

INSTITUTE OF TRANSPORT AND LOGISTICS STUDIES

The Institute of Transport and Logistics Studies (ITLS) is recognised as a centre of excellence within Australia and ranked among the top five such institutes in the world for transport and logistics research and education.



*Professor David Hensher, Director,
Institute of Transport and Logistics Studies*

The Institute of Transport and Logistics Studies (ITLS) is a world-class research centre, with strong industry links and a key role in developing innovative ideas in transport and logistics policy and professional practice in Australia.

ITLS provides specialist training in transport, logistics and supply chain management through its graduate and executive programs and bus and coach accreditation courses. It also conducts transport, traffic, logistics and supply chain-related contract research for industry and government.

The Institute has a large program of related activities including publications, seminars, conferences, and software development and an extensive portfolio of research in passenger and freight transport; transport economics, modelling, planning and management; and logistics and supply chain management.

Current projects include:

- accessibility in western Sydney
- a two-stage scheduling model for in-flight catering services
- cash or prepay: investigating motivations for payment of bus fares
- congestion and variable user charging as an effective travel demand management instrument
- developing tour based models for an integrated land use, transport and environment model system for Australia
- development of a behavioural system of stated choice models: modelling behavioural, pricing and technological opportunities to reduce automobile energy levels
- emerging business models: the impact on logistics
- exploring behavioural responses of motorists to exposure-based charging mechanisms
- integrating accident and travel delay externalities in an urban speed reduction context
- is the traditional supply chain adequate to the changes of the twenty first century?
- long-range monitoring of travel behaviour change programs for the NTBCP
- modelling the environmental impacts of commercial vehicle tours and freight management policies in urban areas
- Ohio GPS household travel survey
- pick-up and delivery service routing with total route time restriction for heterogeneous truck fleet
- policy implications based on customer preferences for end of life product recycling: a stated preference application for reverse logistics
- port choice: an ocean liner's perspective
- public transport peak spreading
- road transport and climate change: stepping off the greenhouse gas
- social exclusion and the value of mobility



Professor Peter Stopher, Professor of Transport Planning

PIONEERING THE USE OF GPS TO MEASURE PERSONAL TRAVEL

Professor Peter Stopher's earliest work was in developing a logit model to model travel choice behaviour, a method that has become standard throughout the world.

His current work focuses on activity-based modelling of travel behaviour and the use of multi-day data from GPS surveys to explore new paradigms for such models. He is also researching the stability of travel time and travel cost expenditures from multi-day and multi-period data.

In the area of data collection, Professor Stopher pioneered the development of travel and activity diaries as data-collection mechanisms, and has written extensively on issues of sample design, data expansion, non-response biases and measurement issues. He recently completed a report on standardising household travel surveys for the US

National Academies of Science and Engineering, and will shortly publish a book through Cambridge University Press on survey methodology.

For the past nine years, Professor Stopher has been pioneering the use of GPS devices to measure personal travel. He is recognised as a world leader in the application of GPS technology in travel measurement, and is currently managing research projects in Australia and the US that use GPS as the sole means of measuring travel behaviour.

Professor Stopher's work in surveys was recently recognised in China, with his appointment as Honorary Professor to the Beijing Transportation Research Center, a think tank of the Beijing Municipal Government that is responsible for handling travel surveys in Beijing, among other roles.

COMPETITIVE RESEARCH GRANTS

RECIPIENT(S)	GRANT	PROJECT TITLE
FIGLIOZZI MA AND GREAVES SP	ARC Discovery grant 2008–2010	<i>Modelling the environmental impacts of commercial vehicle tours and freight management policies in urban areas</i>
HENSHER DA AND STOPHER PR	ARC Discovery grant 2007–2009	<i>Development of a behavioural system of stated choice models: modelling behavioural, pricing and technological opportunities to reduce automobile energy levels</i>
HENSHER DA	ARC Discovery grant 2007–2009	<i>Integrating accident and travel delay externalities in an urban speed-reduction context</i>
HOWARD K, JAN S, CASS A, ROSE J AND CHADBAN SJ	ARC Discovery grant 2009–2011	<i>Community preferences for organ donation and allocation in Australia</i>
STOPHER PR	ARC Discovery Grant 2007–2009	<i>Developing tour-based models for an integrated land use, transport and environment Model system for Australia</i>
HENSHER DA, STOPHER PR, GREAVES SP AND WHELAN RW	ARC Linkage grant 2007–2009. Partner organisation: AAMI Ltd.	<i>Exploring behavioural responses of motorists to exposure-based charging mechanisms</i>
LETCHER RA, GRAHAM D AND HENSHER DA	ARC Linkage grant 2006–2009. Partner organisation: ActewAGL.	<i>Assessing willingness to pay for urban water, wastewater, gas and electricity delivery service standards</i>

BOOK CHAPTERS (2009)

AUTHOR(S)	CHAPTER	BOOK
GREAVES, SP	'Development and application of a strategic modelling tool for the evaluation of air pollution mitigation strategies for urban freight in Sydney'	<i>Urban Transport XV: Urban transport and the environment</i> , ed. Brebbia, C.A., WIT Press, Southampton, United Kingdom, pp. 529–40.
HENSHER, DA, ROSE, JM AND PUCKETT, SM	'Selective developments in choice analysis and a reminder about the dimensionality of behavioral analysis'	<i>The expanding sphere of travel behaviour research: Selected papers from the 11th International Conference on Travel Behaviour Research</i> , eds. Kitamura, R., Yoshii T. and Yamamoto, T., Emerald Group Publishing Limited, Bingley, United Kingdom, pp. 237–76.
KEMFERT, C AND TRUONG, T	'Energy–economy–environment modelling: a survey'	<i>International handbook on the economics of energy</i> , eds. Evans J. and Hunt, L., Edward Elgar, Cheltenham, United Kingdom, pp. 367–82.
PUCKETT, SM AND HENSHER, DA	'Modelling interdependent behaviour as a sequentially administered stated choice experiment: Analysis of variable user charging and agent influence in freight distribution chains'	<i>The expanding sphere of travel behaviour research: Selected papers from the 11th International Conference on Travel Behaviour Research</i> , eds. Kitamura, R., Yoshii T. and Yamamoto, T., Emerald Group Publishing Limited, Bingley, United Kingdom, pp. 539–70.
STOPHER, PR	'The travel survey toolkit: Where to from here?'	<i>Transport survey methods: Keeping up with a changing world</i> , eds. Bonnel, P., Lee-Gosselin, M., Zmud J. & Madre, J.-L., Emerald Group Publishing Limited, London, United Kingdom, pp. 15–46.
STOPHER, PR	'Collecting and processing data from mobile technologies'	<i>Transport survey methods: Keeping up with a changing world</i> , eds. Bonnel, P., Lee-Gosselin, M., Zmud, J. & Madre, J.-L., Emerald Group Publishing Limited, London, United Kingdom, pp. 361–91.

JOURNAL ARTICLES (2009)

AUTHOR(S)	ARTICLE	PUBLICATION
ADITJANDRA, P T, MULLEY, C AND NELSON, JD	'Extent to which sustainable travel to work can be explained by neighbourhood design characteristics'	<i>Transportation Research Record</i> , vol. 2134, pp. 114–22.
ADITJANDRA, PT, MULLEY, C AND NELSON, J D	'Neighbourhood design impact on travel behaviour: A comparison of US and UK experience'	<i>Projections: MIT Journal of Planning</i> , vol. 9 – Planning for sustainable transportation: an international perspective, pp. 29–56.
BEHARRY-BORG, N, HENSHER, DA AND SCARPA, R	'An analytical framework for joint vs separate decisions by couples in choice experiments: The case of coastal water quality in Tobago'	<i>Environmental and Resource Economics</i> , vol. 43, no. 1, pp. 95–117.
BLIEMER, M, ROSE, JM AND HENSHER, DA	'Efficient stated choice experiments for estimating nested logit models'	<i>Transportation Research Part B: Methodological</i> , vol. 43, no. 1, pp. 19–35.
CLEMENT, F, ORANGE, D, WILLIAMS, M, MULLEY, C AND EPPRECHT, M	'Drivers of afforestation in northern Vietnam: Assessing local variations using geographically weighted regression'	<i>Applied Geography</i> , vol. 29, no. 4, pp. 561–76.
CURRIE, G, RICHARDSON, T, SMYTH, P, VELLA-BRODRICK, D, HINE, J, LUCAS, K, STANLEY, J, MORRIS, J, KINNENAR, R AND STANLEY, J	'Investigating links between transport disadvantage, social exclusion and well-being in Melbourne: Preliminary results'	<i>Transport Policy</i> , vol. 16, no. 3, pp. 97–105.

JOURNAL ARTICLES (2009)

AUTHOR(S)	ARTICLE	PUBLICATION
DEL MISTRO, R AND HENSHER, DA	'Upgrading informal settlements in South Africa: Policy, rhetoric and what residents really value'	<i>Housing Studies</i> , vol. 24, no. 3, pp. 333–54.
HENSHER, DA AND ROSE, JM	'Simplifying choice through attribute preservation or non-attendance: Implications for willingness to pay'	<i>Transportation Research Part E: Logistics and Transportation Review</i> , vol. 45, no. 4, pp. 583–90.
HENSHER, DA AND ROSE, JM	'Toll product preferences and implications for alternative payment options and going cashless'	<i>Transportation</i> , vol. 36, no. 2, pp. 131–45.
HENSHER, DA, ROSE, JM, DE DIOS ORTUZAR, J AND RIZZI, LI	'Estimating the willingness to pay and value of risk reduction for car occupants in the road environment'	<i>Transportation Research Part A: Policy and Practice</i> , vol. 43, no. 7, pp. 692–707.
HENSHER, DA AND STANLEY, J	'What if petrol increased to \$10 per litre in Melbourne? Implications on travel behaviour and public transport demand'	<i>Road and Transport Research</i> , vol. 18, no. 3, pp. 61–8.
HESS, S AND ROSE, JM	'Allowing for intra-respondent variations in coefficients estimated on repeated choice data'	<i>Transportation Research Part B: Methodological</i> , vol. 43, no. 6, pp. 708–19.
HESS, S AND ROSE, JM	'Should reference alternatives in pivot design SC surveys be treated differently?'	<i>Environmental and Resource Economics</i> , vol. 42, no. 3, pp. 297–317.
LI, Z AND HENSHER, DA	'Road freight demand in Australia: Key drivers and forecasts'	<i>Road & Transport Research</i> , vol. 18, no. 2, pp. 15–26.
LOADER, C AND STANLEY, J	'Growing patronage and addressing transport disadvantage: The Melbourne experience'	<i>Transport Policy</i> , vol. 16, no. 3, pp. 106–14.
MULLEY, C AND NELSON, JD	'Flexible transport services: A new market opportunity for public transport'	<i>Research in Transportation Economics</i> , vol. 25, no. 1, pp. 39–45.
PINJARI, AR, BHAT, CR AND HENSHER, DA	'Residential self-selection effects in an activity time-use behavior model'	<i>Transportation Research Part B: Methodological</i> , vol. 43, no. 7, pp. 729–48.
PUCKETT, SM AND HENSHER, DA	'Revealing the extent of process heterogeneity in choice analysis: An empirical assessment'	<i>Transportation Research Part A: Policy and Practice</i> , vol. 43, no. 2, pp. 117–26.
ROSE, JM AND BLIEMER, M	'Constructing efficient stated choice experimental designs'	<i>Transport Reviews</i> , vol. 29, no. 5, pp. 587–617.
ROSE, JM AND HESS, S	'Dual-response choices in pivoted stated choice experiments'	<i>Transportation Research Record</i> , vol. 2135, pp. 25–33.
ROSE, JM, HENSHER, DA, CAUSSADE, S, DE DIOS ORTUZAR, J AND JOU, R-C	'Identifying differences in willingness to pay due to dimensionality in stated choice experiments: A cross-country analysis'	<i>Journal of Transport Geography</i> , vol. 17, no. 1, pp. 21–9.
SCARPA, R, GILBRIDE, TJ, CAMPBELL, D AND HENSHER, DA	'Modelling attribute non-attendance in choice experiments for rural landscape valuation'	<i>European Review of Agricultural Economics</i> , vol. 36, no. 2, pp. 151–74.
STANLEY, J AND HENSHER, DA	'Policy forum: Urban transport - Urban transport in Australia: Has it reached breaking point?'	<i>The Australian Economic Review</i> , vol. 42, no. 2, pp. 190–200.
STOPHER, PR, CLIFFORD, E, SWANN, N AND ZHANG, Y	'Evaluating voluntary travel behaviour change: Suggested guidelines and case studies'	<i>Transport Policy</i> , vol. 16, no. 6, pp. 315–24.
WALTERS, D	'Understand the value chain network, understand the market, understand the industry and understand the customer'	<i>Journal of Transport and Supply Chain Management</i> , vol. 3, no. 1, pp. 96–119.

CONFERENCE PROCEEDINGS (2009)

AUTHOR(S)	TITLE	CONFERENCE
BAIN, S AND HENSHER, DA	'Developing disaggregate transport prediction models from aggregate survey data'	32nd Australasian Transport Research Forum ATRF 2009, Auckland, New Zealand, 29 September–1 October.
COLLINS, A, ROSE, JM AND HESS, S	'Search based internet surveys: Airline stated choice'	88th Transportation Research Board Annual Meeting TRB 2009, Washington, D.C., United States, 11–15 January.
GREAVES, SP	'A strategic-level modelling tool for evaluating air quality and greenhouse gas mitigation strategies for urban road freight in Sydney'	Transportation, Land Use, Planning, and Air Quality: Selected Papers of the Transportation, Land Use, Planning, and Air Quality Conference 2009, Centennial, United States, 28–29 July.
GREAVES, SP, FIFER, S, ELLISON, R, ZHANG, Y AND GERMANOS, G	'Development of a GPS/GPRS prompted-recall solution for longitudinal driving behaviour studies'	32nd Australasian Transport Research Forum ATRF 2009, Auckland, New Zealand, 29 September–1 October.
MOUTOU, C	'Car parking matters to small retailers: An historical case study of three town centres in Marrickville'	Proceedings of the First Academic Association of Historians in Australian and New Zealand Business Schools AAHANZBS Conference 2009, Sydney, Australia, 14–15 December.
MULLEY, C AND TANNER, M	'The vehicle kilometres travelled (VKT) by private car: A spatial analysis using geographically weighted regression'	32nd Australasian Transport Research Forum ATRF 2009, Auckland, New Zealand, 29 September–1 October.
MULLEY, C	'Passenger transport in the UK 1920–50: The drive for 'co-ordination' of transport modes'	Proceedings of the First Academic Association of Historians in Australian and New Zealand Business Schools AAHANZBS Conference 2009, University of Sydney, Australia, 14–15 December.
ORON, D, SZE, SN AND NG, A	'Improved two-stage heuristic for the in-flight catering delivery problem with time windows'	Proceedings of the 10th Asia Pacific Industrial Engineering and Management Systems Conference APIEMS 2009, Kitakyushu, Japan, 14–16 December.
WASHINGTON, S, RAVULAPARTHY, S, ROSE, JM, HENSHER, DA AND PENDYALA, R	'Bayesian imputation of non-chosen attribute values in revealed preference surveys'	88th Transportation Research Board Annual Meeting TRB 2009, Washington, D.C., United States, 11–15 January.
WIN, A AND POESCHL, KG	'Value chain factors influencing choice of bottling location in the wine industry'	Inaugural Wine Business Research Symposium 2009, Newcastle, Australia, 7–8 December.

JOURNAL AFFILIATIONS

FACULTY MEMBER	POSITION	PUBLICATION
HENSHER, D	Volume Editor Area Editor Commissioned Editor Member of editorial advisory Board Member of editorial board	Pergamon/Elsevier Handbooks in Transport <i>Transport Reviews</i> (UK); <i>Major Works in Transport Economics</i> , Routledge (UK); <i>International Journal of Transport Economics</i> (Italy); <i>Journal of Asian Pacific Transport</i> ; <i>Journal of Choice Modelling</i> ; <i>Journal of Transport and Land Use</i> ; <i>Journal of Transport and Supply Chain Management</i> ; <i>Transportation (the Netherlands)</i> ; <i>Cooperative Transportation Dynamics</i> (Germany); <i>Journal of Retailing and Consumer Services</i> (UK); <i>Journal of Transport Economics and Policy</i> (UK); <i>Journal of Transport Planning and Technology</i> (UK); <i>Major Works in Transport Economics</i> ; <i>Transport Policy</i> (UK); <i>Transportation Research Part A: Policy and Practice</i> (UK); <i>Transportation Research Part E: Logistics and Transportation Review</i> (UK)
MULLEY, C	Member of editorial board	<i>Journal of Transport History</i>
PUCKETT, SM	Editor	<i>Journal of Logistics and Sustainable Transport</i>
ROSE, J	Chief Founding Editor	<i>Journal of Choice Modelling</i>
STOPHER, PR	Area Editor Member of editorial board	<i>Transport Reviews</i> ; <i>Journal of Transport and Land Use</i> ; <i>Transport Policy</i> (UK); <i>Transport Reviews</i> (UK); <i>Transportation Letters</i> ; <i>Transportation Research Part A: Policy and Practice</i> (UK)
STANLEY, J	Member of advisory board	<i>Competition and Regulation in Network Industries</i>
WALTERS, D	Regional Editor	<i>International Journal of Physical Distribution and Logistics Management</i>

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