



## Conference program

### Overall program

#### Day 1 Wednesday 29 September 2004

08:15-09:00	Registration		
09:00-09:15	Welcome and official opening: Trudi Meakins, Executive Director Transport Planning, DTUP and The Hon Trish White, Minister for Transport Chair: Peter Tisato <b>Victoria Room</b>		
09:15-10:45	Paper session 1.1 Chair: Richard Hanslip <i>Access, equity, society &amp; community (1)</i>	Paper session 1.2 Chair: Chris Thomson <i>Traffic management &amp; control (1)</i>	Paper session 1.3 Chair: Bob Edwards <i>Logistics &amp; freight (1)</i>
10:45-11:15	Morning tea		
11:15-12:15	Keynote address: Tim Costello, World Vision Australia, <i>Transport and an Australian social conscience</i> Chair: Lindsay Oxlad <b>Victoria Room</b>		
12:15-13:15	Lunch		
13:15-14:45	Paper session 2.1 Chair: Liz Ampt <i>Travel behaviour (1)</i>	Paper session 2.2 Chair: Stuart Clement <i>Traffic management &amp; control (2)</i>	Paper session 2.3 Chair: Neil Murphy <i>Logistics &amp; freight (2)</i>
14:45-15:15	Afternoon tea		
15:45-17:15	Paper session 3.1 Chair: Peter Stopher <i>Travel behaviour (2)</i>	Paper session 3.2 Chair: Rocco Zito <i>ITS developments &amp; implementations</i>	Paper session 3.3 Chair: Fred Affleck <i>Railway planning &amp; management</i>
17:15-18:15	ITS researchers forum		
17:30-19:00	Happy hour		

#### Day 2 Thursday 30 September 2004

08:30-09:00	Registration		
09:00-10:00	Keynote address: Natalie Jackson – <i>Population futures and the implications for society</i> Chair: Peter Tisato <b>Victoria Room</b>		
10:00-10:30	Morning tea		
10:30-12:00	Paper session 4.1 Chair: Clive Forster <i>Access, equity, society and community (2)</i>	Paper session 4.2 Chair: Tony Brennand <i>Transport, land use &amp; environment</i>	Paper session 4.3 Chair: Ken Ogden <i>Safety &amp; security</i>
12:00-13:30	Lunch		
13:30-15:00	Paper session 5.1 Chair: Helen Battellino <i>Travel behaviour (3)</i>	Paper session 5.2 Chair: Johan Louw <i>Emissions and energy (1)</i>	Paper session 5.3 Chair: Peter Hollister <i>Public transport</i>
15:00-15:30	Afternoon tea		
15:30-17:00	Paper session 6.1 Chair: Ian Ker <i>Travel behaviour change</i>	Paper session 6.2 Chair: Chris Kissling <i>Emissions and energy (2)</i>	Paper session 6.3 Chair: David Ashley <i>Travel demand modelling (1)</i>
19:00-	Conference dinner (Tandanya, National Aboriginal Cultural Institute)		

#### Day 3 Friday 1 October 2004

08:30-09:00	Registration		
09:00-10:30	Paper session 7.1 Chair: Ian Radbone <i>Sustainable transport (1)</i>	Paper session 7.2 Chair: Marzi Desanti <i>Funding of transport infrastructure</i>	Paper session 7.3 Chair: Tim Raimond <i>Travel demand modelling (2)</i>
10:30-11:00	Morning tea		
11:00-12:30	Paper session 8.1 Chair: Trixie Mead <i>Sustainable transport (2)</i>	Paper session 8.2 Chair: Doug Bowers <i>Transport economics &amp; policy evaluation</i>	Paper session 8.3 Chair: Mike Taylor <i>Travel demand modelling (3)</i>
12:30-15:30	Lunch and closing session		

<b>Rooms</b>	<b>Victoria Room</b>	<b>Baudin Room</b>	<b>Flinders + Light Room</b>
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08:15-09:00	Registration
09:00-09:15	<b>Welcome and official opening:</b> Trudi Meakins, Executive Director Transport Planning, DTUP and The Hon Trish White, Minister for Transport Chair: Peter Tisato <b>Victoria Room</b>
09:15-10:45	<b>Paper session 1.1: Access, equity, society and community (1)</b> Chair: Richard Hanslip <b>Victoria Room</b> <i>South Australia's Integrated Land Use and Transport Strategy – towards a sustainable transport future</i> , Mark Elford, SA Department of Transport & Urban Planning <i>Accessibility evaluation of the Adelaide-Crafers Highway</i> , Frank Primerano and Michael Taylor, TSC, University of South Australia <i>Towards an energy 'accessibility based' rating scheme for development assessment planners</i> , Andrew Allan, TSC, University of South Australia <i>Accessibility modelling as a tool for appraisal of transport schemes</i> , Alex Smith and Richard Sanderson, Halcrow Pacific Pty Ltd  <b>Paper session 1.2: Traffic management and control (1)</b> Chair: Chris Thomson <b>Baudin Room</b> <i>Incident detection on freeways: a Bayesian network approach</i> , Kun Zhang and Michael Taylor, TSC, University of South Australia <i>An algorithm for reducing detection load in transportation oriented DSMS</i> , Hideto Ikeda, Ritsumeikan University, Nikolaos Vogiatzis, TSC, University of South Australia, Waskitho Wibisono and Yu He, Ritsumeikan University <i>Melbourne's emergency vehicle pre-emption trial</i> , Steve Bean and Greg Studwick, VicRoads  <b>Paper session 1.3: Logistics and freight (1)</b> Chair: Bob Edwards <b>Flinders + Light Room Room</b> <i>Measuring road freight growth</i> , David Gargett, BTRE <i>Land use policy for the primary freight network in Perth</i> , Imre Szito, WA Department for Planning & Infrastructure <i>Using lateral position information as a measure of driver behaviour around MCVs</i> , Sandra Lennie and Jonathan Bunker, Queensland University of Technology <i>Analysis of heavy vehicle suspension dynamics using an on-board mass measurement system</i> , Lloyd Davis, Main Roads Queensland and Roger Sack, Tramanco Pty Ltd
10:45-11:15	Morning tea
11:15-12:15	<b>Keynote address:</b> Tim Costello, World Vision Australia, <i>Transport and an Australian social conscience</i> Chair: Lindsay Oxlad <b>Victoria Room</b>
12:15-13:15	Lunch
13:15-14:45	<b>Paper session 2.1: Travel behaviour (1)</b> Chair: Liz Ampt <b>Victoria Room</b> <i>Why don't more people catch the bus?</i> Anne Stewart and Andrew Parsons, Marketing Department, University of Auckland <i>Sample size requirements for measuring a change in behaviour</i> , Peter Stopher and Stephen Greaves, ITS, University of Sydney <i>Jumping at shadows: a review of methodological changes in the SMVU</i> , David Mitchell, BTRE  <b>Paper session 2.2: Traffic management and control (2)</b> Chair: Stuart Clement <b>Baudin Room</b> <i>Parking management in Saudi Arabia: is there any solution?</i> Wen Long Yue, TSC, University of South Australia <i>Evaluation of lane changing and merging in microsimulation models</i> , Peter Hidas, School of Civil & Environmental Engineering, University of New South Wales <i>On the locality-scope model for improving the performance of transportation management systems</i> , Nikolaos Vogiatzis, TSC, University of South Australia, Hideto Ikeda and Waskitho Wibisono, Ritsumeikan University  <b>Paper session 2.3: Logistics and freight (2)</b> Chair: Neil Murphy <b>Flinders + Light Room</b> <i>An evaluation of logistics network modelling tools available to South Australian companies</i> , Raluca Raicu and Michael Taylor, TSC, University of South Australia <i>Surveying the use of third party logistics services by large Australian manufacturers</i> , Shams Rahman, ITS, University of Sydney, Elizabeth Barber, School of Business, University of New South Wales at ADFA and Pradeep Kanta Ray, School of International Business, University of New South Wales <i>Location modelling: Grouping Genetic Algorithm using Geographic Information Systems</i> , Ladda Pitaksringkarn and Michael Taylor, TSC, University of South Australia <i>Forecasting container and freight ship movements on international routes to and from Australia</i> , Krishna Hamal, BTRE
14:45-15:15	Afternoon tea

15:45-17:15	<p><b>Paper session 3.1: Travel behaviour (2)</b>  Chair: Peter Stopher <span style="float: right;"><b>Victoria Room</b></span>  <i>Estimating the CBD profile of Sydney- rail passengers</i>, Michael Doggett, RailCorp NSW, Neil Douglas, Douglas Economics and Gary McGregor, RailCorp NSW  <i>A stated preference survey for investigating route choice behaviour in Adelaide</i>, Hirofumi Furusawa, Jeremy Woolley and Wen Long Yue, TSC, University of South Australia  <i>Car pooling – targeting for success</i>, Darryn Paterson, Booz Allen and Hamilton</p> <p><b>Paper session 3.2: ITS developments and implementations</b>  Chair: Rocco Zito <span style="float: right;"><b>Baudin Room</b></span>  <i>The importance of transportation policies for successful Intelligent Transportation Systems deployment</i>, Jean-Luc Ygnace, INRETS and Nobuhiro Uno, Department of Urban Management, Kyoto University  <i>Intelligent Transport Systems and injury prevention: an overview of research activities at the Monash University Accident Research Centre</i>, M Regan, K Young, T J Triggs, T Horberry, E Mitsopoulos, N Tomasevic and I Johnston, MUARC, Monash University  <i>Traveller Information Services: features demanded vs features supplied</i>, Nariida Smith, Vivian Salim, Justine Gannon, Doina Olaru and Leorey Marquez, CSIRO</p> <p><b>Paper session 3.3: Railway planning and management</b>  Chair: Fred Affleck <span style="float: right;"><b>Flinders + Light Room</b></span>  <i>The evaluation of e-business related technologies in the railway industry</i>, Clara Tetter and Luis Ferreira, Queensland University of Technology  <i>Interstate rail track upgrading options to 2014</i>, Philip Laird, University of Wollongong and Max Michell, Samrom Pty Ltd  <i>The demand for high speed rail on the east coast of Australia</i>, Neil Douglas, Douglas Economics and Peter Thornton, TMG International (Australia) Pty Ltd  <i>Modelling issues on the railway resource management process using multi-agent systems</i>, Chi-Wai Tsang and Tin-Kin Ho, Department of Electrical Engineering, Hong Kong Polytechnic University</p>
17:15-18:15	ITS Researchers Forum <span style="float: right;"><b>Victoria Room</b></span>
17:30-19:00	Happy hour

**Day 2 Thursday 30 September 2004**

08:30-09:00	Registration
09:00-10:00	Keynote address: Natalie Jackson, University of Tasmania: <i>Population futures and the implications for society</i> Chair: Peter Tisato <b>Victoria Room</b>
10:00-10:30	Morning tea
10:30-12:00	<p><b>Paper session 4.1: Access, equity, society and community (2)</b> Chair: Clive Forster <b>Victoria Room</b> <i>Addressing access and mobility issues in rural and regional Victoria</i>, Natalia Walker, Phil Harbutt and Jenny Morris, Department of Infrastructure, Victoria <i>Relinquishing a driver's licence</i>, Jennifer Bonham, Cathy Jervis, TSC, Peter Lumb, School of Social Work and Social Policy, and Angela Berndt, School of Occupational Therapy, University of South Australia <i>Exploring the future of car use for an ageing society</i>, Clare Rees and Anna Lyth, Macquarie University <i>Forgotten needs, creative responses: systematic transport issues for people with dementia</i>, Lyn Mitchell and Sue Jarrad, Alzheimer's Australia SA Inc</p> <p><b>Paper session 4.2: Transport, land use and environment</b> Chair: Tony Brennand <b>Baudin Room</b> <i>Future directions in integrating land use and transport planning</i>, Bruce James, Queensland Transport <i>Achieving sustainability through integrated transport and land use planning in the three largest Australian cities</i>, Lal Wadhwa, James Cook University <i>Integrated local transport plan</i>, Shalendra Ram, Maunsell Australia Pty Ltd</p> <p><b>Paper session 4.3: Safety and security</b> Chair: Ken Ogden <b>Flinders + Light Room</b> <i>Evidence-based road safety policy? Evidence-based transport policy? A discussion of randomised experimentation and meta-analysis in the evaluation of interventions</i>, T P Hutchinson and A J Meier, Centre for Automotive Safety Research, University of Adelaide <i>Dynamic travel demand for emergency evacuation: the case of bushfires</i>, Rahaf Alsnih, John Rose and Peter Stopher, ITS, University of Sydney <i>Fast and furious 3: illegal street racing, sensation seeking and risky driving behaviours in New Zealand</i>, James Warn, P Tranter, University of New South Wales at ADFA, Canberra and S Kingham, Department of Geography, University of Canterbury</p>
12:00-13:30	Lunch
13:30-15:00	<p><b>Paper session 5.1: Travel behaviour (3)</b> Chair: Helen Battellino <b>Victoria Room</b> <i>Recruitment of GPS respondents: collecting data with GPS: those that reject, and those that receive</i>, Renee Hawkins, Hunter Valley Research Foundation and Peter Stopher, ITS, University of Sydney <i>GPS Surveys and the Internet</i>, Peter Stopher, Andrew Collins, and Philip Bullock, ITS, University of Sydney <i>Passengers' perspective of bus service quality in Bangkok: an ordered probabilistic modelling approach</i>, Kasem Choocharukul, Department of Civil Engineering, Chulalongkorn University</p> <p><b>Paper session 5.2: Energy and emissions (1)</b> Chair: Johan Louw <b>Baudin Room</b> <i>What is being discharged from that tailpipe? Modelled estimates compared to on-road measurements</i>, Jeff Bluett and Gavin Fisher, National Institute of Water &amp; Atmospheric Research (NIWA) <i>A typical Adelaide drive: how should it be derived?</i> Rocco Zito, TSC, University of South Australia <i>Modelling the impacts of alternative policy options to reduced greenhouse gas emissions from urban freight transport – a Sydney case study</i>, Michael Taylor, TSC, University of South Australia, Nariida Smith, CSIRO Division of Manufacturing &amp; Infrastructure Technology, Glen D'Este, Parsons Brinckerhoff Pty Ltd and Rocco Zito, TSC, University of South Australia</p> <p><b>Paper session 5.3: Public transport</b> Chair: Peter Hollister <b>Flinders + Light Room</b> <i>A GIS approach to transit buffer problem analysis</i>, Sekhar Somenahalli, Wen Long Yue and Michael Taylor, TSC, University of South Australia <i>Designing customer focused PT services on a constrained budget</i>, Andrew Parsons, Anne Stewart, University of Auckland Business School and Claire McAlpine, Auckland Regional Council <i>Integrated passenger transport – a model for success from regional South Australia</i>, Phil Saunders, Belinda White and Michelle Spagnoletti, SA Office of Public Transport</p>
15:00-15:30	Afternoon tea

15:30-17:00	<p><b>Paper session 6.1: Travel behaviour change</b>  Chair: Ian Ker <span style="float: right;"><b>Victoria Room</b></span>  <i>Evaluating voluntary travel behaviour interventions</i>, Peter Stopher, Rahaf Alsnih, Philip Bullock, ITS, University of Sydney and Liz Ampt, Steer Davies Gleave  <i>Future directions for TravelSMART in Victoria</i>, Phil Harbutt, Department of Infrastructure, Victoria  <i>TravelSmart Universities: the problems of going to scale</i>, David Meiklejohn and Sally Semmens,, Department of Infrastructure, Victoria  <i>Measuring the economic benefits of travel behavioural change programs</i>, Ray Winn, Department of Infrastructure, Victoria</p> <p><b>Paper session 6.2: Energy and emissions (2)</b>  Chair: Chris Kissling <span style="float: right;"><b>Baudin Room</b></span>  <i>Predicting the energy use of a solar-electric commuter car, and some implications for sustainable transport</i>, Peter Pudney, Centre for Industrial &amp; Applied Mathematics, University of South Australia and Rocco Zito, TSC, University of South Australia  <i>Are we running out of oil?</i> Lyn Martin, DoTARS  <i>Oil depletion: an overlooked factor in transport planning</i>, Bruce Robinson and Sam Powrie, Sustainable Transport Coalition</p> <p><b>Paper session 6.3: Travel demand modelling (1)</b>  Chair: David Ashley <span style="float: right;"><b>Flinders + Light Room</b></span>  <i>Greater Western Sydney Regional Transportation Study: forecasting travel demand</i>, Helen Battellino and Caroline Stone, PPM Consultants Pty Ltd  <i>Spatial structure effects on intercity freight demand in developing countries: model and application</i>, Amilia Aldian and Michael Taylor, TSC, University of South Australia  <i>Microsimulation modelling of synthetic populations</i>, Min Xu, ITS, University of Sydney and Michael Taylor, TSC, University of South Australia</p>
19:00-	Conference dinner

**Day 3 Friday 1 October 2004**

08:30-09:00	Registration
09:00-10:30	<p><b>Paper session 7.1: Sustainable transport (1)</b>  Chair: Ian Radbone <span style="float: right;"><b>Victoria Room</b></span>  <i>Urban form impacts on travelling choices: a study of four suburbs in metropolitan Adelaide, Australia</i>, Ali Soltani and Andrew Allan, School of Natural &amp; Built Environments, University of South Australia  <i>David and Goliath - bikes and buses together without throwing stones</i>, Ian Ker, Steve Yapp and Philip Moore, ARRB Transport Research Ltd  <i>The chain of information</i>, Paul Littlejohns, SA Office of Public Transport</p> <p><b>Paper session 7.2: Funding of transport infrastructure</b>  Chair: Marzi Desanti <span style="float: right;"><b>Baudin Room</b></span>  <i>Transfund's allocation process for land transport in New Zealand</i>, Simon Whiteley, Transfund New Zealand  <i>Economic development and investment in transportation infrastructure – an analysis of Wellington's predicament</i>, Anthony Brennand, Wellington Regional Council  <i>Australian transport infrastructure: fit for purpose?</i> Dave Kilsby, Kilsby Australia, Philip Laird, University of Wollongong and Doug Bowers, GHD Pty Ltd</p> <p><b>Paper session 7.3: Travel demand modelling (2)</b>  Chair: Tim Raimond <span style="float: right;"><b>Flinders + Light Room</b></span>  <i>The role of pedestrian modelling in planning for special events</i>, Nicole Ronald, Sinclair Knight Merz  <i>Modelling or muddling</i>, Bob Nairn  <i>Travel demand modelling in Australia – reviews of practice and promise in Perth and Adelaide</i>, Michael Taylor, Derek Scrafton, TSC, University of South Australia, Gary McCarney, WA Department for Planning &amp; Infrastructure and Lindsay Oxlad, SA Department of Transport &amp; Urban Planning</p>
10:30-11:00	Morning tea
11:00-12:30	<p><b>Paper session 8.1: Sustainable transport (2)</b>  Chair: Trixie Mead <span style="float: right;"><b>Victoria Room</b></span>  <i>Unsustainable trends in the Australian census data for the journey to work in Melbourne and other cities in Victoria</i>, Alan Parker  <i>Reducing the number of cars that commute to Flinders University</i>, Rebequa Aitken, Flinders University Green Transport Office  <i>Travel demand management at Australian universities: recognition, contemplation or action?</i> Carey Curtis and Carlindi Holling, Department of Urban &amp; Regional Planning, Curtin University</p> <p><b>Paper session 8.2: Transport economics and policy evaluation</b>  Chair: Doug Bowers <span style="float: right;"><b>Baudin Room</b></span>  <i>Development of a national assessment methodology for transport proposals</i>, Tony Ockwell, Mark Harvey, Caroline Evans (Pratt); Peter Tisato, Lindsay Oxlad; John Robinson, Aidan McGann, David Harris; Philip Peterson; Rhonda Daniels, Frank Perry, Julieta Legaspi; Neil Doyle, Russell Fisher, Lawrence Hannah, Jon Krause; Greg Scott; Neville Binning; and Robin Anderson, representing the Federal and State-Territory Government Transport and Road Agencies and the ALGA  <i>Road pricing prospects for Australia</i>, Chris Egger, National Transport Commission  <i>Risk analysis in the evaluation of transport proposals</i>, Sarah Patrick, Dimitris Tsolakis and Neil Houghton, ARRB Transport Research Ltd</p> <p><b>Paper session 8.3: Travel demand modelling (3)</b>  Chair: Michael Taylor <span style="float: right;"><b>Flinders + Light Room</b></span>  <i>Estimating passenger demand for fast rail services with the Rooftop Model</i>, Craig McPherson and David Ashley, Sinclair Knight Merz  <i>Predicting traffic growth in Australian cities</i>, David Gargett and David Cosgrove, BTRE  <i>Measuring road congestion. Some new ideas?</i> David Rice, WA Department for Planning &amp; Infrastructure</p>
12:30-15:30	Lunch and closing session