission, and two Deputy Director Generals of Transport for NSW – Carolyn McNally and Rachel Johnson. In 2012, both institutes initiated LinkedIn sites to inform industry of their activities; ITS-Monash now has over 895 group members (the largest such site of any transport research centre) and ITLS-Sydney has 268 members.

BUILDING LINKS WITH CHINA

2012 saw both Institutes building significant links into China with quality partnerships established with two leading Chinese universities. One anticipated outcome of these partnerships is an expansion of the Key Centre’s networks into the broader market of business activity in China. ITS-Monash embarked on a combined Masters of Transportation Systems with South Eastern University in China. The program commences in 2013 and will be led by Dr Russell Thompson, who will be assisted by Dr Terry Liu. ITLS-Sydney exported its retail and reverse logistics expertise to Shanghai’s Jiao Tong University delivering specialist logistics courses as part of the Modern Logistics and Supply Chain Management EMBA Study Course.
ITLS-SYDNEY CELEBRATES 21 YEARS OF ACHIEVEMENT

On 30 June 2012, ITLS-Sydney celebrated 21 years of achievement at a gala dinner at The Refectory (Holme Building, The University of Sydney) with friends from around the world, including past and present colleagues and collaborators from academia, government and industry, and our students and alumni. There were memorable speeches from honoured guests including the NSW Minister of Transport, The Honourable Gladys Berejiklian MP, and a short video was premiered presenting ITLS-Sydney’s excellence in teaching and research, our international reputation, our engagement with government and industry, and the achievements of our alumni. Professor David Hensher, Founding Director of ITLS-Sydney, received an award for his outstanding contribution from Professor Stephen Garton, Provost and Deputy Vice Chancellor, and presentations were made to our outstanding students in the graduate and industry programs (see the Learning and Teaching section of this report for details).

Professor Michael Spence, Vice Chancellor and Principal of The University of Sydney, had this to say about ITLS-Sydney’s achievement of this milestone:

“With its academic and training program as well as an extensive program of related activities including contract research to industry and government, the Institute of Transport and Logistics Studies epitomises our mission. Their work informs business and industry practice, policy and regulation, both nationally and internationally.

Over the past twenty one years, ITLS has grown to be ranked amongst the world’s top five institutes in transportation and logistics research and education. It works closely with international partners from Shanghai to Santiago and from New York to London and Johannesburg.

One of the strengths of ITLS is that it achieves the delicate balance of focusing on academic objectives, while recognising the need to produce well-rounded leaders of the future who display a diversity of management and specialist skills in transport and logistics management.

ITLS has made a significant global contribution to debate and public policy. I congratulate David Hensher and everyone who has been involved with the Institute for the past 21 years and wish them well for the future.”

GUEST SPEAKERS

Dr Alastair Stone, Chair, ITLS-Sydney Board of Advice

Professor Stephen Garton
Provost and Deputy Vice Chancellor

The Honourable Gladys Berejiklian MP
NSW Minister for Transport

Emeritus Professor Murray Wells
Founding Director, Graduate School of Business
Professor Tyrone Carlin, Deputy Dean, The University of Sydney Business School and Pro Vice Chancellor

Professor Jackie Walters, Director of ITLS Africa
University of Johannesburg, South Africa

Professor Juan de Dios Ortúzar
Department of Transport
Engineering and Logistics, Pontificia Universidad Católica de Chile

VOLVO RESEARCH AND EDUCATIONAL FOUNDATIONS’ CENTRE OF EXCELLENCE ON SUSTAINABLE URBAN FREIGHT SYSTEMS

ITS-Monash is one of six core research partners to form the Centre of Excellence on Sustainable Urban Freight Systems (CoE-SUFS) which will be funded by the Volvo Research and Educational Foundations and hosted at The Rensselaer Polytechnic Institute in Troy, United States. The other partners in the Centre are: Kyoto University, Japan; Technical University of Delft, The Netherlands; Westminster University, United Kingdom; and Pennsylvania State University, United States. Transforming Urban Freight Systems (UFS) requires a global effort of research, capacity building, and institutional change, best done in collaboration with other agents of change. The goal is to jumpstart an integrative and participatory process — involving cities, private sector, and researchers — that leads to the implementation of sustainable UFS paradigms that increase quality of life, economic efficiency, and address environmental justice. Such a holistic goal ensures that all key impacts are considered, as focusing on only one aspect could make things worse in the others. The fundamental quest of CoE-SUFS is to change the course of the UFS from one driven by profit maximization to one that accounts for the externalities produced.
LEARNING and TEACHING

UNDERGRADUATE

ITS-MONASH

UNITS OF STUDY

- Transport and Traffic (CIV2282)
- Road Engineering (CIV3283)
- Transport Planning (CIV4283)
- Transport Systems (CIV4284)

The Traffix Group Undergraduate scholarship is generously offered to up to two students undertaking the Bachelor of Engineering who have an interest in and intend to pursue careers in transport engineering. In 2012 the scholarships were awarded to Dimuth Gammampila who received financial assistance and a 12 week work placement with the Traffix Group. Over 40 undergraduates also undertook honour’s projects as part of the units CIV4210 Project A and CIV4211 Project B under the supervision of Alexa Delbosc, Professors William Young, Graham Currie and Geoff Rose, and Drs Nirajan Shiwakoti and Majid Sarvi.

POSTGRADUATE COURSEWORK

ITS-MONASH

UNITS OF STUDY

- Quantitative Methods (CIV5303)
- Transport Modelling (CIV5305)
- Public Transport (CIV5316)
- Transport Economics (CIV5315)
- Road Traffic Engineering and Management (CIV5302)

The postgraduate coursework program in transport and traffic continues to attract strong interest from throughout Australia and overseas. The units offered contribute to the following distance education courses:

- Master of Infrastructure Engineering and Management (8 units)
- Master of Transport (8 units)
- Master of Traffic (8 units)
- Postgraduate Diploma in Transport and Traffic (8 units)
- Graduate Certificate in Transport and Traffic (4 units)
ITLS-SYDNEY

From 2012 ITLS-Sydney increased the number of units of study in the Master of Logistics Management and Master of Transport Management from eight to ten to allow students the opportunity to undertake a research dissertation across one or two units and/or to specialise in a particular stream; the programs offered in 2012 were:

- Master of Logistics or Transport Management (10 units)
- Masters of Logistics and Transport Management (16 units)
- Master of Logistics Management combined with the Master of Commerce (16 units) or Master of International Business (12 units)
- Graduate Diploma in Transport or Logistics Management (6 units)
- Graduate Certificate in Transport or Logistics Management (4 units)

In addition to the logistics and transport degrees many of our students enrolled in the Logistics and Supply Chain Management major in the Master of Commerce program or in elective units in the Master of International Business.

THE POST GRADUATION WORK EXPERIENCE PROGRAM

This program offers ITLS-Sydney graduates the opportunity to gain valuable real world experience with our partners in the logistics and transport industry. More than 60% of our graduates have been offered permanent positions on completion of their placements. The success of the program lies in this win-win situation for graduates and employers; giving employers access to some of our brightest graduates and providing our graduates with opportunities in the real business world. In 2012 the following organisations provided placements in the program: AWA Ltd, ComfortDelGro Cabcharge, Maersk, PricewaterhouseCoopers, Shipping Australia Limited and the Transport Workers Union.

UNITES OF STUDY

Total enrolments for each unit are shown in brackets. Units with a star (*) received the Dean’s Citation for teaching and/or tutoring in 2012. These citations are based on positive feedback from the students enrolled in each unit.

- Analysis Tools for Transport and Logistics [97]
- Aviation Management and Logistics [30]
- Collecting, Managing and Assessing Data [9]
- Geographical Information Systems* [23]
- Intelligent Transport and Logistics Systems [22]
- International Freight Transportation [31]
- International Logistics* [134]
- Logistics and Supply Chain Management* [146]
- Logistics in Humanitarian Aid Projects [22]
- Logistics Systems [29]
- Maritime Logistics [46]
- Organisational Logistics [126]
- Project Management in Supply Chains [30]
- Public Transport Policy and Planning [19]
- Railway Planning and Operations [7]
- Research Project [4]
- Retail Logistics Management [34]
- Reverse Logistics and Closed Loop SCM [65]
- Green Logistics [5]
- Strategic Transport Modelling [9]
- Sustainable Transport and Logistics Systems [27]
- Transport and Logistics Strategy [23]
- Transport Modes and Systems* [48]
- Transport Policy [24]
- Value Chain Management [111]
HIGHER DEGREES BY RESEARCH

The Key Centre has the highest number of enrolments in higher degrees by research in the transport and/or logistics field in Australia. In 2012, six students graduated from our doctoral programs and one from the Master of Engineering Science (Research) at ITS-Monash, with 32 continuing enrolments across both programs. Many of our students won highly competitive scholarships from Monash or Sydney University, the Australian Research Council and from other government and industry bodies in Australia and overseas. Our students come from all over the world to research in a diverse range of transport and logistics areas; details of our students and graduates, and their research topics, are listed below.

STUDENTS

DOCTORAL PROGRAM

Asif Ahmed (Bangladesh)
Analysis of travel time expenditure and budgets from multi-day multi-year GPS data

Farhana Ahmed (Bangladesh)
Impact of weather on commuter cycling behaviour and possible effects of climate change

Babak Amani (Iran)
Ownership and usage of powered two-wheeled vehicles

Elizabeth Barber (Australia)
Strategic issues in supply chain management

Yujie Cai (China)
Supply chain interaction and overlap

Shelley Xiaying Cao (China)
Transportation safety

Montathip Chanpum (Thailand)
The influence of supply chain relationships on empty container management

David Chin (China)
Incorporating stochasticity in prediction of travel time on congested freeways

Chris De Gruyter (Australia)
Travel plans in the context of the planning process

Charitha Dias (Sri Lanka)
Crowd dynamics in complex environments under normal and panic conditions

Adrian Ellison (New Zealand)
Improving road safety: an analysis of drivers’ risk perceptions, personality and observed behaviour

Richard Ellison (New Zealand)
Modelling policy-induced changes in freight vehicle externalities

Kelvin Goh (Singapore)
Exploring the road safety impact of transit priority measures

Singapore Land Transport Authority Scholarship

Chinh Quoc Ho (Vietnam)
An investigation of intra-household interactions in travel mode choice

Hossein Khakbaz (Iran)
Inventory management of containers at multiple planning levels

Kayvan Aghabayk (Iran)
Heavy Vehicle Car-Following and Lane-Changing Behaviour on Urban Arterials

Iran Industry Scholarship

Key Centre higher degree by research enrolments

ITS-Monash Higher Degree by Research Students
L-R: Amir Sobhani, Brendan Pender, Shelley Xiaying Cao, Chris De Gruyter, Lorelei Schmitt, Kelvin Goh, Charitha Dias
Waiyan Leong (Singapore)
*Embedding heuristics in choice models*

Mike Moffatt (Australia)
*The influence of multiple axle loads on pavement performance*

Claudine Moutou (Australia)
*Sustainable transport access in town centres: a goal-orientated decision-making perspective on the adaptive power of small business*
University of Sydney Business School Research Scholarship

Jeffrey Newton (United Kingdom)
*Cost management in customer-supplier relationships and networks with a focus on activity based costing*

Brendan Pender (Australia)
*Understanding and enhancing proactive planning approaches for the bus bridging problem*

Joe Fai Poon (Singapore)
*Analysing the effects of travel information on travellers’ decision making and learning*
Singapore Land Transport Authority

Lorelei Schmitt (United States)
*Exploring the impact of first impressions on public transport use*
Metlink Scholarship

Mark Shackleton (Australia)
*Quality and impact of transportation research*

Li Shen (China)
*New procedures for mode and purpose imputation in GPS travel traces*

Hassan Sabzehali (Iran)
*Landuse- transport modelling and reliability analysis*

Amir Sobhani (Iran)
*Assessing safety performance of intersections using simulation models*

Roger Toleman (New Zealand)
*Toll roads and sustainability*

Chi-hong Tsai (Taiwan)
*The linkage between public transport demand elasticities and land use characteristics: a longitudinal study*

Zeyan Zhang (China)
*Supply chain disruption costs in the international maritime industry*

**MASTER OF ENGINEERING SCIENCE (RESEARCH)**

Selby Coxon (Australia)
*Design strategies for the amelioration of anti-social behaviour on public transport*

*ITLS-Sydney Higher Degree by Research Students and Occupational Trainees*

Asif Ahmed, Matthew Beck, Yujie Cai, Montathip Chanpum, Andrew Collins, Adrian Ellison, Richard Ellison, Chinh Quoc Ho, Hossein Khakbaz, Waiyan Leong, Li Shen, Chi-hong Tsai, and Renaud Bayle, Vincent Le Cann, Paul Joho and Boris Ploix (Occupational Trainees from ENTPE, University of Lyon, France)

*ITLS-Sydney Higher Degree by Research Symposium*

Each year the ITLS-Sydney’s Higher Degree by Research candidates organise a two day symposium to present their research, the event is attended by students and academics.
GRADUATES

DOCTORAL PROGRAM

Dr Matthew Beck (Australia)
Development of a behavioural system of stated choice models: modelling behavioural, pricing and technological opportunities to reduce automobile energy levels
University of Sydney Business School Research Scholarship

Dr Demi Chung (Australia)
Optimising risk sharing: a quantitative study of the multidimensional nature of risk in private provision of road infrastructure
Ronald Henderson Research Foundation, Accounting and Finance Association of Australia and New Zealand

Dr Andrew Collins (Australia)
Attribute non-attendance and various forms of preference heterogeneity in discrete choice models
Australian Postgraduate Award and University of Sydney Business School Research Scholarship

Dr Zheng Li (China)
The role of alternative behavioural theories in valuing travel time savings and travel time variability
University of Sydney Business School Research Scholarship

Dr Alejandro Tirachini (Chile)
Optimal pricing strategies of transport externalities, with reference to car use and implications for public transport use
University of Sydney World Scholars Award and National Commission for Scientific and Technological Research, Chile

Dr Richard Yeo (Australia)
The performance of cemented pavement materials under heavy axle loading
AusStab Award for Excellence in Education or Research

MASTER OF ENGINEERING SCIENCE (RESEARCH)

Hassan Sabzehali (Iran)
Development of a framework for environmentally friendly intelligent eco-vehicle
PROFESSIONAL DEVELOPMENT

ITS-MONASH

SAFETY MANAGEMENT COURSE IN BUS AND COACH OPERATIONS

The first Transport Management Course in Bus and Coach Operations (TMC) in Victoria was launched in 1999. By the end of 2010, more than 1,900 operators had completed the course. A comprehensive review of transport legislation in Victoria led at the end of 2010 to the introduction of a new regulatory regime for bus operations in Victoria. This regime focused on safety management with a lesser emphasis on business management. ITS-Monash was commissioned by the Safety Director of Transport Safety Victoria to design and deliver an approved training course which would equip bus operators with the necessary competencies to offer bus services that met regulatory and other compliance requirements in Victoria. The Safety Management Course for Bus Operators (SMC) was launched in 2011. In 2012 it attracted over 300 enrolments.

The SMC partially replaces the old TMC and enables operators to enter the industry and offer a range of bus services. However, unlike the old TMC, the SMC does not include a business management component that enables operators to undertake contractual services. To address this problem, a new TMC was designed and launched at the beginning of 2012. This program is an essential component of any service bid by a bus company in Victoria. The new TMC incorporates the SMC as well as a robust business management component and caters for those operators seeking entry to contractual services and/or professional development training. Companies who have completed the old TMC do not have to undertake the new TMC so new entrants to the industry are the target market.

PUBLIC TRANSPORT PLANNING I AND II – NETWORK AND STRATEGIC PERSPECTIVES

Both industry short courses in public transport planning (I and II) were run in Brisbane in November. Participants come from a variety of professional backgrounds, including public transport operators and state government agencies from throughout Australia and overseas. The course was presented by Professor Graham Currie and Professor Avi Ceder from the University of Auckland. Topics covered include strategic perspectives on planning public transport, performance monitoring and network design, operational perspectives, transit marketing and fare structures.
ITLS-SYDNEY

Bus and Coach Operator Accreditation Scheme (previously the Certificate of Coach Management) and Certificate of Transport Management (including CTM Refresher) enrolments, ITLS-Sydney

BUS AND COACH OPERATOR ACCREDITATION SCHEME

The Bus and Coach Operator Accreditation Scheme Online Training Course (BOAS) attracted 201 enrolments in 2012, making a total of 978 enrolments since the online course was introduced in 2007 to replace the accreditation requirements under the Certificate of Coach Management. The BOAS online course is approved by Transport for NSW as meeting the accreditation requirement of competency to operate bus and coach services. Under the Passenger Transport Act (1990), operators of bus and coach services must be accredited by the Director General of Transport. One of the accreditation requirements is that applicants must be competent to operate a bus service. To meet the requirement of being competent applicants must pass the BOAS examination. The BOAS course includes four modules: i) Accreditation; ii) Management Information System; iii) Vehicle Maintenance Management System; and iv) Safety Management Systems. The BOAS course is delivered through online learning materials including notes, case studies, online quizzes, and a discussion board.

CERTIFICATE OF TRANSPORT MANAGEMENT

Enrolments on the Certificate of Transport Management (CTM) grew further in 2012 following the re-design of the course in 2010 as a face-to-face professional development program, no longer providing accreditation. In 2012, 39 participants from the bus industry and their suppliers (NSW and interstate) and government successfully completed the course with a further 11 participants attending the newly introduced CTM refresher program. The CTM provides knowledge and skills in management, planning and policy areas central to the success of the bus and coach industry, to operators, suppliers and consultants. It introduces participants to the latest developments in the industry and is recognised as an important industry qualification for middle and senior management, and an excellent opportunity for career development. The four day program includes presentations by industry representatives, specialist consultants and academic experts, designed to develop practical skills for the industry, as well as interactive exercises. The networking benefits are an important aspect of the CTM. The course content is reinforced by four assignments completed after the course. The CTM is supported by Transport for NSW, the State Transit Authority, BusNSW and private operators.

DISCRETE CHOICE ANALYSIS AND CHOICE EXPERIMENT DESIGN

Almost without exception, everything human beings undertake involves a choice. In recent years there has been a growing interest in the development and application of quantitative statistical methods to study choices made by individuals or groups with the purpose of gaining a better understanding both of how choices are made and of forecasting future choice responses. These extremely successful courses provide an unintimidating introduction to the main techniques of choice analysis and the design of choice experiments. The courses, which began in 2006, are presented by world experts in the field: Professors David Hensher, John Rose and Michiel Bliemer. The week long courses held in January / February 2012 attracted participants from all over the world from as far afield as New Zealand, South Africa and The Netherlands. Abridged versions of these courses have also been presented in Italy (2008, 2009 and 2010), Portugal (2009), Singapore (2007), South Africa (2008) and The Netherlands (2007).
In 2012 ITLS-Sydney established an agreement with Shanghai Jiao Tong University, one of China’s leading universities, to deliver specialist logistics courses into their Modern Logistics and Supply Chain Management EMBA Study Course. The first courses in Reverse Logistics (delivered by Alan Win) and Retail Logistics (delivered by Gareth Jude) were delivered, respectively, in May and August 2012. These subject areas are involved with the efficient manufacture and distribution of products, as well as the disposal of products at the end of their life. The courses are very strong on international product and service distribution and providing an appreciation of what the global market is doing. There was an overwhelmingly positive response to these courses which will be repeated in 2013; future courses are proposed in aviation and maritime logistics.

Gareth Jude commented that he had enjoyed the challenge of adapting his material for the local context and pacing the delivery to simultaneous translations in Mandarin: “Teaching a condensed three day course to a group of 30+ Chinese business owners and ‘C’ level executives over a weekend in the height of Shanghai summer through an interpreter was always going to be a challenge. However with great support from SJTU and the active collaboration of the students we had a very productive and enjoyable weekend. The students were particularly engaged by practical case material and gave the course glowing feedback. I look forward to returning next year.”

STUDENT AWARDS

ITS-MONASH
The presentation of awards to outstanding students in the undergraduate, postgraduate and industry programs is held in conjunction with the annual Ogden Lecture. Awards are sponsored by industry and government. This high profile event provides the ideal forum in which to recognise the achievements and excellence of our most successful students.

UNDERGRADUATE AWARDS

The GHD Highway Design Prize
Awarded to the group of Bachelor of Engineering students who submitted the best highway design
Mia Ze Meng, Langduan Huang, Huanzhang Shi and Miao Jin

The Richardson Prize in Transport
Awarded to the Bachelor of Engineering student showing the greatest proficiency in one transport elective and project
Damien Georgopoulos

The Traffix Group Prize
Awarded to the Bachelor of Engineering students showing the greatest proficiency in transport engineering elective subjects
Dimuth Gammampila

POSTGRADUATE AWARDS

The VicRoads Prize in Transport Engineering
Awarded to the postgraduate student who has achieved the highest average mark in their coursework units
Erika Garbayo

Presented by Gary Liddle [L]
Chief Executive, VicRoads
ARRB-Monash Prize for Postgraduate Transport Research
For excellence in postgraduate research in transport
Kayvan Aghabayak

Presented by Gerard Waldron [R]
General Manager, ARRB

ARRB-Monash Special Commendation for Excellence
A special commendation was awarded to Miranda Cornelissen for her work with the Monash Injury Research Institute
Miranda Cornelissen

Presented by Gerard Waldron [R]
General Manager, ARRB

William Young Alumnus Award
For exceptional service to the Transport Industry by an alumnus of Monash University
Hector McKenzie

Presented by Professor William Young [L]

INDUSTRY PROGRAM AWARDS

Driver Group Award
For the best overall performance in the Transport Management Course in Bus and Coach Operations (bus and coach operations, AO accreditation)
Anna Tyben

Presented by Robert Nadalin [L]
Business Manager, Driver Group

Crown Coaches Award
For the best overall performance in the Transport Management Course in Bus and Coach Operations (charter and tour operations, AC accreditation)
Joung Hyun Lee

Prize winners and sponsors
Dyson Group Award
Best performance in unit 5101: Introduction to Bus Safety
Stuart Dawson

Presented by Shane Dyson [L]
Dyson Group

Ventura Group Award
Best performance in unit 5102: Safety Risk Management for Bus Operators
Mark Driver

Presented by Andrew Cornwall [L]
CEO, Ventura Group

Transport Safety Victoria Award
For the best overall performance in the Safety Management Course for Bus Operators
Joung Hyun Lee

Bus Vic Award
For the best overall performance in the Transport Management Course for Bus Operators (Accredited Contract Operator)
Matthew Holland

ITLS-SYDNEY

The 2012 awards were presented as part of ITLS-Sydney’s 21 years celebration. The presentation of awards to our students is an opportunity to celebrate the success of the Institute with our staff, students, Board of Advice, industry partners, and the sponsors of prizes.

The Mrs MA Ching Prize
For outstanding achievement in the graduate program in transport or logistics
Gregory Baird

Presented by The Honourable John Watkins [R]
CEO Alzheimer’s Australia NSW, former NSW Deputy Premier and Minister for Transport

The Chartered Institute of Logistics and Transport Australia (CILTA)

The Sir Hudson Fysh Award
For the best student in a masters program with a major in transport or logistics management
Kevin Nicholson

Presented by Peter Koning [R] Chair, CILTA, NSW Section
Ken Hillyar Award
For the best student in a masters program with a major in transport or logistics management
Cecile Johnston

Presented by Peter Koning [R] Chair, CILTA, NSW Section

Logistics Association of Australia Award
For outstanding achievement in the logistics program
Alexander Groothaert

Presented by Dr Denis Horder [R] Director, Logistics Association of Australia

The Institute of Transport and Logistics Studies Award
For research excellence in transport or logistics
Richard Ellison

Presented by Dr Alastair Stone [R] Chair, ITLS-Sydney Board of Advice

BusNSW Prize
For best overall performance in the Certificate of Transport Management program
David Maitland

Presented by Darryl Mellish [R] Executive Director, BusNSW
RESEARCH FUNDING

INTERNATIONAL

NEW: Dr Matthew Beck
*Experience with development of off-peak public transport services – peer review*
NZTA Research Programme, New Zealand [2012: $5,000]

NEW: Professor Graham Currie
*ECO_BEST: electric car objective – behavioural choice analysis for transport, to examine the choice of electric vehicles within the European Union*
University of Roma Trieste Funding Institution, Italy [2012-14: $18,500]

NEW: Richard Ellison
*VREF future urban travel conference on freight*
Volvo Research and Education Foundations, Sweden [2012: $4,000]

NEW: Professor David Hensher and Professor Corinne Mulley
*Centre of Excellence in Bus Rapid Transit development*
Volvo Research and Education Foundation, Sweden [2010-15: $300,000]

NEW: Chinh Quoc Ho
*Interpersonal cooperation in tour-based mode choice: the role of household resources and spatial setting*
Innovation Grant of the World Conference on Transport Research [2012: $5,000]

AUSTRALIAN RESEARCH COUNCIL

NEW: Associate Professor Stephen Greaves
*The development and application of an evaluation framework to assess transport, health and economic impacts of new urban cycling infrastructure*
ARC Linkage Project [2012-14: $532,219]

NEW: Professor David Hensher and Professor John Rose
*Valuation of service reliability and crowding under risk and uncertainty: neglected drivers of demand for public transport*
ARC Discovery Project [2012-14: $210,000]

NEW: Dr Majid Sarvi, Professor Graham Currie and Dr Nirajan Shiwakoti
*Innovative tools to improve stations design and management of crowds in emergency and panic conditions*
ARC Linkage Project [2012-14: $210,000]

NEW: Professor Peter Stopher
*Travel time budget analysis from multi-day and multi-year data*
ARC Discovery Project [2012-14: $333,545]

NEW: Dr Russell Thompson
*Integrating mobility on demand in urban transport infrastructures*
ARC Linkage Project [2012-14: $330,000]

Professor Graham Currie and Dr Majid Sarvi
*Optimising the design and implementation of public transport priority initiatives*
ARC Linkage Project [2010-12: $704,000]

Professor David Hensher
*Assessment of the commuter’s willingness to pay a congestion charge under alternative pricing regimes and revenue disbursement plans*
ARC Discovery Project [2011-13: $426,444]

Professor Geoff Rose
*A systemic model to underpin enhanced management of powered-two-wheelers as part of a safe, sustainable transport system*
ARC Linkage Project [2010-13: $1,267,900]

Dr Majid Sarvi and Professor Graham Currie
*Innovative urban traffic congestion solutions: optimising road space using networks of multi-class priority*
ARC Discovery Project [2011-2014: $285,000]

STATE GOVERNMENT

NEW: Professor Graham Currie and Alexa Delbosc
*Understanding the psychology of fare evasion*
Public Transport Victoria [2012-13: $100,000]

NEW: Professor Graham Currie and Alexa Delbosc
*Before and after assessment of the impact of removing setback filter turns on safety and operations performance on Lonsdale Street bus lanes*
Department of Transport Victoria [2012-13: $30,000]

NEW: Professor Peter Stopher
*Cost-effective evaluation of a TravelSmart project*
South Australia Department of Planning, Transport and Infrastructure [2012-13: $109,916]

Professor Peter Stopher
*Long range monitoring of travel behaviour change – programs for the National Travel Behaviour Change Project*
INDUSTRY

NEW: Richard Ellison, Professor David Hensher and Professor Corinne Mulley
Assessing the wider economy and social impacts of high speed rail in Eastern Australia
Australasian Rail Association [2012: $25,000]

UNIVERSITY

RESEARCH

NEW: Associate Professor Stephen Greaves and Professor Corinne Mulley
Evaluation guidelines and the inclusion of health outcomes for car-based and public transport infrastructure projects
University of Sydney Business School ARC Bridging Fund Round [2012: $20,000]

NEW: Dr Zheng Li
Investigating travel time variability in a cumulative prospect theoretic framework
University of Sydney Business School Research Grant [2012: $11,250]

NEW: Dr Yibing Wang
An innovative approach to variable speed limit control on freeways
Monash University Faculty of Engineering Seed Grant [2012: $30,000]

Professor Graham Currie
Social Research in Transport (SORT) Clearinghouse
Faculty of Engineering, Monash University [2009-12: $207,000]

TRAVEL

Dr Matthew Beck
13th International Conference of the International Association for Travel Behaviour Research, Canada, July 2012
University of Sydney Business School Conference Travel Grant [2012: $4,228]

Professor Michael Bell
17th Hong Kong Society of Transport Studies Conference, Hong Kong, December 2012
University of Sydney Business School Conference Travel Grant [2012: $1,575]

5th International Symposium on Transportation Network Reliability, Hong Kong, December 2012
University of Sydney Business School Conference Travel Grant [2012: $1,575]

Professor Michiel Bliemer
13th International Conference of the International Association for Travel Behaviour Research, Canada, July 2012
University of Sydney Business School Conference Travel Grant [2012: $4,275]

Dr Geoffrey Clifton
35th Australasian Transport Research Forum 2012 Annual Conference, Australia, September 2012
University of Sydney Business School Conference Travel Grant [2012: $2,812]

13th International Conference of the International Association for Travel Behaviour Research, Canada, July 2012
University of Sydney Business School Conference Travel Grant [2012: $4,275]

Dr Zheng Li
13th International Conference of the International Association for Travel Behaviour Research, Canada, July 2012
University of Sydney Business School Conference Travel Grant [2012: $4,275]

Dr Rico Merkert
16th Air Transport Research Society World Conference, Taipei, Taiwan, June 2012
University of Sydney Business School Conference Travel Grant [2012: $2,796.17]

Professor Corinne Mulley
10th International Conference of the International Association for the History of Transport, Traffic and Mobility T2M, Madrid, November 2012
University of Sydney Business School Conference Travel Grant [2012: $3,568.2]

Third Workshop on Time Use Observatory TUO 3, Chile, March 2012
University of Sydney Business School Conference Travel Grant [2012: $3,643]

Professor John Rose
13th International Conference of the International Association for Travel Behaviour Research, Canada, July 2012
University of Sydney Business School Conference Travel Grant [2012: $4,275]
PUBLIC LECTURES and SEMINARS

ITS-MONASH

ANNUAL OGDEN TRANSPORT LECTURE

The ITS-Monash Ogden Transport Lecture is a free public lecture initiated in 2001 to recognise the key role which Ken Ogden played in the formation and development of the transport program at Monash University.

What can transport bring to Melbourne’s metropolitan planning strategy?

The 2012 Ogden Transport Lecture was delivered on 16 August by Jim Betts, Secretary of the Victorian Department of Transport. The lecture explored a range of issues relating to transport and land use planning by considering a range of propositions which Jim then defended. The combination of the content, and the very informal presentation style, clearly engaged the audience and produced an insightful question and answer segment following the lecture.

TRANSPORTATION RESEARCH WORKSHOP SEMINAR SERIES

20 June 2012
Travel demand management: the UK sustainable travel towns experience
Emilie van de Graaff, Veolia Transdev

2 August 2012
To attend or not to attend: police presence at crash scene
Professor Richard Tay, Latrobe University

27 August 2012
Case studies in bus priority
Christian Bode, AECOM

10 October 2012
Modelling the effects of social networks on activity and travel behaviour
Nicole Roland, Eindhoven University of Technology, The Netherlands

7 November 2012
Analysis of traffic disruption and recovery
Dr Joyce Zhang, School of Mathematical Sciences, Monash University

26 November 2012
Fatigue performance of two cemented pavement materials under accelerated loading
Dr Richard Yeo, AARB Group

5 December 2012
Modelling traffic under exceptional conditions through enriched state preference research
Professor Serge Hoogendoorn, Delft University of Technology, The Netherlands
TRANSPORT RESEARCH ROADSHOW

The inaugural Transport Research Roadshow was held at Public Transport Victoria on the 24 August 2012. The aim of the roadshow is to keep those responsible for the planning and management of transport in Victoria up to date with Monash transport research. The event was hosted at the Department of Transport Theatre and opened by The Honourable Edward O’Donohue MLC, the Victorian Parliamentary Secretary for Transport.

ITS-Monash researchers gave brief presentations on their latest transport research and attendees were then invited to a reception where postgraduate and selected undergraduate students presented posters of their research projects. Over 100 attended from Public Transport Victoria and other government and industry groups.

INTERNATIONAL VISITORS

Many of the presenters in the Transportation Research Workshop Seminar Series visited ITS-Monash for a number of days or weeks, meeting with colleagues and undertaking collaborative research. In addition to the guests mentioned above ITS-Monash also welcomed Professor Jason Zhang, South East University, China; Andrea Gorimini, Italy; Johanna Mielke, Germany; and Hans van Lint, The Netherlands.

ITLS-SYDNEY

RESEARCH AND POLICY BREAKFAST WORKSHOP

A Research and Policy Breakfast Workshop on 23 November 2012, organised by Professor Corinne Mulley, gathered together high-level stakeholders central to the research and policy environments to explore the barriers in NSW that inhibit the transfer of research findings into public transport policy. Professor Brian Collins, formerly the Chief Scientific Advisor to the Department of Transport United Kingdom, Carolyn McNally, Deputy Director for Transport for NSW and responsible for the production of integrated transport plans in NSW, including the NSW Long Term Transport Master Plan and Professor Corinne Mulley, Chair of Public Transport at the University of Sydney presented to the breakfast participants and this was followed by discussion to identify barriers and solutions to better provide an evidence base to policy formulation. The development of a public transport network and the encouragement for Transport for NSW to identify a strategic research agenda are two outcomes which are in progress.

LEADERSHIP AND POLICY SEMINAR SERIES

21 February 2012
*What about behaviour in travel demand modelling? An overview of recent progress*
Associate Professor Caspar Chorus, Delft University of Technology, The Netherlands

14 March 2012
*Intelligent mobility: a national need and opportunity*
Professor Brian Collins, Chair of Engineering Policy, Faculty of Engineering Science, University College London, United Kingdom

28 March 2012
*Mobility - a must but how much is enough?*
Greg Martin, Chair, National Transport Commission

24 April 2012
*Traffic congestion and paradoxes of capacity: recent lessons from laboratory experiments*
Professor Laurent Denant-Boemont, University of Rennes, France
8 May 2012
Turning smartphones into medical devices: activity monitoring, experience sampling, and interactive messaging
Associate Professor Sean Doherty, Wilfrid Laurier University, Canada

22 May 2012
Railway reform - Lessons from history
Peter Koning, Technical Director, AECOM

19 June 2012
Supply chain digitization for 'Omni-Channel' retailing
Gaurav Patni, Technology Integration Leader, David Jones Ltd

29 June 2012
Road pricing: an impeccable public policy - how can we sell it?
Professor Juan de Dios Ortuzar, Department of Transport Engineering and Logistics, Pontificia Universidad Catolica de Chile

3 July 2012
Evaluating the long term impacts of transport policy: a comparative assessment of bus deregulation and rail privatisation
Professor John Preston, Transportation Research Group, Faculty of Engineering and the Environment, University of Southampton, United Kingdom

10 July 2012
Tracks to the future: planning railway networks for the 21st century
Dr Simon Blainey, Research Fellow in Rail Systems, Transportation Research Group, Faculty of Engineering and the Environment, University of Southampton, United Kingdom

28 August 2012
Road pricing and workplace parking charges: the issue of implementation
Professor Stephen Ison, Director, Centre for Innovative and Collaborative Construction Engineering, Loughborough University, United Kingdom

11 September 2012
Is your supply chain actively aligned to how consumers are now behaving?
Michael Stokoe, Associate Director, Freight and Logistics, AECOM

16 October 2012
Implications of sustainability requirements on logistics operations - Assessment approaches and strategic points of action
Professor Peter Kleine-Moellhoff, ITLS-Sydney Visiting Professor; Reutlingen University, Germany

30 October 2012
Concessionary bus travel: liberation for older people or burden for the taxpayer?
Professor Roger Mackett, University College London, United Kingdom

6 November 2012
NSW Long Term Transport Master Plan
Carolyn McNally, Deputy Director General, Planning and Programs, Transport for NSW

20 November 2012
Do people have a 'budget' for the amount of mental effort they invest in organising their travel? Some preliminary evidence with implications for smart and sustainable transport
Professor Martin Lee-Gosselin, Professor Emeritus in the Graduate School of Planning at Universite Laval, Quebec, Canada
27 November 2012

The future for freight in NSW?

Rachel Johnson, Deputy Director General, Freight and Regional Development Division, Transport for NSW

INTERNATIONAL VISITORS

Many of the presenters in the Leadership and Policy Seminar Series visited with ITLS-Sydney for a number of days or weeks meeting with colleagues and undertaking collaborative research. In addition to the guests mentioned above ITLS-Sydney also welcomed: Professor Shinya Kurauchi, Ehime University, Japan; Associate Professor Paul Childerhouse, University of Waikato, New Zealand; Dr Bartomiej Gorlewski, Warsaw School of Economics, Poland; Glen Weisbrod, Economic Development Research Group, United States; Esther de Bekker-Grob, University Medical Centre Rotterdam, The Netherlands; Renaud Bayle, Vincent Le Cann, Paul Joho and Boris Ploix ENTPE, University of Lyon, France; and Tan Lin, NanKai University, China.
PUBLICATIONS

BOOKS


BOOK CHAPTERS


**JOURNAL ARTICLES**


**Winner of the International Association of Maritime Economists’ (IAME) prize for the best paper released by the IAME.**


Tsai, C.-H., Mulley, C. and Clifton, G. (2012) The spatial interactions between public transport demand and land use characteristics in the Sydney Greater Metropolitan Area’, Road and Transport Research, vol. 21, no. 4, pp. 53-64.


*Accepted 2011; released 2012

CONFERENCES PAPERS


Winner of the inaugural William W. Millar Prize for the best paper dealing with public transportation presented at the United States Transportation Research Board Annual Meeting.

L-R: William Millar presents the award to Dr James Reynolds, Alexa Delbosc and Professor Graham Currie


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L-R: Professor Corinne Mulley and Claudine Moutou


Winner of the Dr Cornelis Lely Prize on Mobility History and Policy awarded for the best paper presented connecting history with current problems of policy and planning.


metropolitan regions’, Proc. 4th International Conference on Transportation and Logistics (T-LOG 2012), Busan, South Korea, 23 - 25 August.


**Winner of the David Willis Memorial Prize, for the best paper submitted by a young professional.**


**WORKING PAPERS**

**Linking discrete choice to continuous demand within the framework of a computable general equilibrium model for the analysis of wider economic impacts of transport investment projects.**

Truong P., Truong and David A. Hensher

**Making use of respondent reported processing information to understand attribute importance: A latent variable scaling approach.**

Stephane Hess and David A. Hensher

**Quasi-dynamic network loading: Adding queuing and spillback to static traffic assignment.**

Michiel Bliemer, Luuk Brederode, Luc Wismans and Erik-Sander Smits

**Inferring attribute non-attendance from stated choice data: Implications for willingness to pay estimates and a warning for stated choice experiment design.**

David A. Hensher, John M. Rose and William H. Greene

**Assessing the wider economy impacts of transport infrastructure investment with an illustrative application to the north-west rail link project in Sydney, Australia.**

David A. Hensher, Truong P. Truong, Corinne Mulley and Richard Ellison

**Accessibility and residual land value uplift: Identifying spatial variations in the accessibility impacts of a bus transitway.**

Karley Densmore and Corinne Mulley

**Examining estimator bias and efficiency for pseudo panel data: A Monte Carlo simulation approach.**

Chi-Hong Tsai, Waiyan Leong, Corinne Mulley and Geoffrey T. Clifton

**The relationship between brand trust, online customer reviews and willingness to purchase.**

Peter CW Lok, Vincent TP Cheng, Jo H Rhodes and Glenn Asano
The economics and engineering of bus stops: Spacing, design and congestion.  
Alejandro Tirachini

Downs-Thomson paradox and public transit capacity choice in the laboratory.  
Laurent Denant-Boemont and Sabrina Hammiche

A modified product life cycle becomes a useful basis for a new product-service strategy model.  
David Walters and Jyotirmoyee Bhattacharjya

Transport improvement, agglomeration effect and urban productivity: The case of Chinese cities.  
Tan Lin and Truong P. Truong

Property rights, right to efficiency?  
Demi Chung, David A. Hensher and John M. Rose

Success factors between suppliers and customers in service outsourcing activities.  
Peter CW Lok, Wilson Wee-Seng Loh and Jo H Rhodes

Multiple purposes at single destination: A key to a better understanding of the relationship between tour complexity and mode choice.  
Chinh Quoc Ho and Corinne Mulley

Snowball effect and traffic equilibrium in a market entry game: a laboratory experiment.  
Laurant Denant-Boemont and Vivien Fortat

Efficient procurement of public air services - Lessons learned from European transport authorities’ perspectives.  
Rico Merkert and Basil O’Fee

Crowding in public transport: A review of objective and subjective measures.  
Zheng Li and David A. Hensher

Understanding buy in for risky prospects: Incorporating degree of belief into the ex ante assessment of support for alternative road pricing schemes.  
David A. Hensher, John M. Rose and Andrew T. Collins

Cost impacts to motorists of discounted registration fees in the presence of distance-based charges and implications for government revenue.  
David A. Hensher and Corinne Mulley

A global perspective on pallet life-cycle management practices and a research agenda.  
Jyotirmoyee Bhattacharjya and David Walters

What type of road pricing scheme might appeal to politicians? Gaining the citizen vote by staging reform.  
David A. Hensher and Michiel C. J. Bliemer

A cost-based maritime container assignment model and port choice.  
Michael G. H. Bell and Xin Liu

The north west rail link: winners and losers in the locality of the north west area.  
Geoffrey T. Clifton, Corinne Mulley and David A. Hensher

SELECTED (TOP) PAPERS FROM THE FIRST 21 YEARS OF ITLS-SYDNEY


PROFESSIONAL HONOURS and ENGAGEMENTS

FELLOWS

Professor Michael Bell
Institution of Civil Engineers, United Kingdom; Chartered Institution of Highways and Transportation, United Kingdom

John Clements
Chartered Institute of Logistics and Transport, Australia

Professor David Hensher
Academy of Social Sciences in Australia; American Planning Association; Australian Institute of Transport Planning Management; Chartered Institute of Logistics and Transport, Australia; Engineers Australia (Companion); Land Transport Authority of Singapore

Dr Rico Merkert
The Higher Education Academy, United Kingdom

Professor Corinne Mulley
Chartered Institute of Logistics and Transport, Australia

Professor Geoff Rose
Institution of Engineers Australia

Professor Peter Stopher
American Society of Civil Engineers; Engineers Australia (Civil College)

Professor Bill Young
Chartered Institute of Logistics and Transport, United Kingdom; Institute of Transportation Engineers, Australia and NZ; Institution of Engineers Australia

VISITING APPOINTMENTS

Dr Matthew Beck
Institute of Transport Studies, University of Leeds, United Kingdom

Professor Graham Currie
Florida State University, United States

Professor David Hensher
Department of Transport Engineering and Logistics, Pontificia de Catolica Chile; Institute of Transport and Logistics Studies (Africa), University of Johannesburg, South Africa

Professor Corinne Mulley
Centre for Transport Studies, University of Aberdeen, United Kingdom

Professor John Rose
Institute of Transport Studies, Faculty of Environment, University of Leeds, United Kingdom

Professor Peter Stopher
Honorary Professor, Beijing Transportation Research Centre, China

Dr Russell Thompson
Nihon University, Japan; Kyoto University, Japan; Tsinghua University, China; Australian Defence Force Academy, Canberra

Honorary Professor David Walters
Hong Kong Polytechnic University

Dr Yibing Wang
Southeast University, China; Shanghai Jiaotong University, China; Xian Jiaotong University, China

EDITORIAL POSITIONS

Professor Michael Bell
Associate Editor: Maritime Policy and Management; Transportmetrica A; Transportation Research Part B: Methodology

Professor Michiel Bliemer
Associate Editor: Journal of Choice Modelling
Editorial Advisory Board: Transportation Research Part B: Methodology

Professor Graham Currie
Editor: Transportation
Editorial Board: Road and Transport Research Journal
Professor David Hensher
Volume and Series Editor: Handbooks in Transport, Emerald (previously Elsevier Science); Classics in Transport and Environmental Valuation Series, Edward Elgar Publishing
Area Editor: Transport Reviews
Editor: Special issue of Research in Transportation Economics on Recent developments in the reform of land passenger transport

Dr Terry Liu
Editorial Board: International Journal of Transportation

Dr Rico Merkert
Editor: Special issues of Research in Transportation Business and Management on Management of Transport in Remote Regions and of Transportation Journal for the Air Transport Research Society
Associate Editor: Journal of Air Transport Management

Claudine Moutou
Editor: T2M Newsletter, International Association for History of Transport, Traffic and Mobility

Professor Corinne Mulley
Editor: Special issue of Research in Transportation Business and Management on Accessibility in passenger transport: policy and management
Editor: Bus Buzz, ITLS-Sydney Quarterly Newsletter
Editorial Board: Journal of Transport History, Research in Transportation Business and Management

Professor Geoff Rose
Editorial Board: IET Intelligent Transportation Systems
Editorial Advisory Board: Institution of Civil Engineers

Professor John Rose
Co-Chief Founding Editor: Journal of Choice Modelling
Joint Editor in Chief: Transportation Research Part A: Policy and Practice
Editor: Transportation
Editorial Review Board: Journal of Marketing Research

Dr Majid Sarvi
Editorial Board: Journal of Advanced Transportation; Journal of Transportation Letters; Journal of Intelligent Transportation Systems

Professor Peter Stopher

Dr Russell Thompson
Associate Editor: Asian Transportation Research Society
Guest Editor: Procedia – Social and Behavioral Sciences

Dr Yibing Wang
Associate Editor: IEEE Transactions on Intelligent Transportation Systems; International Journal of Vehicle Information and Communication Systems
Book Review Editor: Transportation Research Part C: Emerging Technologies
Editorial Board Member: The Open Transportation Journal

Professor Bill Young
Editorial Advisory Board: Institution of Civil Engineers
CONFERENCE COMMITTEES

Professor Michiel Bliemer
Innovative Methods Committee of the European Transport Conference; International Scientific Committee of the Dynamic Traffic Assignment Conference

Associate Professor Stephen Greaves
Australasian Transport Research Forum; Co-organiser Conference of the Australasian Institutes of Transport Research; Co-organiser and co-chair, Triennial International Steering Committee Travel Survey Conference

Professor David Hensher
International Executive Chair and Co-founder, International Conference Series on Competition and Ownership in Land Passenger Transport (The Thredbo Series)

Dr Marilyn Johnson
Research and Policy Committee, Amy Gillett Foundation; Australian Cycling Conference Reference Group

Dr Rico Merkert
Chair, International Symposium in Air Law and Regulation; International Conference on Air Transport for Remoter Regions

Professor Corinne Mulley
Vice Chair, Executive Board, World Symposium of Transport and Land Use Research

Professor Geoff Rose
National Steering Committee, Australasian Transport Research Forum; Local Organising Committee, International Travel Survey Methods Conference

Professor John Rose
Innovative Methods in Transport Analysis, Planning and Appraisal Programme Committee, European Transport Conference

Dr Majid Sarvi
ISTTT13, Deltt University

Dr Russell Thompson
7th International Conference on City Logistics T-LOG 2012; 3rd International Conference on Transportation Logistics Travel Demand Management Conferences

Professor Peter Stopher
Travel Demand Management Conferences

PROFESSIONAL COMMITTEES, SYMPOSIA and WORKSHOPS

Dr Matthew Beck
United States Transportation Research Board Committees: Travel Survey Methods (ABJ40), Traveler Behavior and Values (ADB10)

Professor Michiel Bliemer
United States Transportation Research Board Committees: Network Modelling, Survey Methods

John Clements
Chartered Institute of Logistic and Transportation: Passenger Transport Group Committee

Professor Graham Currie
United States Transportation Research Board Committees: Bus Transit Systems (AP050), Public Transportation Planning and Development (AP025), Vice Chair, Light Rail Transit Systems (AP075)

Associate Professor Stephen Greaves
United States Transportation Research Board Committees: Transportation and Air Quality (ADC20), New Technologies in Travel Surveys (ABJ40-4)

Professor David Hensher
Board of Advice, Institute of Transport and Logistics Studies (Africa), University of Johannesburg, South Africa; Public Transport Panel, Infrastructure Australia; Transport Specialists Advisory Group, NSW Long Term Transport Master Plan, Transport for NSW; Benchmarking Program Panel, Transport for NSW

Professor Corinne Mulley
NSW Premier’s Council for Active Living, Workplace Travel Planning Group; NSW Premier’s University Government Business Forum; NSW Taxi Advisory Group; Public Transport Panel, Infrastructure Australia; Transport Specialists Advisory Group, NSW Long Term Transport Master Plan, Transport for NSW; Committee of Management, Accessible Bridge Services (Easy Transport): Community Transport in Northern Sydney; Tender Review Panel for the Household Travel Survey, Transport for NSW; International
Advisory Committee, International Symposium for Next Generation Infrastructure

Claudine Moutou
Newtown Precinct Business Association, Australia

Dr Ada Suk-Fung Ng
National Committee on Transport Engineering and Sydney Transport Panel, Engineers Australia

Professor Geoff Rose
United States Transportation Research Board: Travel Demand Management (ABE50) Committee; University Representative, Joint Subcommittee on Emerging Vehicles and Personal Transportation

Professor John Rose
United States Transportation Research Board Committees: Travel Survey Methods (ABJ40), Traveler Behavior and Values (ADB10)

Dr Majid Sarvi
United States Transportation Research Board Committees: Traffic Flow Theory (AHB45), Transportation Network Modelling (ADB30)

Adjunct Professor John Stanley
Living Victoria Ministerial Advisory Council; ADC Forum and Road Safety Inspections, Australia; Urban Renewal Authority Victoria, Australia

Professor Peter Stopher
Scientific Advisory Panel, African Centre of Excellence for Studies in Public and Non-Motorised Transport, South Africa; Planning, Economics and Finance Committee, American Society of Civil Engineers; United States Transportation Research Board Committees: Transportation Planning Applications (ADB50), Transport Survey Methods (ABJ40) (Emeritus Member), Traveler Behavior and Values (ADB10) (Emeritus Member); Survey Harmonisation and Technology Implementation (SHANTI), COST Project (TU 0804); Passenger Travel Demand Forecasting, United States

Dr Russell Thompson
European Transport Conference Freight Committee

Dr Yibing Wang
International Federation of Automatic Control Technical Committee on Transportation Systems; International Advisory Committee for the Network of Excellence for Advanced Road

Cooperative Traffic management in the Information Society

Honorary Professor David Walters
Program Committee, International Symposium on Supply Chain Management, Purchasing Management Association of Canada

Professor Bill Young
United States Transportation Research Board Committee, Transportation Network Modelling (ADB30); Australian Standards Association AS/NZS 2890.1-6, Parking facilities, Parts 1-6

INDEPENDENT EXPERTISE

CONSULTANCY

Professor Graham Currie
Public Transport Victoria; Department of Transport Victoria

Professor David Hensher
Director General, Transport for NSW, Australia; Demand Modelling, Sydney Transport Sector Study, NSW Government; Toll Road Infrastructure Projects, Macquarie Bank, Australia; Benchmarking bus contracts, Translink, Queensland, Australia; Victorian Taxi Inquiry, Victorian Government, Australia; Passenger Transport Reform, Land Transport New Zealand, New Zealand; Southern Water, United Kingdom

Honorary Professor Peter Lok
Baodao Optical Group, China

Dr Rico Merkert
Northpoint Aviation Services

Dr Ada Suk-Fung Ng
Maersk Australia

Professor John Rose
Macquarie Bank; John Holland; Thiess; Cegidem; Victorian Taxi Industry Inquiry, Victorian Government, Australia

Honorary Professor David Walters
AWA Limited, Australia
PEER REVIEW and EXPERT EVALUATION of PROJECTS

Dr Geoffrey Clifton
Peer Review, The Excellence in Research for Australia Initiative, Australian Research Council, Australia; States Records Reviewer, NSW Government State Records

Professor Graham Currie
Australian Research Council; Canadian Social Sciences Research Council; Romanian Science Foundation; Netherlands Organisation for Scientific Research - Innovational Research Incentives Scheme; Swiss State Secretariat on Science and Education Funding

Associate Professor Stephen Greaves
NSW Department of Environment and Climate Change

Professor Corinne Mulley
7th Framework Programme for Research and Technological Development, European Commission; Czech Republic Science Foundation; Department of Planning, NSW State Government; Marsden Fund, The Royal Society of New Zealand; National Fund for Scientific and Technological Development, Chile

Dr Majid Sarvi
Canadian Social Sciences Research Council

Professor Peter Stopher
New Zealand Ministry of Transport: Research Project on Trip Chains and Trip Tours

INVITED PRESENTATIONS

INTERNATIONAL

Dr Matthew Beck
Advanced choice methodology
Graduate School for International Development and Cooperation, Hiroshima University, Japan
Institute of Transport Studies, University of Leeds, United Kingdom

Professor Graham Currie
Keynote presentation: deregulation, franchising, outsourcing and corporatisation in local public transit - international experience
Florida State University Symposium, United States
Exploring ridership drivers of BRT, bus, streetcar and light rail transit
Centre for Urban Transport Research, University of Southern Florida, United States

Professor David Hensher
Keynote presentation
12th International Conference on Advanced Systems for Public Transport Santiago, Chile

Professor Corinne Mulley
Keynote presentation
Development Bank of South Africa, South Africa

Dr Russell Thompson
A collaborative distribution network for large urban areas
Japan Society of Civil Engineering, Tokyo, Japan

Transport and health
International Symposium on 50th Anniversary of Department of Transportation Engineering and Socio-Technology, College of Science and Technology, Nihon University, Japan

City logistics in Melbourne
Centre for Modern Logistics, Tsinghua University, Shenzen, China

AUSTRALIA

Dr Geoffrey Clifton
Passenger focused bus services
5th Urban Transport Planning Summit (Informa)

Integrating Active Transportation and Health into Transportation Planning, NSW Premier’s Council for Active Living

Professor Graham Currie
Thoughts for leadership of an integrated transport plan
Greater Bendigo Transport Planning for the Future Community Discussions, Councillor/EMT Briefing, Bendigo

Major special event transport research
Ministry of Transport, Peoples Republic of China, conducted at Monash University

The psychology of public transport travel
Institute of Sensible Transport Seminar, Melbourne Town Hall, Melbourne
A review of the performance of the transport system for the 2012 Olympic Games in London
UrbanTrans Bump Event, Melbourne

The 10th annual Victorian Transport Summit, Melbourne

12th UITP Asia-Pacific Assembly and Rapid Transit Symposium, Perth

Moonee Valley City Council – New Councillor Induction Briefing

Professor David Hensher

Keynote speaker
Transport Reform Network Launch
(Media coverage: The Australian, Herald Sun, Transport and Logistics News and Supply Chain Review)

Keynote speaker
Roads Australia Summit

Dr Marilyn Johnson
Safer road users
Cycling Safety Forum, RACWA Perth

Beyond helmets and high vis
Public Health Association of Australia, Annual General Meeting

Dr Terry Liu
Keynote presentation
6th Victorian Chinese PhD Students and Young Scholars Research Symposium

Professor Corinne Mulley
Value uplift, its spatial distribution and implications for value capture
Department of Transport, Government of Western Australia

Understanding how Australians use public transport in order to deliver the best planning strategies for the future
5th Urban Transport Planning Summit (Informa)

Connecting community transport: how do we move to a national system?
Keynote speaker, National Community Transport Conference

Adjunct Professor John Stanley
Moving people
Conference, Chartered Institute of Transport and Logistics Australia

Dr Russell Thompson
Investigating the health impacts of travel behaviour using GPS
Workshop on Transport, Chronic Disease and Health Research, School of Population and Health, University of Melbourne

Working in Japan
Emmanuel College, Melbourne
IN THE MEDIA

OUR RESEARCH IN PROFILE

Professor Corinne Mulley spoke to the *Sydney Morning Herald* about her research on network redesign to enhance access within a fixed budget. Adrian Ellison spoke to *The Sun Herald* about his research (with Associate Professor Stephen Greaves and Dr Rhonda Daniels) on speeding behaviour in school zones. Associate Professor Greaves spoke to the *Sydney Morning Herald* about his research into financial rewards for driving less and driving more carefully and *Crikey* ran a profile on his research (with Professor John Pucher, Rutgers University, United States and Jan Garrard, Deakin University) which looked at the reasons that Melburnians cycle twice as much as Sydneysiders. Meanwhile, from Melbourne, Dr Marilyn Johnson wrote a piece for *The Conversation* and spoke to ABC Far North Queensland on ITS-Monash’s study on what influences people to buy an electric bike and what their experiences have been using them and Professor Geoff Rose published an editorial piece in *The Age* and was quoted in a *New York Times* article regarding the same study. Professor Graham Currie spoke to the *Financial Review* and *By Design* on ABC Radio National on his research on the decline of car use among young people.

Road pricing was a hot topic in 2012 with Professor David Hensher interviewed for, and quoted in, numerous articles on ‘time of day’ tolls for Australia’s roads (*Sydney Morning Herald*, *Australian Financial Review*, *The Australian*, *The Age*, *MX* (Sydney), *Perth Now* – *The Sunday Times*, *Australasian Bus and Coach Magazine*) following the publication of his research (with Professor John Rose and Dr Andrew Collins) which indicated that 80% of Sydneysiders would support new measures to charge motorists for driving into or across the city, and the subsequent calls from the ACCC for road congestion pricing. Professor Hensher also discussed this topic in discussions on *Channel 9* and *Channel 7 TV News, Radio Triple J* and *Radio 2UE* and in a live *Twitter* debate, as well as publishing an article in *The Conversation*. Dr Zheng Li was interviewed by the *Australian Financial Review* on this topic and Professor John Rose appeared on *ABC News 24* and *ABC News Breakfast* discussing road user charging.

BUS RAPID TRANSIT

Busways / Bus Rapid Transit (BRT) / Dedicated Corridor Transit received some spotlight from the media in 2012. Professor Currie spoke to *The Age* about bus lanes in Melbourne. Professor Hensher discussed high visibility and high frequency bus routes in the future urban planning for Sydney with the *Daily Telegraph, Sydney Morning Herald* and the *Brisbane Times*, talked to the *Sydney Morning Herald* about the NSW Government’s BRT pre-feasibility study, and discussed busways for Brisbane with *ABC Radio Brisbane* and the *Brisbane Times*.

TRANSPORT OPINION SURVEY

As the ITLS-Sydney’s biannual Transport Opinion Survey (TOPS) indicated a decrease in public confidence in the future of transport in Australia, the results from the survey received widespread coverage in the print media and was the subject of a number of interviews with ITLS-Sydney Director, Professor Hensher, broadcast on radio and television. A key finding of the March survey, that more than half of Australians believe that taxi services in their local areas are deteriorating, was reported in regional newspapers across Australia including the *MX* (Sydney and Melbourne), *Illawarra Mercury, The Courier Mail* (Queensland), *Maitland Mercury, Newcastle Herald, Northern Territory News, Adelaide Now* and *Perth Now*, as well as receiving
national coverage in the AAP Newswire, Australian Financial Review, Herald Sun, The Australian and The Daily Telegraph and Professor Hensher was interviewed on several radio stations (ABC Illawarra (Wollongong), 4WK (Toowoomba), 2SM (Sydney), 2GB (Sydney), and 2UE (Sydney) and appeared on Channel 7 and Channel 9 TV News. The September survey found that nearly half of the nation’s train travellers complain that the level of crowding on local train services at peak times is intolerable. This was the topic of articles in The Age, Sydney Morning Herald, news.com.au, MX (Sydney), Geelong Advertiser, and Australasian Bus and Coach as well as being the focus of an interview with Professor Hensher on Channel 9 TV News.

IN OTHER TRANSPORT NEWS
As Professor Currie was interviewed on Radio 3AW on the opportunities for monorail in Melbourne, Professors Hensher and Mulley spoke to journalists about plans to dismantle Sydney’s monorail (ABC Radio National and Popular Science Magazine). Our academics were called on to comment on a number of other high profile issues in rail transport – high speed rail (Professor Hensher, The Goulburn Post; Dr Geoffrey Clifton, The Canberra Times; Professor John Rose, ABC Radio National); changes to the Sydney CityRail network (Dr Clifton, Radio 2GB), and Sydney’s proposed northwest rail link (Professor Hensher, Sydney Morning Herald, The Telegraph and Hills News) – and air transport – airline mergers (Dr Rico Merkert, Australian Aviation Magazine, The Australian, Routes News Magazine, United Kingdom); and a second airport for Sydney (Dr Merkert, The Australian; Associate Professor Greaves, Illawarra Mercury). With the London Olympics in 2012 there was discussion of the success of Sydney’s management of public transport during its Olympics; Professor Hensher was interviewed on Radio 2UE and published an article in The Conversation on this topic.

Other diverse topics discussed with the media in 2012 included: public transport investment (Professor Currie, The Age); smartcard ticket systems (Professor Mulley, Sydney Morning Herald); carbon neutral transport systems (Dr Zheng Li, online discussion Euronews and European Voice); the Australian taxi industry (Professor John Rose, ABC Radio National); road rage (Associate Professor Greaves, Channel 7 TV News); provision of transport for the elderly (Professor Hensher, ABC Radio National); modelling crowd panic (Dr Nirajan Shiwakoti, interviewed by Oxford Scientific Films for a film on 'Use of ants to model crowd panic'); road transport and road freight options (Associate Professor Greaves, ABC Radio National); Sydney’s M4 and M5 extensions (Professor John Rose, Radio 2GB); transport master plans for Canberra and Sydney (respectively, Dr Clifton, The Canberra Times and Associate Professor Greaves, City News); government predictions on congestion of Sydney roads (Associate Professor Greaves, Channel 7 TV News); the costs of a person dying on our roads (Professor Hensher, The Daily Examiner); public transport contracting (Professor Hensher, Radio 5AA); a subway for Sydney (Professor Hensher, Sydney Morning Herald); and earphones, music and cyclist safety (Dr Johnson, ABC Radio 774 Melbourne).

FOOD FOR THOUGHT
Professor Hensher contributed monthly op-ed pieces for the Australasian Bus and Coach on topics ranging from road pricing reform and the work of Infrastructure NSW, through overcrowding on metropolitan trains, comparing the cost efficiency of bus and train, and avoiding peak hour travel, to bus contracting, effective performance measures and new ways to describe bus rapid transit (dedicated corridor transit).
OUR PEOPLE

BOARDS OF ADVICE

The purpose of the Advisory Committee at ITS-Monash and the Board of Advice at ITLS-Sydney is to support the continued development and utilisation of the Key Centre as a centre of excellence adding value to the community. The academic and commercial membership of the committees gives a broad network for the sharing of expertise and experience. Particular contributions from members include: high-level advice on issues identified by the Committees and Key Centre staff for inclusion in the teaching and research programs and assistance with integration of the faculty and student activities, within the community of stakeholders.

ITS-MONASH ADVISORY COMMITTEE

Advisory Committee Meeting, March 2012

Chair, ITS-Monash Advisory Committee

Professor John Stanley
Adjunct Professor and Bus Industry Confederation Senior Research Fellow in Sustainable Land Transport, ITLS-Sydney

Professor William Young
Director, Institute of Transport Studies (Monash)

Neil Aplin
Director, Aplinquill

Bernie Carolan
Chief Executive Officer, Transport Ticketing Authority

Professor Graham Currie
Chair in Public Transport, ITS (Monash)

Charmaine Dunstan
Director, Traffix Group Pty Ltd

Rob Fremantle
Executive Director, Network and Asset Planning, VicRoads

Professor David Hensher
Director, ITLS-Sydney

Michael Hopkins
Executive Director (Policy and Communication), Department of Transport

Peter Hunkin
Transport Advisory Leader, Sinclair Knight Merz

Dr Michael Kennedy OAM
Chief Executive Officer, Mornington Peninsula Shire

Ray Kinnear
Director Network Planning, Public Transport Victoria

Chris Lowe
Executive Director, BusVic

Brian Negus
General Manager Public Policy, RACV

Dr Ken Ogden
Ken Ogden and Associates

Kate Partenio
Director, GTA Consultants

Dr Tim Patton
Director, Spatial Analysis & Research Department of Planning and Community Development

Ian Pitcher
Director, Alliances, Maunsell Australia

Professor Geoff Rose
Institute of Transport Studies (Monash) and Monash Sustainability Institute

David Teller
Area Manager Australia & NZ – Public Transport, Maritime and Aviation, SKM

L-R: Dr Tim Patton, Dr Russell Thompson (guest), Professor Jeff Walker, Dr Michael Kennedy OAM, Professor William Young, Charmaine Dunstan, Peter Hunkin, Professor John Stanley, Professor Graham Currie, Kate Partenio, Ray Kinnear, Chris Lowe, Neil Aplin, Dr Majid Sarvi, Gerard Waldron, and Omid Eftemai (guest)
Gerald Waldron  
Managing Director, ARRB Group

Professor Jeffrey Walker  
Head, Department of Civil Engineering, Monash University

ITLS-SYDNEY BOARD OF ADVICE  
Board of Advice Meeting, November 2012  
(The Board also met in May 2012)

L-R: Peter Koning, Professor Suresh Cuganesan (Guest), Mike Owen, Paul Forward, John King, Gillian Akers, Professor David Hensher, Mark Rainbird, Dr Alastair Stone, Professor Michael Bell (Guest), Claudine Moutou, Phil Potterton, Wendy Adam, Stephen Rawe, Scott Lennon and Darryl Mellish

Chair, ITLS-Sydney Board of Advice  
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Managing Director, Pacific Infrastructure Corporation

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Warren Bennett  
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Doug Dean  
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