2008 Annual Report

May 2008

INSTITUTE OF TRANSPORT AND LOGISTICS STUDIES

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2008 ANNUAL REPORT

A report on the 2008 activities of
The Australian Key Centre in
Transport and Logistics

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Australian Research Council's Key Centre Program

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DIRECTOR’S REPORT

2008 marks the 14th year since ITLS (Sydney and Monash) was established as a Key Centre, although both nodes have a much longer independent history. We have grown to a total complement of forty-six and with a sensible growth strategy, we will be growing some more over the next few years.

The key highlights in 2008 are the commencement of Professor Corinne Mulley, who joined ITLS-Sydney from the UK as the inaugural NSW Chair in Public Transport. This appointment means that the Key Centre now has the only Chairs in Public Transport in Australia (Professor Graham Currie is the Chair at ITS-Monash), making this unique globally in recognising at the highest level the challenges facing public transport. Corinne brings an interest in transport history in addition to her reputation in transport policy, planning and strategy. John Stanley, previously Executive Director of the Bus Association of Victoria also joined ITLS-Sydney in mid 2008 as an Adjunct Professor as well as the Senior Fellow in Sustainable Land Transport, the latter funded by the Bus Industry Confederation. We can look forward to a major review of the graduate and industry programs to ensure that the new expertise is harnessed to the betterment of public transport in Australia in particular.

In 2008, ITS-Monash welcomed Alexa Delbosca as a Research Fellow in Public Transport. Alexa had previously worked at the Museum of Victoria in a market research role. At ITS-Monash, she is primarily involved in the on-going ARC Linkage project on transport and social exclusion. Dr Sean Puckett returned to ITLS-Sydney as a lecturer (Sean completed his PhD in 2004 with us and returned to the USA prior to rejoining us). Sean’s research and teaching interests span both transport and logistics, with a focus on freight distribution. Congratulations to Dr Stephen Greaves who was promoted to Associate Professor at ITLS-Sydney in late 2008. ITLS-Sydney also embarked on a formalisation of a number of honorary appointments in 2008, as a way of building additional research and teaching capability. Dr Truong Truong was appointed an Honorary Professor in Sustainable Transport and Dr Peter Lok an Honorary Associate Professor in Organisational Logistics.

The Boards of Advice at each node (chaired by Dr Alastair Stone, ITLS-Sydney and John Stanley, ITS-Monash) met twice in 2008. These boards continue to play a key role in providing important advice and direction to the Institute and it is only appropriate that I acknowledge the commitment and dedication that Alastair and John bring to their roles. In 2008 ITLS-Sydney revamped the approach of the Board, meeting away from ITLS and continuing the discussion over dinner afterwards. A notable feature of the new format was the selection of one theme per meeting. In 2008 we chose to focus on opportunities for employment of our graduates as well as scholarships for the doctoral program. The latter resulted in the pilot of the post graduation work experience program in which four organisations (represented by their heads who are on the Board – AWA, Busways, PwC and TWU) took on four top graduates (from 41 applicants) for a period of three months (following an intense selection process by ITLS and the prospective employers). The program has been such a success that three of the four have been offered ongoing employment. We have commenced the same process for 2009. This approach seems to provide a more effective way of linking our graduate program to the workplace than experience gained only during study. The second Board meeting in 2008 focused on scholarships and we are progressing a number of these for 2009 with Board members.

Our Higher Degrees by Research program has really taken off in 2008, with 12 PhD candidates in Sydney and 11 at Monash. The offer of seriously attractive scholarships is what makes the difference.

In February 2008, the University of Sydney signed a memorandum of understanding with the University of Johannesburg (South Africa) establishing a partnership between ITLS-Sydney and ITLS-Africa. Professor Jackie Walters is the founding Director of ITLS-Africa which has an active Board of Advice which includes myself. Two trips to South Africa were undertaken in 2008 to sign the memorandum, give a series of lectures at the University of Johannesburg and to run a short course on choice analysis (myself and Dr John Rose). A joint research program is being developed.

Consistent with its designations as a National Key Centre in Education and Research, ITS (Monash) and ITLS (Sydney) have a range of active education programs which play a key role in developing professional capacity for the transport, traffic and logistics professions. As part of the undergraduate programs in civil and
environmental engineering, ITS-Monash had responsibility for over 450 subject enrolments in transport/traffic related subjects in 2008. In addition, the distance education postgraduate program in transport and traffic offered by ITS-Monash has experienced a continued growth in enrolments with over 100 students involved in the program from throughout Australia and overseas. The Public Transport Planning workshops offered by Professor Graham Currie (ITS Monash) in conjunction with Professor Avi Cedar (University of Auckland), attracted a record number of registrants when run in Auckland and Sydney in November 2008. A Public Transit Planning course offered in Toronto in June 2008, in conjunction with Professor Amer Shalaby (University of Toronto), attracted planners from throughout Canada and the USA. ITLS continues to attract over 200 post graduates into the programs from 30 counties. In addition the two short courses on choice analysis and choice experiments continue to attract 30 participants from around the world, with these programs regarded as the best in the field. Participants come from many disciplines (notably environmental science, health, agriculture, transport, marketing and finance). The online bus and coach accreditation program and the certificate of transport management (CTM) for the bus and coach industry continue to grow, with major reviews now completed on content and approach. In 2008, 160 operators undertook the online program and 28 operators and regulators completed the CTM.

As always, it has been a great pleasure to continue as 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.

In ITLS-Sydney and ITS-Monash our success is in no small measure due to the extraordinary support we obtain from the Dean (Professor Peter Wolnizer) and the Deputy Vice Chancellor, Research (Professor Edwina Cornish). I also wish to recognise the important role that Geoff Rose has played in leading the Monash node. I invite you to look at the fuller success of the Key Centre as set out in this Annual Report.

At the end of 2008 I stepped down as Associate Dean (Postgraduate Coursework) a position I held in the Faculty for over eight years. I would like to conclude by sharing with you the expression of appreciation that the Dean has so kindly provided to all members of the Faculty:

“David has been a tower of strength to me since my appointment as Dean ten years ago. He has been at the epicentre of the strategic transformation of our Faculty. From our first meeting - six weeks before I commenced as Dean - I saw in David not only an outstanding scholar, but a strategically-minded colleague who shared my high aspirations for our Faculty and who possessed the drive, determination and leadership to work with colleagues to make those aspirations a reality.

While continuing to lead the outstanding successes of ITLS, David has served as Associate Dean (Postgraduate Coursework) for some nine years. Of his own volition, he now gladly passes that baton to John Shields. After a long and sustained tour of duty in Faculty-wide leadership, David is devoting all his energies to building the future of ITLS - undoubtedly, his first love.

David’s professional service extends well beyond his intellectual contributions to his discipline and his Faculty-wide leadership responsibilities. He serves on several boards, panels and committees around the world most notably, perhaps, as a member of the Singapore Land Transport Authority International Advisory Panel (Chaired by the Minister of Transport), is Past President on the International Association of Travel Behaviour Research and a Vice Chair of the International Scientific Committee of the World Conference of Transport Research. He is the Executive Chair and Co-Founder of the International Conference Series in Competition and Ownership in Land Passenger Transport. In addition, David regularly advises governments and organisations on a wide range of matters pertaining to transportation.

David - on behalf of all Faculty colleagues, I can but say a most sincere “thank you” for your sustained and effective leadership contribution as Associate Deans. It has been a great joy to work with you on the Executive Committee, and I am sure that all colleagues are delighted that you are remaining on faculty!”

David A. Hensher

Systemwide Director
ABOUT THE KEY CENTRE

http://www.itls.usyd.edu.au/about/

Management structure

The management structure of the Key Centre is shown in the diagram below.
The two-node Centre is recognised by the Australian Federal Government as the National Centre of Excellence in teaching and research in transport and logistics management. The Australian Key Centre was established in July 1995 as a joint venture between the Institute of Transport Studies (ITS) within the Graduate School of Business at the University of Sydney and the Monash Transport Group within the Department of Civil Engineering at Monash University, Melbourne.

These two groups were leading Australian centres in transport and traffic management education and research in their own right prior to the establishment of the Key Centre. In January 1998, ITS Sydney relocated to the Faculty of Economics (now the Faculty of Economics and Business) and in January 2005 it was renamed as the Institute of Transport and Logistics Studies (ITLS) to reflect its new focus.

The Key Centre continues to have integrated nodes at the University of Sydney (ITLS-Sydney) and Monash University (ITS-Monash).

The Director of the Key Centre is Professor David Hensher (Fellow of the Academy of Social Sciences in Australia and Recipient of the Engineers Australia Medal for lifelong contribution to transportation) who is regarded as one of Australia’s most eminent transport academics and someone in high demand as an adviser to industry and government.

The Deputy Director in Sydney is Professor Peter Stopher internationally recognised for his research in travel survey methods and data collection, as well as his recent work on travel behaviour adaptation.

The ITLS-Sydney team consists of over 30 staff. Associate Professor Geoff Rose heads ITS-Monash, which has nine staff.

**ITLS-Sydney**

**The spirit and challenge of ITLS**

If there is one thing that our past students have said about studying at ITLS it is the high quality of the academic program and the commitment of academic and support staff in ensuring that ones time at ITLS is not only a learning experience but a period of conviviality in one's life. Everyone wants to engage in new learning as well as make new contacts from around the world and leave with a feeling of belongingness and achievement. This is the ITLS mission.

While our program is focused on academic objectives, we recognise the need for diversity in the set of management and specialist skills that produce well-rounded managers and leaders of the future. Our students like the opportunity to gain a solid grounding in the development of theory, strategy and practice backed with appropriate technical skills in transport and logistics management. The range of core and elective units of study in transportation, logistics and general management sharpen (or whet) the appetite of all our students. These ensure that the diversity of study is shaped by a need to acquire certain basic skills in management and planning. Most importantly we set ourselves the challenge to produce reflective students who can ask penetrating and lucid questions on current issues. ITLS recognises that communication skills are as important as technical skills. How often is someone impressed with the way in which a position is articulated? ITLS graduates are given the opportunity to acquire these skills through the diversity of learning media such as face to face lectures, debates, group projects, video-recorded presentations and feedback as well as on-line study.

With over 23 countries represented in our student body we are truly international. The networking has proven to be a most valuable part of the ITLS experience.

*ITLS-Sydney Cares, Inspires, Educates and Creates employment opportunities for its students.*
Articulated training

Within a University environment, ITLS has been singularly successful in introducing a fully articulated series of management-oriented learning programs to cater for a very diverse background of participants. The diversity accommodates individuals with no formal tertiary education through to those with undergraduate qualifications. The opportunity for individuals to enter our non-award courses certificate grams and to articulate through to the Graduate Certificates of Transport and Logistics Management, the Graduate Diplomas in Transport and Logistics Management, and the Masters of Transport and Logistics Management is impressive. In addition, we offer the opportunity to combine the specialist Masters programs with a number of selected Masters programs offered by the University of Sydney and the possibility to undertake postgraduate research through our PhD or MPhil program.

Keeping aware of activities at ITLS

As well its academic and training program the Institute has an extensive program of related activities including contract research to industry and government, publications, participation at conferences, software development, and links to other leading transport and logistics institutes around the world, especially in the USA, UK, Canada, The Netherlands, Chile, Brazil and Sweden.

Current updates on the diversity of activity at ITLS are readily available by visiting our homepage (www.itls.usyd.edu.au).

If you wish to keep up to date with ITLS events and activities please join our mailing list by emailing (info@itls.usyd.edu.au).

Industry links

A major strength of ITLS is its success and reputation in the custom design and delivery of training programs to suit the needs of particular organisations. ITLS has appropriate infrastructure to delivery award and non-award programs anywhere in Australia, programs that may be delivered in face-to-face, distance and / or online mode. We hope that future partnerships with industry will assist us in the upgrading of some infrastructure in a way that recognises the industry partner's support and secures world class facilities for delivering a training and education program. There are significant tax incentives for such activity. We always encourage a strong quality partnership between ITLS and a specific organisation or industry association in the development and execution of such programs. Such a partnership would involve some component of teaching by industry personnel. To illustrate this capability we refer to the very strong association and quality partnership forged between ITLS and the Bus and Coach Association of NSW and with the Roads and Traffic Authority of NSW.

In partnership with the Bus and Coach Association of NSW ITLS has developed a program designed to meet the requirements for accreditation for bus and coach companies in NSW under the Passenger Transport Act, as well as executive programs in this area. ITLS offers an online accreditation program (minimum standards) for new entrants to the industry and for incumbents wishing to stay up to date on accreditation requirements as part of the annual self audit. In addition, we offer a Certificate of Bus and Coach Operations for supervisors and a Certificate of Transport Management for managers and advisers to the industry.

For full details of these programs see: (www.itls.usyd.edu.au/courses/busandcoach.html)

The Advanced Certificate in Transport and Traffic Management (ACTTM) was originally developed in partnership with the Roads and Traffic Authority of NSW. It is now available to all transport professionals who wish to advance their ability to analyse the social, environmental and business aspects of transport planning and management and develop creative new solutions by broadening their intellectual base and deepening their understanding of transport. Individual modules of the program may be taken as short courses, the successful completion of which may be used as credit towards the ACTTM or the graduate program.
Meeting objectives

The primary objective of ITLS is to undertake graduate teaching, executive programs, grant and contract research and development in the fields of transport and logistics management. The table below show the objectives of ITLS in detail and provides performance measures to demonstrate how well the Key Centre is meeting each objective.

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<th>Objective</th>
<th>Performance measure</th>
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<tr>
<td>1. Offer specialised training courses, workshops, short courses on topics of interest in the area of transport and logistics management.</td>
<td>Development and delivery across all modes (face-to-face, distance, on-line) of high quality graduate transport and logistics programs, certificates, advanced certificates, executive programs, short courses and workshops to meet specific training needs.</td>
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<tr>
<td>2. Widen the range of courses available for middle level professional managers in critical areas of transport and logistics not currently served.</td>
<td><a href="http://www.itls.usyd.edu.au/courses/">http://www.itls.usyd.edu.au/courses/</a></td>
</tr>
<tr>
<td>5. Bring high quality transport and logistics management programs to people outside Sydney and widen the offerings of courses in Sydney through access to courses provided by ITLS.</td>
<td>Development and delivery across all modes (face-to-face, distance, on-line) of high quality graduate transport and logistics programs, certificates, advanced certificates, executive programs, short courses and workshops to meet specific training needs.</td>
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<tr>
<td>6. Undertake research to develop state-of-the-art management practices and technical processes.</td>
<td>Active research program and consultancy work for a wide range of government and private clients and a successful doctoral program.</td>
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<td>8. Contribute to Australia’s growing participation in the Australasian and Asia Pacific region in a leadership role in transport and logistics management.</td>
<td>Transfer of knowledge developed through research to client groups through:</td>
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<td>9. Collaborate with key players having an interest in transport and logistics management and its applications.</td>
<td>• publications, including 20 working papers and over 45 papers in refereed journals and conference proceedings annually;</td>
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<td>10. Provide a focus for university activity in areas of transport and logistics management and establish an environment attractive to those committed to excellence in graduate transport and logistics management programs and research.</td>
<td>• editorial positions held by staff on leading international and national journals;</td>
</tr>
<tr>
<td>11. Provide a focus for University activity in areas of transport and logistics management and establish an environment attractive to those committed to excellence in graduate transport and logistics management programs and research.</td>
<td>• participation in local and international workshops, conferences and seminars;</td>
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<td>• media engagements;</td>
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<td>• participation in local and international networks of transport and logistics managers and engineers;</td>
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<td>• in-house seminar series with internationally renowned speakers.</td>
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<td><a href="http://www.itls.usyd.edu.au/seminars/">http://www.itls.usyd.edu.au/seminars/</a></td>
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<td>All performance measures mentioned above.</td>
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ITS-Monash

While transport education and research programs have been offered at the Monash University Clayton campus for over 39 years, the formation of ITS-Monash heralded an expansion of those activities and in particular the development of a number of off-campus learning (distance education) programs. ITS-Monash now operates as a self-funded entity but continues to collaborate with ITLS-Sydney, the other node of the Key Centre. ITS-Monash is located within the Department of Civil Engineering, the original home of the transport education and research programs at Monash University.

Our Mission
To progress knowledge and practice in sustainable transport.

Our Vision
To be regarded as a provider of international standard transport education and research which contributes to the prosperity and sustainability of industry and the wider community.

Our Values
In following our mission, we:

Lead through innovation
Provide quality education and research services
Build a supportive team
Develop effective partnerships
Practise self-sustaining financial management

Our core activity areas
The activities of ITS-Monash are concentrated in the following areas:

Education
Education activities contribute to building professional capacity in the transport and traffic industry and focus on transport and traffic engineering, transport policy, planning and operations management. Education programs are offered at the following levels:
Undergraduate
Postgraduate
Continuing education: seminars, short courses and workshops
Industry programs
Research

ITS-Monash conducts research which contributes to the prosperity and sustainability of industry and the wider community through understanding, predicting and evaluating travel demand, transport operations, transport and traffic management and public transport planning and management.

ITS-Monash research is focused in four program areas:

Travel demand
Transport operations
Transport and traffic planning and management
Public transport planning and management

Professional and community service

ITS-Monash staff engage in a range of professional and community service activities including:

Arranging public lectures on contemporary transport issues
Serving as committee members of national and international bodies
Contributing to the organization of state, national and international conferences
Providing editorial services to professional journals and publications
Reviewing papers submitted for publication at conferences and in journals
BOARDS OF ADVICE

ITLS-Sydney

http://www.itls.usyd.edu.au/about/board.html

Statement of Purpose
The purpose of the Board of Advice is to support the continued development and utilization of the ITLS as a centre of excellence adding value to the community. The academic and commercial membership of the Board gives a broad network for the sharing of expertise and experience. Particular contributions from the Board Members are expected to include: high-level advice on issues identified by the Board and the Staff for inclusion in the teaching and research programs and assistance with integration of the faculty and student activities, within the community of stakeholders.

Board of Advice Members

Dr Alastair Stone (Chair), Managing Director, Pacific Infrastructure Corporation
Professor David Hensher, Director, Institute of Transport and Logistics Studies
Gillian Akers, Senior Associate, Strategic Design and Development Pty Ltd
Dr Peter Barnard, General Manager, International Markets and Economic Services for Meat and Livestock Australia (MLA)
Warren Bennett, Executive Director, Board of Airline Representatives of Australia
Professor Chandra Bhat, Department of Civil Engineering, University of Texas at Austin, USA
Professor Edward Blakely, Director, Planning Research Centre, University of Sydney
Professor Axel Börsch-Supan, Director, Mannheim Research Institute for the Economics of Aging, University of Mannheim, Germany
Professor Ken Button, Director, Transportation Policy, Operations and Logistics Centre, George Mason University, USA
Andrew Collins, Doctoral Program, Institute of Transport and Logistics Studies
Professor Paul Cousins, Professor of Operations Management and CIPS Professor of Supply Chain Management, Manchester Business School, The University of Manchester, UK
Doug Dean, Managing Director, Veolia Environmental Services, Australia
Paul Forward, Principal, Evans and Peck
Jim Glasson, Director General, NSW Ministry of Transport
Professor Phil Goodwin, Professor of Transport Policy, Centre for Transport and Society, Faculty of the Built Environment, University of the West of England, UK
Mr Nicholas Hann, Managing Director, Infrastructure, Macquarie Bank, Australia / Canada
Len Harper, Executive Director, The Chartered Institute of Logistics and Transport in Australia
Professor Trevor Heaver, Centre for Transportation Studies, Operations and Logistics Division, Sauder School of Business, University of British Columbia, Canada
Stuart Hicks, Chair, National Transport Commission, Chair, Planning and Transport Research Centre and Chair, John Curtin Institute of Public Policy
Louise Hooper, Doctoral Program, Institute of Transport and Logistics Studies
Scott Lennon, Partner – Economics, PricewaterhouseCoopers
Stephen Lucas, Chair, Bus Industry Confederation, President, Bus Association Victoria
Professor Alan McKinnon, Director of the Logistics Research Centre, Heriot-Watt University, Edinburgh, UK

Darryl Mellish, Executive Director, Bus and Coach Association NSW

Max Moore-Wilton, Executive Chairman and Chief Executive, Sydney Airport Corporation

Hal Morris, Chief Executive, Australian Logistics Council

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

Professor Tae Oum, UPS Foundation Chair in Transport and Logistics, Sauder School of Business, University of British Columbia, Canada

Greg Patmore, Associate Professor, Discipline of Work and Organisational Studies and Pro Dean, Faculty of Economics and Business, University of Sydney

Phil Potterton, Executive Director, Bureau of Transport and Regional Economics, Department of Transport and Regional Services

Professor John Pucher, Bloustein School of Planning and Public Policy, Rutgers University, USA

Mark Rainbird, Managing Director, AWA

Professor Geoff Rose, Director, Institute of Transport Studies, Monash University

Stephen Rowe, Director, Busways Group

Llew Russell, Chief Executive, Shipping Australia Ltd

Tony Sheldon, State Secretary of the NSW Branch of the Transport Worker’s Union

John Stanley, Adjunct Professor, Institute of Transport and Logistics Studies and Bus Industry Confederation Senior Research Fellow in Sustainable Land Transport

Professor Peter Stopher, Deputy Director, Institute of Transport and Logistics Studies

Professor Wayne Talley, Executive Director, International Maritime, Ports and Logistics Management Institute, Old Dominion University, Norfolk, Virginia, USA

Professor Kenneth Train, Department of Economics, University of California, Berkeley, Vice President, National Economic Research Associates, USA

Professor Peter Wolnizer, Dean, Faculty of Economics and Business, University of Sydney

Secretariat: Ms Ruth Steel, Projects Manager, Institute of Transport and Logistics Studies

Board of Advice Meetings

BoA meetings were held in May and December and 2008.
ITS-Monash

The ITS-Monash Advisory Committee met twice in 2008 with Mr John Stanley from the Bus Association of Victoria continuing to serve as Chair. The advisory committee continued to provide valuable feedback on ongoing research and teaching initiatives as well as on the Institute’s community and professional service activities.

Mr Neil Aplin, Director Meyrick Associates
Mr Peter Bentley, Chief Operating Officer, ConnectEast Group
Mr Bernie Carolan, Chief Executive Officer, Metlink
Ms Charmaine Dunstan, Director, Traffix Group Pty Ltd
Mr Rob Fremantle, Executive Director, Network and Asset Planning, VicRoads
Professor David Hensher, Director, Institute of Transport and Logistics Studies (University of Sydney)
Mr Peter Hunkin, Transport Advisory Leader, Sinclair Knight Merz
Dr Michael Kennedy, Chief Executive Officer, Mornington Peninsula Shire
Mr Brian Negus, General Manager Public Policy, RACV
Dr Ken Ogden, Ken Ogden and Associates
Ms Kate Partenio, Director, GTA Consultants
Dr Tim Patton, Manager, Planning and Policy Division, Department of Infrastructure
Mr Ian Pitcher, Director, Victoria Division, Maunsell Consulting
Professor John Stanley, Institute of Transport and Logistics Studies (University of Sydney)
Mr Michael Taylor, Secretary, Department of Transport and Regional Services (DoTARs)
Mr David Teller, Business Development Manager, Connex
Mr Gerald Waldron, Managing Director, ARRB Group
KEY CENTRE STAFF

ITLS-Sydney

Academic and research staff

Professor David Hensher
BCom(Hons) PhD UNSW; FASSA; FCIT; FAITPM;
CompIEAust; MAPA
Professor of Management
Director, Institute of Transport and Logistics Studies
Associate Dean (Postgraduate Coursework)
Faculty of Economics and Business

David Hensher is Professor of Management, and Founding Director of the Institute of Transport and Logistics Studies: The Australian Key Centre of Teaching and Research in Transport Management in The Faculty of Economics and Business at The University of Sydney. David is a Fellow of the Academy of Social Sciences in Australia, Recipient of the 2006 Engineers Australia Transport Medal for lifelong contribution to transportation, member of Singapore Land Transport Authority International Advisory Panel (Chaired by Minister of Transport), Past President of the International Association of Travel Behaviour Research and a Vice-Chair of the International Scientific Committee of the World Conference of Transport Research. David is the Executive Chair and Co-Founder of The International Conference in Competition and Ownership of Land Passenger Transport (the Thredbo Series), now in its 18th year. David is on the editorial boards of 10 of the leading transport journals and Area Editor of Transport Reviews. David was appointed in 1999 by one of the worlds most prestigious academic publishing houses – Elsevier Science press as series and volume editor of a new handbook series "Handbooks in Transport". He has published extensively (over 410 papers) in the leading international transport journals and key journals in economics as well as ten books and is Australia's most cited transport academic and number three academic economist. His books include the Demand for Automobiles, published by North-Holland the Bus and Coach Business (with Ann Brewer published - Allen and Unwin), Transport: An Economics and Management Perspective (With Ann Brewer – Oxford University Press), Stated Choice Methods (with Jordan Louviere and Joffre Swait – Cambridge University Press) and Applied Choice Analysis - a Primer (with John Rose and Bill Greene – Cambridge University Press). His particular interests are transport economics, transport strategy, sustainable transport, productivity measurement, traveller behaviour analysis, stated choice experiments, dynamic discrete-continuous choice modelling, privatisation and deregulation. David has advised numerous government and private sector organisations on matters related to transportation especially matters related to forecasting demand for existing and new transportation services, for example the Speedrail project, the Liverpool-Parramatta Transitway, the North-West Rail project, and numerous tollroad projects throughout Australia and internationally. David is regarded as Australia’s most eminent expert on matters relating to travel demand and valuation and transport reform. Appointments over recent years include: a member of the executive committee that reviewed bus transport bids for the Olympic Games, the NSW Government's Peer Review Committee for the Sydney Strategic Transport Plan, Peer reviewer for Transfund (NZ) of the New Zealand project evaluation program, Peer reviewer of the NZ Land Passenger Transport Procurement Strategy for Land Transport NZ, member of the executive committee of ATEC, a consortium promoting a freight rail system between Melbourne and Darwin; economic adviser to Gilbert+Tobin Lawyers on valuation methods in IP context; panel member of NSW Ministry of Transport benchmarking program; specialist toll road project adviser to Thiess.
Professor Corinne Mulley
BA(Hons) Nott MSc Phd LSE, FCILT
Chair in Public Transport
Faculty of Economics and Business

Professor Corinne Mulley is the founding Chair in Public Transport at the Institute of Transport and Logistics Studies. This position is funded by the NSW government. Corinne graduated from Nottingham University and holds a PhD from the London School of Economics. Since her appointment to Newcastle University as a transport economist she has been active in transport research at the interface of transport policy and economics. More recently Corinne has concentrated on specific issues raised by public transport. She led a high profile European and UK consortia undertaking benchmarking in urban public transport and has provided both practical and strategic advice to local and national governments on benchmarking, rural transport issues, and public transport management. Corinne has a long standing interest in modern transport history and is Editor of the Transport History Journal as well as nearing the completion of a long standing project, as Editor, of producing a Companion to Road Passenger Transport History covering the whole of the British Isles.

Professor Peter Stopher
BSc(Eng) PhD Lond.; FIEAust MASCE MASA MITE
Professor of Transport Planning
Postgraduate Research Coordinator

Professor Stopher is Professor of Transport Planning at the Institute of Transport and Logistics Studies at the University of Sydney, a position he has held since the beginning of 2001. He was educated at the University of London, where he received both his BSc (Eng.) in Civil Engineering and Ph.D. in Traffic Studies. He has been a professor at Northwestern University, Cornell University, McMaster University, and Louisiana State University, where he held the endowed chair of the Louisiana Land and Exploration Company. He spent 11 years from 1980 through 1990 as a full-time transport planning consultant in private industry. Prof. Stopher has 40 years of professional experience in transport planning, travel forecasting, travel-behaviour modelling, and associated areas. He has an international reputation in travel-demand modelling, and the development of new procedures for travel forecasting. He was one of the pioneers of the development of disaggregate travel-demand models and was the first to use and apply the logit model in the 1960s. He has been in the forefront of work to assess the shortcomings of conventional travel-forecasting models with respect to the demands of clean air legislation and goals. He was selected by the US Federal Highway Administration to develop one of four concept papers on a new paradigm for travel forecasting. He was a founding member of the Transportation Research Board’s Committee on Traveler Behavior and Values, serving as its first Chairman from 1971-1977, and again from 1995-1997 and was awarded Emeritus Membership of the Committee in 2002; he also founded the series of International Conferences on Traveller Behaviour that began in 1973 and which will hold its next meeting in Kyoto, Japan in 2006.

In addition to work in travel forecasting, Dr. Stopher has also developed a substantial reputation in the field of data collection, particularly for the support of travel forecasting and analysis. He pioneered the development of travel and activity diaries as a data-collection mechanism, and has also written extensively on issues of sample design, data expansion, nonresponse biases, and measurement issues. He recently completed a report on standardising household travel surveys, and is working on use of GPS devices in connection with personal travel surveys and for evaluation of voluntary travel behaviour change. Dr. Stopher initiated the TRB Subcommittee on Survey Methods, which is now a Committee of the TRB. He co-chaired the international conference on Transport Surveys: Raising the Standard, in Eibsee, Germany in May 1997, the following conference in Kruger Park, South Africa in 2001, and the International Conference on Travel Survey Methods in Costa Rica in 2004.
David Walters BA (Alberta), MSc (Bradford), PhD (Cranfield) is Professor of Logistics and Supply Chain Management at ITLS. He has held posts at the universities of Western Sydney (Sydney Graduate School of Management), Macquarie University, Oxford University (Templeton College), and the Cranfield School of Management. He has published a number of textbooks in business and marketing subjects, the most recent "Strategic Operations: a Value Chain Approach" was published in 2007. He has published over 30 articles in professional journals. He is the Australasian editor for the International Journal of Physical Distribution and Logistics Management. David Walters has teaching experience in a wide range of continents including North America, the Middle East, Europe, Asia, and Africa. In addition to his wide teaching experience he has acted as a consultant for a number of international companies. These include: BOC, CSR, Harrods, Laura Ashley, The Kingfisher Group, Storehouse, British Oxygen Company, Marks and Spencer, Tesco and a number of others.

Stephen is an Associate Professor in Transport Management, having joined ITLS-Sydney in 2004. He has extensive teaching experience in a wide variety of transportation-related courses at both the undergraduate and postgraduate levels as well as industry-based short courses. Currently, he coordinates TPTM6470 [Sustainable Transport and Logistics Systems] and TPTM6180 [Geographic Information Systems] in the postgraduate MTM program and is program director of the Advanced Certificate in Traffic and Transport Management (ACTTM). Stephen’s current research interests are focused on the environmental impacts of freight transport, exploring behavioural responses to different road-user charging mechanisms, and the use of new technologies to enhance the collection of travel survey data. He currently holds two ARC grants, advises four PhD students and continues to publish extensively in a wide-range of mediums. Stephen also provides transport consulting services to government and industry and regularly provides media commentary on contemporary transport policy issues in Sydney.

John joined ITLS in July 2008 as Adjunct Professor and Bus Industry Confederation Senior Research Fellow in Sustainable Land Transport. Prior to recently taking on this role, he had nine years as Executive Director of Bus Association Victoria, after eight years as Deputy Chairman of the National Road Transport Commission. He is a member of the Committee for Melbourne's Transport and Climate Change Task Forces, and is a board member of the Victorian Alpine Resorts Co-ordination Council. John is also Chair of the Advisory Committee for the Monash University Institute of Transport Studies. He was awarded a Centenary Medal for services to public transport and conservation.
Honorary Professor Truong Truong
BE Hons UWA LLB MA MEngSc USyd PhD Macq
Honorary Professor in Sustainable Transport Systems

Professor Truong is Honorary Professor of Sustainable Transport Systems at the Institute of Transport and Logistics Studies at the University of Sydney. He was educated at the University of Western Australia in electrical engineering (1970), at Sydney University in electrical engineering (1975) and also in economics (1977) and law (1992). He obtained his PhD at Macquarie University in 1982, specialising in economic theories of choice, demand, and the allocation of time (with applications to transport activities). Before joining the teaching staff in the School of Economics at the University of New South Wales in 07/1984 as a lecturer, and then senior lecturer (07/1989) he worked for the Australian Gas Light Company (09/1981 to 08/1983), and then the New South Wales State Department of Environment and Planning (08/1983 to 07/1984).

With a varied background in engineering, economics, and law, Truong has always been interested in interdisciplinary research on issues relating to economic development especially with reference to the transport and energy sectors. From 1997-1999, he was appointed a Visiting Associate Professor at the Center for Global Trade Analysis (GTAP), Purdue University, in West Lafayette, Indiana, USA. His work focused on the integration of energy flow data into economic input-output data base, and he helped to extend the global computable general equilibrium trade model (the GTAP model) to include energy substitution and CO2 emissions so that it can be used in the study of policies relating to climate change issues such as carbon tax, emissions trading, energy and environmental taxation. In August 2005, he was awarded a Hanse Wissenschaftskolleg Fellowship to spend 3 months at the Hanse Institute for Advanced Study in Delmenhorst, Germany to research into aspects of human economic behaviour from the perspectives of ecological economics. In July 2006, he was awarded a prestigious Marie Curie International Incoming Fellowship funded by the European Union to spend 18 months at the German Institute for Economic Research (DIW) in Berlin, Germany, to research into the development of a World Integrated Assessment model for the study of Technology Economy and Climate change (WIATEC). Truong has been an active participant at the Energy Modeling Forum (EMF 21 and 22) organised by Stanford University since 2003. He is also a Research Professor with the Department of Energy, Transport, and Environment at the German Institute for Economic Research (DIW) in Berlin, Germany (since 10/2004).

Honorary Associate Professor Peter Lok
BAppSc MHP UNSW MBA PhD UTS

Peter Lok’s main research interests are in the areas of organizational change, cross-cultural management, Asian business, HRM and performance management, organizational culture, subculture and commitment. He has worked in many countries and he has extensive consultancy and executive teaching experience particularly in the Asian region. His recent publications are in the Journal of Management Studies, Applied Psychology - an international review, International Journal of Cross-cultural management and Leadership and Organizational Development Journal. He is also the co-author of two recent books (2006): "The measurement and management of strategic change", (Pearson Prentice Hall, Sydney) and "The management of employee performance" (Pearson Prentice Hall, Sydney). Dr. Lok teaches in the areas of: Strategic change management, HRM and organizational performance, Cross cultural management and Asian Business. He has extensive work experience with international consultancy firms and clients particularly in the areas of organizational restructuring and performance management. Previously, Dr. Lok was a full time faculty of the
John is a Senior Lecturer in Transport and Logistics Management and Director of the Industry Program. John began his academic career in the field of marketing, commencing as an associate lecturer in the Discipline of Marketing at the University of Sydney in 1995. As an associate lecturer, John taught marketing principles, consumer behaviour, introductory and advanced marketing research techniques, and new product development, all at the undergraduate and postgraduate levels. In 1999, John was promoted to the level of Lecturer were he continued in his teaching role. At the same time, John acted as the quasi head of discipline when, on mass the entire discipline staff, left the University. In this unofficial role, John reshaped the Discipline, introducing new subjects and moving the Discipline into the first year of undergraduate studies. In 2001 John moved over to the ITLS to complete his PhD under Professor David Hensher, which he has since finished. At ITLS, John is responsible for running the industry program which includes courses taught to the Roads and Traffic Authority of NSW, to NSW bus operators, as well as other professional development courses open to academics and public companies. In terms of teaching, John is responsible for teaching introductory statistics, transport economics, and discrete choice modelling. John’s research interests are in the areas of discrete choice modelling and efficient stated choice experiments. John has several articles published in the top Transportation and Logistics journals (including Transportation, Transportation Research A, B and E) and is a co-author of (with Professors David Hensher and William Greene) Applied Choice Analysis; A Primer, (2005) by Cambridge University Press. He is currently writing a book on generating efficient stated choice experimental designs (with Mike Bliemer, Delft). Currently John is active in consulting, working in the areas of Toll Road evaluation and modelling, demand and take up for pharmaceutical and agricultural products. In between all this, John spent five years as a member of the Australian Army Reserve (1997-2002).

Dr Ada Suk-Fung Ng
BSc Curtin WA PhD CUHK
Lecturer in Logistics and Supply Chain Management

Dr Ada Suk-Fung Ng is a Lecturer in Logistics and Supply Chain Management at Institute of Transport and Logistics Studies (ITLS). Before joining ITLS, she was an Assistant Professor of the department of Transportation and Logistics, Malaysia University of Science and Technology (MUST). She received her PhD from the Chinese University of Hong Kong and BSc from Curtin University of Technology in Western Australia. After her PhD, she was awarded the Croucher Fellowship (2002 - 2003) from the Croucher Foundation of Hong Kong for doing a research project in the Laboratoire d’Informatique (Lix) of Ecole Polytechnique in France. She is interested in operations research and combinatorial optimisation. Her current research interests are maritime logistics, distribution network design, location problems, vehicle routing and manpower scheduling.
Professor Ann Brewer  
BA MCom Hons Macq PhD UNSW MCIT  
Professor of Organisational Logistics  

Long term secondment as Acting Deputy Vice Chancellor (Infrastructure)  
A specialist in organisational behaviour, human resource management, Ann has experience in many industries, with major projects such as teleworking, generational issues in business, value chain management, the impact of the Sydney Olympics on transport, educational needs of adult learners, all of which are pertinent to transport and logistics management. Ann has published many papers and five books. Ann is co-author (with David Hensher) of Operating a Bus and Coach Business (Allen and Unwin, 1997) and Transport: an Economics and Management Perspective, Oxford University Press (2001).

Dr Sean Puckett  
BA Hons WWU MA Washington PhD Syd  
Lecturer in Logistics and Supply Chain Management

Sean is a member of the Behavioural Choice Group at ITLS, specialising in research on information processing, group decision making and advances in non-market valuation techniques. Sean works closely with Professor David Hensher and Dr John Rose on transport policy issues including road user charging relating to traffic congestion and vehicle emissions. Sean also collaborates with Dr Stephen Greaves on a project supported by an Australian Research Council grant investigating the potential impacts of freight transport policies. In 2009 Sean will teach Transport Modes and Systems, a new core unit for Master of Transport Management students. He will also teach modules in Transport and Logistics Economics covering issues in road pricing. Sean will also serve as the Postgraduate Coordinator and Advisor for Transport in 2009. Sean completed his doctoral research at ITLS, where he studied the potential impacts of road user charging on interdependent freight stakeholders. His research produced a new econometric framework for studying group choice behaviour utilising stated preference data, and also contributed new evidence demonstrating the risk and scope of misspecification bias when ignoring the effects of information processing when analysing stated preference data. Sean received the 2006 Eric Pas Dissertation Prize from the International Association for Travel Behaviour Research for his doctoral thesis. His research has also been published in several top transport journals, including Transportation Research Parts A, B and E and Transportation.

Dr Alastair Stone  
MSc DEng Calif.  
Adjunct Lecturer in Institutional Finance

Alastair has over thirty years experience in banking, economics and engineering. He has successfully initiated, implemented and participated in major projects and infrastructure deals. He has also advised various international and domestic agencies and governments; including the Asian Development Bank, World Bank, Jakarta Municipal Government, Shanghai Municipal Government, and several Australian State Governments, on private sector participation policies and strategies. His career has covered all facets of urban affairs including senior positions with the World Bank, Lend Lease and Merill Lynch. Alastair teaches in the area of joint ventures in public infrastructure projects.
Academic and Industry Specialists

**Professor Werner Delfmann**
Adjunct Professor in Aviation Management

Werner Delfmann is Professor of Business Administration and Director of the Department of Business Policy and Logistics as well as Director of the Institute of Trade Fair Management, both at the Faculty of Management, Economics and Social Sciences, University of Cologne, Germany, where he is currently also Vice-Dean International Relations. He held previous positions as professor at the universities of Muenster, Osnabrueck and Frankfurt, was awarded an honorary doctoral degree (Dr. h. c.) by the Corvinus University, Budapest, Hungary, and was Dean of the Faculty (1999-2001) and Chairman of the Community of European Management Schools (CEMS) (1999-2003). Prof. Delfmann's fields of research include Strategic and International Logistics and Supply Chain Management, Management of Logistics Service Providers, Aviation Management, Transport and Trade Fair Management, Controlling, Operations Research. In these fields he has published widely, including more than 10 books and 100 scientific articles. Furthermore Prof. Delfmann is member of several advisory boards and R&D Committees of public and private institutions and associations, member of the board and advisor of various companies from industry, retailing and logistics services and has conducted many research projects in cooperation with private and public partners.

**Dr Peter Hidas**
MSc PhD BME
Adjunct Lecturer in Traffic Systems Management and Control

Peter Hidas joined the Department of Transport Engineering, University of New South Wales, in 1990; until 2005 he lectured in highway and traffic engineering courses both on undergraduate and postgraduate levels. His main research interests are transport modelling and microscopic simulation. While still holding a visiting appointment and continuing lecturing at UNSW, Peter joined the Transport Data Centre, NSW Ministry of Transport in 2005 as manager, transport model application. In this position Peter is supervising the running of the Sydney Strategic Travel Model. He is also involved in developing more detailed traffic models using microsimulation, integrated with the STM. At ITLS Peter will be teaching the unit of study - Traffic Systems Management and Control.

**Dr Andrew Kerr**
MBA Macq DBA IntMC
Adjunct Lecturer in International Logistics

Andrew has an extensive management and consulting background in the areas of operations management, service operations, marketing, services marketing, supply chain management and logistics. His doctoral research involved the strategic ramifications of enterprise outsourcing decisions, both in Australia and overseas.

Since late 1987, Andrew has been the Managing Director of Griffin Corporate Services; a Sydney based
strategic consulting practice with network offices in several Pacific Rim cities. Previously, he held senior management appointments with Marrickville Holdings, Myer (NSW) Limited, GEC Australia Limited, Digital Equipment Corporation, Sperry Limited and Unisys.

Andrew is a visiting fellow at a number of graduate schools and since 1989 has delivered numerous postgraduate programs in Australia and overseas. Formerly Australian and Far East Editor of the International Journal of Physical Distribution and Logistics Management, Andrew remains a member of that Journal’s Editorial Advisory Board. He is an assistant editor of the Gower Handbook of Logistics and Distribution Management.

Dr Robert Ogulin
BEc MBA PhD
Adjunct Lecturer in Supply Chain Management

Robert Ogulin is an Adjunct Lecturer in Logistics and Supply Chain Management at ITLS, teaching Innovations in Logistics and Supply Chain Management. Robert Ogulin is a director at strategy and supply chain advisory Lucis Pty Ltd. He has twelve years experience in marketing, logistics and supply chain management and has the ability to combine innovative approaches in strategy and operations with proven techniques for clients and project teams. He has planned and delivered supply chain related strategic change, process and IT programs contributing to measurable benefits for blue chip clients across different industries in Australia, Asia, Europe and the US. Through his PhD research Robert continues to focus on development and application of management decision frameworks to turn out bottom line impact for Lucis clients and their trade network partners.

Matthew Beck
BEc Hons MPhil Usyd
Adjunct Lecturer in GIS and Analysis Tools

Matthew Beck completed his undergraduate degree at the University of Sydney were he graduated with honours in Economics (specialising in International Trade and Development Economics). After flirting with studies in the analysis of discrete data and experimental design, he recently completed postgraduate research on the connectivity of individuals to the sporting teams they support. Working within the Faculty of Business and Economics, Matthew has extensive experience teaching statistics and associated research concepts, and was recently nominated for a faculty teaching award. He also works as a private consultant for many of Australia’s leading companies and has managed research projects in banking and finance, pharmaceuticals, media, and fast moving consumer goods. Matthew is now enrolled in a Doctor of Philosophy at ITLS under the supervision of Dr John Rose and Professor David Hensher. He is working in the field of stated choice modelling and group decision dynamics in the context of vehicle purchasing and emissions charging. His provisional title is: Development of a behavioural system of stated choice models: Modelling behavioural, pricing and technological opportunities to reduce automobile energy levels.
Gareth was born in the UK and educated in the UK, USA and Australia. He has spent over 20 years in a variety of senior sales, marketing and general management roles including 2 years as CEO of a well known Australian specialty retailer. His experience includes 10 years with a major US multinational marketing technology product in a B To B environment and 7 years with one of Australia's biggest retailers.

In 2002 Gareth became a founding director of GVJ Consulting Services. Gareth’s consulting work has focussed on marketing strategy, channel strategy and business format development for retailers and their suppliers. The company specialises in retail business format development from brand architecture through to financial modelling of business cases.

In 2002 Gareth was appointed a Visiting Fellow of Macquarie University and has taught courses in Marketing Operations and Brand Strategy at the Graduate Accounting and Commerce Centre as well as numerous marketing subjects at undergraduate level.

Gareth holds a master's degree in management from University of Technology, Sydney.

Michael Hasking
Adjunct Lecturer in Transport Management

Michael is currently the Manager, Information and Subsidised Travel for Busways. The company operates over 300 buses from its Blacktown, Camden, Campbelltown and two Central Coast depots. Michael's role involves the School Free Travel Scheme (SSTS), contracts held with the Ministry of Transport, information to the public and scheduling. Michael has been with Busways since 1991. Prior to Busways, Michael was employed with the Ministry of Transport in the SSTS area for a period of three years. Before that Michael spend 16 years with the Department of Motor Transport including the role of managing Motor Registries. Michael completed the Certificate of Transport Management in 1998.

Michael lectures for the ITLS in the Certificate of Transport Management courses covering the subject of School Free Travel and sectioning.

Michael has also been involved with ITLS in recently revamping the previously known CCM course into a fully interactive Ministry of Transport Minimum NSW Bus and Coach Accreditation Course. Ongoing to this is to ensure that not only the interactive sight is kept current but also any legislative changes are reflected on the interactive sight and hard copy papers.
Frederic Horst
BBCus Dusseldorf MTM Usyd
Adjunct Lecturer in International Freight Transportation

Frederic Horst is currently employed as Director Regulatory Affairs at DHL Aviation, where he is responsible for aeropolitical, environmental and other aviation regulatory matters. DHL Aviation is responsible for DHL Express’ owned and purchased air network. Previously, he held the position of Intercontinental Network Planning Manager in the same company. Before joining DHL, he worked for Cargolux Airlines, a Luxembourg based all cargo carrier operating a fleet of Boeing 747-400 Freighters. At Cargolux, he was responsible for key account development and business planning, as well as being involved in market research, fleet planning, and some business related crew training projects. Prior to this, Frederic worked as a Consultant for MergeGlobal, a Washington, D.C. based strategy consulting company focused on freight transportation, and after that was involved in several ongoing projects at the Institute of Transport and Logistics Studies. He has a Master of Transport Management from the University of Sydney and completed undergraduate studies in business at the University of Duesseldorf. Frederic teaches International Freight Transportation in the graduate program.

Chris Skinner
BSc Eng MEngSc MIEE MIE Aust MACS CPEng
Adjunct Lecturer in Intelligent Transport and Logistics Systems

Chris Skinner is a Lecturer in Intelligent Transport and Logistic Systems at the Institute of Transport and Logistics Studies, as well as Principal of DISplay Pty Ltd www.display.com.au a consulting company that works closely with Transport and Logistics companies in Australia. In 2005 and 2006 Chris developed the new unit of study TPTM6224 Intelligent Transport and Logistic Systems, which was successfully delivered in first semester 2006 and again in first semester 2007 and 2008. Student feedback was positive with encouragement to include more case studies in logistics.

In January 2007 Chris delivered a two-day seminar on Intelligent Logistic Systems to a visiting group of logistics managers from the Aluminium Corporation of China (CHALCO) and arranged for site visits to the Star Track Express sortation centre and a major retail distribution centre in western Sydney. Company planning and management for system development was a feature of the visits.

Chris has been involved in the analysis, design and implementation of intelligent transport systems [ITS] since the beginning of 1992. This started with four years with Philips Electronics Australia in association with Hughes Electronics of California and was later continued for more than five years with the Roads and Traffic Authority of New South Wales, and more recently with the Australian Road Research Board and the Queensland Department of Main Roads investigating the application of wireless communications between vehicles and roadside infrastructure for enhanced road safety and efficiency. Chris has also worked as contract project manager in retail supply chain systems integration for a major Australian grocery chain.

Chris has formed a strong working liaison with Australian national research organisations CSIRO and NICTA in the areas of software and systems engineering, with emphasis on application to transport and logistics. Work in defence, aerospace and telecommunications industries followed a distinguished career in the Australian Navy as major project director and combat systems engineering specialist at sea and in shore appointments in Australia and USA.

For over 25 years, Chris has been active in professional organisations including Engineers Australia [EA], the Australian Computer Society and within the Institute of Electrical and Electronics Engineers [IEEE] he is a member of the technical societies for computers, communications and intelligent transport systems. Chris is
the Acting Editor of Transport Engineering in Australia [TEA] published by E.A. Chris is an active member of ITS standards committees at both the Australian national and international levels covering transport information and control systems and supply chain automation. Chris has made several submissions to government on transport and technology issues and has presented at three ITS world congresses, most recently at Nagoya in 2004. From 2003 to 2005 Chris was the chairperson of the National ITS Architecture Working Group.

In November 2007 Chris wrote a feature article for the international journal Thinking Highways on his vision for ITS development over the next decade. Over the last two years Chris has been engaged as expert consultant to the Australian Roads Research Board for AustRoads and then to the Queensland University of Technology for the Cooperative Research Centre for Automotive Technology [AutoCRC] on the subject of Dedicated Short Range Wireless Communications for Road Safety and Traveller Information.

During second semester 2008 Chris has been engaged to review software and systems development processes for a world’s first freight train automation project.

In his lectures Chris emphasises the practical development and implementation of investment business cases for transport and logistic systems. The emphasis is on preparing students for their management roles that include service and product innovation involving introduction of new technology within constraints of resources, risk and safety.

Alan Win
Adjunct Lecturer in Logistics and Supply Chain Management

Alan has a background of over 30 years practical management and consulting in the areas of logistics, supply chain and value chain management. His research interests include value chain management outsourcing (3PL and 4PL), and risk versus error based inventory management. After six years consulting within an Australian based supply chain consultancy, Alan formed Middlebank Consulting Group (MCG) in 1999; an Auckland based niche logistics and supply chain consulting practice which also provides fourth party logistics services to select clients on a long term basis. As part of a consulting career, Alan has completed logistics and supply chain projects in some 50 international companies across most industry sectors and in countries ranging from New Zealand, Australia, the Pacific Islands, Malaysia, Singapore, Canada, The Netherlands, United Kingdom, Ireland, and France. Prior to his consulting career, Alan held a number of senior management appointments within major international corporates in the pharmaceutical, hardware and FMCG sectors. Alan is a certified management consultant and councilor for the Institute of Management Consultants of New Zealand. Alan has specific interests in establishing new innovative supply chain infrastructures, having been instrumental in the establishment start-ups of a number of New Zealand companies for prominent international brands including: Yoplait; Pepsi-Cola; Zenith Hardware; and Maxxium - a worldwide JV between Jim Beam, Remy-Cointreau, Highland Distillers (Famous Grouse) and Vin and Sprit (Absolut) In addition to being a lecturer at ITLS, Alan delivers numerous ongoing undergraduate and postgraduate programs at Massey University in New Zealand.
Research Staff

**Dr Stuart Bain**  
BInfTech BEng Hons PhD Griffith MIEEE  
Postdoctoral Research Fellow

Stuart completed an undergraduate degree in engineering (microelectronic) in 2001 and was subsequently awarded the Institute of Engineers Australia's Philip Jones Medal for his academic achievement, community involvement and advancement of the engineering profession. His doctoral studies, undertaken at Griffith University, examined how new algorithms may be automatically evolved to better solve particular classes of constrained optimisation problems. His research interests include evolutionary adaptation, algorithmic methods for complex systems and microsimulation. Stuart is a postdoctoral research fellow with ITLS, and is working on R-Tresis, a demand and supply modelling capability for regional NSW, and on algorithms for the construction of efficient stated choice experiment designs. He is also developing new algorithms for freight vehicle routing and for the partitioning of geographical regions for service provision.

**Dr Eoin Clifford**  
BSc UCD PhD Trinity  
Senior Research Analyst (to July 2008)

Eoin Clifford completed a PhD in nanotechnology in Trinity College, Dublin, at the end of 2006. Much to the chagrin of nanotechnologists worldwide, he joined ITLS to work with Professor Peter Stopher on GPS travel surveys in March 2007. His current research interests include GPS technology and survey data analysis.

**Christine Prasad**  
BSc(Hons) Monash CertHE Unitec NZ  
Senior Research Analyst

Christine joined ITLS in September 2008 and is currently working with Professor Peter Stopher and his team on the Long Term Monitoring project and other GPS survey projects. Prior to joining ITLS, Christine has had various work experiences in the IT industry and academia, in Australia, New Zealand and Fiji. She has worked as an analyst/programmer/ project co-ordinator in the financial services industry, as a software trainer in data analysis software, as a data analyst in the energy research industry, and as a user support consultant in a higher education institution. Within the academic sector, she has been a lecturer involved in co-ordinating and teaching IT courses (particularly computer programming, databases, and project management courses), and has held a number of administrative responsibilities. Her research career started in the area of Computer Science Education, which had her involved in a number of successful national and international research projects, as well as carrying out her individual research. Now she is involved in research that uses technology to study travel behaviour patterns, which has her managing research projects as well as carrying out various research related tasks.
Yun Zhang completed her PHD thesis in University of Technology, Sydney in 2007. During her PHD, she did a series of comprehensive studies of interdisciplinary collaboration between art and technology, where a combination of qualitative and quantitative analysis was conducted. The qualifications she holds at the moment are Bachelor of Science in Information Technology and Management in Beijing Normal University (China) and Master of Science in Multimedia and Internet Computing in Loughborough University (UK). Yun joined ITLS in December, 2007 and is currently working with Professor Peter Stopher and his team. Her current research interests are travel behaviour analysis, transportation planning and environment.

Jenny joined ITLS in July 2008. She previously worked as a Research Analyst at ITLS from 1994 to 2000. She has worked on a range of research and consultancy projects including evaluation of the impact of alternative pricing and curfew strategies on demand for casual parking in the Sydney CBD, M2 Hills Motorway user survey, evaluation of fare elasticities for the Newcastle region and performance measurement in the bus and coach industry. She is currently working with Professor Peter Stopher and his team on the long term monitoring project.

Yang Lan completed his Bachelor of Computer Science with Honours degree from North Eastern University (China), achieving first class final design and paper in 2005. In 2008, he graduated from University of Technology, Sydney, and the qualifications he holds at the moment are Master of Commercial Software Engineering, and Master of Information Technology Management in UTS. Yang joined ITLS in September, 2008 and is currently working with Dr John Rose and his team. His main interests are programming and computer surveys.
Dr Wu Quan achieved his Bachelor of Science in Information Science in 1999 and Master of Engineering in Computer Software and Theory in 2002 both with first class honours from Beijing Institute of Technology (China). He worked as analyst programmer from 1999 to 2003 with several organizations including Motorola (China) and the Chinese Ministry of Education. He received three years of scholarship from the Faculty of Information Technology, University of Technology Sydney in 2003 to study for his PhD in Computing Sciences which he finished in 2006. His PhD study was focused on information visualization and visual data mining. After then, he worked as a research officer with the School of Information Technologies at the University of Sydney, where he did several projects on graph drawing and visual analytics. He moved over to the ITLS in September, 2008 and is currently working with Dr. John Rose and his team. Wu has one book and several journal and conference papers in press. He has chaired a few international conferences. His research interests include Information Visualization, Graph Drawing, Visual Analytics and Mobile Ad Hoc Networks.

Jun Zhang holds a Bachelor of Engineering with Honours degree from the Wuhan Technical University of Surveying and Mapping and worked as a surveyor in China. Jun joined ITLS in April 2005 and is currently working with Professor Peter Stopher on the use of passive GPS devices in household travel surveys. His main interests are programming, GPS and GIS data processing and analysis.

Tharit Issayarangyun achieved his Bachelor of Civil Engineering in 1998 with second honour from Kasetsart University, Thailand. He received a partial scholarship from The Asian Institute of Technology, Thailand, to pursue his Master of Civil Engineering (Transportation Engineering) which he completed it in 2000. After that he worked as a research associate at the Asian Centre for Transportation Studies for one year. His particular duties were to lead a group of graduate traffic engineer, provide supervision on traffic data collection, research and analyse the relationship between traffic conditions and ambient air quality using Bangkok as a case study, and assist the project manager in final report writing. He completed his Doctoral degree in Civil and Environmental Engineering from University of New South Wales in 2005. His PhD thesis involved studying the impacts of aircraft noise on community health and well-being, and developing a ‘new’ easier-to-interpret aircraft noise index. After finishing his PhD, he worked with Renzo Tonin and Associates (NSW) for one year in their Environmental Acoustic Team (2) as a graduate engineer. He was involved in a diverse range of acoustical projects. His responsibilities included site inspections, environmental noise calculations, computer noise modelling and providing advice on the control of noise.
He is currently working within the Institute of Transport and Logistics Studies on determining the variability of personal exposure to fine particulates for urban commuters inside an automobile.

Administration associates

Jo Dumergue
Office Manager

Jo joined the ITLS team in 2001 and manages the administration of the Institute of Transport and Logistics Studies including the office of the Director/Associate Dean. Jo manages the graduate program and is responsible for creating the ITLS graduate timetable, room bookings, class notes, class listings and processing of final grades and amended results. She prepares and distributes the Annual Report for Senate and the Graduate Program Brochure for the graduate program. Jo ensures that visiting academics and occupational trainees to ITLS have their accommodation arranged prior to their arrival in Sydney and is responsible for producing the Visitors Handbook which is a compilation of information visitors new to Sydney find helpful. Jo manages the annual awards ceremony held in March and is responsible for gathering all relevant information for the final selection of award recipients and arranging plaques and prizes for the awards evening. Jo is the OH&S representative at ITLS.

From 1997-2001 Jo completed a number of assignments including providing executive support at Yooroang Garang, Indigenous Health at Cumberland Campus, and was the Executive Officer for two years at the Faculty of Dentistry Foundation, Faculty of Dentistry.

Prior to joining The University of Sydney in 1997, Jo managed her own business and information services office in Bali, Indonesia.

Anne Fernando
ACMA
Finance Coordinator

Anne joined ITLS in 2001 and provides administrative support and financial management to the Institute of Transport and Logistics Studies. Prior to migrating to Australia Anne has worked as an Accountant in Sri Lanka. Anne is responsible for preparation, presentation and revision of the budget of ITLS to the Faculty of Economics and Business and the University. She is responsible for timely processing of spendvision, accounts payable, accounts receivable, petty cash banking etc. Preparation and submission of financial data to external clients to secure projects and funding. She also carries out financial analysis of ITLS projects to assess viability and profitability of the projects. Prepares the financial statements for the annual reports, it involves preparation of income and expenditure statements and analysis of significant variances. She does the forecasts on a monthly basis and quarterly reconciliations. Manages the numerous grants received by academics from Faculty, ARC grants etc. She also provides clarification of policies and procedures relating to Finance matters.
Ruth joined the Faculty of Economics and Business in September 2003 working with Professor David Hensher (Associate Dean, Postgraduate Coursework) on a number of faculty-wide strategic initiatives including the review and development of graduate programs and the development and implementation of student related policies and procedures. She has also conducted education research for the Faculty in liaison with the Office for Learning and Teaching.

At ITLS Ruth is responsible for various projects related to the development and review of learning and teaching policies and strategies and the implementation of innovations in this area. She also has an information and communications role at the Institute in developing promotional materials for the Institute, looking after branding issues, acting as website manager and coordinating the successful ITLS Research Seminar Series. In 2004 Ruth assisted Professor Hensher to edit a collection of papers from the eighth conference of the international conference series on Competition and Ownership in Land Passenger Transport (Thredbo). The book was published by Elsevier in 2005. She was the Conference Director for the tenth conference in the Thredbo series which was held on Hamilton Island, Australia in August 2007. Ruth is also secretariat to the ITLS Board of Advice.

After moving to Sydney from the UK in September 2002 Ruth completed a number of short term assignments in executive support and education administration at the University of Sydney. Prior to this she worked in the Planning and Management Information Office of the University of Exeter, UK. After completing an undergraduate degree in Politics and Religion at the University of Lancaster she went on to gain her Masters in Ethnic Relations from the University of Bristol. Funded by a scholarship from the Economic and Social Research Council she was awarded her MPhil from the University of Bristol in 2004. The title of her thesis is: The Host Country, From Protection to Control: UK Refugee Policy and Practice. Ruth worked for two years as an Information Officer for a refugee agency providing reception support to refugees on arrival to the UK, prior to this she worked as a Front of House Manager at a community arts centre and theatre. Ruth is currently studying for a Diploma in Law with the Law Extension Committee of the Legal Practitioners Admission Board, University of Sydney. In support of her law studies, in 2005 Ruth was awarded a Career Development Support Grant from the University of Sydney's Staff and Student Equal Opportunity Unit and in 2006 she was awarded a Staff Scholarship from the Faculty of Economics and Business.

Annette has a varied professional background beginning with many years experience in early childhood development, working for the Gabba Greyhound Racing Club, Queensland Cricketer's Club, the Y.M.C.A. and the Lions Australian Rules Football Club; all sponsors of child care centres. In more recent years she has had experience in superannuation and investment banking. Annette has travelled extensively and lived in Vancouver, Canada and London, England; and enjoys experiencing new cultures. At ITLS Annette is the first point of contact for postgraduate and industry student enquiries. Annette also assists lecturers and works directly with the Director of the Industry Program and is involved in all other ITLS events.
Bart Ahluwalia  
BA Hons London  
Administrative Assistant

Bart immigrated to Australia in 2004 and settled in the Western Suburbs. Since earning his BA (Hons) in Classical Studies from King's College London, most of his employment has been for charities, national and international. He enjoys foreign travel and the culinary delights this offers. He has a keen interest in politics/current affairs, music and history. He has joined Professor Stopher’s team providing administrative support for the various Stopher team projects and manages the day to day running of the Advanced Certificate in Transport and Traffic Management. Many of the projects involve the use of cutting edge technology in the usage of GPS devices for surveys.

Kaylene Bodell  
Administrative Assistant

Kaylene joined ITLS in March 07 working part-time and providing administrative support. Kaylene is the first point of contact for student enquiries and also assists with catering and setup of seminars held at ITLS. After being a lady of leisure for a few years (two kids, three dogs, a rabbit and tropical fish) and operating as an owner builder on her house, Kaylene decided to return to the workforce. Previously, Kaylene worked for 16 years for Oracle Corporation Australia in the Finance Department which included Purchasing, Payables, PA to the CEO Expense Analyst and internal Auditing which involved the implementation of Oracle’s expense policies and procedures I loved every moment of it.
Visiting academics

Professor David Layton  
Visiting Professor  
September 2007 to June 2008

David Layton is an Associate Professor in the Daniel J. Evans School of Public Affairs, and an adjunct Associate Professor in the Department of Economics and the College of Forest Resources, at the University of Washington in Seattle, Washington. His Ph.D. is in economics from the University of Washington and he was a Post-Doctoral Fellow at Stanford University. He also taught at the University of California, Davis prior to his current position. He is an environmental economist whose research focuses on Stated Preference approaches to non-market valuation and discrete choice modeling. His work has been published in journals such as The Review of Economics and Statistics, Journal of Environmental Economics and Management, and the Journal of the American Statistical Association. His recent work has focused on the efficacy of voluntary approaches to conservation using Stated Preference data, and locational choice modeling of large commercial fishing boats. His current work is focusing on travel behavior and land use modeling.

Professor Michiel Bliemer  
ITLS/Delft Partnership Visiting Professor  
December 2007 to April 2008

After finishing his Masters degree in Econometrics and Operations Research, Michiel Bliemer received his PhD in transportation planning and traffic engineering on the topic of dynamic traffic assignment with heterogeneous travellers. Currently, he works as Associate Professor at Delft University of Technology in The Netherlands and since three years as Adjunct Professor at the Institute of Transport and Logistics studies in Sydney. Main research topics include (large scale) analytical dynamic network models for forecasting future network conditions and effects of dynamic traffic management measures, particularly the impact of road pricing. Another important research topic is the design of efficient stated choice experiments for estimating discrete choice models. Other topics of interest are travel choice behaviour under uncertainty, dynamic queuing models, and optimal control problems with conflicting interests using game theory.

Dr Danny Campbell  
BSc MSc PhD QUB  
Visiting Scholar  
May to June 2008

Dr Danny Campbell is a Post Doctoral Research Fellow at Queen’s University Belfast in Northern Ireland. He received his PhD in environmental economics on the topic of environmental non-market valuation and a M.Sc. in rural development. His current research focuses on the economic valuation of rural landscapes, fish conservation and illegal waste disposal. Danny has a particular interest in methodological and econometric issues associated with discrete choice models. His recent work has focused on preference discontinuity,
lexicographic preferences, spatial issues in choice modelling and learning/fatigue effects in choice experiments. Other research topics of interest include spatial econometrics, rural development and agricultural economics.

**Associate Professor Concepcion Roman**  
Visiting Academic  
July 2008 to January 2009

Concepción Román has a PhD in Economics at the University of Las Palmas de Gran Canaria (ULPGC) and is a graduate in Mathematics at the Universidad Autónoma de Madrid. She is Associate Professor of the Applied Economic Analysis Department and is now the Head of the Department. She has more than 14 years of professional experience in the field of transport economics in the areas of demand transport modelling, air transport and its regulation. Dr. Román has participated as expert and consultant in some projects of the European Union (EU) and other international top-level institutions. She was the president of the XIV Panamerican Conference held in Las Palmas. She has written over 40 papers that have been published in peer-reviewed journals and books in the field of transport economics. In the last 10 years she has given over 50 presentations at international conferences.

**Associate Professor Juan Carlos Martin**  
Visiting Academic  
July 2008 – January 2009

Juan Carlos Martín has a PhD in Economics at the University of Las Palmas de Gran Canaria (ULPGC) and is a graduate in Mathematics at the Universidad Autónoma de Madrid. He is Associate Professor of the Applied Economic Analysis Department. He has more than 10 years of professional experience in the field of transport economics in the areas of urban transport, air transport and its regulation. Dr. Martin has participated as expert and consultant in some projects of the European Union (EU) and other international top-level institutions, such as, The World Bank. He is the European Regional Editor of Transportation Journal and the Vice-President of Nectar. He has written over 40 papers that have been published in peer-reviewed journals and books in the field of transport economics. In the last 10 years he has given over 50 presentations at international conferences.

**Dr Brett Day**  
Visiting Academic  
September to December 2008

Dr Brett Day is a visiting academic at ITLS from September to December 2008. Brett is a senior lecturer in environmental economics at the University of East Anglia in the UK. His research focuses primarily on identifying economic preferences for non-market goods using market, survey or experimental data. Brett has a strong background in micro-econometrics which forms a recurrent theme in his research. Currently Brett is involved in a variety of projects. Of particular interest are projects looking to integrate the spatial dimension into the valuation of geographically distributed environmental goods using both revealed and stated
Dr Stephane Hess is a principal research fellow in the Institute for Transport Studies at the University of Leeds. He is also a visiting research fellow in the Institute for Transport and Logistics Studies at the University of Sydney. He has formerly held posts as a research fellow in the Centre for Transport Studies at Imperial College London and as a senior researcher in the Institute for Traffic Planning and Transport Systems at the Swiss Federal Institute of Technology Zürich (ETH). He has also spent time as a visiting researcher in the Department of Civil Engineering at the Massachusetts Institute of Technology. Hess holds a PhD in transport demand modelling from Imperial College London, and a MPhil in Statistical Science from Cambridge University. His main research interests lie in the use of advanced discrete choice models for the analysis of travel behaviour. Here, Hess has made several recent contributions to the state of the art in the specification, estimation and interpretation of such models, while also publishing a number of papers on the benefits of advanced structures in actual large-scale transport analyses. He has published over twenty journal papers, several book articles and has made over 80 presentations at international conferences. His contributions have been recognised by the 2005 Eric Pas award for the best PhD thesis in the area of travel behaviour modelling, and the 2004 Neil Mansfield award handed out by the Association for European Transport. He is also the editor in chief of the Journal of Choice Modelling and the organiser of the International Choice Modelling Conference.

Dr Sean Doherty is an Associate Professor in the Department of Geography and Environmental Studies at Wilfrid Laurier University. His interests focus on human activity/mobility patterns and decision making, including tracking methods, modeling, and the impacts on health, safety, and the environment. He is currently leading several research projects involving application of a personal Global Positioning System (GPS) tracking system to the study of diabetic patients, home-care patients, tourists, and immigrants. Partners in these projects include Research in Motion (RIM), Telus, and Innovations at the University of Toronto. Dr. Doherty also enjoys an active family life and is an avid hockey player.
Professor Knut Haase
Visiting Professor
December 2008 to March 2009

Professor Haase received his academic education at the University of Kiel in Germany. After his diploma-degree in business administration and his PhD-thesis on production planning and scheduling he has worked several years on large scale optimisation problems with applications in marketing, logistics, and public transport. Now, he has a permanent position as professor for management of transport companies and logistics at the university in the City of Dresden. He has successfully applied column generation methods for solving the complex vehicle and crew scheduling problem which arises in public transport company. Currently, he is working on mathematical optimization problems in which the results of a discrete choice analysis should be integrated without deriving highly non-linear model formulations.

The location planning problem for schools with free school-choice is one application in which the school-choice probabilities derived form a type of multinomial logit-analysis has to be integrated. The main problem is that the choice probabilities are depending on the solution, thus they cannot assumed as given input data. A similar problem arises in line planning in public transport for which existing solution approaches assume that the demand is given, but this contradicts the observation, that the demand depends on the supplied service.

For solving such problems based on linear programming methods, Prof. Haase tried to take advantage of the features of specific discrete choice models and another direction is the incorporation of simulated data directly in the optimisation approach.

Xueping Deng
MEng Chongqing
Occupational Trainee
May 2007 to May 2008

Xueping Deng is a third year PhD candidate of Mechanical Engineering College of Chongqing University P.R. China, whose research interest is the service quality of automobile logistics, specializing in automobile parts logistics, entire vehicle logistics and the management of the logistics operational process. As an Occupational Trainee at the Institute of Transport and Logistics Studies, and funded by the government of P.R.C., Xueping will study at ITLS for one year, from June 2007 to May 2008 for his Doctoral dissertation. He has a Master's degree of Mechanical Engineering from the Chongqing University, and has passed a national competition and examination to study abroad. Xueping Deng’s supervisors for this research are Dr Ada Ng and Professor David Walters.
Andreas Madlencnik
Occupational Trainee
July 2007 to January 2008

Andreas Madlencnik is studying Industrial Logistics at the University of Leoben, Austria. The field of study include technical and economic basics, information technologies and logistics-specific units (international logistics, distribution logistics, warehouse logistics, Supply Chain Management). Andreas is an Occupational Trainee at ITLS until December 2007, is supervised by Professor David Walters and his project while at ITLS is on 'the effect of transport disruptions/unreliability on supply chain chains'.

Reinier Beelaerts
BSc Delft
Occupational Trainee
January to May 2008

Reinier Beelaerts holds a Bachelor of Science in System Engineering, Policy Analysis, and Management from Delft University of Technology in The Netherlands. During his Master in Transportation, Infrastructure and Logistics, he focused his interests on Transportation modelling. Reinier is visiting ITLS as part of his MSc thesis which is focused on airline choice modelling and estimation. Reinier is being supervised by Professor Michiel Bliemer and Dr John Rose.

Mathieu Barbot
Occupational Trainee
March to August 2008

Mathieu Barbot is a member of the ENTPF, the French civil work and transportation engineering school. As part of his curriculum, he is visiting ITLS on an internship, working on a review of public transport elasticities in the context of Sydney's train and bus services. His supervisors are Professor David Hensher and Zheng Li.

Maxence Thibault
Occupational Trainee
May to August 2008

Maxence Thibault is in his first year of a three year engineering degree course in Production Engineering at the Institut Superieur de Technologie de Vendee (IST Vendee), La Roche sur Yon, France. Subjects include mechanics, automation, logistics and industrial engineering. He is visiting ITLS on an internship, working on customer information in bus and train services. His supervisor is Dr Ada Suk-Fung Ng.
Carol Kirchhoff
Occupational Trainee
September 2008 to January 2009

Carol completed her Bachelor of Mathematics and the first year of her Masters of Mathematics at EPFL, Switzerland. She is currently continuing her thesis at ITLS. This will lead her to become a Mathematics Engineer.

Higher degrees by research program

Elizabeth Barber
M.Ec.St. Qld
Doctoral Program

The topic for Elizabeth’s PhD focuses on strategies in supply chains and performance metrics associated with achieving the strategic goals. Alignment of strategic goals amongst all participants of the supply chain or network will improve performance of the chains. Strategies include efficiency and effectiveness, growth, environmental, risk and security as well as in particular, production, inventory and distribution strategies. Elizabeth has been an industry specialist lecturing in the graduate program at the ITLS for the past few years. Her supervisors are Professor Peter Stopher and Professor David Walters. Her provisional thesis title is: Strategic issues in supply chain management.

Matthew Beck
BEc(Hons) MPhil USYD
Doctoral Program

Matthew Beck completed his undergraduate degree at the University of Sydney were he graduated with honours in Economics (specialising in International Trade and Development Economics). After flirting with studies in the analysis of discrete data and experimental design, he recently completed postgraduate research on the connectivity of individuals to the sporting teams they support. Working within the Faculty of Business and Economics, Matthew has extensive experience teaching statistics and associated research concepts, and was recently nominated for a faculty teaching award. He also works as a private consultant for many of Australia’s leading companies and has managed research projects in banking and finance, pharmaceuticals, media, and fast moving consumer goods. Matthew is now enrolled in a Doctor of Philosophy at ITLS under the supervision of Dr John Rose and Professor David Hensher. He is working in the field of stated choice modelling and group decision dynamics in the context of vehicle purchasing and emissions charging. His provisional title is: Development of a behavioural system of stated choice models: Modelling behavioural, pricing and technological opportunities to reduce automobile energy levels.
Jyotirmoyee Bhattacharjya
BSc Hons (Physics) Calcutta MA (Astronomy) BU MCom (IS Management) Curtin
Doctoral Program

Jyotirmoyee is a doctoral candidate in logistics at ITLS. Her PhD focus is on IT enabled interaction capabilities, their antecedents and consequences in value chain networks. Jyotirmoyee has a diverse research background in both quantitative and qualitative research. Her provisional thesis title is: An interaction cost perspective on value chain networks. Her prior research work has been published in Information Systems and Space Physics conferences and journals. Her supervisor is Professor David Walters.

Montathip Chanpum
BS (Agribusiness) KU MABE CU MLM USYD
Doctoral Program

Montathip achieved her Bachelor of Economics (Agribusiness) in 1998 from Kasetsart University, Thailand. After that she continued to study and completed a Master degree in Business and Managerial Economics (MABE) from Chulalongkorn University, Thailand in 2000. Then, she joined the Office of the National Economics and Social Development Board (NESDB), Thailand, and has been with the organisation as a Policy and Planning Analyst since 2001. In NESDB, her responsibilities were analysing and monitoring programs and projects, developed by executing government agencies, mainly in the area of industrial sector, agro industry, and agricultural sector. In 2007, she was awarded a scholarship from the Royal Thai Government to further her study to a PhD in logistics and supply chain management. She completed Master of Logistics Management at the University of Sydney in 2008. Her research interests are logistics and supply chain management for the agricultural sector and agro industry, especially collaboration, trust and relationship marketing in the organic industry. Her supervisors are Professor David Walters and Dr Ada Suk-Fung Ng and her provisional thesis title is: Collaboration and trust in Organic Supply Chains.

Demi Chung
BEC Hons BCom Macq
Doctoral Program

Demi holds a Bachelor of Economics (Honours) and a Bachelor of Commerce-Accounting from Macquarie University. In 2007, she joined ITLS as a PhD candidate. Her PhD focus is to quantify the risk perceptions of different stakeholder groups to a tollroad project delivered under the Public-Private-Partnerships (PPPs) model. In 2003, Demi received her first research grant from the Ronald Henderson Research Foundation to undertake her honours research in PPPs. In 2008, she, together with her PhD supervisors were awarded an external research grant from the Accounting and Finance Association of Australia and New Zealand (AFAANZ) for undertaking her PhD studies. Demi's supervisors are Professor David Hensher and Dr John Rose and the provisional title of her PhD is: Optimising Risk Sharing: A Quantitative Study of the Multidimensional Nature of Risk in Private Provision of Road Infrastructure.
Geoffrey holds a Bachelor of Economics with first class Honours in Economic Statistics from the University of Queensland where he graduated in 1999. Prior to joining ITLS Geoffrey worked for three years at the Reserve Bank of Australia in Sydney in the Financial System Stability Department. In his role as a Doctoral research student and research analyst in ITLS, Geoffrey focuses on public transport issues, in particular the challenge to grow public transport patronage and the role of frequency and connectivity on the demand for bus services along 'Strategic Bus Corridors'. Research projects in ITLS focus on the use of stated choice methods and optimal pricing theories as tools to support the development of public transport outcomes that are both socially optimal as well as financially viable to operators in the presence of optimal subsidy payments. Geoffrey's PhD is being supervised by Dr John Rose and Professor David Hensher. His provisional PhD title is: The role of frequency and connectivity in delivering enhanced bus systems in urban areas: Developing a network of corridor services.

Andrew joined ITLS in December 2002, working casually on a range of internet stated choice surveys. In 2003 he completed his honours year of a combined BSc/BA degree. Co-supervised by Peter Stopher, he completed his thesis on 'Web visualisation of GIS data', achieving first class honours. Andrew joined ITLS full time in November 2003. He developed an online, animated trip visualisation tool for use with prompted recall surveys that utilise GPS data. Andrew has built a range of database systems to improve the data integrity and administrative efficiency of the many Stopher projects. He has an interest in improving the visual quality of survey materials, computer surveys, and database front-ends. In addition to the numerous online surveys that he has constructed, Andrew has programmed computer assisted personal interview survey programs for a range of research projects, including the study of urban freight movement with David Hensher and Sean Puckett, toll road and route choice studies with David Hensher and John Rose, and bushfire evacuation studies with Peter Stopher and John Rose. Andrew has worked extensively with John Rose and Michiel Bliemer on the generation of optimal experimental designs for stated choice experiments. He is currently developing a software package that will find highly efficient designs for a wide range of stated choice experiments. With Stephen Greaves, Andrew has examined the impact of aircraft noise, with a particular focus on the exposure consequences of a dynamic, moving population. Andrew has several refereed journal articles in press, and has presented papers at several conferences. In 2006 Andrew was awarded the David Willis Memorial Prize from the Australasian Transport Research Forum 2006 for the best paper by a student or new professional. Andrew is now studying for this PhD on Including process in models of choice, supervised by Professor David Hensher and Dr John Rose.
Simon Fifer
BEC USYD MAppStats Macquarie
Doctoral Program

Simon holds a Bachelor of Economics from the University of Sydney and a Masters of Applied Statistics from Macquarie University. Prior to joining ITLS Simon worked as a Research Analyst / Manager for 5 years at a market research company who specialise in pharmaceutical market research. Simon has always had an interest in statistics, in particular choice modelling and is hoping to focus his research efforts in this area. Simon is being supervised by Associate Professor Stephen Greaves and Dr John Rose. His provisional PhD title is: Hypothetical bias in stated choice experiments: Is it a problem? And if so, how do we deal with it?

Louise Hooper
BA Hons UNSW MBA Deakin
Doctoral Program

Prior to commencing a PhD in July 2004, Louise worked with Professor David Hensher in his role as Associate Dean (Postgraduate Coursework Programs) on a range of strategic initiatives in the Faculty of Economics and Business. Her diverse background includes market research analysis and defence logistics. Current research interests include uncertainty, contracting, bus industry reform and choice modelling. Thesis title: 'Application of principal-agent theory in urban public transport contracting'. Thesis supervisors: Professor David Hensher and Dr John Rose.

Qingjian Jiang
MEng, South China University of Technology; BEng, Tsinghau University
Doctoral Program

Qingjian had worked at ITLS between December 2001 and February 2005 as a Research Analyst. He had participated in research of using GPS technology for household travel survey data collection and developed computer software for GPS travel survey data processing. His interests are travel demand modelling and forecast and innovative applications of GIS and GPS technology in transport. He is the recipient of the 2005 William Barclay Parsons Fellowship with the awarded research project of ?Improved Transit Planning from Smartcard Generated Data?. Qingjian is now working for Parsons Brinckerhoff Australia as a Senior Transport Modeller and studying for his PhD on Travel Tour Modelling with Multi-Day GPS Travel Survey Data, supervised by Professor Peter Stopher and Dr John Rose.
Zheng Li  
BEng BUAA MHRM Monash MLM Usyd MPhil USYD  
Doctoral Program

Zheng Li's current area of research is time series data analysis, econometric modeling and policy scenario analysis, with a focus on transport fuel demand forecasting and its economic/environmental implications. Zheng recently completed his Master of Philosophy (MPhil) in Economics and Business study, and has been working as a research analyst at the Institute of Transport and Logistics Studies (ITLS) since March 2007. He has extensively worked with Professor David Hensher on a number of projects, where his key role includes: developing database, analysing data, establishing econometric models and writing papers/reports. Zheng has several refereed journal articles and book chapters in press, and has presented papers at several conferences. His supervisors are Professor David Hensher and Dr John Rose.

Qian Lu  
BEng Tongji MTM/MLM Usyd  
Doctoral Program

Qian Liu holds a Bachelor of Engineering, majoring in transport from Tongji University, China. Qian completed her Master of Transport Management and Master of Logistics Management at ITLS in 2006. Qian's doctoral research will be focused on investigating environmental/health externalities of transport. Qian is being supervised by Associate Professor Stephen Greaves and Professor Peter Stopher.

Joe Fai Poon  
BEng Civil NTU MSc Transp Lond  
Doctoral Program

Joe holds a Bachelor of Engineering (Civil) from the Nanyang Technological University (NTU) of Singapore where he graduated in 1996. He joined the Land Transport Authority (LTA) of Singapore in 1997 and has been with the organisation since. In LTA, he was worked in the areas of policy, planning and public transport regulation. He spent a year in London to pursue the Intercollegiate Masters of Science in Transport from the University of London, which he completed in 2000. Joe is supported by the LTA to undertake research at ITLS leading to a PhD. His research topic is Analysing the Effects of Travel Information on Travellers' Decision Making and Learning. He is being supervised by Professor Peter Stopher and Associate Professor Stephen Greaves.
Ali Shahi is a Senior Traffic Engineer with over 12 years of traffic and transportation experience. He has specialist experience in traffic engineering, parking management transport planning. Ali has undertaken numerous traffic and transport studies for both private and local government organisations. His project involvement includes traffic operational analyses, traffic impact analyses, congestion management systems, roadway design, and traffic signal design. He is proficient with several traffic engineering software programs including, VISSIM, SIDRA, SCATES, Synchro, and HCS. Experience also includes development and analysis of travel, trip generation, and trip distribution characteristics by trip type and purpose for internal origin-destination surveys. Ali's research interests are in Traffic engineering, ITS, Simulation and Safety And has expertise in: Project Management; Civil Engineering; Traffic impact assessments of development applications; Local area traffic management schemes; Network efficiency studies; Parking management studies; Incident management, road safety and risk assessment; Roadway Design;and Microsimulation. Ali is also a member of the following organisations: National Professional Engineers Register - NPER- (Civil); Chartered Professional Engineer (CPEng); Professional Engineer License in the State of Texas; Member, Institution of Engineers; and Member of the American Society of Civil Engineers. Ali's supervisor is Professor Peter Stopher and his provisional PhD title is: Factors influencing the household's vehicles ownership pattern and utilisation.

Claudine Moutou

Claudine completed her Master of Environmental Management in 2007 and a Bachelor of Arts (Sociology, Women and Gender Studies) in 1995, both from the University of NSW. Prior to joining ITLS Claudine worked for 3 years at the NSW Department of Environment and Climate Change where she worked in regulatory, research and policy roles to reduce environmental impacts from business and transport. Claudine has worked as an Environmental Education Officer in local government, as well as project management roles in the not-for-profit sector in Sydney and Manchester, England where she worked on social inclusion and regional economic development projects.

Claudine's research focuses on the use of transport services amongst small and medium-sized businesses and adaptation strategies for helping them thrive in a carbon-constrained economy. Her provisional PhD title is: Reducing transport emissions and increasing profitability amongst small and medium-sized enterprises (SMEs) through green logistics and travel demand management. Her supervisors are Associate Professor Stephen Greaves and Dr Sean Puckett.
Zeyan Zhang holds a Bachelor of Economics with accounting and auditing major and a Master of Logistics Management from ITLS. Due to high scholastic achievement, she was awarded the Ma Ching Prize for the most outstanding student in the graduate coursework or research program in transport and logistics, and has been selected for membership in Beta Gamma Sigma, the international honor society for collegiate school of business. She has six years' experience of Business Analysis, Procurement and Cost Management in manufacturing industry in China and one year's experience of accounts management and freight management in an international forwarding company of Sydney. Her research area is supply chain disruption costs and disruption management strategies, her provisional thesis title is: Supply Chain Disruption Costs in the International Maritime Industry. Her supervisors are Professor David Hensher and Dr John Rose.
ITS-Monash

Academic and research staff

Associate Professor Geoff Rose
BEng QIT, MSc PhD Northwestern, MIEAust CPEng MITE MAITPM
Director, ITS-Monash
Transport Theme Leader, Monash Sustainability Institute

Geoff’s research focuses on travel demand management, specifically voluntary travel behaviour change, and the development of intelligent transport systems through use of advanced technology. His research on voluntary travel behaviour change addresses the design and evaluation of interventions to reduce the impacts of motor vehicle use. He has recently led research that evaluated the potential for EcoDriver training to reduce fuel consumption and emissions. Other recent projects have examined the implications of alternative personal transport vehicles for our road system, developed a framework for appraisal and evaluation of travel demand management measures and enhanced understanding of the variability in travel times which road users experience when travelling in urban areas. Geoff is a member of the Australian Institute of Traffic Planning and Management, the Institute of Transportation Engineers and the Institution of Engineers, Australia. He serves as an international representative on the US Transportation Research Board's Committee on Transportation Demand Management.

Professor William Young
BE (Hons I) UNSW, GradDipMgt Deakin, MBA Deakin, MSc, PhD, FIEAust, FCIT, FITE, MACRS
Head, Monash University

Professor William Young is Chair of Civil Engineering, Monash University. He has a distinguished professional and academic career, having worked at Monash University for 33 years and prior to joining Monash in the transport industry in England, Germany and several states of Australia for four years. He has also held visiting positions at Oxford, Nanyang, Karlsruhe, Michigan State and Hong Kong Universities, and with the Australian Bureau of Transport and Communication Economics. He received his BE (with honours) degree from the University of New South Wales (1970), his Graduate Diploma in Management and MBA from Deakin University (1997, 1999), and his Master of Science (1990) and PhD (1982) from Monash University. Professor Young has wide-ranging interests and has researched, consulted and published widely in the areas of land-use/transport/environment interaction, parking, engineering management and education. He has worked on several international research projects with teams from Sweden, Hong Kong, Japan, the UK, Germany and Indonesia, and was an Associate Editor of the international journal Transportation for 12 years. He has published over 300 papers and co-authored four books on transportation. He has been awarded a Chartered Institute of Transport Excellence Award, Bureau of Transport and Communication Fellowship, Alexander Von Humboldt Fellowship, and Monash Postgraduate Award. He has 29 years experience in teaching at an undergraduate and postgraduate level, and has also developed and run many distance education programs, short courses and workshops for industry. Professor Young has held a number of senior
administrative positions at Monash, including: Head of the Department of Civil Engineering (1999-2008), Head of the Caulfield Division of the Department of Civil Engineering (1995-1997), Head of the Institute of Transport Studies (Monash) (1995-1998), Head of the Monash Transport Group (1994, 1995, 1996), Director of Graduate and Further Education in the Faculty of Engineering (2001-date) and Chairperson of the Monash University Advisory Committee on People with Disabilities (1997-2002). He is a Fellow of the Institution of Engineers, Australia (IEAust), the Institute of Transportation Engineers and the Chartered Institute of Transport. He has been Chair of the Victorian Transport Committee (IEAust), the National Committee of Transport (IEAust), and the Institution of Transportation Engineers Australia.

Professor Graham Currie
BSc (Hons) Huddersfield, MSc Cranfield
Professor of Public Transport, Department of Civil Engineering

Professor Currie has over 29 years experience as a transit planner and researcher. He has worked for some of the world's leading public transport operators including London Transport. He is an internationally recognised advisor on public transport planning and has undertaken research projects in Europe, Asia, North America, and throughout Australasia. He is a World Bank accredited consultant and has developed and managed training programs in public transport planning for them in Asia. Professor Currie is a member of the US Transportation Research Board committee on Bus Transit Systems and also the TRB committee on Light Rail Transit. He is a member of the UITP (International Association of Public Transport) academic network and the Victorian Roads Based Public Transport Advisory Council in Australia. Prof Currie has led numerous research projects in public transport in all states and territories of Australia as well as assignments in Europe, Asia and North America. His research interests include bus rapid transit, behavioural factors in transit use, improving streetcar operations, transit signal priority, social perspectives on transit planning, market futures in transit, demand responsive transit, transit interchange design, schedule coordination optimisation and planning transit systems for major special events.

Dr Majid Sarvi
BEng MEng Tehran, PhD Tokyo
Senior Lecturer

Majid’s masters degree was in highway and transportation engineering. He worked at Tokyo University on the subject of traffic and transportation with emphasis on human factors and freeway operation and obtained his PhD there. He worked as a senior research fellow at Tokyo University and was the Chief Engineer at the i-transport laboratory in Tokyo. Majid has also worked as the chief researcher of the ITS research group of the Social System Research Institute and as a transport analyst with the Hong Kong Transport Department. Majid’s research interests include traffic operations, traffic flow theory, transport modelling, micro simulation programming, intelligent transport systems, public transit, application of GPS to transport studies, and highway operations. Majid joined Monash University in February 2004.
Yibing Wang received the B.Sc. degree in electronics and computer engineering from Sichuan University, China, the M.Eng. degree in automatic control engineering from Chongqing University, China, and the Ph.D. degree in Control Theory and Applications from Tsinghua University, China. He was with the Dynamic Systems and Simulation Laboratory, Department of Production Engineering and Management, Technical University of Crete, Greece, where he was a Postdoctoral Researcher from 1999 to 2001 and a Senior Research Fellow from 2001 to 2007. His research interests include traffic flow modelling, freeway traffic surveillance, ramp metering, route guidance, urban traffic control, vehicular infrastructure integration. He has published 20 international journal papers and book chapters. He has extensive research and development experience on intelligent transportation systems (ITS). From 2000 to 2007, he participated in several European projects on ITS and collaborated with transportation research and practice professionals from Greece, Germany, the U.K., Belgium, Italy, and The Netherlands. Dr. Wang is a member of IEEE and Transportation Research Board, an Associate Editor for the IEEE Transactions on Intelligent Transportation Systems, the Book Review Editor of Transportation Research Part C: Emerging Technologies, an Associate Editor for the International Journal of Vehicle Information and Communication Systems, an Editorial Board Member of The Open Transportation Journal. He was a vice chair of the International Program Committee of the 9th IEEE Annual Conference on Intelligent Transportation Systems (Toronto, 2006).

John joined ITS-Monash in July 2000. Prior to that he was Acting Head of the School of Marketing at RMIT University, and had previously been Head of the Department of Marketing, Logistics and Property and a Principal Lecturer responsible for the Transport and Logistics Management Group at RMIT. John is a Fellow of the Chartered Institute of Logistics and Transport and actively involved in the CILT (Victorian Section) General Committee and is Chair of the Passenger Transport Group. His major interests are in transport economics, policy and management and he is the author of the postgraduate unit Transport Economics which is offered by distance education as part of the (Monash) Masters degree program in transport and traffic. He has professional and consulting experience in the public sector, including the Victorian Ministry of Transport, the public transport operating authorities and water resource boards. John is a member of the editorial advisory board of the International Journal of Logistics: Research and Applications. He has undertaken quality assurance auditing with Open Learning Australia.
Astrid De Alwis  
BA Melb, GradDipTr&DistMgt RMITU, MLogMgt, MCILT  
Assistant Program Director  
Transport Management Course in Bus and Coach Operations

Astrid is a logistician with a transport background. Initially in freight and currently in passenger transport, she has taught, written and/or practised transport for more than fourteen years. Working as a transport consultant to several commercial transport organisations, she has produced some key industry publications. Astrid’s chief strength lies in her varied and cross-disciplinary educational and experiential background. Having worked in government, industry and academia, and on local and international projects, Astrid brings to ITS-Monash a broad blend of skills and aptitudes. While assisting with the ongoing development and delivery of the Transport Management Course in Bus and Coach Operations, Astrid is also pursuing a consulting interest in business systems and business development.

Adjunct faculty

Dr L Rahmi Akçelik  
CivEng ITU, PhD Leeds, Fellow IEAust, Fellow ITE  
Director, Akcelik and Associates Pty Ltd

Dr Akçelik is an Honorary Associate in the Department of Civil Engineering at Monash University, and Director of Akcelik and Associates Pty Ltd. He is a leading scientist and software developer in the area of traffic management, with over 250 technical publications in his area of expertise. His research and software development company specialises in the areas of road traffic operations, traffic engineering, management and control. Dr Akçelik is member of various US Transportation Research Board (TRB) Committees. Awards received by Dr Akçelik include the 1999 Clunies Ross National Science and Technology award for outstanding contribution to the application of science and technology in Australia, and the Institute of Transportation Engineers Australia and New Zealand Section Certificate of Commendation in recognition of an outstanding contribution to the advancement of the profession, and the Institute of Transportation Engineers (USA) 1986 Transportation Energy Conservation Award for research into energy savings from urban traffic management.

Rita Seethaler  
MEc Berne

Rita graduated with a Master of Economics and Political Science from the University of Berne, Switzerland, in 1994. She has worked for the Swiss Federal Office of Statistics and for the Bureau of Transport Studies (Federal Department for Environment, Transport, Energy and Communications), Berne. She is presently a Director of the Urban Transport Institute, Victoria and an Associate of the Institute of Transport Studies (Monash University). She is the author of the postgraduate unit Infrastructure project and policy evaluation, which is offered by distance education as part of the postgraduate program in infrastructure engineering and management at ITS-Monash. Rita is currently undertaking a PhD with ITS-Monash.
Adjunct Professor Tony Richardson  
BE (Hons) MEngSc UNSW PhD

Tony has wide experience in academia, having worked at Monash University, RMIT, the University of Melbourne, the University of Sydney and Cornell University in the USA. He has also worked for the Australian Road Research Board, the Victorian Ministry of Transport and in his own consulting practice. As well as being an Adjunct Professor at Monash, Tony is also a Director of the Urban Transport Institute, Victoria. He is the author of the postgraduate unit *Infrastructure project management* which is offered by distance education as part of the postgraduate program in infrastructure engineering and management at ITS-Monash.

Administration associates

Brenda O’Keefe  
Administration Manager

Brenda is responsible for managing administrative support at ITS-Monash. This includes administering all aspects of ITS-Monash’s industry distance education programs in the Transport Management Course in Bus and Coach Operations and the Education Program in Parking Management. She handles all general course enquiries, student enrolment and record keeping as well as all written communications with students throughout the semester. Brenda is also heavily involved with the role of administering all aspects of the Department of Civil Engineering’s off-campus learning postgraduate programs in Transport and Traffic and also the Infrastructure Engineering and Management program. This also includes handling all general course enquiries, processing enrolments, re-enrolments, withdrawals and completions and carrying out extensive liaison with the Off-Campus Unit at Gippsland, other areas within the university system and the Faculty of Engineering’s Postgraduate Manager. In her administrative support role, Brenda manages the production of all advertising and study guide material (which includes extensive liaison with printers and designers), and supports all other ITS-Monash activities including seminars, workshops and public lectures. Brenda also undertakes website and MUSO development and maintenance for ITS-Monash as well as for the Department of Civil Engineering’s postgraduate programs.
Higher degrees by research program

Md. Aftabuzzaman
BE (Civil) (Hons), Bangladesh University of Engineering and Technology
M Eng (Transportation Planning), University of Tokyo
Doctoral Program

Aftabuzzaman has worked as a lecturer of Bangladesh University of Engineering and Technology. His previous research interests include travel demand forecasting, mode choice modelling, traffic performance measurement and parking demand and supply analysis. He has long been involved in the activities for encouragement of walking, cycling and public transport use. Aftabuzzaman has started his PhD study with a Monash Graduate Scholarship. His PhD study focuses on public transport measures for road traffic congestion relief. Supervisors: Professor Graham Currie and Dr Majid Sarvi.

Daniel Csikos
B.Sc (Aust Env Stud)(Hons I) Griffith
Doctoral Program

Daniel graduated with a Bachelor of Science in Australian Environmental Studies from Griffith University, Brisbane, in 1997. He began work for Melbourne's public transport industry in 2000, for Yarra Trams. Roles included operations analysis, scheduling and market analysis. Daniel was awarded a joint Metlink-Monash PhD scholarship. His PhD study focuses on public transport reliability measures from a user perspective. Supervisors: Professor Graham Currie and Associate Professor Geoff Rose.

Evan Gwee
BE (Civil) (Hons), MSc (Transportation Engineering),
Nanyang Technological University, Singapore
Doctoral Program

Evan has worked for more than 10 years in the Land Transport Authority of Singapore. Apart from land use and transport planning experience, Evan has been involved in numerous feasibility studies of new transport initiatives and infrastructures in Singapore. Evan has recently started his PhD study with a LTA scholarship. His PhD research focuses on the expansion of the conventional Benefit-Cost Analysis framework for the evaluation of transport projects. Supervisors: Professor William Young, Professor Graham Currie, and Mr John Stanley.
Paul Hamer  
BEng - University of Melbourne, LLB - University of Melbourne  
Doctoral Program

Paul has worked in the transport sector at both local and state government level, and is currently managing the development of a range of public transport projects for the Victorian Department of Infrastructure. Paul has a particular interest in the use of pricing mechanisms to manage and influence travel demand. The focus of his Masters Research is a case study into the effectiveness of the inner Melbourne parking levy that was introduced in 2006. Supervisors: Professor Graham Currie and Professor William Young.

Victoria Johnson  
B.S.W, M.S.W (Res, Hons I)  
University of Melbourne  
Doctoral Program

Victoria graduated with a Masters of Social Work from the University of Melbourne in 2003. She currently works as a Research Officer in the Research and Policy Centre of the Brotherhood of St Laurence. Victoria’s PhD research focuses on transport and social exclusion, which is funded with a cross-faculty scholarship provided by the Departments of Civil Engineering (Engineering) and Social Work (Medicine, Nursing and health Sciences). Supervisors: Professor Graham Currie and Dr Janet Stanley.

Md. Iqbal Kabir  
BE (Civil)  
Bangladesh University of Engineering and Technology  
Doctoral Program

Iqbal has completed his Bachelor of Science in Civil Engineering from Bangladesh University of Engineering and Technology, Dhaka, Bangladesh. He is working as an Executive engineer in Dhaka City Corporation, the capital city council. As part of the Master of Engineering Science Degree he commenced in June 2005, he is modelling various aspects of impacts of land use pattern changes on transport systems of Melbourne Metropolitan area with an integrated land use-transport interaction model TRANUS. With that model, he is also examining impact of transport policy changes (such as construction of new large road infrastructure, introduction of new toll road etc) on land use patterns. Supervisors: Professor William Young and Professor Graham Currie.

Mark Karpovich  
BE MEng Sci  
Doctoral Program

Mark has more than 20 years’ experience in infrastructure and transport engineering projects in Hong Kong and Australia. His present field of study is transport, infrastructure and engineering projects based on
transferred technology financed in China. This research uses a Delphi survey and aims to investigate success factor influence by comparing conventional and joint venture style projects. Supervisor: Professor William Young.

**Ehsan Mazloumi**

BSc (Civil), Sharif University of Technology, MSc (Transportation Engineering and Planning)

Sharif University of Technology

Doctoral Program

Ehsan completed his BSc in Civil Engineering and his MSc in Transportation Engineering and Planning at Sharif University of Technology, Tehran, Iran. His area of interest includes Transport Modelling, Micro and Macro Simulation, Network Design Problems, and Safety. Ehsan was awarded a Monash Graduate Scholarship in 2007 when he commenced his research at ITS-Monash. Currently, Ehsan is working on public transport travel time and its variability. Supervisors: Professor Graham Currie and Associate Professor Geoff Rose.

**Mahmoud Mesbah**

BSc (Civil), University of Tehran, MSc (Transportation Planning)

Iran University of Science and Technology

Doctoral Program

Mahmoud completed his BSc in Civil Engineering at University of Tehran and graduated with a MSc in Transportation Planning from Iran University of Science and Technology. His previous research included approaches for reliability assessment of transport networks. Mahmoud was awarded a Monash Graduate Scholarship in 2006 when he commenced his research at ITS-Monash. Mahmoud is working on optimization of transit priority systems to be applied to the transport network. Supervisors: Dr Majid Sarvi and Professor Graham Currie.

**Michael Moffatt**

BE (Hons) (Civil), University of Melbourne. MTech (Pavements), Deakin

Doctoral Program

Michael is currently a Principal Research Engineer at ARRB Research. Since joining ARRB in 1991, he has worked in a variety of areas dealing with both the design and analysis of road pavement structures, including the effects of water movements through pavements, the mechanistic design of new and rehabilitated pavements, and the characterisation of pavement materials, including the analysis of trials using the Accelerated Loading Facility (ALF). He also has experience in road and asset management, asset system design and implementation, and has also managed large pavement data collection exercises in Australia and overseas. Michael's research is focussed on the development of a rational approach to assessing the relative
effects of different heavy vehicle axle groups on pavement performance. The findings would be of immediate use to both road pavement engineers and transport economists seeking to attribute road damage to different axles groups. Supervisor: Professor William Young.

Sara Moridpour  
BSc (Civil), Sharif University of Technology, MSc  
(Transportation Planning and Engineering),  
Sharif University of Technology, Tehran, Iran  
Doctoral Program

Sara graduated with a Bachelor of Science in Civil Engineering from Sharif University of Technology, Tehran, Iran in 2002. She completed her masters of science in Transportation Planning and Engineering at Sharif University of Technology in 2004. In her Masters thesis, she worked on sensitivity of traffic equilibrium respect to some changes in the accuracy of network parameters. Her previous research interests include trip production and attraction models, travel time and volume delay functions, traffic assignment models and efficient methods for traffic surveys such as cordon line origin-destination surveys. In addition, she has been involved in the establishment of drivers’ working hour standards in Iran. Sara started her PhD studies on a Civil Engineering Departmental Scholarship. Her PhD study focuses on lane changing behaviour of heavy vehicles. In her research, she realizes the differences in the lane changing behaviour of heavy vehicles and passenger cars. Then, she develops a specific model for lane changing patterns of heavy vehicles. Supervisors: Dr Majid Sarvi and Associate Professor Geoff Rose.

Mike Shackleton  
BSc (Civil) (Hons), University of Natal, MEng (Civil)  
The University of Pretoria  
Doctoral Program

Mike holds a BSc Eng (Civil) from the University of Natal and an MEng (Civil) from the University of Pretoria. He has been involved in transportation engineering for twenty years, in both the consulting and research environments in South Africa, Botswana and Australia. Mike is currently Manager: Research Operations and Strategy at ARRB Group in Melbourne. His research is aimed at providing guidance to transportation research stakeholders for making transportation research sustainable. The research will focus on systematic evaluation of the impact and quality of transportation research, in terms of both current and potentially changed requirements in the future. Supervisors: Professor William Young and Professor Graham Currie.
Nirajan Shiwakoti
BE (Civil), Tribhuvan University, Nepal, M Eng (Transportation), Hokkaido University, Japan
Doctoral Program

Nirajan has worked as a Civil Engineer in Nepal after his undergraduate degree in Civil Engineering. He was awarded with Monbukagakusho Scholarship for Master degree (Oct. 2004–Sept. 2006) at Laboratory of Transportation Intelligence, Hokkaido University, Japan. His areas of interest include Crowd / Pedestrian Behaviour Modelling, Pavement Management System, Traffic Safety and Risk Management, and Public Transport. Nirajan has recently enrolled as a MEngSci (Research) student at ITS, Monash University with a Monash Graduate Scholarship and Monash International Postgraduate Scholarship. His current study focuses on modelling and simulating crowd dynamics. Supervisors: Dr Majid Sarvi and Associate Professor Geoff Rose.

Roger Toleman
Doctoral Program

Roger has an extensive experience in transport planning and policy. He was Deputy Secretary, Strategic Directions at the Ministry of Transport in New Zealand. Roger has been involved in a wide variety of strategic initiatives and policy development in transport planning and responsible for the Ministry's policy input into the National Land Transport Strategy. Roger's research is exploring the relationship between toll roads and sustainable transport. Supervisors: Associate Professor Geoff Rose and Dr Tony Richardson.

Tan Yan Weng
BE MEngSc CMCILT MIE Singapore MREAAA
Doctoral Program

Yan Weng lectures at the School of Civil and Environmental Engineering in Nanyang Technological University, Singapore. His current PhD research is in the area of parking systems design, with particular emphasis on developing an interactive stated preference approach to collect information on parking behaviour in multi-use facilities. Supervisor: Professor William Young.
Richard Yeo
BE (Hons) M Eng (Res) RMIT
Doctoral Program

Richard has worked with Maunsell Consultants and VicRoads and is currently a Principal Engineer (Pavements) at ARRB. His main research interests are in the areas of construction quality, pavement performance, accelerated pavement testing, stabilisation and pavement materials characterisation. He is a member of the Austroads Pavement Technology Review Panel and is currently the manager of the Australian Accelerated Loading Facility (ALF) program. Richard is leading the research associated with investigating the impact of heavy vehicles on the pavement infrastructure. This is one of the largest research projects currently being conducted by ARRB, in terms of both scope and funding. Supervisor: Professor William Young.

Ali Zavabeti
BE Hons (Telecommunications), Monash University
Masters Student

Ali joined the Institute of Transport Studies in 2006 as a research assistant primarily working on the development of the Institute’s instrumented vehicle. Prior to this he received a Bachelor of Telecommunications Engineering with honours from Monash University in 2006. He has started a MEngSc (Res) in 2007 focusing on driver behaviour prediction utilising Hidden Markov Models, Fuzzy Logic and Neural Networks. Supervisor: Dr Majid Sarvi.
EDUCATION

ITLS-Sydney

http://www.itls.usyd.edu.au/graduateprogram/

Graduate Program in Transport and Logistics Management

The Faculty of Economics and Business and the Institute of Transport and Logistics Studies at the University of Sydney offer a range of fully integrated and articulated graduate programs. Six degree programs are available to graduates or non-graduates with industry experience. These are the Graduate Certificate in Transport Management (GradCertTM) or Logistics Management (GradCertLM), the Graduate Diploma in Transport Management (GradDipTM) or Logistics Management (GradDipLM) and the Master of Transport Management (MTM) or Logistics Management (MLM). Students who have completed the MLM, MTM or one of the combined degrees on offer may be eligible to enrol in a research program leading to an MPhil or PhD in Transport Management or Logistics Management. The demand for the units of study remains very high. Many of the students are enrolled in a major in logistics and/or transport management via the MBus, MCom and MIB as well as the transport and logistics degrees.

Coursework Degrees

GradCertTM and GradCertLM
Graduate Certificates of Transport Management and Logistics Management (4 units)

GradDipTM and GradDipLM
Graduate Diplomas in Transport Management and Logistics Management (6 units)

MTM and MLM
Masters of Transport Management and Logistics Management (8 units)

Combined Coursework Degrees

MTM / MLM
Master of Transport Management / Master of Logistics Management

MTM / MCom and MLM / MCom
Master of Transport Management / Master of Commerce

MTM / MIB and MTM / MIB and MTM / MURP
Master of Logistics Management / Master of International Business

MTM / MURP and MTM / MURP
Master of Transport Management / Master of Urban and Regional Planning
Enrolments

| Year | GradCertTM | | GradCertLM | | | Total | Local | Int'l | Total | Local | Int'l | Total |
|------|------------|-------------|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1999 | 15 0 15 | 7 0 7 | | | | | | | | | | |
| 2000 | 6 1 7 | 15 0 15 | | | | | | | | | | |
| 2001 | 3 0 3 | 5 0 5 | | | | | | | | | | |

| Year | GradDipTM | | GradDipLM | | | | | | | | | | |
|------|------------|-------------|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1999 | 16 2 18 | na na | | | | | | | | | | |
| 2000 | 5 1 6 | 2 1 3 | | | | | | | | | | |
| 2001 | 4 1 5 | 5 0 5 | | | | | | | | | | |

| Year | MTM | | MLM | | | PhD | | | | | | | |
|------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1999 | 22 11 33 | na na | 2 1 3 | | | | | | | | | |
| 2000 | 10 7 17 | 13 4 14 | 2 3 5 | | | | | | | | | |
| 2001 | 7 5 12 | 16 14 30 | 2 2 6 | | | | | | | | | |

Graduate Program

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Units of study

The following transport and logistics management courses were taught during 2008 (Students in each unit of study are given in parenthesis, excluding non-award and ITLS research staff who undertook a number of graduate units).

**Summer Session (7 January - 8 February 2008)**

Logistics and Supply Chain Management (58)
Value Chain Management (43)

**Semester 1 (3 March- 20 June 2008)**

Organisational Logistics (112)
Transport and Logistics Economics (50)
Logistics and Supply Chain Management (127)
Value Chain Management (88)
Logistics Systems (37)
Intelligent Transport and Logistics Systems (37)
International Logistics (30)
Survey, Design and Management (25)
Transport Policy (65)
Sustainable Transport and Logistic Systems (57)
Analysis Tools for Transport and Logistics (171)

54
**Winter Session (30 June - 18 July 2008)**

- Maritime Logistics (69)
- Innovations in Logistics and Supply Chain (24)
- International Freight Transport (64)

**Semester 2 (4 August - 20 November 2008)**

- Organisational Logistics (105)
- Logistics and Supply Chain Management (107)
- Aviation Management and Logistics (64)
- Value Chain Management (87)
- Geographical Information Systems for Planning and Logistics (44)
- Logistics Systems (40)
- International Logistics (44)
- Project Management in Supply Chains (44)
- Land Use and Transport Planning (50)
- Traffic Systems Management and Control (41)
- Analysis Tools for Transport and Logistics (109)

**Higher degrees by research**

*MPhil*

Master of Philosophy (Transport Management or Logistics Management)

*PhD*

Doctor of Philosophy

**Doctor of Philosophy**


With so many exciting and important themes available to research and the general shortage of well-trained researchers in transport and logistics, ITLS always encourages inquiries. The Institute invites individuals with strong interests in higher level research to contact us. We offer a Master of Philosophy (MPhil) and a Doctor of Philosophy (PhD) by research in any area of transportation and logistics. ITLS has a large number of research themes which we believe would make an excellent research program. These can range from highly quantitative to highly qualitative research topics with a focus on basic and applied research. ITLS has the largest group of postgraduate students in transport management in Australia. Our full time research students become close members of ITLS and have open access to research facilities and internationally renowned academic staff in transport and logistics.

**Higher degrees by research presentations**

Each Higher Degree by Research student must present a seminar each year as part of the progress review of their research program. Seminars are chaired by each student’s supervisor.
27 July 2008
Elizabeth Barber

Are you in charge of your own destiny?

Abstract: Recently there have been changes in supply chain paradigms resulting from closer and more involved relationships. With the aid of technology enablers and drivers for competitive advantage supply chain participants are achieving closer collaborative relationships along the total supply chain. Close collaboration implies that each participant along any particular competitive supply chain will be working in unison with their other supply chain participants. All participants are assumed to have strong strategic alignment striving for the same goals. This paper investigates whether the dominant participant in the supply chain will determine the overall strategic goals of the chain. Depending on the varying degrees of this influence on the overarching strategic goals of the total supply chain will determine the extent of the domination of any participant within the supply chain. Whether the other participants of the supply chain adhere to the dominant player's strategic choice will depend on a variety of factors. A model is developed that demonstrates the various determinants that influence the acceptance of the dominant player's strategies. Whether strong domination is beneficial or not is discussed in the conclusion.

19 August 2008
Joe Poon

Analysing the effects of travel information on travellers' decision making and learning

Abstract: As a response to uncertainty inherent in the transport system, there has been significant development in travel information services to assist decision-making by the traveller. The advent of information services has resulted in the need to assess their effects on the user. Literature suggests that the information type and format, and information reliability are factors that affect the propensity of travellers to acquire and use information for decision making. Learning is also a pertinent aspect of travel behaviour given that a significant amount of travel is habitual and repetitive.

This seminar presents a proposed research program to study the interplay between the three aspects of information type and format, information reliability, and learning. Empirical data to test the hypothesised relationships between the three aspects will be collected from a series of proposed experiments that simulate the day-to-day commuter activity of waiting for public transport service with the provision of travel information of different types, formats and levels of reliability. Models will also be formulated and estimated to describe the behavioural mechanisms of decision making, learning and information acquisition behind these relationships.

21 October
Louise Hooper

What price risk? Paying for performance in public transport

Abstract: Urban public transport in many cities is provided through a partnership between operators (private or public) and the regulators who contract their services on behalf of government. The two parties to the contract are subject to differing, and often conflicting, motivations, which theory suggests should be aligned explicitly in an incentive-based contract. In public transport, however, these contracts are rare; and, where used, incentive specifications are based on experience rather than research.

This seminar presentation will investigate the use of stated preference methods to study drivers of the decision-making process, uncovering the role of risk-sharing and effort incentives suggested by classical contract theory. The research will attempt to provide incentive design guidance for those organisations looking for a utility-maximising contract.
11 November 2008
Qingjian Jiang
Travel tour modelling with multi-day GPS travel survey data

Abstract: Understanding of travel pattern at travel tour level is critical to develop more sophisticated travel models that are capable of testing travel behavioural responses to transport policy changes. Prior to the use of GPS devices in travel data collection, only short period, one or two days, travel data could be collected for analysis of travel tours. However, longer period travel data would enable analysis of travel variations and improve data reliability. This research will develop travel tour models based on multi-day household travel survey data collected using GPS technology.

Although the traditional four-step modelling methodology has been well established and continues to be used in urban and regional planning organisations for travel forecasts and transport infrastructure planning, its limitations have been documented in the modelling literature since the 1970s. The ability to model the travel behaviour changes in response to transport policies, which is much more complicated than simply building new roads, has been a major drive in the development of more sophisticated travel demand models. It has been demonstrated that the four-step models could not predict such behavioural changes satisfactorily despite significant enhancements to models. Tour-based travel modelling emerged in the 1980s, and more advanced activity-based modelling followed.

As it models transport systems at a more realistic level, tour-based modelling requires more detailed input data that differ to trip-based modelling. Travel tour is used in travel demand estimation. Travel tour analysis takes into account of constraints that previous and following travels have on the travel undertaken in the tour. These constraints could be, for example, travel mode, time availability, or spatial distance. The proposed research aims at an in-depth understanding of travel patterns and their variations with information offered by multi-day GPS travel survey data.

This seminar will present literature reviews of: tour-based and activity-based travel demand modelling; GPS applications in transport research; and travel tour modelling.

Research methodology adopted for the proposed research will also be discussed following by the proposed research program.

3 December 2008
Simon Fifer
Hypothetical bias in stated choice experiments: Is it a problem? And if so, how do we deal with it?

Abstract: Choice modelling experiments (CE) have been used for many years in a variety of fields. To date most of the literature has focused on advancing the technique by developing more sophisticated models and experimental design procedures. In comparison, there is substantially less published material on the external validity of such models. This is largely due to the availability of non-experiment data of choices and preferences made in the natural environment (known as revealed preferences) to use to compare to hypothetical choices and preferences (known as stated preferences) (Hensher 2008). This study will conduct research into the existence of hypothetical bias in stated choice experiments and the extent to which the possible bias influences the derived estimates from these models. The study design will consist of comparing and contrasting an SP and RP dataset in a transportation context. All data for this study will be taken from a University of Sydney project exploring the effect on car driver behaviour in Australia as a result of imposing exposure-based charges.

This seminar will present an overall draft framework for this study.

9 December 2008
Qian Liu
A bicycle travel demand model

Abstract: It is believed that promoting bicycling can benefit not only those who do it but also society by reducing traffic congestion, fuel consumption and emissions, and improving general health and fitness. To exploit the advantages of bicycling, there is a need to incorporate this mode better into the transport planning
process. When seeking the best solution to transport problems, considerations of economy, environment, etc. dictate the need to employ transport demand models that provide the scientific evidence to support decision making. This thesis will review major transport demand models and provide insight into the model performance on forecasting bicycling demand. The primary aim of this thesis research is to address the research gaps by building a bicycle demand forecast sub-model that reflects better the reality of what indeed drives the decision to bicycle. It is expected that the refinement of the classic transport model in terms of bicycle demand forecasting will make policy decisions, planning, and construction as it affects bicycle as a travel mode more effective and efficient in future.

9 December 2008
Ali Shahi

Factors influencing household vehicle ownership patterns

Abstract: Given the importance of vehicle ownership in determining individual and household travel behaviour, many published studies attempt to assess the impact of these various factors on vehicle ownership. However, most of the researches have used cross sectional data to analyse vehicle ownership. For the purpose of this research, panel data was used as a method to assess travel behaviour changes resulting from the implementation of a Voluntary Travel Behaviour Change (VTBC) program in South Australia. Because the goal of this panel was to determine the vehicle kilometres of travel (VKT) undertaken by households from a few months prior to the implementation of the VTBC program until a year or more after its implementation, it was also necessary to gather information from households about any changes in vehicles that took place during the three-year period.

In this research, an extensive analysis will be undertaken in the context of household attributes to create a model to distinguish changes in vehicle ownership, based on their ownership patterns, trends in recent acquisitions and household demographics.

This seminar will present the following: literature reviews of previous researches on vehicle ownership; Existing vehicle ownership models; Hypothesis, and time schedule to complete research.
Orientation for coursework degree students


Every semester ITLS invites its new students to attend a half day orientation. The orientation provides valuable guidance on what new students can expect at ITLS and helps to ensure that their studies here are both enjoyable and successful. It is also a great opportunity for new students to meet ITLS staff and their fellow students. The orientation program includes tips on preparing assignments and using the web as a research tool, as well as introductions to some of the units of study on offer at ITLS. A free lunch is provided.

Feedback from our students on what they found most useful about Orientation

Welcome from Professor Hensher was very good and contained relevant and interesting content.

The friendly welcome of Professor Hensher and the fact itself that your Discipline offers an orientation.

The possibility to ask questions, the friendly welcome of Professor Hensher and the nice and friendly staff.

Meeting academic staff and classmates.

Listening to the faculty and getting so much of knowledge on the first day which proves very useful later on.

Being given the resources to take charge of own development.

Meeting with actual businesses and bearing what is important, everybody gave a realistic view of the road after graduation.

The information of working opportunities in Australia.

The questions and answer session.

Grateful for the general overview and a bit of a clue about peers and peers’ backgrounds and aspirations.

The brief introduction of each course.

The whole day was very good and useful.

Very helpful and informative, great value.

Gives a lot of information about the library, blackboard and study related issues in concise manner.

I appreciated the mix of speakers and Faculty. It helped to give me a full bodied concept of the Institute and the resources available to students. I also thought the step-by-step approach to the website was incredibly helpful, as most students wouldn’t think to mine the Institute website for a quarter of the information it has.

Lots of important information.

Knowing how to use the web effectively.

How to learn and manage myself through the course.

Preparing and formatting assignments.
Feedback on the graduate program

**Analysis Tools for Transport and Logistics, Matthew Beck**

Assignments help me to understand the course.

Very interesting and engaging. Tools learnt very useful.

Good interaction, availability, candour from lecturer and tutor.

Probably one of the best lecturers and tutors I have encountered.

Excellent methods of teaching, learning environment and instructors (Matt and Geoffrey).

Geoffrey was particularly helpful, has a responsive manner and good ability to explain concepts and techniques.

The podcast and summary of the lecture helps to provide clearer pictures.

Projects helped me to improve communication skills working in the groups.

Fantastic course, lecturers make it interesting.

Lectures combined with workshops is a very effective teaching style. It helped me to understand this subject better.

**Aviation Management, Professor Werner Delfmann**

The professor gave a lot of examples about air freight to illustrate the theory.

Dealt with real life cases.

The material was explained clearly.

He challenges his us with constructive questions and also sharing of his knowledge.

As a logistics and transport student I believe without aviation there would be a missing link in the global movement.

Aviation is an important part of global logistics.

Resources for the unit is good for study such as case studies, use knowledge in the real world.

One of the best units I had in this Master program: very good lecturer and very interesting content.

The diversity if the course and the tutor helped me to appreciate a holistic picture of global movements and the role aviation plays in this.

Very engaging, thought provoking, and informed lecturer. The most useful subject I have taken @ the ITLS.

**Geographical Information Systems, Associate Professor Stephen Greaves**

Steve and Simon help us a lot to get through all problems.

Both the lecturer and lab assistant are knowledgeable and helpful to the students.

FANTASTIC course!

I like it. Both the lecturer and the T/A is wonderful. Cheers.
Innovations in Logistics and Supply Chains, Dr Roberto Ogulin
Quite hands on and with lots of examples
The lessons and learning activities were very relevant to the course and to my degree.
You really have to research and learn rather than simply memorising for the exam.
He always encouraged everyone to participate in the discussions.
Breakout sessions and discussion moments were helpful.
This is a great course because it is more practical and lecture gives many real business examples in the supply chain.
Excellent course and lecturer.
I’d recommend it!

Intelligent Transport and Logistics Systems, Christopher Skinner
Teacher gives detailed explanation on every point during every lecture.
Lecture materials were clearly presented.
Good points on business cases and writing specifications.
The combination form of assessment, individual and group assessment, motivates me to be highly involved in research and learning process.
Teacher gives detailed commence on the assignments. Whatever were the problem is or any good points.
Comments on the assignment are very useful.
Very detailed explanation and learning resources on blackboard.
Online tutorial and reading material are quite sufficient and useful.
Mr. Skinner is one of the most responsible staff I’ve ever met in ITLS. He keeps on updating materials on Blackboard which clearly explains everything.

International Logistics, Dr Andrew Kerr
The lecturer provided guidance to go far beyond the limit of a person. He also instructed us how to write a professional paper.
Learn a lot from knowledge sharing with peers and groupwork.
The unit helped increase my understanding of the process in making international logistics decision.
Helped me think in logistics way.
It would be one of the step stone of my career enhancing program.
Feedback was given quickly and clearly. Speed of feedback and detail of feedback was very beneficial.
The feedback was clear and very helpful.
There was a lot of information put on blackboard and we were openly encouraged to discuss any items of interest there.
Lot of things I have learned from the unit not just only the knowledge of related study but as well as other skill such as presentation, group work.
This unit was the most interesting well structured useful that I had at ITLS.

Land Use and Transport Planning, Associate Professor Stephen Greaves
The course objectives were discussed and given to us in writing in the first class.
Stephen clearly went through the materials in class and gave examples, helping us to work through them.
Explained the concepts and given enough examples to understand the problems.
A lot of independent thought was required to undertake the assignments.
Stephen helped to motivate me to learn and participate.
All assignments required clearly demonstrating what was taught in class especially when analysing models.
The lecturer made a point of making sure everyone understood all the steps and stages necessary.
Stephen always responded to students and encouraged us to ask questions.
I enjoyed learning and class was very instructive.
Very good lecturer, good knowledge and manner.

Logistics and Supply Chain Management, Alan Win
The teacher’s professional/commercial experience showed in the interesting examples given in class.
Practical industry focused approach.
This unit was a good introduction to the subjects of LSCM.
This lecturer introduces new way of learning, including board paper, group presentation which are interesting, he is a nice man to provide help to all students.
Assignments were interesting and covered the lecture topics-application of learned topics possible.
Very thorough subject, good basics, it covers everything.
Thank you. Our lecturer Alan Win was practical, instructive and the course content was interesting.
The teacher demonstrates expertise in the subject matter. He makes the topics interesting and the lecture is fun. Very good!
The way of teaching was very good the lecturer was more laid back and relaxed yet be conveyed all the info. The lecturer sparked interest which made me look into things beyond the classroom.
I loved this course!!! Strongly recommended.

Logistics Systems, Dr John Rose
The first class really covered all the goods/expected outcome as well as the assignments and instructions/dates. John Rose is really a funny and responsible person. He provided us a lot of materials that can help us to understand the course well.
Assignment (group) can lead us to understand real forecasting methods. The group assignment in particular gave me an opportunity to engage with a real-life company, identify its problems and research possible solutions.
The lecture style and especially assignment really helped by providing skill which are applicable in the workforce.
The course is really helpful and practical, and from doing the group assignment we learn but to deal with the real case in the real business world.
The best feedback process a student can imagine. Feedback in personal form on an individual basis is the way to go.
Very good overview of the topics, methods and techniques. The group assignment alone was worth to take the course and enabled action based learning. The lecture notes and slides respectively could sometimes a little bit more clear and reworked (formulas).
The course is really helpful and practical. If students want to learn something can be used in the reality, it is strongly recommend them to choose this course.
One of the best units! Although assignments were tough I should say the knowledge gained was awesome.
John is the best lecturer I have studied with. His teaching style is great (makes some boring stuff becomes exciting) He met every group of students (on group assignment) to give a very useful feedback. Great subject ever.

Maritime Logistics, Dr Ada Suk-Fung Ng
The coordinator provides detailed syllabus and always reminds us in class.
The tutor encouraged students to participate and share information.
The class is highly interactive.

My major is governance but I’ve become so interested in seaborne logistics now!
It is really an interesting topic for students
The tutor was very responsive and participated and initiated discussions on blackboard.
The assessment in this unit is really practical.

High quality teaching.
Students are encouraged to participate in class discussions. Case studies and Q&A in class provides more understanding and, appreciation of real-life experiences and scenarios. The educational tour of Port Botany is also a very good idea.
The lecturer put in a strong effort to teach this course interactively and interestingly.

Organisational Logistics, Dr Peter Lok
I very much enjoyed the experience of this unit. It teaches me a lot of useful organisational knowledge.
This unit of study enabled me to be a strategic thinker. Modern articles from top academies like Harvard and other recognised institutes were very useful.
The unit of study is radical and very important to the major of logistics.
Challenging and interesting.
The summary and integration at the end of each class helped in the learning process.
Will definitely boost my organisational and management skills.
Dr Peter Lok was extremely helpful and always responded to questions on time and accurately.
Heaps of interesting readings, good for future courses as well.
The group assessment was a great tool for research and learning.
The unit incorporated many actual research articles as well as encouraged the student to do research on his own and present it.

Survey Design and Management, Professor Peter Stopher
Assessments are very well designed and they helped me to think and understand much deeper than just what the handouts have explained.
This subject is very practical, very useful to peruse careers in transport planning and management.
Excellent
The teacher is very nice and responsible. Every small task of the unit makes me studying step by step gradually.
Sustainable Transport and Logistic Systems, Associate Professor Stephen Greaves
Clear outline and lectures.
Great coverage of relevant issues.
Quite inspiring.
Good lecture, lecturer is really into sustainability! Good guest lecturers as well.
The open nature of assignment questions led to need to formulate own opinion on scope of problem.
The research you had to do for the assignments helped a lot too.
Organised, up to date info, guest speaker, video clips, time management.
It was an excellent course. Something which I was after.
The lecturer and the contents of this unit are very good.
Very relevant unit for logistics management.

Traffic Systems Control and Management, Dr Peter Hidas
Good lecturing and sufficient resources provided.
The teacher went through everything, explaining in detail.
I gained good background in the area of traffic management.
The concepts were explained properly with examples and also by working through examples in class.
Going through examples in class and calculating problems was helpful.
Comprehensive feedback on assessment during class.
Very good feedback was given on assignments so far I could learn from my mistakes.
It was very good, I am satisfied with both the content of the course and the lecturer.
I believe the lecturer managed it so well. He brought the dynamic of the unit to the fore through his extensive knowledge of the subject.
Peter was very enthusiastic during class and his knowledge in this area was good.

Transport and Logistics Economics, Professor David Hensher
Clear outline of learning goals.
David, Geoffrey and John able to provide good informative resources to stimulate me to the deeply understand a wider aspect of transportation system.
Especially John Rose’s lectures were energetic and good to follow.
The teaching staff are exceptionally responsible especially Mr Geoffrey Clifton.
The teachers are clearly knowledgeable. Very good course for transport students.

Transport Policy, Professor Peter Stopher
It has made me appreciate the politics and policy matters in transport.
It gave me the understanding of the problems be faced by the population of the world and also the problems in solving though policy change.
The content of lecture is very clear and covers a whole aspect of the unit.
The teaching encouraged debate and interaction of the class and thinking outside the square.
There were plenty of learning resources provided and course notes were clear.
Absolutely, I've learnt so much more after classes through essay writing and completing other assessments. Good motivation for self study.
Structured very well. Good course for self motivated students who take academic study seriously.
The subject made me question and re-evaluate some long held beliefs.
Provoking debate and thoughts from "outside the square" make the lecture interesting.
Peter is a good lecturer and very professional in what he is teaching.
Value Chain Management, Professor David Walters

The professor knew his stuff and ensured that we understood the concepts, he also used a tutorial made of learning which was useful.

The subject requires a lot of research and critical thinking.

High relevance to employed persons, tutorial format is excellent.

The group work for the tutorials and the discussions with the lecturers are very motivating.

The interactive aspects encouraged learning additional knowledge on the subject.

The assessments in this unit help me to develop the research skills and analyse different opinions and perspectives on issues.

It is a good chance for us to understand the trends of the business more clearly and deeply.

This unit is quite difficult to understand because it has lots of theories involved. But David Walters explains them very well by giving lots of examples, that help us a lot in understanding the materials. This unit also involves lots of research tasks that help me to develop my research skills.

Nice lecturers, good contents. Tutorials give more chance for students in a smaller group to speak to the lecturer face to face, more effective.

I think the idea with tutorial is very beneficial for any student and should be extended and applied in other units too. The structure of the unit is very good. The expertise of the Professor is visible. I like the huge variety of actual on date examples.

Thuso Mphela and Jo Dumergue (Office Manager, ITLS)

“I will definitely miss you guys and the ITLS. It has been quite a remarkable experience working with you. And I feel quite confident I am ready to face the world with what you have imparted in my life. Thank you for your unwavering support”

Thuso Mphela.

Thuso Mphela, Master of Logistics and Transport Management student from Botswana.
Industry programs

2008 proved once more to be a successful year for ITLS industry programs. Twenty two participants successfully graduated from the Certificate of Transport Management (CTM) which also required successful completion of the new bus operator accreditation standards (BOAS) module. The BOAS online module came into effect in February 2007, replacing the requirement for NSW bus and coach operators having to complete either the CTM or now ended Certificate of Coach Management (CCM) for purposes of accreditation. The success of the CTM as a professional development program, taught in partnership with the Bus and Coach Association (NSW) and Ministry of Transport therefore demonstrates the strength of ITLS as a premier provider of education within the NSW bus and coach industry. Aside from the 22 CTM students, an additional 150 students successfully completed the BOAS online module in the calendar year for 2008.

Further details about the CTM and BOAS online model are set out on the ITLS web at http://www.itls.usyd.edu.au/busandcoach

Certificate of Transport Management – Bus and Coach (CTM)

Established in conjunction with the Bus and Coach Association (NSW) and the NSW Government Ministry of Transport, this program has been designed as a professional development program for bus and coach operators in NSW. Participants are required to also undertake the BOAS online module, therefore meeting the requirements of accreditation for NSW bus and coach companies operating under the NSW Passenger Transport Act and enables operators to be accredited for all route bus, coach and tourist vehicle operations. The CTM notes and materials have been regularly updated to reflect trends in the NSW bus and coach industry.

Topics in the 2008 CTM included:

- The NSW government sector, structure and roles
- Industry environment
- Institutional settings and contracts and benchmarking
- Accreditation
- Industrial relations system
- Knowing your costs
- Accessibility and transport strategy
- SSTs, sections and fares
- Forecasting
- Marketing and passenger relations
- Human relations management
- Route planning and scheduling
- Occupational health and safety
- Workers compensation
- Financial management
- Financial decision making

Feedback from participants

“Darryl’s topic was most interesting. David’s topic was very informative and most relative to the industry.”

“David’s topic was highly interesting and most informative.”

“Excellent insight into the problems facing the metropolitan area in regards to congestion, planning.”

“HR lecture delivery easy to digest; route planning good, chance of pace-engagement! More practical -easy to take in.”

“Route planning was excellent as it engaged students.”

“Shanil was great, involved the class with figuring out where he started and finished. He asked questions and asked for class input. Practical exercises were good.”

“Shanil was a great presenter - interesting and informative. Activities really help into sink in and be remembered.”

Participants also were asked to rate the overall satisfaction with the course from 1 to 4 (4 being highest). The average results based on all participant feedback for 2008 was 3.5 out of 4.
Participants also were asked to rate aspects of the course from 1 to 4 (4 being highest). The average results based on all participant feedback for 2008 were:

- Material covered in the topic was relevant: 3.60
- Material covered in each topic was well presented: 3.23
- The level of emphasis was about right for the topic: 3.34
- I will be able to use what I have learnt: 3.40
- The notes are very useful: 3.37
- The notes are up-to-date: 3.32
- Overall, the topic was worth attending: 3.35

Executive programs

Advanced Certificate in Transport and Traffic Management (ACTTM)

The ACTTM is an Executive Program designed to equip professionals working in the complex area of transport and traffic management with the planning and management skills demanded by today’s employers. The program was originally developed in partnership with the Roads and Traffic Authority and is now available to all transport professionals who wish to advance their ability to analyse the social, environmental and business aspects of transport planning and management and develop creative new solutions by broadening their intellectual base and deepening their understanding of transport. Individual modules of the program may be taken as short courses, the successful completion of which may be used as credit towards the ACTTM or the graduate program. The program is likely to have particular appeal to transportation planners and engineers working in all levels of government and in consultancy practices.

This certificate has high recognition within the industry and enables articulation to the graduate program in transport management at the ITLS. Individual modules may be taken as short courses, the successful completion of which may be used as credit towards the ACTTM or the graduate program. Presentations were given by some of Australia’s leading academics in transport and traffic management, together with guest lecturers from prominent positions in the transport industry. Recent guest lecturers have included Dr Alastair Stone, Director of the Pacific Infrastructure Group and Mr Frank Milthorpe from the Transport and Population Data Centre, NSW Department of Infrastructure, Planning and Resources.

Feedback from participants:

Orientation: “It was good to go over all the statistics in a clear and concise manner and be able to apply it to real examples.”

Orientation: “It set the scene and gave me an introduction to basic skills in statistics that I had already done in university 20 years ago.”

“It improved my knowledge about traffic flow, traffic management, road design etc. Some of these concepts will help decision making with the RTA projects.”

“The tutorial/assignment days allowed the students to get together to discuss and understand concepts and problems and also gave us a chance to get some assignment work done.”

“The meeting of fellow students, lecturers and the course outline of the first module. It gives an insight on what I need to know and the level of knowledge that is expected of me. It highlighted what additional preparation I need in advance of the block strategy.”

“Energy and enthusiasm of lecturers was inspiring. Great to be taught by lecturers with a great deal of experience in the field.”

“Good real life examples of traffic situations. Lecturers obviously have extensive experience in transport.”

“...it is a great privilege to be taught by one of the best in the business.”

“The teaching style and the knowledge of the lecturer were simply exceptional.”

“Objective discussion/presentation on a number of subjects that we deal with on a daily basis in our employment.”
"The direct application to current transportation issues facing Sydney. The concepts aided my ability to understand the context in which transport systems planning decisions occur."

"Good mix of practical and theory and use of the computer laboratory."

"It was great to be able to have so many interesting discussions in class."

"It was a very interesting and enjoyable subject of which I learnt a lot."

"Very interesting and thought provoking."

"Opportunity to look at and consider other aspects of transport policy to those normally dealt with in context of work."

"Organised and structured lecture notes."

"The variety in assessment was refreshing."

"Viva and debate, though a little intimidating, made a nice change from essays."

"The group discussions undertaken by the class."

"I learnt new concepts on congestion, road pricing and transport policies."

"Thoroughly interesting lectures and discussions."

"It allowed us to think about real examples and discuss them in class. We were able to apply this knowledge to our own situations."

"Re-enforcement of the ideas and understanding of the content of the course from time to time was helpful."

"Learning about different modelling techniques was very valuable."

"It was good that the assessments were based on skills that are required for the workforce."

"It was good that there were a range in the types of assignments given and skills required."

"It was to be able to learn from real examples of actual situations occurring."

"The use of industry-practice software is excellent."

"Good to mix with students from different backgrounds."

Discrete Choice Modelling (DCM)

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 with the purpose of gaining a better understanding both of how choices are made and of forecasting future choice responses.

The DCM course is intended for researchers in fields in which consumer demand and choice is of interest. These include marketing, economics, health services, environmental science, agriculture, engineering, planning, transportation, logistics and finance. The courses are intended for practitioners, academics, and managers in government and industry. Participants should have an appreciation of basic statistical concepts and spreadsheets and some familiarity with econometrics, but advanced training is not necessary. The course will provide an unintimidating introduction to the main techniques of choice analysis and build on this base knowledge introducing state of the art tools.

DCM methods are widely used in many fields to study the preferences and behavioural responses of individuals, households as well as other organizations. The course on offer is designed to provide both theory and practical experience in the building and estimating of simple (e.g., Multinomial Logit (MNL)) and more advanced choice models (e.g., mixed logit), as well as in generating stated choice experimental designs. Whilst theory will be covered, the majority of time will be spent in a computer lab, working on building and automating models using real data, and generating workable designs. Those completing the course will be capable of transferring the techniques taught to their own research and practice areas.
Feedback from participants:

Instructors are knowledgeable, patient and able to answer any questions from the class.

Everything was excellent.

The best thing? Articulation between estimate techniques and design experiments.

State of the art practice. Instructors share the latest techniques and ideas from the literature.

Excellent practical introduction to modelling and survey design. Very good instructors.

Clarity of information being conveyed, very practical, lecturers are very good and experienced.

Depth of knowledge of presenters who are leaders in their field in theory and practice, and their familiarity with and enthusiasm for content.

A balanced mixture of lectures and practical classes.

Excellent course. Should be compulsory for anyone claiming to be a researcher.

Ability of the instructors to deliver complex concepts in a clear manner and ability to share cutting edge research.

Excellent coverage of a large amount of extremely difficult and complex material.

Lots of state-of-the-art and practical information, high quality of teachers.

Hi David, A wee note of thanks to you and your team for making my journey into DCM an enjoyable one. You have a really good process, the presenters know their stuff, this is really state of the art in postgrad/executive education. I found the content, scope and pace demanding, (which you want, the course would be a waste of time otherwise) but the structure and approach of the presenters nicely provided the remedy for this. Again, many thanks for a challenging and enjoyable week. - Dr Chris Batstone, Senior Resource and Environmental Economist, The Cawthron Institute

Enrolment numbers

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<tr>
<th>Year</th>
<th>CTM (Bus and Coach)</th>
<th>CCM</th>
<th>BOAS†</th>
<th>CLM</th>
<th>ACTTM</th>
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</table>

** Two executive programs were run
*** No programs except via Deakin Australia
**** From 2004 onwards, non-award students in logistics enrol directly into graduate units
† From 2007 onwards online accreditation course (Bus Operators Accreditation System (BOAS))
The ITLS-Sydney Awards Evening is an opportunity to celebrate the success of the Institute with our staff, our students, our Board of Advice, our industry partners and the sponsors of prizes with our Guest Speaker The Honourable John Watkins MP Minister of Transport. This year the Awards Evening was held on Saturday 29 March (6pm to 9pm) at the Forum Restaurant, Darlington Centre, The University of Sydney.

The following awards and certificates for the previous year were presented during the evening:

The Chartered Institute of Logistics and Transport (CILT) Ken Hillyar Award for best graduate student in a masters program with a major in transport or logistics management was awarded to Camden Fitzgerald and was presented by Dorothy Koukari, Chairwoman, NSW Section, CILT. Camden was presented with an annual membership to CILTA, a cheque ($200) and an inscribed glass trophy.
The Chartered Institute of Logistics and Transport (CILT) Sir Hudson Fysh Award for best student in a masters program with a major in transport or logistics management was awarded to Bin Xing who was unable to attend on the night. The recipient received an annual membership to CILTA, a cheque ($200) and an inscribed glass trophy.

Bin Xing accepted the Sir Hudson Fysh Award after the event from Professor David Hensher, ITLS

The Logistics Association of Australia (LAA) logistics prize for outstanding achievement in the logistics program was awarded to Manuel Montes and presented by Mr Joe Famularo, LAA Student Awards Program Convenor, LAA. Manuel was presented with an inscribed trophy and one years’ membership to the LAA.

Mr Joe Famularo, Student Awards Program Convenor, Logistics Association of Australia

(L-R) Manuel Montes and Mr Joe Famularo, LAA
The Mrs MA Ching Prize for the most outstanding student in the graduate coursework or the research program in transport or logistics was awarded to Noppawut Thiravijaranayankul and was presented by Dr Alastair Stone, Chair, ITLS Board of Advice. Noppawut was presented with a cheque ($1000) and an inscribed glass trophy.

(L-R) Dr Alastair Stone, Chair ITLS Board of Advice presenting the Mrs MA Ching Prize to Noppawut Thiravijaranayankul

Noppawut Thiravijaranayankul

(L-R) The Hon John Watkins, Minister of Transport and Professor David Hensher, Director ITLS
The Bus and Coach Association (BCA NSW) Prize for the student with the highest grade in the 2008 Certificate of Transport Management program was awarded to Ranjit Abraham and was presented by Mr Darryl Mellish, Executive Director, BCA (NSW). The recipient was awarded a cheque ($500) and an inscribed glass trophy.

Certificate of Transport Management certificates were presented by Darryl Mellish, Executive Director, Bus and Coach Association NSW to: Ranjit Abraham, George Bate, Stephanie Boston, Paul Buchanan, Shelley de Courcy Lys, Danial Gibson, Gordon Hunt, Rodney Kennedy, Stephen St Hill, Arthur Thorpe, Hesham Youssef, Jay Zmijewski; and awarded in absentia to: Ros Allen, Melissa Bushby, Clayton Davidson, John Hurst, Tim Hyndes, Paul Lee and Glyn McKenna.
Advanced Certificate in Transport and Traffic Management certificates were presented by Dr Stephen Greaves, Senior Lecturer, Institute of Transport and Logistics Studies to: Rohit Autar, Tony Chalmers, Robert Day, Andris Galvins, Rhys Hazell, Niroshan Jeyarajah, Renuka Kaul and James Li; and awarded in absentia to: William Butler, Melinda Eisele, Abraham Khouri, Taysir Dawood, Richard de Luca, Pahee Sellathurai and Scott Smith.

(L-R) Professor David Hensher, the ACTTM students and Dr Stephen Greaves

The Institute of Transport and Logistics Studies (ITLS) Prize for research excellence in transport or logistics management was awarded to Joe Fai Poon and was presented by The Honourable Mr John Watkins MP, Minister of Transport. Joe was presented with a cheque ($250) and an inscribed glass trophy.

(L-R) Professor David Hensher, Joe Fai Poon and The Hon Mr John Watkins, Minister of Transport
Certificate of Outstanding Achievement Recipients

Students who had completed four or more TPTM units of study, had majored in either Transport or Logistics and who had achieved 75% or higher in their overall grade (i.e., a distinction average or higher) received a Certificate of Outstanding Achievement and a congratulatory letter from Professor David Hensher, Director, ITLS.

The following students were awarded their Certificate in 2008:

<table>
<thead>
<tr>
<th>Name</th>
<th>Country</th>
<th>Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr Tick Kei Cheang</td>
<td>Singapore</td>
<td>Transport</td>
</tr>
<tr>
<td>Mr Camden Mark Fitzgerald</td>
<td>Sydney, Australia</td>
<td>Transport</td>
</tr>
<tr>
<td>Mr Maria Pedro Francisco</td>
<td>Quezon City, Philippines</td>
<td>Logistics</td>
</tr>
<tr>
<td>Ms Lei Fu</td>
<td>Shanghai, China</td>
<td>Logistics</td>
</tr>
<tr>
<td>Mr Zhigang Gao</td>
<td>Beijing, China</td>
<td>Logistics</td>
</tr>
<tr>
<td>Mr Fernando Carlos Jana</td>
<td>Chile</td>
<td>Logistics</td>
</tr>
<tr>
<td>Ms Yu Yu Ma</td>
<td>Shanghai, China</td>
<td>Logistics</td>
</tr>
<tr>
<td>Mr Manuel Armando Montes</td>
<td>Massachusetts, USA</td>
<td>Logistics</td>
</tr>
<tr>
<td>Ms Sith Nurlaela</td>
<td>Surabaya, East Java, Indonesia</td>
<td>Transport</td>
</tr>
<tr>
<td>Mr Andres Pardo</td>
<td>Bogota, Columbia</td>
<td>Logistics</td>
</tr>
<tr>
<td>Mr Joe Fai Poon</td>
<td>Singapore</td>
<td>Transport and Logistics</td>
</tr>
<tr>
<td>Mr Nishant Tanay</td>
<td>Jharkhand, India</td>
<td>Logistics</td>
</tr>
<tr>
<td>Mr Noppawut Thiravijanayankul</td>
<td>Bangkok, Thailand</td>
<td>Transport and Logistics</td>
</tr>
<tr>
<td>Mr Thomas Vaclavek</td>
<td>California, USA</td>
<td>Logistics</td>
</tr>
<tr>
<td>Ms Xuan Wang</td>
<td>Liaoning Province, China</td>
<td>Logistics</td>
</tr>
<tr>
<td>Ms Bin Xing Xu</td>
<td>Changde City, China</td>
<td>Logistics</td>
</tr>
</tbody>
</table>
ITS-Monash

Undergraduate teaching

Staff associated with ITS-Monash continue to play a key role in the delivery of the undergraduate transport units in the civil and environmental engineering programs. The graph below illustrates the trends in undergraduate student numbers. Level 2 enrolments increased slightly while last year’s lower numbers in CIV2282 translated into slightly lower enrolments in the core road engineering unit (CIV3283). Due to Professor Young’s sabbatical leave in Semester 2, 2008, there was a swap in the semester when the final year electives were offered resulting in the Transport Planning unit (CIV4283) moving to second semester and Transport Systems (CIV4284) moving to first semester. This may partly explain the corresponding swap in enrolment numbers. Overall the total number of enrolments in the final year electives was higher in 2008 than 2007. Across all the undergraduate transport units, ITS Monash had responsibility for over 450 subject enrollments.

![Graph showing trends in undergraduate transport unit enrolments]

Key to unit codes: CIV2281 - Transport and traffic, CIV3283 – Road engineering, CIV4283 – Transport planning, CIV4284 – Transport systems

Trends in undergraduate transport unit enrolments

Staff also supervise final year research project students who are enrolled in CIV4210 Project A and CIV4211 Project B (Professors Bill Young and Graham Currie, Associate Professor Geoff Rose and Dr Majid Sarvi). Details of those projects are provided in the section of this report which deals with research activities.

Apart from the dedicated transport units described above, the staff also contribute to other units in the civil engineering program. Dr Majid Sarvi is responsible for the transport component of the major group design subject (CIV4212 Civil engineering practice 4), which is a core unit in the final year of the civil engineering degree. Staff are also responsible for two other units in the civil and environmental engineering programs: CIV3204 Engineering investigations which is taught by Dr Yibing Wang and CIV3205 Project management for civil engineers which is taught by Professor Bill Young.

Undergraduate student prizes awarded in 2008

The GHD Highway Design Prize – awarded to the group of Bachelor of Engineering students who submitted the best highway design – Chris Paxino, Madelline Tillig, Nick Manuelpillai.

The Richardson Prize in Transport – awarded to the BE student showing the greatest proficiency in one transport elective and project – Chris Arnott.

The Traffix Group Prize – awarded to the BE student showing the greatest proficiency in level 4 transport engineering elective subjects – David Lavoipierre.
Undergraduate student scholarships

The Traffix Group generously offers two scholarships to students who have an interest in and intend to pursue careers in transport engineering. The students must be in levels 2 and 3 of the Bachelor of Engineering degree at the time of application, and are awarded $1,000 and $1,500 respectively, as well as six to twelve weeks’ work experience with the company. In 2008, the level 2 scholarship was awarded to Shanika Ekanayake and the level 3 scholarship to David Beaton.

Postgraduate degrees by coursework

Graduate Certificate in Transport and Traffic
Postgraduate Diploma in Transport and Traffic
Master of Transport
Master of Traffic
Master of Infrastructure Engineering and Management (course management responsibility)

Trends in enrolments in the postgraduate coursework program are shown in the graph below. Enrolments grew again in 2008 with the postgraduate program in transport and traffic continuing to attract strong interest from throughout Australia and overseas. In line with Faculty time lines, the cut-off for applications for admission in Semester 1, 2009 was set in late 2008. The high number of applications received suggested that further growth in enrolments is likely in 2009.
Transport and traffic related units offered in 2008, as part of the distance education postgraduate coursework degree programs, are listed below along with details of the unit co-ordinator:

- CIV5301 Traffic engineering fundamentals (Ramsay/Rose)
- CIV5302 Road traffic: engineering and management (Young)
- CIV5303 Quantitative methods (Wang)
- CIV5304 Intelligent transport systems (Rose)
- CIV5305 Transport network models (Sarvi)
- CIV5306 Road safety engineering (Candappa/Rose)
- CIV5307 Parking policy and design (Young)
- CIV5308 Case studies in transport (Rose)
- CIV5310 Infrastructure project management (Seethaler)
- CIV5311 Infrastructure project and policy evaluation (Richardson)
- CIV5314 Transport planning and policy (Rose)
- CIV5315 Transport economics (Clements)
- CIV5316 Public Transport Planning (Currie)

Postgraduate student award

The VicRoads prize in Transport Engineering is awarded to the postgraduate student who has achieved the highest average mark in their coursework units. The award was won by Mark Alexander. Mark works for Transurban as a Development Consultant. In that role he is involved in the investigation, planning and delivery of solutions to provide optimum long-term outcomes for Transurban customers who travel on its tollways in NSW. Mark was presented with his award by Mr Rob Fremantle, a member of the Advisory Committee for ITS (Monash) and Executive Director, Network and Asset Planning, at VicRoads.

Mr Rob Fremantle, Executive Director, Network and Asset Planning (right), at VicRoads congratulating Mark Alexander (left) winner of the Vic Roads prize in Transport Engineering.
This year saw a number of postgraduate students complete their coursework degrees. Some of them chose to attend the graduation ceremonies held throughout the year (photos below).

(L-R) Tim Martin and Professor Bill Young (Supervisor) attend Tim’s PhD graduation.

(L-R) Andrew Somers, Associate Professor Geoff Rose, Aaron Gale, Queenie Siu, Knowles Tivendale, Kevin Flynn and Professor Bill Young following the May 2008 graduation ceremony

(L-R) San Sooriakumaran, Melinda Tickle, Associate Professor Geoff Rose, Matthew Gardiner and Goran Bacelic following the October graduation ceremony
Master of Infrastructure Engineering and Management

Using the same format and operational methods as the ITS-Monash postgraduate programs in transport and traffic, the Department of Civil Engineering developed a distance education masters program in infrastructure engineering and management in 2001. The course consists of eight units dealing with asset management, project management and project and policy evaluation, with specialisations in traffic, transport and water engineering. As a result of the experience gained in running the Bus and Coach and Transport Masters courses, it is managed by the Administration Manager of ITS-Monash, Brenda O’Keefe, on a contract basis for the Department. The course had 72 students enrolled in 2008.

Postgraduate research degrees

Trends in higher degree by research enrolments [MEngSci (Research) and PhD], are shown below. Postgraduate research student enrolments strengthened considerably in 2008 with most of the students enrolled in the Masters planning to transfer to the PhD program.

![Trends in postgraduate research student enrolments](image)

Students engaged in research degrees at ITS-Monash during 2008 included:

Daniel Csikos: Exploring commuter stress and public transport reliability
Mahmoud Mesbah: Optimisation of transit priority systems
Mark Karpovitch: Transport, infrastructure and engineering projects based on transferred technology financed in China
Md. Aftabuzzaman: Public transport performance measures of road traffic congestion relief
Md. Iqbal Kabir: Transport and land use modelling: a Melbourne Case Study
Mike Shackleton: A model for management of a public-good transport related research institutions
Richard Yeo: Effects of large road freight vehicles on the performance of typical Australian road pavements: the performance of cemented pavement materials under heavy axle loading.
Roger Toleman: Tollroads and sustainability: Friends or foes?
Sara Moridpour: Lane changing behaviour of heavy vehicles
Tan Yan Weng (external): A study of parking in multi-use facilities.
Tim Martin: Predicting pavement performance at a road network and road program level.
One student was awarded their PhD degree in 2008:

Tim Martin: Predicting sealed granular pavement deterioration at a road network level

A number of students received their degrees in the postgraduate program in transport and traffic:

**Graduate Certificate in Transport and Traffic**
David Sykes and Christopher Weavers

**Postgraduate Diploma in Transport and Traffic**
Aaron Gale, Adam Cracknell and David Tierman

**Master of Traffic**
Lauren O’Mera, Andrew Somers, Jun So, Haider Yousif, Goran Bacelic, Matthew Gardiner, Sanmugathasan Sooriakumaran and Melinda Tickle

**Master of Transport**
Queenie Siu, Knowles Tivendale, Mark Alexander, Robert Darbyshire, Damien Smith, Ian Hopkins and Ryan Sturgnell

**Master of Transport and Traffic**
Kevin Flynn

**Transport industry education programs**
The transport industry education programs remain core activities of ITS-Monash. The Bus and Coach accreditation course was launched in 1999. Greater stability in the industry in 2008, resulted in a stabilisation in the annual enrolments in the course. Existing operators continue to support the course when they employ new staff or seek to upgrade staff qualifications.
Transport industry education program and postgraduate coursework program awards

In 2008, the presentation of awards to outstanding students in the Transport Management Course in Bus and Coach Operations and the postgraduate program in Transport and Traffic was again held in conjunction with the annual Ogden Lecture. This high profile evening was held at the State Library of Victoria Theatrette in Melbourne in August and provided the ideal forum in which to recognize the achievements of our most successful students. A large audience participated in the evening, including senior officers of the Department of Infrastructure (DOI) and the Executive Director of the Bus Association of Victoria (BAV), as well as many industry, government and academic representatives. The awards are sponsored by industry and government and recognise outstanding performance of bus and coach operators completing subjects in the course.

The winners of the 2008 awards were as follows:


Bus Association of Victoria award for best overall performance in the Transport Management Course in Bus and Coach Operations (charter and coach operations, AC accreditation) – Andrea Ladner

Department of Infrastructure Small Operator Award for Unit 4101 Introduction to legislation and operations – Kari Hoskin.

iComply, AC/AO Operator Award for Unit 4101 Introduction to legislation and operations – Rowan Kent

The Pitcher Partners Large Operator Award for Unit 4102 Financial management – Max Grenda

Grenda Transit Large Operator Award for Unit 4103 Human Resource Management – Clint Comelli

The Ventura National Bus Award for Unit 4104, Marketing, planning and operations – Mark McKenzie

Prize winners and prize sponsors following the awards ceremony held in conjunction with the annual Ogden Transport Lecture.
Professional Development

Public Transport Planning I and II – Network and Strategic Perspectives

Both industry short courses in public transport planning (I and II) were run in November 2008. This year they were held concurrently in Sydney (3 to 6 November) and then in Auckland New Zealand (17 to 20 November). Attendance was the highest ever achieved for all of these short courses with participants coming 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 Currie and Professor Avi Ceder from the University of Auckland. Topics covered include strategic perspectives on planning public transport, performance monitoring and network design as well as operational perspectives.

Public Transit Planning

An industry short course in public transport planning was run at the University of Toronto, Canada between 23-24th June. The course was run by Prof Currie and Prof Amer Shalaby of the University of Toronto. The course was attended by planners from throughout Canada and the USA. Topics covered network design, intelligent transport systems and strategic planning in public transport.

Students at the Toronto Public Transport Short Course – June 2008
RESEARCH AND POLICY

Sustainability

As part of its objectives the Key Centre has a commitment to research which focuses on the three cornerstones of sustainability:

- Economic and financial sustainability - Creating incentives for efficient responses to needs; making limited funding produce maximum benefits.
- Environmental sustainability - Promoting more liveable settlements and reducing adverse external effects such as air, water, ground pollution.
- Social sustainability - Reducing poverty and meeting the needs of the disadvantaged (poor, disabled, elderly, young), improving public health.

Research projects

ITLS-Sydney

Associate Professor Stephen Greaves

MODELLING THE ENVIRONMENTAL IMPACTS OF COMMERCIAL VEHICLE TOURS AND FREIGHT MANAGEMENT POLICIES IN URBAN AREAS [ARC DISCOVERY PROJECT]

The aim of this research is to develop a new methodology to assess the environmental impacts of urban freight transport policies. The major innovations offered by the approach are: the development of an exposure-based module within the environmental evaluation component; an integrated emissions and noise model that is based on the operational characteristics of trucks; and a mathematical modelling approach that incorporates greater behavioural reality into the different tour/stop profiles of trucks. The outcomes of the research will be of importance to freight operators, local councils and road authorities charged with managing freight traffic, and public health authorities.

USING ARTIFICIAL NEURAL NETWORKS TO PREDICT EXPOSURE TO FINE PARTICULATES IN ROADWAY ENVIRONMENTS

Over the last three years, we have conducted a number of trials using GPS technology and portable pollution monitors to assess exposure to pollution at highly disaggregate spatio-temporal levels on various modes of transport in Sydney. The issue under investigation here is the identification and adaptation of appropriate statistical techniques for analysing these data, which by their very nature exhibit a highly complex data structure. Here, we investigate the potential for applying methods based on Artificial Neural Networks (ANNs) to this problem.

Professor David Hensher

ATTRIBUTE PROCESSING, HEURISTICS, AND PREFERENCE CONSTRUCTION IN CHOICE ANALYSIS

It has long been recognized that humans draw from a large pool of processing aids to help manage the everyday challenges of life. It is not uncommon to observe individuals adopting simplifying strategies when faced with ever increasing amounts of information to process, and especially for decisions where the chosen outcome will have a very marginal impact on their well being. The transactions costs associated with processing all new information often exceed the benefits from such a comprehensive review. The accumulating life experiences of individuals are also often brought to bear as reference points to assist in selectively evaluating information placed in front of them. These features of human processing and cognition are not new to the broad literature on judgment and decision making, where heuristics are offered up as deliberative analytic procedures intentionally designed to simplify choice. What is surprising is the limited recognition of heuristics that individuals use to process the attributes in stated choice experiments. In this research we present a case for a utility-based framework within which some appealing processing strategies
are embedded (without the aid of supplementary self-stated intentions), as well as models conditioned on self-stated intentions represented as single items of process advice, and illustrate the implications on willingness to pay for travel time savings of embedding each heuristic in the choice process. Given the controversy surrounding the reliability of self-stated intentions, we introduce a framework in which mixtures of process advice embedded within a belief function might be used in future empirical studies to condition choice, as a way of increasingly judging the strength of the evidence.

CONGESTION AND VARIABLE USER CHARGING AS AN EFFECTIVE TRAVEL DEMAND MANAGEMENT INSTRUMENT
Interest at the political level in congestion charging is gaining pace as cities struggle with ways to reduce the effects of growing traffic congestion on the liveability of cities. Despite a long history of promotion of a wide array of travel demand management (TDM) initiatives, very few have had a noticeable impact on the levels of traffic on the road networks of metropolitan areas. TDM success in this context has almost become ‘band-aid’ in the absence of a pricing strategy that not one promotes efficient use of the system but also hypothesizes revenues to support essential complementary infrastructure and services such as public transport. This research takes a look at the stream of pricing consciousness that is surfacing around the world. Although very few jurisdictions have implemented congestion charging, or any form of efficient variable car and truck user charging, the winds of change are well in place. The adage “it is not a matter of if but of when” seems to be the prevailing view.

DEVELOPMENT OF A BEHAVIOURAL SYSTEM OF STATED CHOICE MODELS: MODELLING BEHAVIOURAL, PRICING AND TECHNOLOGICAL OPPORTUNITIES TO REDUCE AUTOMOBILE ENERGY LEVELS [ARC DISCOVERY PROJECT GRANT]
Automobile use is attributed with over 70% of CO2 emissions from the transport sector. This project delivers a new framework to assess the impact of policies to reduce CO2 and other energy sources associated with existing ICE fuel sources and a range of scenarios that involve futures with alternative fuels. The proposed framework will radically change the approach used by practitioners in prediction, and provide a way of capturing behavioural responses of car users to new environmental futures, in which price, performance, distribution and maintenance play a crucial role in adopting environmentally friendly fuels and vehicle designs. Australia lacks this behavioural capability. The focus is on vehicle type choice and use, implementing ideas in discrete-continuous choice modelling, attribute processing, group decision making and prospect theory.

INCOMPLETENESS IN BUS CONTRACTS: IDENTIFYING THE NATURE OF THE EX ANTE AND EX-POST PERCEPTUAL DIVIDE
In the transport sector, many types of contracts exist. Some are very precise, and strive for completeness; others are very ‘light-weight’ and are incomplete. Bus and coach contracts, won through competitive tendering or negotiation, are typically incomplete in the sense of an inability to verify all the relevant obligations, as articulated through a set of deliverables. This research draws on recent experiences in contract negotiation, and subsequent commitment, to identify what elements of the contracting regime have exposed ambiguity and significant gaps in what the principal expected, and what the agent believed they were obliged to deliver. Using a generalized ordered choice model, in which the order defines agent perceptions of the extent of discrepancy between the principal and the agents ‘understanding’ of contract obligations, we identify the extent of perceived incompleteness across a sample of bus contracts.

INTEGRATING ACCIDENT AND TRAVEL DELAY EXTERNALITIES IN AN URBAN SPEED REDUCTION CONTEXT [ARC DISCOVERY PROJECT GRANT]
The recognition that accident externalities are not independent of travel delays, and hence travel time savings and losses will promote a serious policy rethink about strategies designed to reduce the risk of exposure to accidents. The evidence is designed to identify that additional externality that has to be factored into the accident costs to recognise the other sources of externality typically ignored in accident costing and speed restriction studies. The implication on the development of a national program of road safety is likely to be profound. New surveys using stated choice methods are being developed and data collected to identify the willingness to pay to avoid fatalities and severe injuries.
Professor David Hensher, Dr Stuart Bain and Zheng Li

R-TRESIS: DEVELOPING A DEMAND AND SUPPLY MODELLING CAPABILITY FOR AN INTEGRATED TRANSPORT AND LAND USE MODEL SYSTEM FOR REGIONAL NEW SOUTH WALES

This research sets out a demand modelling framework for the development of a regional transport and land use model system (R-TRESIS), to be implemented for New South Wales (Australia). Traditionally, the focus of such a model system has been major metropolitan areas such as Sydney, where we have developed TRESIS (Hensher 2002). Given the growing concern about regional accessibility to many service classes, there is a need for a modelling capability that can be used to prioritise and guide policy decisions in regions that are often described as remote, rural, low density and small town. In developing a framework that is capable of integrating both demand and supply elements of transportation and land use activity, we recognized the challenges in developing primary data sources, and the high likelihood of a reliance on secondary data sources. This suggested an alternative approach to demand modelling that was not dependent on choice models; namely a suite of continuous choice models in which we capture the actual activities undertaken by each mode on both the demand and supply side.

Professor David Hensher, Associate Professor Stephen Greaves and Professor Peter Stopher

EXPLORING BEHAVIOURAL RESPONSES OF MOTORISTS TO EXPOSURE-BASED CHARGING MECHANISMS [ARC LINKAGE GRANT, WITH AAMI]

Our continued reliance on cars is estimated to cost the Australian economy around $50 billion per year in accidents, congestion and air pollution. This project delivers a new approach to reduce these externalities, in which charges are levied on drivers based on their accident history, the kilometres driven and the circumstances under which these kilometres are driven. In addition to the safety and congestion benefits, the outcomes of the project will be of importance to those charged with raising revenue to support infrastructure maintenance and development, and the insurance industry as a basis for reducing risks in driving and making premiums more equitable.

Professor David Hensher and Zheng Li

ASSESSING SOURCES OF VARIATION IN TRAVEL DEMAND ELASTICITIES: A META ANALYSIS

This project is documenting studies that have established empirical estimates of direct and cross elasticities for public transport service and cost. The aim is to explain differences in the estimates as way of understanding the influence on methods, data paradigms and context in influencing variations in estimates.

TOLL ROADS IN AUSTRALIA

This research provides key information (e.g., length, toll rates, year opened, operator(s) and payment alternatives) on the fully interoperable toll roads in Australia that are present in Sydney (e.g., the M2, M4, M5, etc.), Melbourne (CityLink and EastLink) and Brisbane (the Gateway Bridge, the Logan Motorway and the Gateway Extension). A primary motivation of this paper is to draw together, in one source, information on the nature, extent and performance of Australia’s evolving toll road network which is currently spread across many disparate published and unpublished sources. Where available, we compare and discuss actual traffic levels and forecasts, revealing the sizeable gap or ‘error’ in forecasts, especially during the first year of operation. Ordinary regression and panel random effects regression models are developed to identify potential sources of explanation of differences in error forecasts between the Australian toll roads at various points post the opening date. The evidence suggest that the capacity of a toll road, the elapsed time that the toll road has been in place, the specific period of time in which a tolled road is introduced into the network (which influences the complexity of route options including multiple tolled routes and hence toll saturation), the length of the tolled route, the presence of cash payment, and the charging regime (i.e., fixed vs. distance-based or variable user tolls) are key influences on errors in forecasts.

Professor David Hensher and Dr John Rose

DIMENSIONALITY OF STATED CHOICE DESIGNS

Stated choice (SC) methods are now a widely accepted data paradigm in the study of behavioural response of agents (be they individuals, households, or other organizations). Their popularity since the pioneering
contributions of Louviere and Woodworth (1983) and Louviere and Hensher (1983) has spawned an industry of applications in fields as diverse as transportation, environmental science, health economics and policy, marketing, political science and econometrics. With rare exception, empirical studies have used a single SC design, in which the numbers of attributes, alternatives, choice sets, attribute levels and ranges have been fixed across the entire design. As a consequence the opportunity to investigate the influence of design dimensionality on behavioural response has been denied. Accumulated wisdom has promoted a large number of positions on what design features are specifically challenging for respondents (e.g., the number of choice sets to evaluate); and although a number of studies have assessed the influence of subsets of design dimensions (e.g., varying the range of attribute levels), there exists no single study (that we are aware of) that has systematically varied all of the main dimensions of SC experiments. This research uses a Design of Designs (DoD) SC experiment in which the ‘attributes’ of the design are the design dimensions themselves including the attributes of each alternative in a choice set. The design dimensions that are varied are the number of choice sets presented, the number of alternatives in each choice set, the number of attributes per alternative, the number of levels of each attribute and the range of attribute levels. We investigate how different designs impact on willingness to pay (i.e., attribute valuation), using a sample of respondents in Sydney choosing amongst trip attribute bundles for their commuting trip.

Professor David Hensher and Dr John Rose (with S. Jones)

INFRASTRUCTURE ASSET REPORTING OPTIONS: A STATED PREFERENCE EXPERIMENT

This research develops of a stated preference experiment conducted on representatives from government trading enterprises, general government entities (such as government departments) and local councils in Australia. The experiment was administered via a CAPI (computer aided personal interview). Using a Bayesian D-error efficient experimental design and a generalized mixed ordered logit model for estimation, the aim is to identify a number of statistically significant influences on infrastructure asset reporting alternatives. These include prevailing government attitudes to the funding of public infrastructure; the physical condition of public infrastructure; the total value or investment of public infrastructure under the agency’s control (as a percentage of total assets); and the amount of annual budget expenditure required to maintain public infrastructure (as a percentage of total own-source expenditure). The findings are designed to test the contention that accounting reports should be supplemented by additional information about the condition of existing infrastructure.

Professor David Hensher and Dr John Rose (with K. Howard, S. Jan, A. Cass, S.J. Chadban and R.D. Allen)

COMMUNITY PREFERENCES FOR ORGAN DONATION AND ALLOCATION IN AUSTRALIA

Improvements in the organ donation rates can be expected to have significant societal benefits with reductions in long term health care costs for recipients as well as improvements in quality of life. Unfortunately, Australia currently is recognised as having one of the lowest organ donation rates in the developed world 9. The chronic shortage of donor organs is recognised as a significant national and international health priority and the appointment of the national Taskforce to address this topic5 is testament to the significance and importance of this issue in Australia. Understanding why Australia has such a low organ donation rate is critical before organ donation rates can be improved. Without detailed research into public perceptions towards and even knowledge of organ donation procedures, strategies and procedures cannot be implemented that will increase donation rates within this country. Whilst a number of studies have examined public attitudes towards organ donations, these have tended to rely solely on multi-item scale questions, which whilst useful, typically provide a snapshot of current attitudes but do not provide useful information as to possible strategies that may bring about changes in public attitudes and perceptions of organ donations. As such, a different methodology capable of not only measuring the public’s attitudes towards organ donations, but also allowing for the testing of different policy procedures is required. In the proposed research, we intend to use SC methods to understand the public preferences for organ donation and, in doing so, assist in driving debate on several potential policy measures that may be implemented by the Australian government.
Professor David Hensher and Professor John Stanley

ROAD TRANSPORT AND CLIMATE CHANGE: STEPPING OFF THE GREENHOUSE GAS
Transport is Australia’s third largest and second fastest growing source of greenhouse gas (GHG) emissions. The road transport sector makes up 88 percent of total transport emissions and the projected emissions increase from 1990 to 2020 is 64 percent. Achieving prospective emission reduction targets will pose major challenges for the road transport sector. This research investigates two targets for reducing Australian road transport greenhouse gas emissions, and what they might mean for the sector: emissions in 2020 being 20 percent below 2000 levels; and emissions in 2050 being 80 percent below 2000 levels. Six ways in which emissions might be reduced to achieve these targets are considered. The analysis suggests that major behavioural and technological changes will be required to deliver significant emission reductions, with very substantial reductions in vehicle emission intensity being absolutely vital to making major inroads in road transport GHG emissions.

Professor David Hensher and Professor John Stanley (with J. Stanley and G. Currie)

SOCIAL EXCLUSION AND THE VALUE OF MOBILITY
This research investigates factors likely to increase an adult person’s risk of social exclusion, drawing on a detailed household survey in Melbourne, Australia, and uses the findings to impute the value of additional trips. The survey included questions related to personal well-being, travel patterns, household income, social capital and community strength, as well as various indicators of risk of social exclusion. We use a generalised ordered logit (GOL) model that accounts for observed and unobserved heterogeneity through the random parameterisation of thresholds, and derive the marginal effects for each influencing attribute, taking into account the various ways in which each influence contributes to the likelihood of a person being at risk of social exclusion. The major finding is that people are less likely to be at risk of social exclusion if they have regular contact with significant others, have a sense of community, are not poor, are mobile. The research implies that the value of an additional trip in Melbourne is just under $20 for a household at the average income level, implying considerable benefit for mobility enhancing initiatives. Values are higher for people from lower income households, supporting initiatives to reduce exclusion.

Dr Ada Suk-Fung Ng

PORT CHOICE: AN OCEAN LINER’S PERSPECTIVE
Ongoing Ocean liners and port operators are closely related business partners in sea borne supply chains. An ocean liner calling on a port will increase the connectivity of the port. Together with the efficiency and productivity of the port, more shippers will be attracted to ship their cargos via this liner-port pair. As a result, it increases the profit of both the ocean liner and the port operator. This project aims to study the factors that affect the choice of ports of an ocean liner on its regular shipping routes in order to provide insights for port operators in developing business and marketing strategies.

Dr Ada Suk-Fung Ng (with D. Oron, S.N. Sze and V. Timkovsky)

A TWO-STAGE SCHEDULING MODEL FOR THE IN-FLIGHT CATERING SERVICE
This project studies the in-flight catering scheduling problem. A group of loading teams has to transport food from the kitchen and load it into aircrafts, which land and depart within tight time windows. The number of aircraft that can be served in a trip is restricted by the capacity of the loading truck and a food exposure time limit. Each loading team can only serve a specific set of aircraft types. A two-stage scheduling model is proposed to assign each loading team to aircrafts and decide the shift hour of each team in order to minimize the number of loading team needed.

Dr Ada Suk-Fung Ng and Dr Stuart Bain

HETEROGENEOUS PICK UP AND DELIVERY ROUTING PROBLEMS WITH TOTAL ROUTE TIME CONSTRAINT
The transportation and trucking industry remains one of the most important fields in the area of freight logistics. Recent advances in computing speed and power have led to a wide variety of applications being developed in the field of the trucking industry. Due to the increasingly demanding nature of servicing the transportation of goods between different locations, it has become more important for trucking companies to
adopt more up-to-date methods of handling operational activities. In this project, we look into a FTL pickup and delivery routing issue where the total route time of each truck is limited such that truck driver will not be away from the depot longer than the time limit, which reduces the turnover rate of long-haul truck driver. Our objective is to effectively assign trucks to customer orders in various locations, to minimize costs due to deadhead travel between the various pickup and delivery locations, and delay in deliveries.

**Dr Ada Suk-Fung Ng and Dr Stuart Bain (with J. Leung and X. Cai)**

**A DISTRICTING PROBLEM WITH SERVICE-TIME CONSTRAINTS**

In police patrolling service, police patrolling teams have to patrol within the servicing area round the clock everyday. Whenever there is incident reported, the team has to reach the crime scene in a reasonably short time. A typical way to achieve this is to zone the area into a certain number of districts. Each district is served by a patrolling team. The objective of this project is to provide an effective zoning method in order to minimize the number of patrolling teams needed, while keeping a high service level by responding to the incident in a reasonably short time.

**Dr John Rose**

**POLICY IMPLICATIONS BASED ON CUSTOMER PREFERENCES FOR END OF LIFE PRODUCT RECYCLING: A STATED PREFERENCE APPLICATION FOR REVERSE LOGISTICS**

The disposal of Electrical Electronic Equipment (EEE) has been gaining prominence in the past decade. The issue has attracted interest due to the hazardous components, such as lead, cadmium, and beryllium, of waste electrical and electronic equipment (WEEE) which then interact with the environment when disposed of in conventional waste stream. The number of EEE devices being sold and the speed at which they reach obsolescence is also seen to be increasing. The recycling of domestic waste has become firmly planted in government waste management practices around the world. Improving recycling rates of metal cans, glass, plastic and paper reflect the general uptake of recycling activities in households. Consumers as one of the major forces, besides governmental regulators, who are responsible for the change in electronic waste management practices and environmentally sound developments concerning governmental and companies’ activities in general, are identified in many articles. The proposed study will utilise SC methods analysed using discrete choice models. These methods essentially involve a survey in which sampled respondents are asked to choose from amongst a number of hypothetical alternatives defined on a number of attribute dimensions. By presenting respondents with different choice situations where the attribute levels of the alternatives are changed, researchers are able to identify how these attribute level changes influence choice. In the current study, respondents will undertake a similar choice experiment, with different policy alternatives for recycling of three different products; i) cans/and or bottles, ii) mobile phones and iii) televisions. These three products represent products of different values as well as products with different life cycles. By choosing products with these different characteristics, it is hoped to determine how these influence individual’s preferences for recycling of different goods.

**Dr John Rose and Associate Professor Michiel Bliemer**

**DESIGNING EFFICIENT DATA FOR STATED CHOICE EXPERIMENTS: ACCOUNTING FOR SOCIO-DEMOGRAPHIC AND CONTEXTUAL EFFECTS IN DESIGNING STATED CHOICE EXPERIMENTS**

Identifying methods for reducing the number of respondents required for stated choice (SC) experiments is important for transport studies given increases in survey costs. Such reductions, however, must not come at the cost of a lessening in the reliability of the parameter estimates obtained from models of discrete choice. Recognition of this has resulted in growing interest in a class of SC designs known as efficient designs, which balance reliability concerns with sample size issues. To date, however, the literature on generating efficient designs has only considered experiments that involve only attributes of the experiment. Covariates that may be used in data analysis have therefore ignored to date. In this research, we demonstrate that if covariates are to be used in data analysis, then the efficiency of a SC design may be lessened. We demonstrate how efficient SC experiments may be constructed to account for covariates, and how minimum quotas may be established in order to retain a fixed level of efficiency.
DESIGNING STATED CHOICE EXPERIMENTS: STATE-OF-THE-ART
Stated choice experiments are often used in transportation studies for estimating and forecasting behaviour of travellers, road authorities, etc. These kinds of experiments rely on underlying experimental designs. This research is designed to analyse and describe in as simple manner as possible, the processes of designing stated choice experiments and is intended to give an overview of the current state-of-the-practice and more importantly the current state-of-the-art. Different design types are examined and described. Orthogonal designs are mainstream under practitioners, but nowadays many researchers realize that so-called efficient designs are able to produce more efficient data in the sense that more reliable parameter estimates can be achieved with an equal or lower sample size. Different types of efficient designs are examined, including possible algorithms for generating efficient designs.

Professor Peter Stopher

COMMUNITY PERCEPTION AFTER SURVEY
ITLS was asked to repeat the Community Perception Survey conducted in Western Adelaide in 2005, prior to the TravelSmart implementation, using as many of the same households as had been used in 2005 as possible. The survey was identical to the previous one, except for the opening screening questions, and the recruitment of additional households to make the sample up to the same size as the original survey. Fieldwork was conducted with about 400 households in November and early December and data have been computerised from the face-to-face surveys. Analysis will be completed in the first three months of 2008. The purpose of the project is to determine whether or not the TravelSmart intervention has changed attitudes about car use and barriers to change from car dependence. The final sample consists of a mix of TravelSmart participants and non-participants.

DEVELOPING TOUR BASED MODELS FOR AN INTEGRATED LAND USE, TRANSPORT AND ENVIRONMENT MODEL SYSTEM FOR AUSTRALIA [ARC DISCOVERY PROJECT GRANT]
Land use activity and transport provision represent important facets of the Australian economy (e.g., transport activities represent 17% of the total national gross domestic product). This project will improve significantly the ability of policy makers to make better and timely judgments about the virtues of specific land use and transport planning outcomes. The behavioural models to be developed will allow for greater sensitivity analysis to policy scenario planning, with measured impacts including forecasts of traffic levels and environmental impacts, especially greenhouse gas emissions and energy requirements. Our work to date has concentrated on literature review and exploring the potential definitions of a tour. Work is also proceeding on reanalysing the wealth of GPS data we have accumulated to represent tours rather than trips.

LONG-RANGE MONITORING OF TRAVEL BEHAVIOUR CHANGE PROGRAMS FOR THE NTBCP [QUEENSLAND TRANSPORT]
Following on from the successful completion of the Pilot Testing of alternative methods for conducting a long-range monitoring program for voluntary travel behaviour change projects, the National Travel Behaviour Change Project partners, through Queensland Transport selected ITLS to conduct long-range monitoring for the period from late 2007 until late 2012, with a final report to be submitted in March 2013. The project involves a panel of approximately 115 households, drawn from the ACT, Queensland, South Australia and Victoria who will complete a 15-day GPS survey once a year from 2007 through 2012. The initial wave of the panel was completed in November-December of 2007, and subsequent waves of the panel will be completed in the period of October-November. A report is to be provided to the NTBCP partners prior to March 1 each year from 2009, documenting the changes in greenhouse gas emissions that are estimated from this survey.

OHIO GPS HOUSEHOLD TRAVEL SURVEY [OHIO DEPARTMENT OF TRANSPORTATION, OHIO, USA]
ITLS was selected as part of a team to conduct the first GPS-only household travel survey to be conducted anywhere in the world. The survey will involve 4,000 households recruited to carry GPS devices for 3 days, with the sample selected to cover the entire calendar year of 2009. A sub sample of 1,500 households will be asked to complete a prompted recall survey, in which respondents will be asked to provide additional details about each trip recorded by GPS for one of the three days. Each member of each sampled household over the age of 12 will be asked to carry a GPS device. The principal task that will be undertaken by ITLS is to develop enhanced software for deducing trips, with mode, purpose, and other attributes required for travel demand modelling. In addition, ITLS will design the prompted recall survey and all survey materials to be
distributed with the GPS devices, and will process all GPS data. It is expected that the software enhancements will involve the addition of artificial intelligence software to the existing heuristic software that ITLS has developed over the past 5 to 6 years, thereby improving the accuracy of the deduced data, eliminating the need for manual checking, and providing additional data such as occupancy and cost information.

PILOT VALIDATION OF THE VISTA 2007 HOUSEHOLD TRAVEL SURVEY BY GPS
PlanTrans Pty Ltd was selected by VicRoads to undertake a pilot validation of the new Victoria Integrated Survey of Travel and Activity (VISTA) of 2007-8. PlanTrans Pty Ltd subcontracted with ITLS to provide the GPS devices and to analyse the data collected from the GPS units. The survey was conducted by recruiting households by door-knocking in selected suburbs of Melbourne and, after recruiting the household to do the VISTA survey, then attempting to recruit the household to also do a one-week GPS survey covering the same time as the VISTA survey. A sample of 80 households undertaking the GPS survey was desired, with the expectation that this would result in 50 households actually completing both the VISTA and GPS surveys as requested. Final analysis of the results is still being conducted.

TOOLS EFFECTIVENESS EVALUATION [SOUTH AUSTRALIA DEPARTMENT OF TRANSPORT, ENERGY, AND INFRASTRUCTURE]
ITLS was asked to undertake a study to determine which tools used in the TravelSmart implementation in the western suburbs of Adelaide were most effective in producing travel behaviour change. The project will take place in two stages. In the first stage, a data file from SA DTEI will be merged with data from the odometer and GPS panels to show which tools were taken by each participating household. ITLS will then determine if it is possible to determine differences in the changes made by households as a result of TravelSmart that can be attributed to the tools provided. In the second stage, a survey will be undertaken of households that participated in TravelSmart to ask them which tools they received and which they found more useful in helping them to change their travel behaviour. The result of the study is expected to provide improved information about which tools are most effective in assisting households to change travel behaviour.

Professor David Walters

EMERGING BUSINESS MODELS: THE IMPACT ON LOGISTICS
The expanding interest by the recently industrialised economies has led to their increasing competition in high labour content manufacturing. This development resulted in many Australian manufacturing companies becoming uncompetitive and looking to restructure their business models. This project considers the impact that a shift from high volume-low value business models towards high value-low volume models is having on business model design and logistics management.

IS THE TRADITIONAL SUPPLY CHAIN ADEQUATE TO THE CHANGES OF THE TWENTY FIRST CENTURY?
It is arguable that the conventional supply chain is becoming limited in its ability to identify optional and innovative responses. Recent research suggests understanding the nature of demand through demand chain analysis for example; the trade-off factors between product-service characteristics may result in on an emphasis on non-price value differentiation and greater margins. Demand chain analysis has explored and has ascertained, for example, the role of brands, innovation, and service response and identified the sensitivities of customer response to these and other product-service features. Using demand chain to identify the customer expectations or, product/service profile(s) of markets and their segments results in an effective and efficient Response Management approach to both customer and supplier relationship management and a closer alignment with the value chain concept.
ITS-Monash

Daniel Csikos, Professor Graham Currie and Associate Professor Geoff Rose

THE IMPACTS OF TRANSIT RELIABILITY AND WAIT TIME FOR LONG HEADWAY SERVICES
A review of theoretical research on the waiting time impact of headways and alternative service reliability has been completed and followed by primary data collection on wait times and reliability associated with Melbourne passenger rail services. Data was collected using magnetic ticket validation data and established one of the most robust models ever to test the theory associated with these issues. Results are to be reported at the 2007 Annual Meeting of the US Transportation Research Board and have been recommended for publication in Transportation Research Record.

Professor Graham Currie

A REVIEW OF AUSTRALIAN BUS RAPID TRANSIT SYSTEM DEVELOPMENTS
Started in 2004 this is proving an ongoing project as developments in BRT have continued in Australasia throughout 2006. ITS (Monash) has been invited to undertake presentations of our research in this area in Barcelona Spain (February 2006), Florida (January 2006) and also Bogota, Columbia at the 5th International Bus Conference (February 2007). For the last 2 years the project was also funded by the US Federal Transit Authority through the Bus Rapid Transit Institute at the University of Florida. The major project output is a ‘white paper’ updating bus rapid transit developments in Australasia to 2009.

EXPLORING THE IMPACTS OF THE FREE BEFORE 7 PEAK RAIL DEMAND MANAGEMENT POLICY
This project reviews the state government’s policy of providing free rail fares for passengers travelling before 7 a.m. as a means of reducing peak loads on overloaded trains. It includes an independent assessment of existing evidence and a review of the policy within the context of international research on rail pricing to manage overloading. It evaluates the program in terms of financial and economic impacts.

REGIONAL TRANSPORT TO REMOTE COMMUNITIES IN DESSERT AUSTRALIA
Specialist advice to the Dessert Knowledge Cooperative Research Centre on a project in association with the Transport Systems Centre in South Australia on access options and issues for Aboriginal Communities between remote settlements and major regional centres.

Professor Graham Currie, K. Burns and A. De Bono

CONNEX MONASH MSC RESEARCH SCHOLARSHIP
A design research project which is to focus on rail infrastructure issues associated with Melbourne’s rail system.

Professor Graham Currie and M. Kissane

RESEARCHING STATION DWELL TIME FOR METROPOLITAN TRAINS
This project reviews the background literature on railway capacity and factors influencing station dwell time. It then uses this as a basis for planning and implementing a series of station dwell time surveys to explore factors affecting station dwell time in Melbourne. The project also aims to make suggestions on how best to manage station dwell time into the future.

Professor Graham Currie and A. Koorn

PLANNING ROADSPACE TO ENHANCE TRAM PRIORITY
This project involves understanding the context for traffic engineering to improve streetcar operations and applying this knowledge in a real world planning study undertaken with the cooperation of the VicRoads Bus and Tram Division. The research includes access to VicRoads planning data for a selected tram route, reviewing this and determining an appropriate set of traffic measures as part of Melbournes ‘think tram’ program.
Professor Graham Currie and C. Loader

EXPLORING BUS TRANSFER BEHAVIOUR IN METROPOLITAN MELBOURNE
This project, in conjunction with the Bus Association of Victoria, explores bus transfer behaviour in Metropolitan Melbourne through a review of travel survey evidence and an analysis of the service quality and design context of locations where transfers are being made.

Professor Graham Currie and S. Mahmood

RESEARCHING PERSONAL SAFETY, PUBLIC TRANSPORT AND YOUNG PEOPLE
This project explores personal safety concerns for young people based on a review of the research literature and an interview survey of students at Monash University. The project aims to identify the scale and nature of safety concerns and to establish their impacts on the mobility and activities which students do or do not undertake. The project will also consider the types of solutions which might address these concerns.

Professor Graham Currie, A. McDonnel, K. Burns and A. De Bono

TRAM INFRASTRUCTURE DESIGN RESEARCH
A design research project focussing on tram stop design issues.

Professor Graham Currie and J. Pucher

A COMPARATIVE ASSESSMENT PUBLIC TRANSPORT TRENDS IN AUSTRALIA, AND NORTH AMERICA
A review of the public transport trends in three countries undertaken in association Rutgers University, USA.

Professor Graham Currie and J. Reynolds

REVIEWING THE SAFETY IMPLACTS OF TRAM STOP REDEVELOPMENT IN METROPOLITAN MELBOURNE
This project reviews the pedestrian and road safety impacts of the program of tram stop redevelopment underway in Melbourne. Since 2006, several hundred tram stops have been converted to platform stop designs. Little if any safety analysis of these redesigns has been undertaken. The project reviews previous safety research evidence, historical safety records and includes field safety audit reviews of new and older tram stop designs.

Professor Graham Currie and S. Subhawickrama

USE AND ABUSE OF THE NORTH ROAD BUS LANE
This project involves reviewing the research literature associated with bus priority treatments and the road rules associated with bus lanes. The project reviews the aims of bus priority provision and surveys how road traffic and buses are using the bus lane to assess if the lane is meeting its objectives. The project also aims to suggest improvements to how bus lanes are managed into the future.

Professor Graham Currie and Alexa Delbosc

CITY OF MELBOURNE PEDESTRIAN FLOW MODELLING RESEARCH AND DEVELOPMENT PROJECT
This project for the City of Melbourne concerns pedestrian flow records collected from its continuous flow monitors located at 20 locations throughout Melbourne CBD. The aim is empirically explore the factors affecting daily pedestrian flows over time and location and to develop a model for use in forecasting future flows. The approach involves the adoption of multiple regression methods and the tracking of pedestrian flow volumes using a range of explanatory data including social and economic indicators, special event records and transit and traffic flow records.

LITERATURE REVIEW OF INDUCED TRAFFIC
This literature review examines published research evidence concerning the topic of ‘induced traffic’. It examines definitions, evidence regarding its causes and potential mitigating factors, evidence for and against
its validity as a travel demand effect, evidence regarding the scale and time frame of effects, specific evidence of impacts associated with ‘clearway’ type measures and evidence associating ‘induced traffic’ impacts associated with on-road public transport impacts.

Professor Graham Currie, Alexa Delbosc and A. Ahern

EXPLORING THE DRIVERS OF LIGHT RAIL ROUTE RIDERSHIP – AN INTERNATIONAL REVIEW
This international project examines light rail route ridership in a number of international cities using empirical modelling to explore factors which act to explain levels of ridership. The project is a cooperative venture of Monash University and University College Dublin and examines light rail routes in Melbourne, Dublin, Toronto and many North American and European cities.

Professor Graham Currie, Alexa Delbosc and Pauline Forbes

UNDERSTANDING THE IMPACTS OF WEB BASED RESEARCH CLEARINGHOUSES ON TRANSPORT POLICY, PRACTICE AND RESEARCH
This project reviews the performance of a web based research clearinghouse (www.sortclearinghouse.info) designed to increase knowledge and learning associated with social issues in transport. It examines performance through a survey of site users and a review of visitation records. The aim is to establish how transport policy and practice and research is impacted by system of this type.

Professor Graham Currie, Professor Tony Richardson, P. Smyth and D. Vella-Broderick

INVESTIGATING TRANSPORT DISADVANTAGE, SOCIAL EXCLUSION AND WELL BEING IN METROPOLITAN, REGIONAL AND RURAL VICTORIA
ITS (Monash) has won its first Australian Research Council Industry Linkage award for this 3 year interdisciplinary project to explore how transport problems impact on life opportunities and community well being. The project has a $1.1M budget and draws together international collaborations from the UK (Prof Hine, University of Ulster and Dr Karen Lucas, University of Westminster) as well as sponsorship resources from the Department of Infrastructure, The Brotherhood of St Lawrence and the Bus Association of Victoria. The project will entail case study analysis of six regions of Victoria and the development of quantitative survey instruments to explore the mechanisms and behaviours associated with transport disadvantage, understand how public transport acts to influence these issues and explore wider life impacts of lack of mobility.

Evan Gwee, Professor Graham Currie, J. Stanley and J. Madden

IMPROVING METHODOLOGIES TO ESTIMATE THE ECONOMIC IMPACTS OF AGGLOMERATION ECONOMIES IN URBAN RAIL PROJECTS
This project sponsored by the Land Transport Authority of Singapore is developing new methodologies for measuring the impact of business agglomeration economies associated with new urban rail projects on the economic performance of cities. The project involves the cooperation of the Centre for Policy Studies and the use of the ORANI economic modelling tool to estimate impacts of restricted rail capacity on Melbournes economy.

Paul Hamer, Professor Graham Currie and Professor Bill Young

REVIEWING THE IMPACTS OF THE MELBOURNE CBD PARKING LEVY
A review of the impacts of the Melbourne CBD parking levy including modelling of travel demand impacts and a series of surveys of parking providers ranging from owners, owner lessees, operators and private sector employers.
Victoria Johnson, Professor Graham Currie and J. Stanley

EXPLORING LINKS BETWEEN ARTS AND CULTURAL ACTIVITY PARTICIPATION, TRANSPORT AND SOCIAL EXCLUSION
This project explored links between transport and social exclusion with a focus on the unusual topic of travel to arts and cultural activities. The project is a phd project associated with the centres Australian Research Council project linking transport disadvantage with social exclusion and well being. The research is reviewing existing travel survey evidence and undertaking a series of field surveys focussing on social groups and their attendance/non-attendance of arts and cultural activities.

Zulsam Kifli, Professor Bill Young and Associate Professor Geoff Rose

COMPARISON OF PARKING POLICY IN VARIOUS CITIES
This study reviews parking policies in a number of cities before focusing on parking policies in three cities for detailed investigation.

Ehsan Mazloumi, Professor Graham Currie, Associate Professor Geoff Rose and Dr Majid Sarvi

INVESTIGATION OF TRAVEL TIME AND VARIABILITY PREDICTION FOR ROADS BASED PUBLIC TRANSPORT
This project aims to develop a methodology to predict reliability for on road public transport systems. It includes an empirical analysis of factors causing travel time variability on bus and tram routes and the adoption of advanced methods for real time prediction.

Mahmoud Mesbah, Dr Majid Sarvi, Professor Graham Currie and I. Ouveysi

OPTIMISING THE PROVISION OF ON-ROAD PUBLIC TRANSPORT PRIORITY AT A NETWORK LEVEL
This project uses advanced mathematical optimisation modelling to develop a new methodology for optimising the provision of public transport priority on a transportation network.

Associate Professor Geoff Rose

MOTORCYCLES AND TRANSPORT STRATEGY
Within the context of sustainable transport strategies being prepared throughout the world, motorcycles rarely feature prominently. Motorcycles tend to get greatest attention in the content of road safety strategies where actions are identified to reduce the incidence of fatalities and serious injuries associated with motorcycle use. The mobility advantages of the mode have received limited professional attention. This project examined the relevance of motorcycling in the context of achieving broader objectives being set by Governments for the transport system and identified a set of policy instruments which could be employed to influence the extent and use of motorcycles.

Associate Professor Geoff Rose and M. Richardson

OPERATIONAL IMPACTS OF ALTERNATIVE PRIVATE PASSENGER VEHICLES
This research was undertaken to provide road authorities with enhanced understanding of the characteristics of emerging vehicle types, their potential impacts and the implications for changes which may be required in road design or regulations. A broad spectrum of alternative vehicles was reviewed including a range of personal mobility devices, such as the Segway and Motorised Mobility Scooters, power assisted bicycles and a diversity of three and four wheeled cars with smaller spatial, or lighter environmental, footprints than conventional motor cars. A series of passenger vehicle types across the spectrum were assessed in terms of their impacts on key outcomes of interest including congestion, safety, energy, emissions, road space and parking requirements. Consideration was given to the potential responses by road and transport authorities to these emerging types of vehicles.
MAKING THE MOST OF AUSTRALIAN INFRASTRUCTURE: THROUGH EFFICIENT USE OF EXISTING AND NEW INFRASTRUCTURE STIMULATED BY DEMAND MANAGEMENT

This research culminated in a resource paper delivered at the Infrastructure 21 Summit organised by the Australian Davos Connection. The research explored the role that low cost opportunities presented by demand management could play in transforming Australia’s future infrastructure. Cases were examined in the areas of energy, water and transport. The paper developed a set of principles for demand management including pricing at full marginal social cost, developing smart systems for infrastructure operations, providing incentives for utilities to promote efficiency, regulation of efficiency measures, behaviour modification and equity.

DESIGN AND EVALUATION OF AN ECODRIVER TRAINING PROGRAM IN THE VICTORIAN CEMENT INDUSTRY

This project involved developing, conducting and evaluating a pilot EcoDriver training program aimed at reducing fuel consumption and emissions, specifically CO2 emissions, produced by heavy commercial vehicles involved in the cement industry. This collaborative research project was undertaken by Monash University in conjunction with the Cement Industry Federation in Australia, Sustainability Victoria, Blue Circle Southern Cement, and Strategix Training. The field trail produced encouraging results which point to the potential to reduce fuel consumption and emissions through targeted driver training.

ECODRIVE AS A ROAD SAFETY TOOL FOR AUSTRALIAN CONDITIONS

EcoDrive initiatives encourage drivers to modify their driving style to conserve fuel. Overseas results suggest a reduction in crashes can also be achieved. This project is critically examining past evaluations in order to develop recommendations for an EcoDrive model suitable for Australia. The study was undertaken for the Federal Office of Road Safety.

A NEW METHODOLOGY FOR OPTIMIZING TRANSIT PRIORITY AT THE NETWORK LEVEL

This research proposes a new methodology for optimizing transit road space priority at the network level. Transit vehicles are efficient at carrying large numbers of passengers within congested road space. This aids justification of transit priority. Almost all studies which have investigated transit priority lanes focus on a link or an arterial road basis and no study has investigated road space allocation for priority from a network perspective. The aim of the proposed approach is to find the optimum combination of exclusive lanes in an existing operational transport network. Mode share is assumed variable and an assignment is performed for both private and transit traffic. The problem is formulated using bi-level programming which minimizes the total travel time.

MODELLING LANE CHANGING OF HEAVY COMMERCIAL VEHICLES

This study will investigate the lane changing characteristics of heavy vehicles during congested traffic conditions. Moreover, in this study a lane changing model for heavy vehicles will be developed which captures the lane changing decisions in both operational and tactical levels.

PEDESTRIAN CROWD DYNAMIC UNDER PANIC CONDITIONS

The objectives of the study are: 1) to develop a model that is flexible to address indoor and outdoor panic scenarios by incorporating socio-psychological and engineering components which have not been adequately addressed by existing models, 2) to explore the viability of using alternative empirical systems in validating the models prediction, 3) to develop “confirming general principles” based on the empirical system with regard to crowd movement in both indoor and outdoor conditions that could have significant implications for the future.
Dr Majid Sarvi and Ali Zavabeti

DEVELOPMENT OF AN INSTRUMENTED VEHICLE UTILIZING LASER BASED SENSING TECHNOLOGY

In this study a sophisticated instrumented vehicle is being developed utilizing laser based sensing technology. The key enabling technology required is an automatic and accurate system capable of capturing real time traffic and driver data. Laser sensors and a model known as ‘SLAMMOT’ are being used for automating the sensing and interpretation of sensing data, respectively. The laser sensors handle the task of sensing the environment and the SLAMMOT model is employed to interpret the data obtained by the laser sensors (ie. “sense and make sense” tasks). While the operation of the laser sensors is based on the emission of a laser beam, recovering the reflected beam and measuring distances to significant points in the environment draws on the SLAMMOT model which is able to detect and model both static and moving objects in unknown environments. SLAMMOT involves both simultaneous localisation and mapping in dynamic environments and detection and tracking of these dynamic entities.

Amir Sobhani, Professor Bill Young and J. Archer

MODELLING THE SAFETY OF INTERSECTIONS

This study focuses on the investigation of the application of simulation models to the quantification of safety at intersections.

Dr Yibing Wang

AN INNOVATIVE APPROACH TO AUTOMATIC FREEWAY TRAFFIC INCIDENT DETECTION

Roadway traffic incidents (e.g. accidents and stalled vehicles) often occur unexpectedly and are actually a major cause of roadway congestion and mobility loss. Traffic incidents annually account for a very large percentage of the total travel delays on roadways around the world. If abnormal conditions resulting from incidents cannot be detected and fixed up in time, traffic situations often keep worsening and even cause secondary traffic accidents. Therefore, automatic incident detection is crucially important for advanced road traffic management and control. This project aims at an innovative approach to automatic freeway traffic incident detection and intends to contribute to the corresponding states of the art and practice.

REAL-TIME FREEWAY TRAFFIC STATE ESTIMATION UNDER TRAFFIC FLOW INHOMOGENEITY

Real-time freeway traffic state estimation is a fundamental task for freeway traffic surveillance and control. Long freeway stretches generally involve traffic flow inhomogeneity due to the existence of curvature, slope, lane drop, tunnels, or applied speed limits. The inhomogeneity adds considerably to the complexity of traffic flow dynamics. So far, only traffic state estimation under traffic flow homogeneity has been reported in the literature. This project intends to develop an extended-Kalman-filter-based approach to traffic state estimation under traffic flow inhomogeneity. The project also aims to evaluate the feasibility of some relevant detector configurations for supporting this traffic state estimation task.

Dr Yibing Wang, Associate Professor Geoff Rose and Professor Bill Young

LOCAL RAMP METERING IN THE PRESENCE OF RANDOM BOTTOLENECKS DOWNSTREAM OF A METERED ON-RAMP

Ramp metering is an important control measure for regulating freeway inflow in order to reduce merging congestion, maintain efficient freeway operation, and increase traffic safety. Following a previous work for a European project, this project focuses on developing and testing local ramp metering controllers in the presence of distant random bottlenecks. This special type of ramp metering was not studied before but has significance in research and applications. The involved random bottlenecks create a challenge to traditional ramp metering controller design. Recently, some random bottlenecks were observed by the CIs and their VicRoads collaborators using measurements from the Monash Freeway.
A JOINT STATE AND PARAMETER ESTIMATION MECHANISM FOR REAL-TIME FREEWAY TRAFFIC SURVEILLANCE AND AN OBSERVABILITY PROBLEM OF TRAFFIC SENSOR NETWORKS

A joint state and parameter estimation (JSPE) mechanism is proposed for tackling three traffic surveillance tasks: non-homogeneous traffic state estimation, automatic traffic incident detection, and automatic sensor fault detection. The project aims to develop a unified JSPE-based method for solving the tasks under a traffic state estimation framework based on macroscopic traffic flow modelling and extended Kalman filtering. The project also studies the observability of traffic sensor networks to explore appropriate deployment of traffic sensors in any road network, whereby the network use and performance are observable and hence traffic state estimation and further surveillance tasks can be feasibly performed.

Professor Bill Young

ACCURACY AND TRAFFIC SIMULATION MODELING

This project looks at the reliability of traffic simulation models. In particular it investigates the assumptions made in the model and their impact on the output. Particular attention will be paid to assumptions about drivers risk taking.

ENVIRONMENTAL IMPACTS OF TRANSPORT

This project explores the relationship between land use, transport and the environment. Long term changes in transport and their impact on land use and the environment are investigated.

Professor Bill Young and P. Bonsall

ROAD PRICING AND PARKING PRICING

This study focuses on the relationship between parking pricing and road user pricing in order to determine the appropriate mix of charges.

Professor Bill Young and I. Kabir

LANDUSE AND TRANSPORT INTERACTION IN MELBOURNE

This project develops and model of the land use and transport interaction in Melbourne. It uses the TRANUS model and data collected on population and travel in Melbourne over the period 1976 to 2001.

Professor Bill Young, F. Spirodonis and J. Archer

INTEGRATION OF DATA MODELS AND ANALYSIS TECHNIQUES.

This project looks at the hierarchy of data and modeling systems and investigates the integration of these aspects into the development of an integrated transport information system.

PhD projects

Supervised by Professor Graham Currie:

S. Coxon, K. Burns and A. De Bono

A DESIGN RESPONSE TO URBAN PASSENGER TRAIN INGRESS AND EGRESS OCCLUSION AND ITS RELATIONSHIP TO PUBLIC SPACE, PASSENGER COMFORT AND UTILITY

This PhD project is focussing on the important dwell time delay problems being faced by overloaded Australian urban railways. It is a design research project where a review of the configuration of rail vehicle and platform configurations to be assessed as part of tackling the problems identified.
R. Napper, K. Burns and A. De Bono

HOW CAN ROUTE BUS DESIGN MORE CLOSELY MEET THE NEEDS OF MANUFACTURERS, TRANSPORT OPERATORS AND THE PUBLIC TRANSPORT SYSTEM?

This PhD project is reviewing bus design issues associated with operations and service quality. It is a joint project of Monash University and the bus design manufacturers, Volgren. To date the project has focussed on the design and manufacturing process, the design of bus interiors for the driver cab area and is moving on to examine bus interior issues and passenger preference research.

Supervised by Professor Graham Currie and Dr Majid Sarvi

Md. Aftabuzzaman

DEVELOPING PUBLIC TRANSPORT MEASURES FOR ROAD TRAFFIC CONGESTION RELIEF

This PhD project is examining the case for developing a measure which represents the congestion relief potential of urban public transport systems. The project includes transport modelling of the impacts of removing public transport systems on traffic congestion and a review of international evidence on congestion and transit impacts from city databases.

Supervised by Professor Bill Young:

Mark Karpovich

TRANSFERRED TECHNOLOGY-BASED TRANSPORT, INFRASTRUCTURE AND ENGINEERING PROJECTS FINANCED AND UNDERTAKEN IN CHINA AND ASIA

High economic growth rates of the economies in Asia and China have meant increased transport and infrastructure construction project activity in the region. This program of research aims to investigate and analyse the influence of systems of managing and financing large public transport and infrastructure projects on their outcome.

Richard Yeo and K. Kodikara

THE EFFECTS OF LARGE ROAD FREIGHT VEHICLES ON THE PERFORMANCE OF TYPICAL AUSTRALIAN ROAD PAVEMENTS: THE PERFORMANCE OF CEMENTED PAVEMENT MATERIALS UNDER HEAVY AXLE LOADING

This project involves a study of road capacity to carry increasing axle loads on pavement structures incorporating cemented materials. Full scale accelerated load testing of two purpose built test pavements will be undertaken to assess the effects of axle load on pavement life. Laboratory test protocols for assessment of the elastic properties and fatigue properties of cemented materials will be investigated and the results of the full scale and laboratory tests will be compared with current theory.

Supervised by Professor Bill Young and Professor Graham Currie:

Mike Shackleton

ASSESSING THE IMPACT AND QUALITY OF TRANSPORTATION RESEARCH

Michael Shackleton is a principal research engineer with ARRB Transport Research Ltd, and commenced his PhD in April 2007. This study investigates that currently, economic benefits of transportation research are the primary and practically sole means of assessing transportation research quality. There is reason to believe that this undervalues the research in terms of the impact it has or potentially can have on social endeavours. Research quality has moved beyond being a measure of the academic or intellectual impact of research. While the extent to which outputs from research are used is still a measure of other researchers’ perceptions of quality, factors such as rigour, relevance of the topic and innovation are increasingly important factors in determining ‘research quality’ and need to be considered.
Master's projects

Supervised by Professor Bill Young:

Michael Moffatt

THE INFLUENCE OF MULTIPLE AXLE LOADS ON PAVEMENT PERFORMANCE
Michael Moffat is a principal research engineer with ARRB Transport Research Ltd, and commenced his MEngSci in April 2007. This study will focus on the developing a better means of assessing the relative damaging effects of axle groups. The recent trend towards more innovative heavy vehicle design makes this issue more relevant than ever.

Undergraduate projects

Supervised by Associate Professor Geoff Rose:

L. Furness

RELIABILITY MAPS FOR MELBOURNE FREEWAYS
This project examined travel time variability and unreliability across Melbourne’s freeway network. Suitable metrics were used to explore variability and unreliability for five metropolitan freeways in Melbourne (the Eastern, Monash, Princes, Western Ring Road and Westgate Freeways) using data from 2005. In this research, reliability is defined as the level of consistency in a transport service, while variability is the amount of inconsistency in operating conditions. An extensive literature review informed the research and also identified metrics that could be used to effectively analyse reliability and variability of freeway operations. Those metrics included the misery index, buffer time and the percentage variation. For the purposes of exploring variability and unreliability, skew, variance and unreliability indexes based on percentile travel times, were chosen. Based on analysis of the metrics, the Monash Freeway emerged as the most unreliable of the five freeways. It has the longest periods of congestion in both directions along with the highest skew, variance and unreliability index of all the freeways.

C. Greenland

TRAVEL BEHAVIOUR OF MONASH UNIVERSITY CARPOOL USERS
This study drew on a variety of data sources and surveys to provide enhanced understanding the travel behaviour of individuals (students and staff) who are registered for the Monash University Carpooling system. A web-based survey of individuals registered for the carpool service and observational surveys of carpool usage provided a comprehensive data base for the study. The usage of the carpool system increased in 2008 with the increase in campus parking fees playing a role in the change in travel behaviour. Observational surveys revealed an increase in illegal use of the designated carpool parking spaces (up from 6 % in 2007 to 21 % in 2008). The online carpool matching service was found to be unsuccessful in forming carpools despite user awareness of the service. Carpools were found to consist predominantly of two people, who share the driving and live in the same area. Drawing on the survey responses a number of opportunities to enhance the performance of the carpool scheme were identified including re-location of some of the designated carpool parking areas, upgrading the online carpool matching service and improving the management of the carpool parking permit system.

G. Kazantzidis

USE OF REAL TIME TRAFFIC DATE FOR MEASURING FREEWAY PERFORMANCE
Road authorities in Australia conduct routine travel time surveys to measure the performance over time of the road network. This study made use of data from inductive loops installed on freeways to provide a richer source of data for performance analysis. The study results suggest that the differences in performance over time as reported by the road authorities are possibly the result of sampling error in the data rather than because of substantial changes in performance. More systematic use of real time data provides a more rigorous data base for establishing reliable performance measures.
J. Turnbull

EVALUATION OF THE NORTH ROAD BICYCLE LANE
This study collected observational data on the use of a new off-road bicycle path constructed near the Monash Clayton campus in the median of a 6 lane arterial road. Standard procedures for assessing the level of service for bicycle facilities were found to be lacking when applied to this facility. While there was evidence that less experienced riders used the new off-road facility, most riders continued to ride on the road and made use of a dedicated kerb-side bus lane. The kerb-side bus lane was found to expose cyclists to fewer conflict points with motor vehicle traffic than the off-road alternative.

Supervised by Dr Majid Sarvi:

N. Samardzic and A. Bucca

PHYSIOLOGICAL CHARACTERISTICS OF DRIVERS
Road traffic congestion is increasing in a rapid pace and it is very important to understand drivers’ stress level while driving at different road sections. The main aim of this study is to conduct a thorough literature review of previous studies in relation with the driving stress.

Ph. Wong and B. Tran

DESIGN OF TRANSIT STOP
The main aim of this study is to look at the methods which are used to decide the location of transit stops. This study includes a thorough literature review of the methods used to identify the location of transit stops and summarize the finding.

P. Ko

DRIVER BEHAVIOUR AT INTERSECTIONS
The main aim of this study is to look at the driver behaviour and its relation to the geometry of unsignalised intersections.
Recent research achievements

ITLS-Sydney

Matthew Beck
• CAITR-2008 Rodney Vaughan Memorial Prize, awarded his paper Variable user charging: Experiences and extensions in a world of carbon emissions

Demi Chung
• AFAANZ/IAAER Conference 2008 (Sydney, Australia, 6-8 July 2008) Best Paper Award for the "public sector not-for-profit" stream for her paper Public Private Partnerships in Transport Infrastructure: Past, Present and Beyond.
• Australian Transport Research Forum David Willis Memorial Prize for her paper "Private Provision of Transport Infrastructure - Unveiling the Inconvenient Truth in New South Wales".

Demi Chung, Professor David Hensher and Dr John Rose
• Identifying risk perception of various stakeholder groups to a public private partnership tollroad contract. Accounting and Finance Association of Australia and New Zealand Research Grant scheme [2008: $7,500]

Associate Professor Stephen Greaves
• Assessment of policies for reducing externalities of road-based freight in Sydney. NSW Department of Environment and Climate Change [2008: $30,000]
• A pilot survey using GPS technology to validate travel data captured by traditional diary-based methods. State Government of Victoria [2008: $75,000]
• Modelling the environmental impacts of commercial vehicle tours and freight management policies in urban areas. Australian Research Council Discovery Project [2008: $62,568; 2009: $66,774; 2010: $71,112]

Professor David Hensher
• Secured Chair in Public Transport in ITLS, funded by NSW Government [2008-2012: $1m]
• Dean’s Citation for Teaching for unit of study – Transport and Logistics Economics [2008]

Dr Ada Suk-Fung Ng
• A two-stage scheduling model for the in-flight catering service (with Dr Daniel Oron). Faculty of Economics and Business Research Grant [2009: $12,000]
• A zoning problem with response-time. Faculty of Economics and Business Research Grant [2009: $8,000]

Dr John Rose
• Community preferences for organ donation and allocation in Australia. Australian Research Council Grant (with Dr K. Howard, A/Prof S. Jan, Dr A. Cass, A/Prof S.J. Chadban, Prof R.D. Allen) [2009-11: $240,000]
• Policy implications based on customer preferences for end of life product recycling: A stated preference application for reverse logistics. Faculty of Economics and Business Grant [2008: $8,000]

Dr Peter Stopher
• Ohio GPS Household Travel Survey, Ohio Department of Transportation [2008: $30,000; 2009: $200,850; 2010: $12,800; 2011: $16,800]
ITS Monash

Professor Graham Currie

- Investigating Transport Disadvantage, Social Exclusion and Well Being in Metropolitan, Regional and Rural Victoria, Australian Research Council Industry Linkage Program – Expansion of Funding from the Interface Councils of Victoria. Total funding now $1.6M including in-kind to 2010.
- Travel Demand Research, London Olympic Games Delivery Authority (2008: $8,000)
- Bus Rapid Transit Review- US Federal Transit Authority (2008: $15,000)
- Regional Transport Scoping Study – Desert Knowledge CRC (in association with the Transport Systems Centre, Adelaide) (2008: $10,000)
- Metlink Market Futures R&D Study (2007: $20,000, 2008: $48,000)
- Metlink Monash PhD Research Scholarship (2008: $28,000, 2009: $14,000)
- Volgren Monash PhD Research Scholarship (2008: $25,000, 2009: $25,000)
- Connex Monash Postgraduate Research Scholarship (2008: $25,000, 2009: $25,000)

Professor Bill Young

- Intersection design for safety (with Dr B Corben, N Candappa, and Dr M Sarvi). Vic Roads. [2008/10 - $2,000,000]

Associate Professor Geoff Rose

- Operational Impacts of Alternative Private Passenger Vehicles (in conjunction with M Richardson and Dr J Archer) [2008/09 - $91,500]
- Design and Evaluation of an EcoDriver Training Program in the Victorian Cement Industry (in conjunction with Dr M Symmons) [2007/08 - $57,900]

Dr Yibing Wang

- An innovative approach to automatic freeway traffic incident detection, Engineering New Staff Member Research Grant. [$20,000]
- Local ramp metering in the presence of random bottlenecks downstream of a metered on-ramp, Engineering Small Research Grant. [$15,500]
- Intelligent design of ramp metering controllers in the case of multiple distant downstream bottlenecks, Vicroad R&D project [$15,000]
PUBLICATIONS

Staff disseminate research and policy work through a wide range of publications from books, journal articles, conference proceedings, working papers and project reports.

Handbooks in Transport

David Hensher was appointed in 1999 as volume and series editor for a series of Handbooks in Transport with Ken Button (George Mason University) by Elsevier Science Ltd. Six handbooks have been published under the Pergamon and Elsevier imprint over a period of five years. This now completes the series, although revised editions are being planned.

Handbooks in Transport 6-Volume Set (2007)

Handbook of Transport Modelling 1.

Handbook of Logistics and Supply Chain Management 2.

Handbook of Transport Systems and Traffic Control 3.


Handbook of Transport Geography and Spatial Systems 5.


Books


Book chapters


**Special Issues of Journals**


Hensher, D.A. (2008) Guest Editor of a Special Issue of Transportation on Global Public Transport Reform.


**Journal Articles**


Golotta, K. and Hensher, D.A. (2008) ‘Why is the Brisbane bus rapid transit system a success, and what lessons can be learnt from it?’ Road and Transport Research, 17 (4), December. 3-16.


Stanley, J.K. and Hensher, D.A. ‘Delivering trusting partnerships for route bus services: A Melbourne case study’ Transportation Research 42A(10), 1295-1301. Special Issue on Institutional Reform in Land Passenger Transport


Conference papers


| ITLS-WP-08-01 | Determining trip information using GPS data | Eoin Clifford, Jun Zhang and Peter Stopher |
| ITLS-WP-08-02 | Assessing systematic sources of variation in public transport elasticities: Some comparative warnings | David A Hensher |
| ITLS-WP-08-03 | Managing congestion: Are we willing to pay the price? | Peter Stopher and Camden FitzGerald |
| ITLS-WP-08-04 | Revealing the extent of process heterogeneity in choice analysis: An empirical assessment | Sean Puckett and David Hensher |
| ITLS-WP-08-05 | Bus rapid transit systems: A comparative assessment | David Hensher and Thomas Golob |
| ITLS-WP-08-06 | Deducing mode and purpose from GPS data | Peter Stopher, Eoin Clifford, Jun Zhang and Camden FitzGerald |
| ITLS-WP-08-07 | Emerging business models | David Walters |
| ITLS-WP-08-08 | The value chain approach imposes increased expectations on logistics management | David Walters |
| ITLS-WP-08-09 | Should reference alternatives in pivot design SC surveys be treated differently? | Stephane Hess and John Rose |
| ITLS-WP-08-10 | An annual time use model for vacation travel | Jeffrey LaMondia, Chandra R. Bhat and David A Hensher |
| ITLS-WP-08-11 | Public private partnerships: A procurement device to manage public sector debt | Demi Chung |
| ITLS-WP-08-12 | Efficient stated choice experiments for estimating nested logit models | Michiel CJ Bliemer, John M Rose, and David A Hensher |
| ITLS-WP-08-13 | Construction of experimental designs for mixed logit models allowing for correlation across choice observations | Michiel CJ Bliemer and John M Rose |
| ITLS-WP-08-14 | Regional airports and opportunities for low cost carriers in Australia | Andrew Collins, David Hensher and Zheng Li |
| ITLS-WP-08-15 | Commercial vehicle tour data collection using passive GPS technology: Issues and potential applications | Stephen P Greaves and Miguel A Figliozzi |
| ITLS-WP-08-16 | Ordered choices and heterogeneity in attribute processing | William H Greene and David A Hensher |
| ITLS-WP-08-17 | The demand chain and response management: New directions for operations management? | David Walters and Mark Rainbird |
| ITLS-WP-08-18 | Cash flow management and strategic responses that create corporate value: Some observations | David Walters |
| ITLS-WP-08-19 | Response management: Strategic and operational considerations | David Walters |
| ITLS-WP-08-20 | Aggregation of common-metric attributes in preference revelation in choice experiments and implications for willingness to pay | David Layton and David A. Hensher |
| ITLS-WP-08-21 | What if petrol increased to $10 per litre? Implications on travel behaviour and public transport demand | David A. Hensher and John K. Stanley |
| ITLS-WP-08-22 | The six sigma approach in performance management to reduce injury rate at work | Jo Rhodes, Peter Lok, Abe Diamond and Nitin Bhatia |
PROFESSIONAL ACTIVITIES

ITLS-Sydney

Media contributions

Professor David Hensher wrote an article in the ABC Magazine Opinion Piece: Food for Thought 'It is all about dollars – there is a will but a difficult way' (January 2008)

Professor David Hensher provided advice to Jaime Goh, Senior Executive, Media Relations, Corporate Communications, Land Transport Authority on the topic of 'how centralised bus route planning is done in Sydney' for an article on 'how centralised bus route planning is done in other countries' (16 January 2008)

Professor David Hensher was interviewed by Mr Goh Chin Lian, Correspondent, The Straits Times, Singapore in relation to the effectiveness of competitive tendering/franchising for bus services in these countries -- for instance, what worked and what hasn't, its impact on passengers (in fares, routes, waiting times), any pitfalls to look out for?" (24 January 2008)

Dr John Rose was interviewed for ABC 2 Stateline in relation to 'congestion charging'

Professor David Hensher wrote an article in the ABC Magazine Opinion Piece: Food for Thought 'Why are bus operators not taking advantage of alliances to share costs and grow business?' (February 2008)

David Hensher was interviewed by John Bruce (AFR) in relation to 'Cities, Transport and the Environment' for the 20/20 Rudd Summit round table discussions (4 February 2008)

Professor David Hensher’s article in the ABC Magazine Opinion Pieces: Food for Thought 'Frequency and Connectivity – Key drivers of reform in urban public transport provision' (March 2008)

Professor David Hensher was interviewed by Ian Jerrard (Open Road publication) in relation to 'Traffic congestion in Sydney' (29 May 2008)

Professor Peter Stopher and Camden Fitzgerald were quoted by Linton Besser, Transport Reporter for the SMH article 'Stuck in traffic? Get used to it, Sydney' (21 June 2008)

Professor David Hensher was interviewed by Jane Gibson, Urban Affairs reporter for the SMH in relation to 'Congestion tax for drivers' (23 June 2008)

Professor David Hensher was interviewed by Carl Schubert, Radio 2SM in relation to 'Variable user charging for road users' (24 June 2008)

Professor David Hensher was interviewed for 2GB News in relation to 'Variable user charging for road users' (24 June 2008)

Professor David Hensher was interviewed for ABC 7.02 radio in relation to 'Variable user charging for road users' (24 June 2008)

Professor David Hensher was interviewed live by Adam Spencer, Radio 7.02 morning program on the topic of 'Sydney's transport problems' (26 June 2008)

Professor David Hensher was interviewed live by John Hill, Channel 10 to discuss 'Sydney's Traffic' (26 June 2008)

Professor David Hensher was interviewed by Linton Besser, transport reporter, SMH in relation to 'Sydney's traffic'

Professor Peter Stopher was interviewed for Sydney Morning Herald article ‘Stuck in traffic? Get used to it, Sydney’ by Linton Besser, June 2008

Professor David Hensher was quoted in the NRMA’s ‘Open Road’ magazine article ‘Fix the Jam’. The article can be found at: (http://www.openroad.com.au/fix_the_jam.asp)

Professor David Hensher was interviewed by Simon Lauder, ABC Radio Current Affairs on ‘the suggestion of a congestion tax for Melbourne’ (25 August 2008)

Professor David Hensher and Zheng Li’s article “Bus system heading for a crash” appeared on pg 1 in the SMH (15 September 2008)

Professor David Hensher was quoted in The Age newspaper for the article ‘trading in ConnectEast shares frozen as toll road fails to fire’ (21 November 2008)
Professor David Hensher was interviewed on ABC Radio Melbourne on ‘tollroad forecast’ (based on the earlier article in The Age newspaper (22 November 2008)

Invited presentations, seminars, workshops and industry engagements

Professor David Hensher met with Carl Scully and Demi Chung, ITLS doctoral program, for ‘in-depth interviews on public/private partnerships for tollroad projects’ (11 February 2008)

Professor David Hensher met with Stepen Allen, CEO, Macquarie Infrastructure Group and Demi Chung, ITLS doctoral program for ‘in-depth interviews on public/private partnerships for tollroad projects’ (13 February 2008)

Professor David Hensher launches ITLS (Africa) and established a new partnership between ITLS (Sydney) and ITLS (Africa) opening an office in Johannesburg. The MoU was signed by the Pro Vice-Chancellor of University of Johannesburg (UJ), Professor Derek van der Merwe and the Deputy Vice Chancellor (International) of the University of Sydney, Professor John Hearn and witnessed by Professor David Hensher (17-25 February 2008)

Dr John Rose met with Tony Harris, former NSW Auditor General, and Demi Chung, ITLS doctoral program, for ‘in-depth interviews on public/private partnerships for tollroad projects’ (25 February 2008)

Professor David Hensher attends the National Urban Transport Modelling workshop convened by the Urban Congestion Management Working Group (UCMWG) and gave the keynote address. The purpose of the workshop was to bring together urban transport modellers (public and private sectors), decision-makers, research bodies and transport/planning agencies to examine how to maximise the use of modelling in improving urban congestion interventions, Canberra (5 March 2008)

Professor David Hensher met with Paul Forward, Senior Partner, Evans and Peck, and Demi Chung (ITLS doctoral program) for “in-depth interviews on public/private partnerships for tollroad projects” (6 March 2008)

Professor David Hensher met with Tim Arbuckle (SAHA) to discuss ‘bus operator benchmarks’ (6 March 2008)

Professor David Hensher met with the Ministry of Transport to discuss ‘bus operator benchmarks’ (7 March 2008)

Professor David Hensher met with Tom Plant and John Hughes, Macquarie Bank to discuss PhD Scholarships’ (11 March 2008)

Professor David Hensher met with the Ministry of Transport to discuss ‘bus operator benchmarks’ (17 March 2008)

Professor David Hensher and staff attends the annual ITLS Awards Evening, the Forum Restaurant, Darlington Centre (29 March 2008)

Professor David Hensher and Zheng Li met with Tim Raymond to discuss TRESiS matters’ (31 March 2008)

Professor David Hensher met with Martin Tailor, THIESS to discuss ‘tollroad project and value of time savings’ (31 March 2008)

Professor David Hensher met with Darryl Mellish, Executive Director, BCA (NSW) to discuss ‘progress in CTM and reform in the bus and coach sector’ (2 April 2008)

Professor Hessher met with Raymond Lim (Minister of Transport (LTA)) on ‘major reforms in the transport sector in Singapore’. (6 April 2008)

Professor David Hensher met with Gordon Hines, Private Consultant, and Dr Alan Dormer, Constraints Technologies, to discuss ‘capacity constraints in the city rail network’ (7 April 2008)

Professor David Hensher met with Jarrett Walker, McCormick, Rankin Cagney Consultants, to discuss ‘public transport investment’ (7 April 2008)

Professor David Hensher met with Tim Arbuckle, SAHA, in the city to discuss ‘benchmarking methods’ (8 April 2008)

Professor David Hensher attends the BCA Regional Conference, Coffs Harbour and gives the annual talk (17-20 April 2008)

Professor David Hensher speaks at the Statistical Society of Australia (NSW Inc) on ‘How do respondents process stated choice experiments? – Attribute consideration under varying information load’, Darlington Centre, University of Sydney (30 April 2008)
Professor David Hensher met with high level delegates from the Land Transport Authority (LTA) Singapore for an afternoon of discussions on ‘developments in public transport reform’ (April 2008)

Mr Michael Lim, Chair of Board of the Land Transport Authority (LTA), Singapore (centre); Dr Alastair Stone, Chair ITLS Board of Advice (left of Mr Michael Lim); Professor David Hensher, Director, ITLS (right of Mr Michael Lim) and Mr AhMee Yam, CEO of the Land Transport Authority (LTA), Singapore (far left).

Professor David Hensher and Dr John Rose met with Phillip Marler, Learning and Development Manager and CEO, Bus Training Australia, ComfortDelGroCabcharge Pty Ltd to discuss ‘bus and coach accreditation and professional development courses’ (13 May 2008)

Professor David Hensher attends a dinner with Minister Raymond Lim (Minister of Transport (LTA)), Yam Ah Mee (Director, Land Transport Division), Phua Hooi Boon (Minister of Transport), Albert Chua (High Commissioner), Cheong Ming Foong (Deputy High Commissioner) and Joe Poon (ITLS PhD student) (20 May 2008)

Professor David Hensher gives a presentation on ‘performance benchmarks’ at the Bus and Coach Association (NSW) and the Ministry of Transport’s workshop on Performance Based Contracts (11 May 2008)

Professor David Hensher speaks at the BTRE colloquium in Canberra on ‘Accessability and mobility in Cities’ followed by a cocktail reception Canberra (17-29 June 2008)

Professor John Stanley gives keynote address at the Bus and Coach Association of New Zealand Annual Conference, on Climate Change Implications for Land Transport, July 2008

Professor Peter Stopher gives seminars on Australian Progress in GPS Measurement of Urban Travel Behaviour at: the Centre for Transport Studies, University of the West of England, Bristol, UK; GRIMES, University of Laval, Quebec City, Quebec, Canada; Department of Civil and Environmental Engineering, Louisiana State University, Baton Rouge, USA; Department of Civil Engineering, University of Cape Town, Rondebosch, South Africa; Institute for Transport Studies, Universitat fur Bodenkultur, Vienna, Austria – June to July 2008.

Professor David Hensher attends the Engineers Australia Transport Panel's 'Road pricing and road funding' as Speaker (1 July 2008)

Professor David Hensher attends the ARF policy workshop ‘to set up chapters on congestion, capacity and sustainability’, Sydney (25 July 2008)

Professor David Hensher met with Malcolm McGregor, Manager Airspace Change (CASA) to discuss ‘possible solutions for airspace decision making’ (17 July 2008)

Professor David Hensher met with Patrick Neza and Philip Mitchell, from Taverners to discuss ‘progress on the auto project online survey’ (29 July 2008)

Professor David Hensher gives Eminent Speaker presentation on Road Pricing and Road Funding for Engineers Australia, Melbourne, August 2008

Professor David Hensher met with Philip Halton, Assistant Director (RTA) to discuss ‘national transport policy’ (6 August 2008)
Professor David Hensher attends at the Victorian Transport Branch of Engineers Australia and speaks on the Eminent Speaker Tour: National Committee on Transport, Melbourne (21 August 2008).

Professor David Hensher met with Hugh Worrall, Paul Falzon, Samantha Edmonds, Western Sydney Community Forum to discuss ‘A bus plan for Sydney’ (25 August 2008).

Professor David Hensher attends the ITLS Africa’s inaugural Board Meeting accompanied by Dr. John Rose. Johannesburg, South Africa (28 August 2008).

Professor David Hensher and Dr John Rose deliver course on Discrete Choice Analysis at the University of Johannesburg, South Africa, September 2008.

Professor David Hensher met with Darryl Mellish (BCA) to discuss ‘update on benchmarking of metro and non-metro operations and the role of chair in public transport’ (19 September 2008).

Professor David Hensher was invited attends the European Transport Conference (ETC) and gave the leading transport researchers keynote presentation (previous presenters were Moshe Ben-Akiva and Ken Small), Netherlands (2-21 October 2008).

Professor David Hensher gives plenary address on Hypothetical Bias, Stated Choice Studies and Willingness to Pay to European Transport Conference Noordwijkerhout, The Netherlands, October 2008.

Professor Peter Stopher gave seminars on New Methods in Transport Surveys and Recent Developments in Travel Demand Models at the Department of Logistics, University of Stellenbosch, Stellenbosch, South Africa – October 2008.

Professor Peter Stopher gave a seminar on Using Personal GPS Devices to Measure Travel Behaviour at the Department of Civil and Environmental Engineering, Louisiana State University, Baton Rouge, Louisiana, USA – October 2008.

Professor David Hensher chairs two sessions, gives a plenary address and discusses ‘How do respondents process stated choice experiments? – Attribute consideration under varying information load’ at the Tinbergen Institute, Amsterdam at the European Transport Conference, Amsterdam (9-13 October 2008).

Professor David Hensher attends the BIC National Conference at the Crowne Plaza Royal Pines Golf Resort, Queensland (26-29 October 2008).

Professor David Hensher attends the LTA’s World Urban Transport Leaders Summit and IAP meeting. The opening address was given by Mr Raymond Lim, Minister for Transport and Second Minister for Foreign Affairs, Singapore (1-7 November 2008).

Professor David Hensher gives Eminent Speaker presentation for Engineers Australia Brisbane (November 2008).

Professor David Hensher attends the second meeting of the Singapore Land Transport Authority International Advisory Panel (chaired by the Minister of Transport).

Professor David Hensher speaks at the Engineers Australia Eminent Speaker Tour: National Committee on Transport (sponsored by THIESS), Brisbane (27 November 2008).


Professor David Hensher speaks on the Future direction of public transport at the New South Wales Transport Infrastructure Summit, Sydney (9 December 2008).

Associate Professor Stephen Greaves gives invited paper on A Strategic-Level Approach for Evaluating Air Quality Mitigation Policies for Urban Road Freight Transport in Sydney the Green Transport and Logistics Conference organised by Lloyd’s List DCN, Melbourne (December 2008).
Editorial Positions

Professor David Hensher
Series and Volume Editor: (with Professor Kenneth Button) Elsevier Handbooks in Transport
Area Editor: Transport Reviews, Taylor and Francis Ltd., London
Guest Editor: Special Issue of Transportation Research B on Behavioural Insights into Freight Distribution (2006-07); Special Issue of Transportation Research A on Public Transport Reform (2007-08); Special Issue of Transportation on Global Public Transport Reform (2007-08); and Journal of Transport Geography on Planning and Patronage (2007-08)
Member: USA National Academy of Sciences, Transportation Research Board Committee on Traveller Behaviour and Values; and USA National Academy of Sciences, Transportation Research Board Committee on Travel Forecasting

Associate Professor Peter Lok
Editor: Journal of Global Business and Technology

Professor Corinne Mulley
Editorial Board: Journal of Transport History

Dr John Rose
Editor in Chief: Journal of Choice Modelling

Professor Peter Stopher
Editorial Board: Transport Reviews; Transport Policy; Transportation Letters: The International Journal of Transportation Research; Journal of Transportation and Statistics; and Journal of Transportation and Land Use

Professor David Walters
Guest Editor: International Journal of Physical Distribution and Logistics Management, an Emerald journal

Professional Committees and Associations

Associate Professor Stephen Greaves
Member: Committees on New Technologies in Travel Surveys and Air Quality, Transportation Research Board, National Academies of Science and Engineering, USA; Institute of Transportation Engineers, USA; and Sustainable Management of Organisations Group (SMOG), Faculty of Economics and Business, the University of Sydney.
Professor David Hensher
Fellow: Academy of Social Sciences in Australia; Australian Institute of Traffic Planning and Management; and Chartered Institute of Transport, UK.

Founding Member: Australasian Transport Research Forum.

Member: Singapore's Land Transport Agency's International Advisory Panel; Advisory Committee of Transport Research Centre, Melbourne University; NSW Department of Transport Technical Advisory Committee; Standards Committee on Logistics, Australia; Board of Advice, ITLS-Africa, University of Johannesburg; International Association of Travel Behaviour (President 1993-7); World Conference of Transport Research Society (Scientific Chair 1995, Vice-Chair, 1996-2000); American Planning Association; American Transportation Research Forum; Australian Institution of Engineers (Engineers Australia); Economic Society of Australia and New Zealand; and Transportation Research Board, USA.

Associate Professor Peter Lok
Member: Association of Computing Machinery (ACM) and ACM Special Interest Group on Computer Science Education (SIGCSE)

Professor Corinne Mulley
Fellow: Chartered Institute of Logistics and Transport, UK

Member: Commission for Integrated Transport (CfIT) Academic Framework; Regional Science Association; International Association of Transport, Technology and Mobility (T2M); Transport Economists Group; and World Conference on Transport Research.

Dr Ada Suk-Fung Ng
Member: National Committee of Transport, Australia and Sydney Transport Panel; Eastern Asia Society of Transport Studies; and Institute for Operations Research and Management Sciences.

Dr John Rose
Member: Committee on Travel Survey Methods, Transportation Research Board, National Academies of Science and Engineering, USA

Professor Peter Stopher
Fellow: Institute of Engineers Australia, Civil College, Australia;

Emeritus Member: Committee on Survey Methods, Transportation Research Board, National Academy of Science and Engineering, USA

Scientific Advisory Panel Member: African Centre of Excellence for Studies in Public and Non-Motorised Transport (ACET)

Panel Member: Project TCRP Synthesis Topic SH-07, Transit Cooperative Research Program, National Academies of Science and Engineering, USA

Member: American Society of Civil Engineers, USA; American Statistical Association, USA; Committee on Traveeller Behaviour and Values, Transportation Research Board, National Academies of Science and Engineering, USA; Committees on Planning and Economics and Environmental Issues, Transportation and Development Institute, American Society of Civil Engineers, USA; and Institute of Transportation Engineers.
Conference Committees

Professor David Hensher
Executive Chair and Co-Founder, International Conference on Competition and Ownership in Land Passenger Transport Chair, 10th International Conference on Competition and Ownership in Land Passenger Transport, Hamilton Island, Australia, August 2007

Executive Chair, 11th International Conference on Competition and Ownership of Land Passenger Transport, Delft, Holland, September 2009.

Member of Board of International Conference – The Capacity of Transport Systems: Arcs, nodes, services and technologies, Italy, 2009.

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

Professor Peter Stopher
Co-Chair of International Organising Committee, International Conference on Travel Survey Methods
Chair of Local Organising Committee, 9th International Conference on Travel Survey Methods, Australia, August 2011

Peer review

Associate Professor Stephen Greaves
Journals: IEEE Transactions on Intelligent Transport Systems Journal; Transportation Research Record; Journal of Transport Statistics; Transportation; Road and Transport Research; and Australasian Transport Research Forum.

Conferences: Annual Meeting of the Transportation Research Board and Thinking on Two Wheels Conference.

Grants: Large grant application for the Carnegie Trust in Scotland on transport and emissions.

Other: Reference Panellist for the Bicycle Federation of Australia fact-sheets on environmental and health issues associated with bicycle use.

Professor David Hensher
Journals: Transportation Research (A,B,E); Transportation; Journal of Transport Economics and Policy; Journal of Transportation and Statistics; Environment and Resource Economics; Review of Economics and Statistics; Environment and Planning A; Transport Reviews; Transportation Research Board Journal; Transport Policy, Regional and Urban Economics; Economic Record; and Journal of Transport Geography and Applied Economics. He is also a regular reviewer of chapters for books in the Elsevier Science

Associate Professor Peter Lok
Professor Corinne Mulley
Books: Institute of Civil Engineers’ publications.
Conferences: World Conference on Transport Research; Association of European Transport; and T2M International Conference and Logistics Research Network Conference (2006).

Dr Ada Suk-Fung Ng

Professor Peter Stopher
Journals: Transportation; Transportation Research A; Transportation Research Board; Transport Reviews; Transportation Research Forum; Australasian Transport Research Forum; Transport Policy; Journal of Transportation and Statistics; and Road and Transport Research.
Other: New Zealand Ministry of Transport: Research Project on Trip Chains and Trip Tours
ITS-Monash

Annual Ogden Transport Lecture

The Ogden Transport Lecture was initiated in 2001 by the Institute of Transport Studies (ITS) to recognise Professor Ken Ogden’s role in founding the transport program at Monash in 1969. A capacity audience came to hear Sir Rod Eddington, Chair of Infrastructure Australia, deliver the 2008 Ogden Transport Lecture at the State Library theatrette on August 28 2008. Speaking on the topic of ‘Keeping Melbourne on the move: learning from international experience’ he drew on his local and international experience to outline the challenges Melbourne is facing and the actions he regards as crucial to address those challenges. He emphasised that a vibrant central city is essential to support the service economy on which Melbourne’s future depends and he saw that central city area as extending beyond the CBD grid to include the St Kilda Road precinct, Docklands, Parkville and Footscray. If the central city is not supported by adequate transport infrastructure, the consequence can be that firms will relocate. Today that doesn’t simply mean firms moving to the suburbs, since they can easily relocate to another city. Sir Rod noted that global competition between cities has become an “elite sport”.

His presentation provided insight into the background to his recommendations for $18 billion of investment in road and rail tunnels to support the central city and why he saw that as higher priority for investment than construction of a rail line to Doncaster. He saw it as essential that the government allow adequate time following the release of his report for the community to make comments, prior to the government making its final decisions on his recommendations. He viewed that opportunity for comment as crucially important while noting that “Democracy is about having your say, it is not about getting your way”.

(L-R) Sir Rod Eddington, Prof Edwina Cornish (Deputy Vice Chancellor), A/Prof Geoff Rose and Prof Richard Larkins (Vic Chancellor) at the 2008 Ogden Transport Lecture
Workshops, seminars and industry linkages

Associate Professor Geoff Rose

National Workshop on Urban Transport Modelling convened by the Bureau of Infrastructure, Transport and Regional Economics, Canberra (March 2008)
Seminar on 'Appraisal and Evaluation of Travel Demand Management Measures', presented at Centre for Transport and Society, University of the West of England, Bristol (July 2008)
Seminar on ‘EcoDriver Training: Insight from the Cement Industry Pilot Field Trial’, INRETS, Bron, France (July 2008)
3rd International Symposium on Transport Simulation (ISTS08), Gold Coast (August 2008)
Monash University, ‘Leadership in Action’ Residential Workshop (September 2008)
Infrastructure 21 Summit: From Incrementalism to Transformational Change, Australian Davos Connection, Brisbane (October 2008)
Presentation on ‘EcoDriver Training: Results from the Cement Industry Pilot Field Trial’, Construction Materials Industry Conference, Sydney (October 2008)

Professor William Young

Professor Young made a number of seminar presentations during his sabbatical trip overseas during 2008:
“Road safety at intersections” at University of Tokyo.
“Research into parking, land use and road space allocation” at University of Tokyo.
“Transport, data and information” at University of Oxford.
“Road space allocation” at University of Leeds.
“Intersection safety modelling” at University of Leeds.
“Transport research at Monash” at University of Newcastle-upon-Tyne.
“Parking systems and analysis” at University of Loughborough.

Professor Graham Currie

Professor Currie made a presentation to the Centre for Transport Research (CTR), University of Aberdeen, Olympic Transport Planning – lessons for London (and Glasgow) (22 January 2008)
Professor Currie made a presentation to the London Olympic Delivery Authority Transport and London Olympics Committee for Organising Games Transport team London 2012 Olympic Games - Travel Demand Management - Olympic Games Experience (24 January 2008)
Professor Currie made a presentation to the Institute of Transport Economics, Oslo, Norway Transport Research Seminar - Investigating links between transport disadvantage, social exclusion and well being – Overview and preliminary results (30 January 2008)
Professor Currie made a presentation to the Institute of Transport Economics, Oslo, Norway Transport Research Seminar - Research Perspectives on Light Rail vs Buses (30 January 2008)
Professor Currie made a presentation to the Western Transport Alliance – Passenger Rail Forum - Melbourne Public Transport - Beyond MOTC (8 February 2008 -)
Professor Currie made a presentation to the UITP 6th Training Program for Managers - Melbourne, Australia ‘Conflicting Objectives in Transit Planning – Applying the Analytical Hierarchy Process to Achieve Consensus’ (11 February 2008)
Professor Currie made a presentation to the Garnaut Review – Public Forum 5 - Transport, Planning and the Built Environment - Equity Issues in Addressing Passenger Transport Related Climate Change (19 February 2008)

Professor Currie made a presentation to the Engineers Australia Transport Branch Seminar – Growing Melbourne's Bus Services - Melbourne Fringe Bus Development – Rationale, Plans, Progress, Issues (19 March 2008)

Professor Currie made a presentation to the National Transport Policy Framework – Workshop on the Strategic Priority Working Group - Social Inclusion and Transport Canberra – ‘Transport and Social Inclusion in Australia - Research Findings and Inputs to Policy Development’ (1 April 2008)

Professor Currie made a presentation to the Planning Institute Australia – Transport Planning Chapter - Challenges for the Transport Planning Profession (9 April 2008)

Professor Currie made a presentation to the Railway Technical Society of Australasia - Victoria Chapter - A New Metro for Melbourne – Rationale, Plans and Progress (9 April 2008)

Professor Currie made a presentation to the Connex Passenger Rail Vision 2025 – Advisor (21 April 2008)


Professor Currie made a presentation to the Land Transport Authority of Singapore Visit to Melbourne Australia - Melbourne Public Transport Reforms (8 May 2008)

Professor Currie made a presentation to the Williamson Community Leadership Program - Cities of the Future - ‘Solving the Public Transport Equation’ (14 May 2008)


Professor Currie made a presentation to the Leadership Plus Program Seminar Productivity-Infrastructure-Leadership – ‘Solving the Public Transport Equation’ (28 May 2008)

Professor Currie made a presentation to the Eastern Transport Coalition Summit – Manningham City Council ‘A Metropolitan View of Public Transport Planning Futures’ (4 July 2008)

Professor Currie made a presentation to the BusVic-UITP Sustainable Public Transport Workshop - Social Sustainability and Public Transport – ‘Researching the Social Sustainability of Transport in Melbourne’ (8 July 2008)


Professor Currie made a presentation to the ‘The Future of Melbourne Public Transport Challenges and Opportunities’ forum of the Canterbury Evening Discussion Group , Women’s section, Liberal Party (9 September 2008)

Professor Currie made a presentation to the ‘Sustainable Transport and Canberra’ ACT Planning and Land Authorities Sustainable Communities Program Transport Workshop (12 September 2008)

Professor Currie made a presentation to the Committee for Melbourne – Strategy Day 2008 on ‘Melbourne’s Future Transport Needs’ (16 September 2008)

Professor Currie participated in the Australian Davos Connection National Infrastructure Summit - 21 Summit : From Incrementalism to Transformational Change Brisbane (6-7 October 2008)

Professor Currie made a presentation to the ‘Transport on the Edge - Transport Needs and Nillumbik’ forum run by Nillumbik Shire Council Transport Forum (8 October 2008)

Professor Currie made a presentation to the ‘Sustainable Transport and Canberra’ Australian Capital Territory Light Rail Round Table Canberra (13 October 2008)

Professor Currie made a presentation to the ‘Congestion Tax: A Solution?’ forum run by the Committee for the Economic Development of Australia (14 October 2008)

Professor Currie made a presentation to the Bus Industry Confederation National Conference – Moving People A National Plan, Gold Coast (27 October 2008)
Rapid Transit Choices for Australia – The Bus Industry Approach

Understanding the different ridership impacts of fuel price rises across Australian cities, modes and services

Professor Currie made a presentation to the Brotherhood of St Laurence Social Inclusion and Older People Workshop (3 December 2008)

Dr Yibing Wang

Freeway Traffic Surveillance and Control, presented at a number of seminars organized by Department of Automation at Tsinghua University, the National ITS Centre of China, College of Transportation Engineering at Beijing Jiaotong University, College of Transportation Engineering at Tongji University (March-April 2008)

Freeway Network Traffic Surveillance and Isolated Ramp Metering in the Case of Distant Downstream Bottlenecks, presented at a seminar organized by the Monash Freeway and Westlink Project Team of VicRoads (May 2008)


Local Ramp Metering in the Presence of a Distant Downstream Bottleneck, presented at an international workshop organized by Institute of Transport Studies at the Department of Civil Engineering at Monash University (December 2008)

Media and Meetings

Professor Currie gave the following interviews:

Radio - ABC 774 Melbourne - Drive Time – Fare Systems for Melbourne (February 2008)
Radio - ABC 774 Melbourne - Drive Time co host – The Burnley Tunnel Disaster 1 year on (May 2008)
Radio - ABC 774 Red Simons – Monorail for Melbourne piece (July 2008)
Print Media - Sunday Age – several on support for the Melbourne Metro project
Positions

Editorial Positions

Professor Graham Currie
Editorial Advisory Board, Road and Transport Research
Joint Guest Editor with Professor David Hensher – Journal of Transport Geography Special Issue on the Tenth International Conference on Competition and Ownership in Land Passenger Transport

John Clements
Advisory Board, International Journal of Logistics: Research and Applications

Professor William Young
Editorial Advisory Board, Institution of Civil Engineers

Dr Majid Sarvi
Editor board, International journal of intelligent transport systems.

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

Professional Committees

Astrid de Alwis
Member, Chartered Institute of Logistics and Transport

John Clements
Fellow, Chartered Institute of Logistics and Transport, United Kingdom, Member, Chartered Institute of Logistics and Transport (Victorian section), General Committee and Passenger Transport Group Committee

Professor Graham Currie
Full member, Transportation Research Board Committee AP050 ‘Bus transit systems’, Full member, Transportation Research Board Committee AP075 ‘Light Rail transit systems’, International friend, Transportation Research Board Committee AP025 ‘Public transportation planning and development’, International friend, Transportation Research Board Committee ‘Transit capacity and quality of service’, Academic network member, Union Internationale des Transports Publics (UITP), Academic member, Victorian Road Based Public Transport Advisory Committee.

Professor William Young
Fellow of the following: Chartered Institute of Logistics and Transport, United Kingdom, Institute of Transportation Engineers, USA, Institute of Transportation Engineers (ITE) Australia and New Zealand Section. Member of the following: Advisory Committee, NRTC Committee on Performance Based Standards, Monash University Education Committee, Monash University Faculty of Engineering Board, Steering Committee, Chair, Monash University Faculty of Engineering Graduate and Further Education Committee, Deputy Chair, Monash University Faculty of Engineering Committee, Treasurer, AITPM Victorian Committee.
Associate Professor Geoff Rose
Member of the following: Institute of Transportation Engineers (ITE) Australia and New Zealand Section; Australian Institute of Traffic Planning and Management (AITPM); Institution of Engineers, Australia; University representative and member of committee ABE50 Travel Demand Management, US Transportation Research Board; Monash University Vice Chancellors Group (Environment) – Transport Committee; Monash University Vice Chancellors Group (Environment) – Education Committee.

Dr Majid Sarvi
USA National Academy of Sciences, Transportation Research Board Committee on Transport Network Modeling
USA National Academy of Sciences, Transportation Research Board Committee on Vehicle User Characteristics
Member of the EngAust Victoria branch on transportation

Dr Yibing Wang
Member of the Institute of Electrical and Electronics Engineers (IEEE).
Member of the Paper Review Sub-committee of the Freeway Operation Committee, Transportation Research Board, USA National Academy of Sciences.

Conference Committees

Professor William Young
Program Committee, 3rd international symposium of transport simulation, Australia, 2008

Associate Professor Geoff Rose
Co-Chair, 31th Australasian Transport Research Forum, 2008
Scientific Committee, World Conference on Transport Research
Program Committee, 3rd international symposium of transport simulation, Australia, 2008

Dr Majid Sarvi
Chair, 3rd international symposium of transport simulation, Australia, 2008

Dr Yibing Wang
Program Committee, 3rd international symposium of transport simulation, Australia, 2008

Referee of papers

Professor William Young

Professor Graham Currie

**Associate Professor Geoff Rose**


**Dr Majid Sarvi**

IEEE transaction in intelligent transportation, Transportation Research part B and C, Transportation Research Record, Journal of advanced transportation, ASCE Journal of Transportation Engineering, ISTTT Journal, Road and Transport Research

**Dr Yibing Wang**


**Overseas and interstate visits**

**Professor William Young**

University of Tokyo, Industrial Engineering Institute  
University of Oxford, Transport Studies Unit  
University of Leeds, Institute of Transport Studies  
University of Newcastle-upon-Tyne, Transport Studies Unit

**Professor Graham Currie (in January 2008)**

Transportation Research Board Annual Meeting  
The Institute of Transport Economics (TØI) – Oslo Norway  
World Resources Institute, Washington DC  
World Bank, Washington DC  
London Olympic Delivery Authority Transport Group and the London Organising Committee of the Olympic Games Transport team  
Centre for Transport Research (CTR), University of Aberdeen  
Transport Operations Research Group, University of Newcastle Upon Tyne

**Associate Professor Geoff Rose (in July 2008)**

Transport for London  
Imperial College London  
Sustrans, Bristol, UK  
Centre for Transport and Society, University of the West of England, Bristol  
INRETS, Bron, France

**Dr Majid Sarvi**

University of California at Irvine
Dr Yibing Wang
Transportation Research Board Meeting (January 2008)
Tsinghua University, Department of Automation (April 2008)
Beijing Jiaotong University, College of Transportation Engineering (April 2008)
The National ITS Centre of China (April 2008)
Tongji University, College of Transportation Engineering (April 2008)
Technical University of Delft, Department of Transportation Planning (September 2008)

Other activities

Professor Graham Currie


Australian Capital Territory Land Transport Authorities – Sustainable Transport in Canberra papers, presentations and membership of the ACT Light Rail Reference Group

Land Transport New Zealand Research program – Peer reviewer on the following projects:
- LTR 00116 – Auditing public transport accessibility in New Zealand
- Demand-Responsive Passenger Transport
- LTR 001083 - Improving Bus Service Reliability
- LTR01081 - Experience with Development of Off-Peak Public Transport Services

(L-R) Robbie Napper, Dr Ahern and Professor Currie, following Dr Ahern’s seminar on the Dublin public transport system.
(L-R) Kevin Gwee, Prof. Phillip Adams and Professor Graham Currie following Prof Adams’s seminar on the research activities of the Centre for Policy Studies at Monash University.

Students and staff from the Institute of Transport Studies joined with Professor Bill Young to celebrate the unveiling of a photograph to commemorate his period as Head of the Department of Civil Engineering.
ITS Staff and visiting Professors Rob Bertini, Hans van Lint and Gilles Dumont visited the M1 Motorway upgrade project head office for a briefing on the development of the Intelligent Transport Systems installed as part of the project.

Peter Cafiero, Director of Operations for the New York Transit System presented a TRW seminar on the challenges associated with planning and operating the largest transit system in North America.
Seminar series

ITLS-Sydney

26 February 2008

Associate Professor David Layton, Visiting Professor, ITLS-Sydney

Daniel J. Evans School of Public Affairs, University of Washington in Seattle

Continuous spatial choice - old, new, and emerging connections between fisheries economics and residential location choice

Abstract: Our motivating policy analysis goal is to estimate the economic impact of closing small areas to fishing out of a very large spatial area in order to protect an endangered species. To do this we need to create estimable models that can predict spatial location choice at an exceptionally fine spatial level. To date, spatial location choice modeling has focused on modeling space as a set of discrete zones and then applies discrete zonal choice models. We explore how an earlier, but apparently little used, literature on joint residential location choice and transport mode choice might be used to model continuous spatial choice where the decision maker chooses to locate, or fish, at one point in space.

11 March 2008

Dr Ada Suk-Fung Ng, Lecturer in Logistics and Supply Chain Management, ITLS-Sydney

Heterogeneous full-truck-load routing policies

Abstract: The transportation and trucking industry remains one of the most important fields in the area of freight logistics. Recent advances in computing speed and power have led to a wide variety of applications being developed in the field of the trucking industry. Due to the increasingly demanding nature of servicing the transportation of goods between different locations, it has become more important for trucking companies to adopt more up-to-date methods of handling operational activities. In this paper, we look into the case study of a nationwide transportation and trucking company in Peninsular Malaysia. The trucking company maintains a heterogeneous fleet of trucks, providing long-haul trucking services to various customers across the country. Trucks originate from a main depot (situated in the Northern region), and are dispatched to various parts of the country to service customer demands. Customer orders are received for the pickup and delivery of full truckload goods on a daily basis. Each customer order defines an origin-destination pair. Goods are picked up at an origin location and delivered to the destination location. In most cases, customers generally require next-day delivery service. Based on this study, our objective is to effectively assign trucks to customer orders (or jobs) in various locations, in order to minimize costs due to deadhead travel between the various pickup and delivery locations, and delay in deliveries. Using a rolling horizon approach, we propose a set of solution policies for addressing the needs to assign trucks to jobs on a day-to-day basis. The policies proposed are based on the offline version of a mixed-integer programming formulation originally developed for the homogeneous truckload pickup and delivery problem. Data obtained from the company are tested using our solution policies. Computational results show that all of the policies improve the company's truck utilization.

1 April 2008

Professor Michiel Bliemer, ITLS/Delft Partnership Visiting Professor

Route choice modelling: Generation of route choice sets and their impact on route choice probabilities

Abstract: Network traffic assignment models are widely used by policy makers, which can assist in assessing infrastructure investment decisions, road pricing policies, etc. A main component of these models are route choice models that describe the route choice behaviour of the individual travellers. Route choice models determine the probability that a traveller will choose a certain route from a route set. In the presentation two
problems will be investigated: (1) how to generate a route choice set, and (2) how to compute route choice probabilities. Considering the first problem, in real life, the number of routes from origin to destination is very large, although only few routes will actually be considered by travellers. We will show a simple method for generating a set of routes that can distinguish between relevant and irrelevant routes. The second problem of determining the route choice probabilities is a more challenging one. Typically, a multinomial logit (MNL) model is applied to determine these probabilities and this model is robust against adding irrelevant routes. However, routes are likely to overlap, in which case the MNL model produces biased results. Adapted logit models have been proposed, such as the C-logit model, the path-size logit model, the paired combinatorial logit model, and the cross-nested logit model. Although these models are able to deal with route overlap, they turn out to be very sensitive to including irrelevant routes in the route set. Some surprising and unexpected results will be shown to illustrate this problem (e.g., longer routes becoming most preferred). This basically questions all widely used traffic assignment models as none seem to be able to deal with this problem adequately.

22 April 2008
Mark McKenzie, Director, Rare Consulting
The economic, social and environmental challenges for road freight in Australia

3 June 2008
Chris Skinner, Adjunct Lecturer, ITLS-Sydney
Wireless communications for road safety and efficiency

Abstract: The statistics in vehicle road safety have shown a recent plateau that will need further innovative approaches for further improvement. One area receiving increasing attention is the application of wireless communications to improved safety of vehicles and this subject has been under study by the Australian Roads Research Board and the Automotive Technology Cooperative Research Centre and there is active discussion with the Australian Communications and Media Authority about wireless spectrum licensing. This talk will provide a summary of progress world-wide and Australia's growing involvement.

10 June 2008
Hal Morris, Chief Executive, Australian Logistics Council
Australia's transport network: How did we get here and where are we going?

Abstract: Australia's transport and logistics sector directly contributes $150 billion to our economy every year and underpins every other industry. Historically, however, our sector has seemed to be invisible to policy makers, with it often said the founding fathers forgot transport. This has resulted in ad hoc decision making with consequences including: conflicting regulations between states becoming a de facto barrier to trade; the federal government with no constitutional role or mandate to take the lead in reform; a reluctance for jurisdictions to focus on interstate connections, instead building intrastate networks with their capital city as the hub; and a lack of understanding of the importance of transport and logistics to our state and national economies. So if the system is broken how do we fix it? What is the map for reform?

12 August 2008
Mark Streeting, Principal, Booz and Company
Fare policy reform in the Smart Card era

Abstract: Public transport operators around the world have been progressively migrating from ticketing systems employing traditional fare media (e.g. paper and magnetic stripe tickets) to state-of-the-art contactless smartcard systems since the late-1990s. The introduction of this new technology has provided a unique opportunity to review fares and ticketing policy and leverage the full functionality of these new ticketing systems - including time-of-day and service-based pricing. Drawing on the results of a large-scale international survey, Mark will consider the extent to which the opportunities afforded by these new ticketing systems are being exploited in practice.
19 August 2008

Dr Juan Carlos Martín and Dr Concepción Romn

Analyzing demand for new high speed train services: The case of Madrid-Barcelona

Abstract: This paper analyzes the potential competition of the high speed train (HST) with the main competing modes in the line Madrid-Barcelona, where a new HST infrastructure has recently been built. The analysis is based on the estimation of a Nested Logit model that uses a mixed revealed/stated preference dataset providing information of travellers behaviour in the available modes. We obtained the value of the different components of the travel time as well as the willingness to pay for other service attributes and analyze demand response to various policy scenarios that consider the potential competition between HST and other modes. Results highlight the low level of competition that the HST could exert over the air transport services in this corridor.

30 September 2008

Professor David Walters, Professor of Logistics and Supply Chain Management, ITLS-Sydney

The role of logistics management in the new business model

Abstract: Manufacturers struggle to make their operations respond rapidly and effectively in an environment with myriad uncertainties. Meanwhile, their customers continue to demand faster service, a greater variety of products and the hottest new items. In this intensely competitive environment, balancing demand and supply and profit must be done daily - sometimes hourly. Success depends on how fast and how effectively brand owners and manufacturers can respond to change Ventana Research (30 July 2008). This statement reflects the growing consensus among research organizations on the challenges that will confront manufacturing and service industries in the near future due to the rapidly changing business environment. This seminar identifies some of the emerging business models and their likely implications for logistics management.

7 October 2008

Ian Faulks, Partner, Safety and Policy Analysis International

Changes and challenges in road safety

11 November 2008

Dr Brett Day, University of East Anglia, ITLS Visiting Academic

Modelling demand for new cars in the UK using aggregate and disaggregate data (PDF)

Abstract: This seminar reports on work undertaken to develop an empirical model of purchasing behaviour in the new car market. The research is motivated by policy-makers desire to forecast the impacts of fiscal policies designed to incentivise the purchase of fuel efficient cars over gas-guzzling alternatives. The seminar will focus primarily on the on-going programme of empirical modelling. At the core of that programme is a standard discrete choice model of household purchasing behaviour applied to an aggregate dataset recording market shares for each model of vehicle available in the UK car market. The seminar will discuss the possibilities for (and limitations of) recovering parameters of the choice function from that aggregate data. Furthermore, the seminar will discuss the possibilities for augmenting the analysis with information from disaggregate data on individual purchasing behaviour in order to better identify the choice function parameters.
Tracking humans: emerging technologies and health applications

Abstract: The growth in personal location and biophysical sensing technologies, and the ability to obtain/transmit this data in real-time, is presenting new opportunities to explore personal geographies (in the form daily life/events, mobility, and exposure) and physiological outcomes (such as energy expenditure, heart rate, blood glucose) under real-world conditions in the built environment. Transforming the plethora of data into useful understandings, interventions, feedback, and clinical/methodological tools is a key future challenge. This seminar will present a review of emerging passive tracking technologies (including especially GPS and accelerometry), supplemental interactive and in-situ survey methods, present examples drawn from recent field studies (including diabetic patient monitoring), and challenge attendees to consider future applications in public health and safety.
ITS-Monash

ITS Monash holds regular Transport Research Workshops (TRWs) at which staff, students and visitors are able to present recent research results, discuss grant applications, and exchange new ideas for projects. At each TRW, a formal presentation is made by one of the ITS Monash staff or students or by a visiting researcher.

29 February 2008

Associate Professor Geoff Rose

Reflections on the transport systems in China, Vietnam and Cambodia

13 March 2008

Ms Taegen Edwards

Green Steps Melbourne Region

4 April 2008

Professor William Young

Paper reviewing, ranks and qualities of journals, good journals in traffic and transportation engineering

7 April 2008

Mr Ehsan Mazloumi

The prediction of on-road public transport travel time and its variability (PhD transferring seminar)

18 April 2008

Professor Graham Currie

Quality assurance

The presentation reviewed the types of research undertaken at ITS and the processes applied to ensure quality in managing these projects.

2 May 2008

Professor Philip Adams

Activities of the Centre of Policy Studies at Monash University

The Centre of Policy Studies (CoPS) specializes in computable general equilibrium (CGE) modelling which has been used to analyse many economic policies, including changes in taxes, tariffs, environmental regulations and competition policy. The centre has done work in Australia and overseas. This presentation will outline the nature of the modelling undertaken by CoPS and consider the insight obtained with the models in recent projects.
Freeway network traffic modelling, surveillance, and control

The available capacity of freeway networks is degraded in presence of traffic congestion, leading to reduced throughput, increased pollution and higher accident risk. The traffic flow efficiency may be increased via suitable application of several control measures, such as ramp metering, driver information, route guidance, variable speed limits and further link control measures. This talk presents a macroscopic traffic flow model along with selected validation results, followed by an overview of some generic traffic surveillance methods and control strategies for freeway networks. Some simulation and field results demonstrating the efficiency of the traffic surveillance methods and control strategies are also presented.

Simulating crowd dynamics under emergency conditions (PhD transferring seminar)

Nirijan presented his transfer seminar which summarised research completed to date and outlined his proposed approach to extending this research towards a PhD. In his presentation he discussed options for modelling crowd dynamics and also described the insight gained from initial experimental work with ants.

SAPTSIM: A research tool

Building up knowledge on the performance of the transport system requires the integration of many information sources. Data provides one building block through its description of what has and is taking place. Models enable the description provided by data to be generalised and extends the description of travel. Analysis of the data and model output results in knowledge and forms the basis for policy development and decision making. This seminar addresses the integration of data, models and analysis techniques within the context of developing knowledge on travel in Melbourne, Australia. It illustrates this interaction with reference to the creation of a data, modelling and analysis facility. Particular reference will be made to the SAPTSIM simulation mode.

Does car ownership contribute to social exclusion? (PhD transferring seminar)

Her research is an exploration of the role of transport in arts and cultural participation and social exclusion. In her presentation she presented the confirmation of PhD candidature report for research aiming to identify whether car ownership contributes to social exclusion. The study will compare the participation of car owning and non car owning individuals and households in arts and cultural activities.
Expanding the cost-benefit analysis framework for urban passenger rail - Estimation of agglomeration economies

Transport infrastructure development in a Swiss context
Some innovative approaches are in progress in Europe and in Switzerland dealing with transport infrastructure and road technology. European research on ITS is running and the specific case of Switzerland provide interesting proposals and examples of solutions.

The value of new public transport in deprived areas: Who benefits, how and why?

International developments in dynamic traffic management

Overview of the research activities in Delft University

Overview of the activities of the transportation group at Portland State University
FINANCIAL STATEMENTS

ITLS-Sydney

Institute of Transport and Logistics Studies
Balance Sheet as at 31 December 2008
(University account code: FIN0100000. 11111 FIN02 0000)

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</tbody>
</table>

I certify that the Income Statement and Balance Sheet of the Institute has been prepared in accordance with the University’s accounting practices and procedures. These Institute accounts form part of The University of Sydney’s financial statement which have been audited by the Auditor General, New South office.

John Edwards
Finance Director
Faculty of Economics and Business
Date: 27/3/09
## Institute of Transport and Logistics Studies

**Statement of Income for the year ended 31 December 2008**

(University account codes: FR101 00408, 11111, FR202 00000)

<table>
<thead>
<tr>
<th>INCOME</th>
<th>2008</th>
<th>2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Grant</td>
<td>144,953</td>
<td>18,200</td>
</tr>
<tr>
<td>Student Fees</td>
<td>3,300,569</td>
<td>1,791,434</td>
</tr>
<tr>
<td>Other Fees - Short course and Conference</td>
<td>296,276</td>
<td>802,296</td>
</tr>
<tr>
<td>- Testing and Consulting</td>
<td>227,323</td>
<td>164,899</td>
</tr>
<tr>
<td>Donation</td>
<td>25,000</td>
<td>25,000</td>
</tr>
<tr>
<td>Allocation - Faculty of Economics and Business</td>
<td>82,709</td>
<td>154,540</td>
</tr>
<tr>
<td>Sale of Publications</td>
<td>2,305</td>
<td>3,082</td>
</tr>
<tr>
<td>Interest</td>
<td>126,167</td>
<td>119,997</td>
</tr>
<tr>
<td>Miscellaneous Income</td>
<td>10,631</td>
<td>19,663</td>
</tr>
<tr>
<td>Funded position External</td>
<td>258,563</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL INCOME</strong></td>
<td>4,512,425</td>
<td>2,889,952</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EXPENDITURE</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Salaries and Oncost</td>
<td>1,514,205</td>
<td>1,478,083</td>
</tr>
<tr>
<td>Contractors - Casual Teaching</td>
<td>312,866</td>
<td>299,223</td>
</tr>
<tr>
<td>Equipment, Repairs &amp; Maintenance</td>
<td>66,403</td>
<td>71,871</td>
</tr>
<tr>
<td>Travel and Conference</td>
<td>97,925</td>
<td>409,959</td>
</tr>
<tr>
<td>Consumables</td>
<td>1,594</td>
<td>351</td>
</tr>
<tr>
<td>Communication</td>
<td>11,712</td>
<td>5,207</td>
</tr>
<tr>
<td>Photocopying &amp; Printing</td>
<td>37,899</td>
<td>45,255</td>
</tr>
<tr>
<td>Advertising</td>
<td>10,068</td>
<td>29,060</td>
</tr>
<tr>
<td>Rent</td>
<td>10,996</td>
<td>22,406</td>
</tr>
<tr>
<td>Catering &amp; Hiring Charges - Conference and Seminars</td>
<td>22,976</td>
<td>29,281</td>
</tr>
<tr>
<td>Computer Surveying Expenses</td>
<td>72,149</td>
<td>28,500</td>
</tr>
<tr>
<td>Entertainment</td>
<td>24,508</td>
<td>3,490</td>
</tr>
<tr>
<td>New Staff Appointment &amp; Relocation Costs</td>
<td>10,580</td>
<td>7,038</td>
</tr>
<tr>
<td>General Expenses</td>
<td>34,546</td>
<td>26,217</td>
</tr>
<tr>
<td>Reference Material</td>
<td>5,588</td>
<td>3,770</td>
</tr>
<tr>
<td>Student Cost</td>
<td>35,334</td>
<td>47,880</td>
</tr>
<tr>
<td>Staff Development &amp; Training</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL EXPENDITURE</strong></td>
<td>2,275,143</td>
<td>2,479,488</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SURPLUS/(DEFICIT)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>2,247,283</td>
<td>419,453</td>
</tr>
</tbody>
</table>

**Accumulated Funds as at 1 January 2008**

Transfer to reserves

**Accumulated Funds as at 31 December 2008**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1,279,568</td>
<td>869,115</td>
<td></td>
</tr>
<tr>
<td>3,526,951</td>
<td>1,279,568</td>
<td></td>
</tr>
</tbody>
</table>

John Edwards  
Finance Director  
Faculty of Economics and Business  
Date: 27/03/09
ITS-Monash

The ITS-Monash financial statements are supplied separately to the ARC.
2008 ANNUAL REPORT

A report on the 2008 activities of
The Australian Key Centre in
Transport and Logistics

Established and supported under the
Australian Research Council's Key Centre Program