

# ITLS CURRICULUM VITAE

## Personal details

Professor Peter R. Stopher

Professor of Transport Planning, Institute of Transport and Logistics Studies, The University of Sydney

B.Sc. (Eng.) (Hons) University of London (1964); Ph.D. (Traffic Studies) University of London (1967)

Prof. 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 B.Sc. (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 42 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.

## Current PhD Students

Ali Shahi, In progress

Joe Fai Poon, In progress

Qingjian Jiang: In progress

Qian Liu: In progress

Jaafar Zamhari: In progress

Wafaa Dabbas: *Modelling Vehicle Emissions from an Urban Air-Quality Perspective: Testing Vehicle Emissions Interdependencies*, The University of Sydney (under emendation)

Past PhD Students include:

Stephen Greaves: *Simulating Household Travel Survey Data in Metropolitan Areas*, Louisiana State University, December 2000.

James Stoner: Northwestern University, 1980.

Yong Chang: *The Perceived Attributes of Travel Modes for Urban Work Trips*, Northwestern University, December 1979.

Joseph Prashkar: *Development of a Reliability of Travel Modes Variable for Mode-Choice Models*, Northwestern University, June 1977.

Gokmen Ergun: *Effects of Personality on Recreational Travel Behavior*, Northwestern University, August 1979.

Gregory Nicolaidis: *Quantification of the Comfort Variable. An Application of Multidimensional Scaling Techniques: Use in a Binary Disaggregate Mode Choice Model*, Cornell University, August 1973.

Bruce Spear: *The Development of a Generalized Convenience Variable for Models of Mode Choice*, Cornell University, January 1974.

Antti Talvitie: Northwestern University, 1970

Yehuda Gur: Northwestern University, 1970.

## **Research**

### **Projects (since 1995 only)**

#### ***Urban Network Travel Demand Evaluation and Forecasting (Principal Investigator)***

- June 1995 – October 1998
- US\$230,000
- Louisiana Department of Transportation and Development

The purpose of this research was to provide education to the State of Louisiana and its metropolitan areas on the theory and principles of transportation planning, to train personnel in the use of a software called TRANPLAN, to develop base year and forecast highway networks for each metropolitan area in the state, in a format for input to TRANPLAN, and to develop within TRANPLAN the capacity to undertake the types of analyses required by current federal legislation. A manual and short courses were developed to provide the training and education. Standards were developed for the networks, and networks were developed for each metropolitan area. New models were developed and applied within TRANPLAN.

#### ***Cost Effective Data Collection in Louisiana (Co-Principal Investigator)***

- June 1997 – April 2000
- US\$167,000
- Louisiana Department of Transportation and Development

The purpose of this research was to identify cost-effective methods to accumulate data for metropolitan transportation planning in Louisiana. The research was directed at making maximum use of existing data sources, investigating the transferability of data to metropolitan areas in Louisiana, considering the use of small local samples to update transferred or outdated local data, and investigating the potential of GPS equipment to collect travel-related data. Three research thrusts were conducted to investigate the potential of improving the efficiency of collecting local data. First, stratified sampling of

households to improve the homogeneity of the data in strata was investigated. Second, a new form of time-use diary using a day planner type format was developed and tested. Third, GPS devices were used to record auto travel. All three tactics appeared to improve the efficiency of collecting local data.

***Simulating Household Travel Survey Data in Metropolitan Areas (Principal Investigator)***

- November 1998 – April 2000
- US\$31,700
- US Department of Transportation

The purpose of this project was to develop a method for simulating household travel survey data, using Monte Carlo simulation from distributions characterising travel behaviour, and using demographic data from a census of the population, and to test the simulation on two urban areas. The two urban areas chosen for the test were Salt Lake City and Dallas-Fort Worth. The project showed that the household travel statistics of the chosen areas could be adequately replicated by the simulation.

***Standardised Procedures for Personal Travel Surveys (Principal Investigator)***

- March 2000 – January 2005
- US\$ 185,000 – ITLS portion US\$ 85,000
- National Cooperative Highway Research Program of the U.S. National Academy of Sciences/National Academy of Engineering

The objectives of this NCHRP project were to develop objective standards that would lead to an overall increase in the quality and reliability of transport surveys performed at household and person levels, and also improve the comparability between surveys. These standards will provide guidance on how to select cost effective survey methods, how to implement the survey itself, how to analyse the results, and how to report measures that allow the assessment of the quality of the data. By establishing consistent and objective standards, comparability of data from place to place and time to time will be enhanced. The reliability of the data will be increased, and doubts as to the applicability of data should be able to be removed. It was also an objective of this research to identify the costs and tradeoffs for the procedures and assessment measures that were identified in this research, and to establish whether specific procedures and assessment measures are worthwhile to introduce as standards. Phase I of the project, involving the identification of opportunities for standards and guidelines, development of a classification of those opportunities, and development of a scope of work for Phase II implementation, has been completed, and an interim report was submitted to NCHRP. The draft final report is currently being reviewed by the NCHRP Panel. The project was completed in early 2005.

***Exploring Application of a Procedure for Simulating Household Travel Data in Australia (Principal Investigator)***

- January 2001 – December 2001
- \$10,000
- Sesqui Grants Program, University of Sydney)

The objective of this project was to determine whether the travel characteristics distributions from the NPTS in the United States are transferable to the Australian context, or whether it will be necessary to find data sources within Australia to develop new distributions. This research tested the extent to which the census data in Australia from the 1 percent unit record data would permit a similar procedure of sampling to be performed to what had been done previously in the USA. The research reported success in transferring the distributions to Australia, and also in using the ABS census data available in the Household Sample File.

***Using GPS To Validate the Sydney Household Travel Survey (Principal Investigator)***

- October 2001 – December 2004
- \$200,000
- NSW Roads and Traffic Authority

In conjunction with the 2003/2004 Household Travel Survey (HTS), ITLS conducted a GPS Study to collect data to provide information about under-reporting of travel activities in household travel surveys and to benchmark the HTS. This project compared the results from the HTS data and the data recorded from the GPS devices, and analysed the characteristics of trips missed by the HTS diary, the level of under-reporting and over-reporting of travel time and distance, and the degree of accuracy in reporting start and end times of trips in the HTS diaries. The results from the analysis demonstrate that the Household Travel Survey has produced a high level of accuracy in the data reported, especially when compared with other survey methods, such as Computer Assisted Telephone Interviews (CATI). However, an under-reporting trip rate of about 7 percent has been found. Respondents were also found to over-report both travel distances and travel times. This clearly shows the advantages of the GPS technology and demonstrates that GPS can be used successfully to supplement a travel diary survey. Based on the findings, we recommend future research using this advanced technology, which may focus on the use of correction factors obtained from this technology to expand sample statistics to the wider population.

***Time-Use Survey (Principal Investigator)***

- January 2002 to July 2002
- \$25,000
- Bureau of Transport and Regional Economics and Transport SA

In addition to obtaining information about travel activity, time use surveys provide rich data on how people spend their time *between* travel and therefore have enormous value not just in terms of transport planning but also for planning and delivering public services, leisure facilities and telecommunications services. This project aimed to assess the feasibility of conducting a time use research project in Australia's major cities. To complete the design of the survey instrument required and incorporate the use of geo-positioning technology in association with it, there is need to undertake a testing and design process that is not currently funded

***Warringah Options Study (Co-Principal Investigator)***

- April 2002 – January 2003
- \$27,500
- Bureau of Transport and Regional Economics, Canberra

The purpose of this project was to evaluate alternative options for upgrading the Spit Bridge crossing of the Middle Harbour. ITLS worked with the Bureau of Transport and Regional Economics to study several tolled tunnel options and a high bridge option for replacement of the Spit Bridge. ITLS undertook a large number of GPS runs to determine average travel speeds on routes feeding into Spit Bridge and then used the TRESIS software package to estimate the consequences of the different options. The project indicated that one of the tolled tunnel options was financially feasible.

***Development of a Dynamic Transport Planning Tool for Emergency Evacuations under Australian Conditions (Principal Investigator)***

- December 2002 to October 2003
- \$44,000
- Emergency Management Australia

This project focused on the development of a dynamic model of evacuation behaviour that indicates the proportion of the population that would evacuate within various time ranges, as well as those that would not evacuate. Little work has previously been done on the two way movement of traffic during evacuations, e.g. bush fire strategy, where householders evacuate or stay and fight, and emergency services arrive. Using Stated Choice Methods, we develop a choice model showing the probability of a household evacuating within various time periods.

***TravelSmart “Households on the Move”, Travel Behaviour Change Pilot Project, Canberra (Principal Investigator)***

- November 2003 to November 2004
- \$25,000
- ACT Planning and Land Authority

TravelSmart, a program that provides households with travel information, was made available to Canberra households about to move or which had recently moved to another suburb. The hypothesis tested was whether providing travel information to these households prevented households from redeveloping old travel habits that previously resulted in lengthy and unnecessary car trips. The key statistic measured was vehicle kilometres travelled. This project was the first of its kind in terms of assessing households' travel behaviour after they relocate to another suburb/area. ITLS was involved in the evaluation of the results received from a GPS survey and 2-day travel diary.

***NEVE GPS Performance and Comparison Trials (Principal Investigator)***

- March 2004 – June 2004
- \$14,000
- NEVE-ITS Pty Ltd.

This project was to run side-by-side trials of a new GPS device with inertial /Dead Reckoning systems, against a competitive device and alongside one of the GPS devices that ITLS had been using for the past year or so. We ran tests by driving an equipped vehicle through a number of routes that included tunnels, urban canyons, peak hour traffic and off-peak traffic, and other conditions that may affect the recording of position. We found and reported several problems with the NEVE device. The testing was completed successfully.

***Evaluation of a Pilot Implementation of TravelSmart Households in NSW (Principal Investigator)***

- May 2004 – February 2006
- \$140,000
- NSW Department of Planning (Formerly the Department for Infrastructure, Planning and Natural Resources) - ITLS subcontracted to Steer Davies Gleave

The purpose of this study was to establish, through a pilot study, the effectiveness of TravelSmart implementation in NSW. TravelSmart is a voluntary travel behaviour modification program, where conversationalists have discussions with households about alternative ways to satisfy out-of-home needs, including ways to reduce solo car driving, use of alternative travel modes, and reduction of overall travel. People are provided with relevant information that may be used to save households time, money, increase health benefits, as well as to reduce greenhouse gas emissions. The aim of the evaluation was to measure whether or not there were detectable changes in the amount (no. of kms, no. of trips) of travel as a result of TravelSmart, and whether or not there were detectable changes in the use distribution of travel (of solo car, car passenger, public transport, walking, or bicycling). The 'before' survey was conducted in May 2004, prior to TravelSmart tools being distributed, and the 'after' survey of the same panel of households in March 2005 to measure the effectiveness of the initiative. Measurements were taken of modes of travel, trip purposes, and the number of trips. Additionally, odometer readings were collected from panel households, to provide an estimate of vehicle kilometres of travel for each of the before and after periods. Each survey was conducted over a two day period per household.

***Long-Range Monitoring of Travel Behaviour Change (Co-Principal Investigator)***

- June 2004 – December 2004
- \$52,949
- National Travel Behaviour Change Program Partners, through Department of Transport, Queensland

As part of the program of strategies to reduce the emission of greenhouse gases in Australia, the South Australian, Victorian, Queensland and ACT governments have joined together in partnership with the Australian Greenhouse Office to undertake a program of voluntary travel behaviour change (VTBC) strategies, the purpose of which is to reduce greenhouse gas emissions by encouraging environmentally friendly travel behaviour. ITLS was awarded the opportunity to develop and scope a methodology for the long range monitoring program of the VTBC strategies being undertaken by the States. Primarily, the task for ITLS was to develop survey methods to produce a simple measure of the reduction in vehicle kilometres travelled in each of the member states as a result of the VTBC programs. However,

additional information relating to the nature of household travel would be of great interest to the member states for future planning and development. Developing the monitoring methodology required consideration of a wide range of complex statistical and practical challenges in survey design and administration. ITLS completed the development and scoping of the monitoring methodology in late 2004, providing the project partners with a comprehensive overview of the options available and the options recommended for the purpose.

***Evacuating from Bushfires: Exploring the Use of Visual and Audio Cues in Stated Choice (SC) Experiments (Principal Investigator)***

- November, 2004 to June, 2006 - 18 months
- \$ 19,400
- School of Business, University of Sydney

SP experiments usually provide verbal descriptions of alternatives to respondents from which they have to choose. The verbal descriptions are created by using attributes and specific levels of each attribute. In most applications of SP in transport, the attributes of interest have been such things as travel time, waiting time, fare or toll, unreliability of arrival time, etc. These are abstract concepts for which audio and visual prompts would not be relevant. However, in recent work at ITLS, we have applied SP to determine the likely behaviour of a household in respect of evacuating from a bushfire threat. In conducting focus groups prior to designing the SP experiments, participants suggested that the use of photographs of similar bushfires would be helpful in prompting respondents to recall what a bushfire is really like. A subsequent study looked at the effects of audio and visual prompts on the results of a SP experiment in relation to household bushfire evacuation behaviour. A small sample of households from Terrey Hills and Duffys Forest, in Sydney, was recruited to take part in the study. Computer Assisted Personal Interviewing (CAPI) interviews were conducted whereby respondents were shown a mix of scenarios with verbal descriptions of bushfires, still images of bushfires, and short video clips of bushfires. No significant differences between these conditions were found to impact on SP outcomes.

***TravelSmart Evaluation of Households in the West (Principal Investigator)***

- January 2005 – January 2008
- \$550,000
- South Australian Department of Transport Energy and Infrastructure

ITLS has been selected to undertake a 3-year evaluation of the effects of a variety of transport policy and investment actions by the government of South Australia in a significant portion of Adelaide's western suburbs. This is the first 3-year evaluation of its type to be undertaken in Australia. To implement the evaluation, ITLS established two panels in three Local Government Areas – one to provide odometer readings of all household vehicles every four months, beginning in April 2005, and ending in August 2007; and the other to use personal GPS recording devices for one week each year, in the months of August-September of each of 2005, 2006, and 2007. Based on analysis of the measurement of these two panels, ITLS will be able to determine the extent to which households change their travel behaviour and also whether such changes are sustained in the short term. Of particular interest will be the effects of the project on the amount of travel and the modes of

travel used by panel members over the three-year period. This project marks the first time in which a panel odometer survey and a GPS panel will be used to evaluate transport initiatives. Following the successful completion of pilot studies, ITLS is conducting continuing surveys using both panel odometer surveys of 1000 households and a GPS panel survey of 200 households with an annual survey period of 7 days travel in each wave. The current monitoring of household travel is expected to continue to late 2007.

***Community Perceptions of 'TravelSmart' Behaviour in South Australia (Principal Investigator)***

- March 2005 to July 2005.
- \$ 49,995
- Transport South Australia

Insights from psychology and marketing have recently led to an alternative to information-based behaviour change campaigns, known as community-based social marketing. The key to this approach is the identification of barriers that prevent individuals from engaging in sustainable behaviours, and the implementation of strategies ('tools') specifically targeted at addressing these perceived barriers. The aim of the current study was to contribute to travel behaviour change research by enhancing our understanding of the reasons people choose to engage or not engage in reducing car use. Face to-face interviews were conducted on a sample of 392 individuals from the western Adelaide metropolitan region. The survey instrument utilised various questioning techniques such as open-ended questions, agreement scales (to attitudinal statements), and importance scales, to identify the perceived benefits and barriers to reducing car use among members of this community. The survey was conducted prior to the commencement of the TravelSmart intervention in the western suburbs of the Adelaide metropolitan region. The survey identified 'convenience' and the importance of 'making small changes' as the dominant factors distinguishing those who identify themselves as actively trying to reduce their car use from those who are not currently active in this behaviour. The results obtained from this study suggest the existence of key differences in the priorities of people who are currently active and currently inactive in reducing car use.

***Long Range Monitoring of Voluntary Travel Behaviour Change Initiatives (Principal Investigator)***

- April 2005 – December 2006
- \$343,160
- Australian Department of the Environment and Heritage (Australian Greenhouse Office) and the National Travel Behaviour Change Program Partners

ITLS has devised and tested methods for undertaking a long-range evaluation of the effects of voluntary travel behaviour change initiatives for the Partners in the National Travel Behaviour Change Program (NTBCP). Having evaluated long-term monitoring methods used in non travel applications, ITLS proposed the use of a dual panel approach on a 3 year rotation. This involved a number of Adelaide households providing odometer readings quarterly, as well as a control group of 200 households in Melbourne to test the transferability of this method to other cities. Additionally a panel of 50 other households in

Adelaide were asked to use personal GPS logging devices for a period of one month, bi-annually. A pilot study, with 200 households in the odometer survey, and 2 waves of 50 households in the GPS survey, has now been completed. Analysis of the results has been completed. The results of this study have been used to develop information on the ideal sample size and duration for this type of survey. The Long-Range monitoring period is expected to extend from late 2007 to early 2013. A final report was submitted recommending the use of a GPS panel, but also providing cost and sample size information for an odometer panel.

***Developing a Method for Simulating Trip Tours (Principal Investigator)***

- April 2005 – April 2006
- \$12,500
- School of Business, The University of Sydney

This project was designed to begin analysis of tours in place of individual trips, to improve the household travel survey evaluations that had been developed in previous research by Stopher and Greaves. In this project, we used the latest nationwide travel survey from the US, the 2001 NHTS, and grouped trips into tours. We classified the tours into simple and complex and compiled statistics on the tours. We compared the results of this work to a similar item of research conducted on the nationwide survey in New Zealand, and found comparable results.

***The Costs of Infill versus Greenfield Development Literature Review (Co-Principal Investigator)***

- June, 2005 – November, 2005
- \$ 20,000
- NSW Government – Roads and Traffic Authority

ITLS was commissioned by the Roads and Traffic Authority, NSW (RTA) to review recent evidence of the total community costs of developing infill versus greenfield development, or in other terms, high rise versus sprawl. These cost comparisons included essential infrastructure such as roads, transport, water and sewerage, other infrastructure such as new schools versus underutilised schools, rail etc., and social costs such as comparisons of accident rates, fuel consumption and vehicle emissions. The review found that while there are many comparisons of specific costs such as transportation infrastructure, there are few studies that have attempted to quantify all the costs in a structured and comparable manner.

***The provision of Consultancy Services Advice in Regard to the ACT TravelSmart Project (Principal Investigator)***

- November 2005 to December 2007
- Unspecified
- ACT Planning and Land Authority

ITLS was selected to provide ongoing advice to the ACT Planning and Land Authority during a period of implementation of TravelSmart initiatives in the Canberra area. This advice includes assistance in drafting requests for proposals, reviewing requests for proposals, reviewing work scopes and reviewing reports and other materials, as requested by the ACTPLA. The project is continuing.

***Combined Mode and Route Choice Modelling - Switzerland GPS Travel Surveys (Principal Investigator)***

- November 2005 – August 2006
- \$7,882
- Emch + Berger AG Bern

ITLS leased 50 of its state-of-the-art GPS devices to Emch & Berger (E&B) in Switzerland. These devices were used for travel surveys for up to 200 persons in Berne gathering data on all modes of travel including bicycles. There were about 2,000 car trips and 800 bicycle trips, plus other modes. ITLS processed the data for E&B and mapped the raw GPS data (points) to a transport network and estimated the used routes and additional attributes of the trips such as trip distance, start and end time, travel time, average speed and mode of travel. E&B included some additional questions concerning the usage of the devices to support device testing as well as activity/trip diaries. Data collection and processing are complete and have been returned to the client.

***Simulating Trip Tours – Analysis and Classification (Principal Investigator)***

- November 2005 – November 2006
- \$15,000
- School of Business, The University of Sydney

This was a follow-on project from the earlier one funded by the School of Business, and involved further detailed analysis of the NHTS data set, reclassification of tours, and a decision to group tours into simple and complex, and into mandatory, flexible, and optional. We began exploring the relationships between tours and demographic data, and also to categorise tours in terms of the constituent activities and the duration of the tour.

***Evaluation of the Public Acceptance and Perceptions of Long Range Monitoring of Voluntary Travel Behaviour Change Project (Principal Investigator)***

- Dec 2005 to July 2006
- \$ 20,756 (ex GST)
- Queensland Government (Queensland Transport)

ITLS has pioneered the use of GPS devices to conduct household travel surveys. There are many unknowns about the use of these devices, particularly in respect to public acceptability and of this method of measurement. Response rates have varied among those that have agreed to take GPS devices for a survey. ITLS conducted focus groups amongst survey respondents to determine their reaction to being asked to do a GPS survey, why they may have dropped out, and general comments on the technique.

### ***Freight Movement Model for Melbourne (Co-Principal Investigator)***

- January 2006 to December 2006
- \$ 18,300
- IMIS Integrated Management Information Systems Pty Ltd – as Contractors to the Victorian Department of Infrastructure.

As part of the development of new freight forecasting procedures in Victoria, ITLS was sub-contracted to collect GPS data for a sample of trucks delivering goods in and around the Melbourne region. These data were used to extract several items of information in particular trip origin/destination, route, and time and trip length, using customised GIS programming procedures. The data are among the first publicly-collected data on freight movements in Australia.

### ***Sampling Error for Multi-Day Surveys (Principal Investigator)***

- May 2006 – May 2007
- \$7,000
- School of Business, The University of Sydney

ITLS has amassed a substantial amount of multi-day data, through the use of GPS surveys of up to 28 days duration. An issue that arises with multi-day data is to determine what are the required sample sizes and how to estimate sample statistics, bearing in mind that the observations of one person on multiple days are not independent observations. The project investigated how to compute the intrapersonal variability and covariance, and how to modify the variance of the sample of multi-day observations to correct for the lack of independence in the observations. From this, we will be able to assess needed sample sizes and the sampling errors that will result from multi-day surveys.

### ***Developing Tour Based Models for an Integrated Land Use, Transport and Environment Model System for Australia (Principal Investigator)***

- January 2007 – December 2009
- **2007** : \$62,000
- **2008** : \$66,000
- **2009** : \$79,000
- ARC

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.

***Exploring Behavioural Responses of Motorists to Exposure-Based Charging Mechanisms (with Prof. D. Hensher and Dr. S. Greaves)***

- January 2007 – December 2009
- 2007 : \$95,000
- 2008 : \$100,000
- 2009 : \$35,000
- ARC

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.

***Long-Range Monitoring of Travel Behaviour Change Programs for the NTBCP (Principal Investigator)***

- November 2007 – March 2013
- 2007 : \$70,420
- 2008 : \$62,350
- 2009 : \$86,653
- 2010: \$89,525
- 2011: \$92,582
- 2012: \$90,168
- 2013: \$27,075
- Queensland Transport

Following on 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.

***Pilot Validation of the VISTA2007 Household Travel Survey by GPS (Principal Investigator)***

- April 2007 – March 2008
- 2007 : \$15,264
- PlanTrans Pty Ltd.

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.

***Community Perception After Survey (Principal Investigator)***

- November 2007 – April 2008
- \$90,090
- South Australia Department of Transport, Energy, and Infrastructure

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.

***Tools Effectiveness Evaluation (Principal Investigator)***

- March 2008 – September 2008
- \$96,100
- 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.

***Ohio GPS Household Travel Survey (Principal Investigator)***

- September 2008 – January 2011
- 2008 – \$ 30,000
- 2009 – \$200,850
- 2010 – \$ 12,800

- 2011 – \$ 16,800
- Ohio Department of Transportation, Ohio, USA via Abt/SRBI.

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 subsample 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.

### **Awards**

- Date: 1964
- Name of award: RB Hounsfeld Prize in Traffic Engineering
- Awarding body: University College, London
- Prize (where relevant): Monetary prize
  
- Date: 1964, 1965, 1966
- Name of Award: RB Hounsfeld Scholarship in Traffic Engineering
- Awarding Body: University College London
- Prize: Scholarship for PhD Study
  
- Date: 1969
- Name of Award: Fred Burggraf Award
- Awarding Body: Highway Research Board, National Academy of Sciences/National Academy of Engineering, USA
- Prize: Monetary and Certificate
  
- Date: 1992
- Jules Dupuit Prize
- Awarding Body: World Conference on Transport Research
- Prize: Monetary and Certificate
  
- Date: 1994
- Intermodal Research Prize
- US Transportation Research Forum (with others)
- Prize: Monetary and Plaque

## Publications

### Refereed publications

#### > Published

**1967**

#### *Books*

Stopher, P.R. (1967). *Choice of Mode of Travel for the Journey to Work*, Ph.D. Dissertation, University of London, November 1967.

**1968**

#### *Journal Articles*

Stopher, P.R. (1968). Predicting Travel Mode Choice for the Work Journey, *Traffic Engineering and Control*, **9** (9), 436-439.

Stopher, P.R. (1968). Establishing the Policy Principles for Residential Street Parking, *Municipal Engineering*, **145** (20), S983-S984.

**1969**

#### *Journal Articles*

Stopher, P.R. (1969). A Probability Model of Travel Mode Choice for the Work Journey, *Highway Research Record No. 283*, 1969, pp. 57-65.

**1970**

#### *Journal Articles*

Stopher, P.R. and T.E. Lisco (1970). Modeling Travel Demand: A Disaggregate Approach -- Issues and Applications, *Transportation Research Forum Proceedings*, pp. 195-214.

Stopher, P.R. and T.E. Lisco (1970). Discussion of the Value of Time for Commuting Motorists as a Function of Their Income Level and Amount of Time Saved, by T.C. Thomas and G.I. Thompson, *Highway Research Record No. 314*, pp. 15-18.

**1971**

#### *Journal Articles*

Reichman, S. and P.R. Stopher (1971). Towards Disaggregate Stochastic Models of Travel Mode Choice, *Highway Research Record No. 369*, pp.91-103.

**1972**

*Journal Articles*

Stopher, P.R. and J.O. Lavender (1972). Disaggregate Behavioral Models: Empirical Tests of Three Hypotheses, *Transportation Research Forum Proceedings*, pp. 321-336.

**1973**

*Journal Articles*

Stopher, P.R. and A.H. Meyburg (1973). User and Nonuser Perceptions of a Small Urban Area Bus System: An Exploratory Investigation, *Transportation Research Forum Proceedings*, pp. 539-552.

Meyburg, A.H. and P.R. Stopher (1973). Towards Trip Attraction Models for Freight Vehicle Trips to Shopping Plazas, *Transportation Research Forum Proceedings*, pp. 233-242.

**1974**

*Books*

Stopher, P.R. and A.H. Meyburg (editors) (1974). *Behavioral Demand Modeling and the Value of Time*, Transportation Research Board Special Report Number 149.

*Book Chapters*

Stopher, P.R. and A.H. Meyburg (1974). The Effect of Social and Economic Variables on Choice of Travel Mode for the Work Trip, in *Transportation and Traffic Theory*, (edited by D.J. Buckley), A.H. and A.W. Reed, pp. 685-713.

*Journal Articles*

Meyburg, A.H. and P.R. Stopher (1974). A Framework for the Analysis of Demand for Urban Goods Movement, *Highway Research Record No. 496*, pp. 68-79.

Costantino, D.P., T.F. Golob, and P.R. Stopher (1974). Consumer Preferences for Automated Public Transportation Systems, *Transportation Research Record No. 527*, pp. 81-93.

Stopher, P.R., B.D. Spear, and P.O. Sucher (1974). Towards the Development of Measures of Convenience for Travel Modes, *Transportation Research Record No. 527*, pp. 16-32.

Stopher, P.R. and A.H. Meyburg (1974). Travel Demand Estimation: A New Prescription, *Traffic Engineering and Control*, **15** (19), 879-884.

Watson, P.L. and P.R. Stopher (1974). The Effect of Income on the Usage and Valuation of Transport Modes, *Transportation Research Forum Proceedings*, XV (1), 460-469.

Stopher, P.R. (1974). Review of Analytical Transport Planning by R. Lane, P.Prestwood-Smith and T.J. Powell, *Transportation Science*, 8 (1), 79-81.

## 1975

### Books

Stopher, P.R. and A.H. Meyburg, *Urban Transportation Planning and Modeling*, Lexington Books, D.C. Heath and Co., Lexington, Mass., 1975. (Reprinted 5 times).

### Journal Articles

Meyburg, A.H. and P.R. Stopher (1975). Aggregate and Disaggregate Travel Demand Models, *Transportation Engineering Journal of ASCE*, 101 (TE2), 237-245.

Stopher, P.R. (1975). Goodness-of-Fit Measures for Probabilistic Travel Demand Models, *Transportation*, 4 (1), 67-83.

## 1976

### Books

Stopher, P.R. and A.H. Meyburg (1976). *Transportation Systems Evaluation*, Lexington Books, D.C. Heath and Co., Lexington, Mass. (Reprinted twice).

Stopher, P.R. and A.H. Meyburg (editors) (1976). *Behavioral Travel Demand Models*, Lexington Books, D.C. Heath and Co., Lexington, Mass.

### Journal Articles

Stopher, P.R. (1976). Derivation of Value of Time from Travel Demand Models, *Transportation Research Record No. 587*, pp. 12-18.

Stopher, P.R. (1976). Applications of the Value of Travel Time to Economic Evaluations of Alternative Transport Investments, *Transportation Research Record No. 587*, pp. 19-23.

Reichman, S. and P.R. Stopher (1976). Applications of the Value of Travel Time to Travel Demand Estimation, *Transportation Research Record No. 587*, pp. 6-11.

Meyburg, A.H. and P.R. Stopher (1976). Urban Goods Movement: A Study Design, *Transportation Engineering Journal of ASCE*, 102 (TE4), 651-664.

Stopher, P.R. and J.N. Prashker (1976). Intercity Passenger Forecasting: The Use of Current Travel Forecasting Procedures, *Transportation Research Forum Proceedings*, XVII (1), 66-75.

Pfefer, R.C. and P.R. Stopher (1976). Transit Planning in a Small Community: A Case Study, *Transportation Research Record No. 608*, pp. 32-41.

*Conference Papers (Refereed)*

Stopher, P.R. and J.R. Hauser (1976). Choosing an Objective Function Based on Modeling Consumer Perception and Preferences, *Proceedings on Systems, Man, and Cybernetics*, November.

**1977**

*Journal Articles*

Stopher, P.R. (1977) On the Application of Psychological Measurement Techniques to the Estimation of Travel Demand, *Environment and Behavior*, **9** (1), 67-80.

Stopher, P.R. (1977). Towards Market Segmentation in Destination Choice, *Transportation Research Record No. 649*, pp. 14-22.

Hensher, D.A. and P.R. Stopher (1977). Behavioural Travel Modelling: Conference Report, *Traffic Engineering and Control*, **18** (6), 319-322.

Hensher, D.A. and P.R. Stopher (1977). Third International Behavioural Travel Modelling Conference, Tanunda April 3-7, 1977, *Australian Road Research*, **7** (3), 40-46.

**1978**

*Journal Articles*

Stopher, P.R. (1978). The Future of Urban Transportation Planning in South Africa, *Ways and Wheels, Journal of the Highways Division of South African Institution of Civil Engineers*, June.

*Conference Papers (Refereed)*

Stopher, P.R. and C.G. Wilmot (1978). Transport Planning in South Africa: Some Comments, *Proceedings of the Conference on Sequel to Driessen: Implementation*, Pretoria, South Africa.

Stopher, P.R. (1978). Probabilistic Modelling Techniques, *Proceedings of the Conference on Sequel to Driessen: Implementation*, Pretoria, South Africa.

**1979**

*Books*

Hensher, D.A. and P.R. Stopher, (editors) (1979). *Behavioural Travel Modelling*, Croom Helm, London.

Stopher, P.R. and A.H. Meyburg (1979). *Survey Sampling and Multivariate Analysis for Social Scientists and Engineers*, Lexington Books, D.C. Heath and Co., Lexington, Mass.

#### *Journal Articles*

Slavik, M.M. and P.R. Stopher (1979). A Note on the Optimum Planning Interval, *Transportation Planning and Technology*, **5** (4), 227-245.

Stopher, P.R. and G. Ergün (1979). Population Segmentation in Urban Recreation Choice, *Transportation Research Record No. 728*, pp. 59-65.

Neveu, A.J., F.S. Koppelman, and P.R. Stopher (1979). Perceptions of Comfort, Convenience and Reliability for the Work Trip, *Transportation Research Record No. 723*, pp. 59-63.

Stopher, P.R. and C.G. Wilmot (1979). Work-Trip, Mode-Choice Models for South Africa, *Transportation Engineering Journal of ASCE*, **105** (TE6), 595-608.

Schofer, J.L. and P.R. Stopher (1979). Specifications for a New Long-Range Urban Transportation Planning Process, *Transportation*, **8** (3), 199-218.

#### *Conference Papers (Refereed)*

Wilmot, C.G. and P.R. Stopher (1979). A Simplified Planning Process for South Africa, *Proceedings of the Joint International Meeting on the Integration of Traffic and Transportation Engineering in Urban Planning*, Tel Aviv.

Stopher, P.R. (1979). Research on Mobility in Urban Life -- A U.S. Viewpoint, *Proceedings of the Conference on Mobility in Urban Life*, Aix-en-Provence, France.

Stopher, P.R. (1979). The Computer in Urban Transport Planning: A Study in Devolution, *Proceedings of the International Conference on Computer Applications in Civil Engineering*, Roorkee, India.

Stopher, P.R. (1979). Preference Models and Destination Choice, *Proceedings of the PTRC Summer Annual Meeting*, University of Warwick, England.

## **1980**

#### *Journal Articles*

Stopher, P.R. (1980). Transferring Urban Transport Planning Methods to Developing Countries, *The Highway Engineer*, Journal of the Institution of Highway Engineers, England, October, pp. 8-14, 33.

## 1981

### *Books*

Stopher, P.R., A.H. Meyburg and W. Brög, (editors) (1981). *New Horizons in Travel-Behavior Research*, Lexington Books, D.C. Heath and Co., Lexington, Mass.

### *Book Chapters*

Stopher, P.R. (1981). Attitudinal Modelling and Measurement in Travel Behaviour: Some Observations, in *Transport and Public Policy Planning* by D. Banister and P. Hall, Mansell, London.

### *Journal Articles*

Chang, Y.B. and P.R. Stopher (1981). Defining the Perceived Attributes of Travel Modes for Urban Work Trips, *Transportation Planning and Technology*, 7 (1), 55-65.

Sheskin, I.M., G.S. Spivack, and P.R. Stopher (1981). The Dade County On-Board Survey, *Transit Journal*, American Public Transit Association, Spring, pp.15-28.

### *Conference Papers (Refereed)*

Stopher, P.R. (1981). Increasing Transit's Share of the Market to Save Energy - Illusion or Reality, *Proceedings of the First IEA Conference on New Energy Conservation Technologies and their Commercialization*, Berlin.

## 1982

### *Journal Articles*

Ergün, G. and P.R. Stopher (1982). The Effects of Personality on Demand for Recreation Activities: Some Preliminary Findings, *Transportation Research*, 16A (1), 55-63.

Stopher, P.R. (1982). Perceptions of Travel Modes: Some Pointers to Public Transit Patronage, *Transportation Policy and Decision Making*, 2, 51-68.

Sheskin, I.M. and P.R. Stopher (1982). Surveillance and Monitoring of a Bus System, *Transportation Research Record No. 862*, pp. 9-15.

Parvataneni, R., P.R. Stopher, and C. Brown (1982). Origin-Destination Travel Survey for Southeast Michigan, *Transportation Research Record No. 886*, pp. 1-8.

Sheskin, I.M. and P.R. Stopher (1982). Pilot Testing of Alternative Administrative Procedures and Survey Instruments, *Transportation Research Record No. 886*, pp. 8-22.

Stopher, P.R. and I.M. Sheskin (1982). Method for Determining and Reducing Nonresponse Bias, *Transportation Research Record No. 886*, pp. 35-41.

Stopher, P.R. (1982). Small-Sample Home-Interview Travel Surveys: Application and Suggested Modifications, *Transportation Research Record No. 886*, pp. 41-47.

Stopher, P.R. and I.M. Sheskin (1982). Toward Improved Collection of 24-Hour Travel Records, *Transportation Research Record No. 891*, pp. 10-17.

## **1983**

### *Journal Articles*

Stopher, P.R. and K.G. MacDonald (1983). Trip Generation by Cross-Classification: An Alternative Methodology, *Transportation Research Record No.944*, pp. 84-91.

MacDonald, K.G. and P.R. Stopher (1983). Some Contrary Indications for the Use of Household Structure in Trip-Generation Analysis, *Transportation Research Record No.944*, pp. 92-100.

Stopher, P.R. (1983). Data Needs and Data Collection – State of the Practice, *Transportation Research Board Special Report No. 201*, pp. 63-71.

## **1984**

### *Journal Articles*

Ohstrom, E.G. and P.R. Stopher (1984). Automobile Occupancy, Vehicle Trips, and Trip Purpose: Some Forecasting Problems, *Transportation Research Record No.987*, pp. 8-13.

Ohstrom, E.G., J.B. Ohstrom, and P.R. Stopher (1984) Successful Administration of a Mailed 24-Hour Travel Diary: A Case Study, *Transportation Research Record No.987*, pp. 14-20.

Stopher, P.R., E.G. Ohstrom, K.D. Kaltenbach, and D.L. Clouse (1984). Logit Mode-Choice Models for Nonwork Trips, *Transportation Research Record No.987*, pp. 75-81.

## **1985**

### *Book Chapters*

Stopher, P.R. and D.M. Banister (1985). Total Design Concepts in *New Survey Methods in Transport*, E.S. Ampt, A.J. Richardson and W, Brög (eds), VNU Science Press, Utrecht, pp. 19-23.

Stopher, P.R. (1985). The Design and Execution of On-Board Bus Surveys: Some Case Studies, in *New Survey Methods in Transport*, E.S. Ampt, A.J. Richardson and W, Brög (eds), VNU Science Press, Utrecht, pp.209-225.

Stopher, P.R., (1985). The State of the Art in Cross-Sectional Surveys in Transportation, in *New Survey Methods in Transport*, E.S. Ampt, A.J. Richardson and W, Brög (eds), VNU Science Press, Utrecht, pp. 55-76.

Brög, W., A.H. Meyburg, P.R. Stopher, and M.J. Wermuth (1985). Collection of Household Travel and Activity Data: Development of an Instrument, in *New Survey Methods in Transport*, E.S. Ampt, A.J. Richardson and W, Brög (eds), VNU Science Press, Utrecht, pp. 151-172

#### *Journal Articles*

Stopher, P.R., W.A. Davidson, L.K. Tamny, and G.S. Spivack (1985). Using Regional Forecasting Models (UTPS) for Detailed Bus Route Analysis, *Transportation Research Record No.1037*, pp.52-58.

Stopher, P.R. (1985). Travel Forecasting Methodology: Transfer of Research into Practice, *Australian Road Research*, **15** (3), 157-162.

#### **1986**

#### *Journal Articles*

Stopher, P.R., L. Shillito, D.T. Grober, and H.M.A. Stopher (1986). On-Board Bus Surveys: No Questions Asked, *Transportation Research Record No.1085*, pp. 50-57.

#### **1987**

#### *Conference Proceedings (Refereed)*

Stopher, P.R. (1987). First-Level Screening of Alternative Rail Routings with a Quick-Response Procedure, *Proceedings of the National Conference on Transportation Planning Applications*, Orlando, Florida, April.

Stopher, P.R. (1987). Sampling Strategies for Small Sample Surveys, *Proceedings of the National Conference on Transportation Planning Applications*, Orlando, Florida, April.

#### **1988**

#### *Journal Articles*

Stopher, P.R. (1988). Privatization of Urban Mass Transportation: A Dissenting Viewpoint, *Proceedings of the Australasian Transportation Research Forum*, Christchurch, New Zealand, July.

Sheskin, I.M. and P.R. Stopher (1988). Spatial Variations in Attitudes Toward Expanded Public Transit Service, *Transportation*, **15**, 211-232.

*Conference Proceedings (Refereed)*

Stopher, P.R. (1988). Value Capture as a Means to Finance a Major Rail Project: The Case Study of Los Angeles, *Proceedings of the INTRA Japan International Conference on Metropolitan Transport*, Nagoya, Japan, October.

**1989**

*Conference Papers (Refereed)*

Stopher, P.R. (1989). Benefit Assessment in the Los Angeles Subway Project, *Proceedings of the Fifth World Conference on Transport Research*, Yokohama, Japan, July.

**1990**

*Conference Papers (Refereed)*

Stopher, P.R. (1990). Origin-Destination Surveys: Sampling and Combining Data from Different Sources, *Fifth DVWG Workshop on Transportation Statistics*, Heilbronn, Germany, September.

**1991**

*Conference Papers (Refereed)*

Stopher, P.R. and G.S. Spivack (1991). Passenger Transport Futures - Quo Vadis?, *Second International Conference on Privatization and Deregulation of Passenger Transportation*, Tampere, Finland, June.

Stopher, P.R. (1991). Life Styles and Values: Non-Capital and Non-Transport Alternatives, *Invited Keynote Paper, Second International Conference on Privatization and Deregulation of Passenger Transportation*, Tampere, Finland, June.

Stopher, P.R. and G.S. Spivack (1991). Piecemeal Privatization of Public Transportation: Is This the Way to Run a Bus Operation? *33rd. Annual Forum of the Transportation Research Forum*, New Orleans, Louisiana, October.

Stopher, P.R. (1991). Conventional Wisdom in Building Mode-Choice Models: Some Fallacies and Other Myths, *33rd. Annual Forum of the Transportation Research Forum*, New Orleans, Louisiana, October.

1992

*Journal Articles*

Stopher, P.R. (1992). Development of a Route-Level Patronage Forecasting Method, *Transportation*, **19**, 201-220. (Presented to the Third National Conference on Transportation Planning Methodology Applications, Dallas, Texas, April 1991.)

Stopher, P.R. (1992). Use of an Activity-Based Diary to Collect Household Travel Data, *Transportation*, **19**, 159-176. (Presented to the Third National Conference on Transportation Planning Methodology Applications, Dallas, Texas, April 1991; and selected as one of the five best papers from that conference and presented to the Annual Meeting of the Transportation Research Board, January 1992.)

*Conference Papers (refereed)*

Stopher, P.R. and S.M. Mulhall (1992). Route-Level Patronage Forecasting Methods -- A Survey of Transit Operators, Paper presented to the Transportation Research Board Annual Meeting, January.

Stopher, P.R. (1992). The Case of the Station with No Riders, Paper Presented to the Transportation Research Board Annual Meeting, January.

Stopher, P.R. (1992). Deficiencies in Travel Forecasting Procedures Relative to the 1990 Clean Air Act Amendment Requirements, Paper presented to the Transportation Research Board Annual Meeting, January.

Stopher, P.R. (1992). The Application of Probability Theory to Analyzing On-Board Transit Surveys, Paper presented to the 7th Conference of the Road Engineering Association of Asia, Singapore, June.

Stopher, P.R. (1992). The Impact of Capacity Increases on Congestion, Paper presented to the 7th Conference of the Road Engineering Association of Asia, Singapore, June.

Stopher, P.R. (1992). Financing Transportation Investments in the United States -- Past Practice and Current Trends, Paper presented to the 5th World Conference on Transport Research, Lyon, France, June.

Stopher, P.R. (1992). Transferring Mode-Choice Models in the Absence of Calibration Data, Paper presented to the 5th World Conference on Transport Research, Lyon, France, June.

Stopher, P.R. (1992). Networks, Paths, and Mode-Choice Calibration, Paper presented to the 5th World Conference on Transport Research, Lyon, France, June.

Stopher, P.R. (1992). Research in Intermodal Modeling - Some Initial Thoughts, Paper invited for the Intermodal Modeling Symposium, Wilmington, DE, October.

**1993**

*Journal Articles*

Stopher, P.R. (1993). Theory and Practice in Financing Urban Rail Projects: The Case of Los Angeles, *Transportation*, **20**, 229-250.

Naghavi, B. and P.R. Stopher (1993). Remote Sensing, Means, Medians, and Extreme Values: Some Implications for Reducing Automobile Emissions, *Transportation Research Record* **1416**, pp. 53-61.

Stopher, P.R. and C. Stecher (1993). Blow Up: Expanding a Complex Random Sample Travel Survey, *Transportation Research Record No. 1412*, pp.10-16.

Stopher, P.R. (1993). Deficiencies of Travel-Forecasting Methods Relative to Mobile Emissions, *Transportation Engineering Journal of ASCE*, **119** (5), 723-741.

*Conference Papers (refereed)*

Stopher, P.R. (1993). Louisiana's Statewide Intermodal Transportation Planning Process, presentation to the Louisiana Transportation Engineering Research Conference, Baton Rouge, LA, February.

Stopher, P.R. (1993). Intermodal Planning in Louisiana, presentation to the Louisiana ASCE Annual Meeting, Lafayette, LA, April.

Stopher, P.R. (1993). Predicting TCM Responses with Urban Travel-Demand Models, Paper presented to the Second National ASCE Conference on Transportation and Air Quality, May 23-26, Danvers, MA.

Stopher, P.R. (1993). Louisiana's Intermodal Statewide Planning Process, paper presented to the Fourth National Conference on Transportation Planning Methods Applications, Daytona Beach, FL, May 2-5 (selected as one of the five best papers at the conference).

Stopher, P.R. (1993). Progress in Involving Private Industry in Intermodal Planning in Louisiana, presentation to the Louisiana Intermodal Planning Conference, New Orleans, LA, July.

**1994**

*Conference Papers (refereed)*

Stopher, P.R. (1994). Louisiana's Statewide Intermodal Planning Process, paper presented to the Annual Meeting of the Transportation Research Board, January.

Stopher, P.R., D.T. Hartgen, and Y.J. Li (1994). SMART: Simulation Model for Activities, Resources, and Travel, paper presented to the Annual Meeting of the Transportation Research Board, January.

Stopher, P.R. (1994). Update on the Louisiana Model Statewide Intermodal Transportation Plan, Presentation to the Joint Meeting of the Louisiana ASCE and the Louisiana Engineering Society, Baton Rouge, LA, March.

Stopher, P.R., A. Ashar, C. Apffel, E. Kalivoda, R. Pendyala, and R. Reddy (1994). Defining Performance Measures for an Intermodal Management System, Annual Meeting of the Transportation Research Forum, Daytona Beach, FL, November (awarded Intermodal Research Prize).

Stopher, P.R. (1994). Predicting TCM Responses with Urban Travel-Demand Models, *Transportation Planning and Air Quality II*, (edited Thomas F. Wholley), American Society of Civil Engineers, pp. 59-75.

Stopher, P.R. (1994). Experimental Design, Conference Proceedings on The Effect of Added Transportation Capacity, U.S. Government Printing Office, pp. 47-53.

Stopher, P.R. (1994). Travel and Locational Impacts of Added Transportation Capacity: Experimental Designs, Conference Proceedings on The Effect of Added Transportation Capacity, U.S. Government Printing Office, pp. 113-125.

## 1995

### *Conference Papers (refereed)*

Vadarevu, R, and P.R. Stopher (1995). An Investigation of the Influence of Life Cycle on Household Activities and Role Allocation, paper presented to the 8th REAAA Meeting, Taipei, Taiwan, April.

Reddy, R. and P.R. Stopher (1995). Development of Disaggregate Models of Mode Choice for Intercity Passenger Travel, paper presented to the 8th REAAA Meeting, Taipei, Taiwan, April.

Sharma, P. and P.R. Stopher (1995). A disaggregate model for forecasting intercity travel demand, paper presented to the 7th WCTR, Sydney, Australia, July.

Vadarevu, R. and P.R. Stopher (1995). Household Activities, Life Cycle and Role Allocation, paper presented to the 7th WCTR, Sydney, Australia, July.

Stopher, P.R. (1995). Current Transportation Planning and Modeling Data Needs in the U.S.A.: A Review of Separate and Joint Strategies for the use of Revealed and Stated Choice Data, paper commissioned for the Huitièmes Entretiens du Centre Jacques Cartier, Colloquium on Les Enquêtes de Déplacements Urbains: Mesurer le Présent, Simuler le Futur, Lyon, France, December.

1996

*Books*

Stopher, Peter R. and Helen M.A. Metcalf (1996). *Synthesis of Highway Practice No. 236: Methods for Household Travel Surveys*, Transportation Research Board, Washington, DC

Lee-Gosselin, M.E.H. and P.R. Stopher (editors) (1996). *Understanding Travel Behaviour in an Era of Change*, Pergamon Press, Headington Hill, Oxford, England.

*Journal Articles*

Stopher, P.R. (1996). Conference Summary – Household Travel Surveys: New Concepts and Research Needs, *Transportation Research Board Conference Proceedings No.10*, pp. 1-8.

Stopher, P.R. (1996). Household Travel Surveys: Cutting Edge Concepts for the New Century, Keynote paper for the Transportation Research Board Conference on Household Travel Surveys: New Concepts and Research Needs, Irvine, CA, March 1995, *Transportation Research Board Conference Proceedings No. 10*, pp. 11-23.

Stopher, P.R. and Haoqiang Fu (1996). Travel-Demand Analysis Impacts on Estimation of Mobile Emissions, *Transportation Research Record*, .

Vadarevu, R. and P.R. Stopher (1996). Household Activities, Life Cycle and Role Allocation, *Transportation Research Record No.1556*, pp. 77-85.

Wilmot, C.G., P. R. Stopher, X.-P. Chen, and S. Vaikuntam (1996) Measuring Vehicle Emissions by Remote Sensing on Two-Lane Roads, *ASCE Transportation Journal*, July.

Stopher, P.R., D.T. Hartgen, and Y.J. Li (1996). SMART: A Simulation Model for Activities, Resources, and Travel, *Transportation*, Vol. 23, No. 3, pp. 293-312.

*Conference Papers (refereed)*

Greaves, S. and P.R. Stopher (1996). A Synthesis of GIS and Activity-Based Travel-Forecasting, paper presented to a Conference on GIS and Transportation, Santa Barbara, CA, July.

Stopher, P.R. (1996). Household Travel Surveys: New Perspectives and Old Problems, paper presented to the Conference on Theoretical Foundations of Travel Choice Modeling, Stockholm, Sweden, August.

Stopher, P.R., C.G. Wilmot and H.M.A. Metcalf (1996). Using Census Data to Assist Transportation Planning Efforts: New Orleans and Los Angeles, Paper presented to the Conference on Decennial Census Data for Transportation Planning, Irvine, CA, April.

Stopher, P.R. (1996) From Activity Diaries to Time-Use Diaries, paper presented to the Conference on Advances in Survey Methods, Oxford, England, September.

## 1997

### *Book Chapters*

Stopher, P.R. (1997). Applications of Travel Behavior Models and Methods, chapter in *Understanding Travel Behaviour in an Era of Change*, (editors M. Lee-Gosselin and P.R. Stopher), Pergamon Press, pp. 413-435.

Stopher, P.R. (1997). A Review of Separate and Joint Strategies for the Use of Data on Revealed and Stated Choices, *Urban Travel Survey Methods: Measuring the Present, Simulating the Future* edited by Patrick Bonnel, Robert Chapleau, Martin Lee-Gosselin, and Charles Raux, Programme Rhone-Alpes, Recherches en Sciences Humaines, pp. 15-32.

### *Journal Articles*

Stopher, P.R. (1997). Travel Demand and Geographic Information Systems, *Infrastructure*, Vol. 2, No. 4, pp. 41-44, April.

### *Conference Papers (refereed)*

Stopher, P.R., H.M.A. Metcalf, C.G. Wilmot, C. Chu, A.J. Catalina, and C.C. Schimpeler (1997). Estimating the Demand for High-Speed Intercity Rail Service in Thailand, paper presented to the CityTrans Conference, Singapore, September.

## 1998

### *Book Chapters*

Stopher, Peter R. (1998) Household Travel Surveys: New Perspectives and Old Problems, in *Theoretical Foundations of Travel Choice Modeling*, edited by T. Gärling, T. Laitila, and K. Westin, Elsevier Science Publishers, pp. 399-419.

### *Journal Articles*

Wilmot, C.G., P. R. Stopher, X.-P. Chen, and S. Vaikuntam (1998). Measuring Vehicle Emissions by Remote Sensing on Two-Lane Roads, *ASCE Transportation Journal*, Vol. 124, No. 1, pp.35-41

Stopher, P.R. (1998), A Review of Separate and Joint Strategies for the Use of Data on Revealed and Stated Choices, *Transportation*, Vol. 25, No. 2, pp. 187-205.

Greaves, Stephen and P.R. Stopher (1998) A Synthesis of GIS and Activity-Based Travel-Forecasting, *Geographic Systems*, Vol. 5, No. 1-2, pp 59-90

## 1999

### *Journal Articles*

Ergun, Gokmen, P.R. Stopher and S. AL-Ahmadi (1999). Captivity Revisited, *ASCE Transportation Journal*, Vol. 125, No.1, pp.1-7.

Stopher, P.R. and H.M.A. Metcalf (1999). Household Activities, Lifecycle, and Role Allocations: Tests on Data Sets from Boston and Salt Lake City, *Transportation Research Record No. 1676*, pp. 95-102.

Stopher, P.R., H.M.A. Metcalf, C.G. Wilmot, A. Catalina, and C.C. Schimpeler (1999). Estimating Patronage for a Feasibility Study of High-Speed Rail in Thailand, *Transportation Research Record No.1691*, pp. 12-18.

### **2000**

#### *Book Chapters*

Stopher, P.R. (2000). Survey and Sampling Strategies, *Handbook on Transport Modelling*, David A. Hensher and Kenneth J. Button (editors), Pergamon Press.

#### *Journal Articles*

Stopher, P.R. and D.A. Hensher (2000) Are More Profiles Better Than Less? Searching for Parsimony and Relevance in Stated Choice Experiments, *Transportation Research Record No.1719*, pp.165-174.

Greaves, S.P. and P.R. Stopher (2000). Creating a Synthetic Household Travel/Activity Survey – Rationale and Feasibility Analysis, *Transportation Research Record No. 1706*, pp. 82-91.

### **2001**

#### *Book Chapters*

Stopher, P.R. and J. Zmud (2001). SP Applications, Chapter 16 in *Travel Behaviour Research: The Leading Edge*, David A. Hensher (editor), Pergamon Press, Oxford, pp. 299-308.

#### *Journal Articles*

Stopher, P.R. and C.G. Wilmot (2001). Development of a Prototype Time-Use Diary and Application in Baton Rouge, Louisiana, *Transportation Research Record 1768*, pp.89-98.

Wilmot, C.G. and P.R. Stopher (2001). Transferability of Transportation Planning Data, *Transportation Research Record 1768*, pp.36-43.

#### *Conference Papers (Refereed)*

Stopher, P.R. and P.M. Jones (2001). Developing Standards of Transport Survey Quality, Keynote Paper to the International Conference on Transport Survey Quality and Innovation, Kruger Park, South Africa, August.

Stopher, P.R. (2001). Using Passive GPS as a Means to Improve Spatial Travel Data, 8<sup>th</sup> World Congress on Intelligent Transport Systems, Sydney Australia, October.

Stopher, P.R. (2001). Using Passive GPS as a Means to Improve Spatial Travel Data, Paper presented to the 8<sup>th</sup> World Congress on Intelligent Transportation Systems, Sydney, October.

Stopher, P.R., S.P. Greaves, S. Kothuri and P. Bullock (2001) Synthesizing Household Travel Survey Data: Application to Two Urban Areas. Paper presented to the 23<sup>rd</sup> Conference of Australian Institutes of Transport Research, Monash University, December.

Stopher, P.R. and P. Bullock (2001). Using Passive GPS As a Means to Improve Spatial Travel Data: Further Findings, Paper presented to the 23<sup>rd</sup> Conference of Australian Institutes of Transport Research, Monash University, December.

## 2002

### *Conference Papers (Refereed)*

Dudala, T. and P.R. Stopher (2002). Survey Data Repair Using Hot-Deck Imputation Procedure, *Proceedings of the 8<sup>th</sup> Conference on the Application of Transportation Planning Methods*.

Stopher, P.R. and C.G. Wilmot (2002). The Case for Standardizing Household Travel Surveys, submitted to the 81<sup>st</sup> Transportation Research Board Meeting, January.

Stopher, P.R. and P. Bullock (2002). GPS, GIS and Personal Travel Surveys: An Exercise in Visualisation, Paper presented to the TRB Conference on Visualization in Transportation, Salt Lake City, April.

Stopher, P.R. (2002). The Creation of Simulated Household Travel Survey Data, Based on Available Demographic Data from Households, paper presented to the *International Colloquium on The Behavioural Foundations of Integrated Land Use and Transportation Models: Assumptions and New Conceptual Frameworks*, University of Laval, Quebec City, Quebec, Canada, June.

Stopher, P.R., P. Bullock and F. Horst (2002). Exploring the Use of Passive GPS Devices to Measure Travel, in *Proceedings of the 7<sup>th</sup> International Conference on Applications of Advanced Technologies to Transportation*, edited by K.C.P. Wang, S. Medanat, S. Nambisan, and G. Spring, ASCE, Reston VA, pp. 959-967.

Stopher, P.R., P. Bullock, and J. Rose (2002) Simulating Household Travel Survey Data in Australia: Adelaide Case Study, Paper presented to the 25<sup>th</sup> Australasian Transport Research Forum, Canberra, ACT, October.

Stopher, P.R., P. Bullock, and Q. Jiang (2002). GPS, GIS and Personal Travel Surveys: An Exercise in Visualisation, Paper presented to the 25<sup>th</sup> Australasian Transport Research Forum, Canberra, ACT, October.

## 2003

### *Books*

Stopher, P.R. and P.M. Jones (editors) (2003). *Transport Survey Quality and Innovation*, Pergamon Press.

### *Book Chapters*

Stopher, P.R. (2003). History of Environmental Legislation, *Transport and the Environment, Handbook 4*, edited by D. Hensher and K. Button, Pergamon Press.

Alsnih, R. and P.R. Stopher (2003). Environmental Justice Applications in Transport: The International Perspective, *Transport and the Environment, Handbook 4*, edited by D. Hensher and K. Button, Pergamon Press.

Stopher, P.R. and P.M. Jones (2003). Developing Standards of Transport Survey Quality, chapter 1 in *Transport Survey Quality and Innovation*, P.R. Stopher and P.M. Jones (editors), Pergamon Press, pp.1-38.

Stopher, P.R. and P.M. Jones (2003). Summary and Future Directions, chapter 39 in *Transport Survey Quality and Innovation*, P.R. Stopher and P.M. Jones (editors), Pergamon Press, pp. 635-646.

### *Journal Articles*

Stopher, P.R., D.A. Hensher, and P. Bullock (2003). Service Quality – Developing a Service Quality Index (SQI) in the Provision of Commercial Bus Contracts, *Transportation Research A*, **37** (6), pp. 499-517.

Stopher, P.R., P. Bullock, and Q. Jiang (2003). Visualising Trips and Travel Characteristics from GPS Data, *Road and Transport Research*, **12** (2), pp. 3-14.

Stopher, P.R., P. Bullock, J.M. Rose, and G. Pointer (2003). Simulating Households Travel Survey Data in Australia: Adelaide Case Study, *Road and Transport Research*, **12** (3), pp.29-44.

### *Conference Papers (Refereed)*

Stopher, P.R., P. Bullock, and F. N. Horst (2003). Conducting a GPS Survey with a Time-Use Survey, paper presented to the 82<sup>nd</sup> Annual Meeting of the Transportation Research Board, January.

Stopher, P.R. and G. Pointer (2003). Monte Carlo Simulation of Household Travel Survey Data with Bayesian Updating, paper presented to the 8<sup>th</sup> REAAA/ARRB Conference, Cairns, May.

Kothuri, S., P. Stopher and P. Bullock (2003). Monte Carlo Simulation of Household Travel Survey Data with Bayesian Updating: Dallas and Salt Lake, paper presented at the 9<sup>th</sup> TRB Transportation Planning Applications Conference, Baton Rouge, LA, April.

Bullock, P. and P. Stopher (2003). GPS Measurement of Travel Times, Driving Cycles and Congestion, paper presented at the 9<sup>th</sup> TRB Transportation Planning Applications Conference, Baton Rouge, LA, April.

Stopher, P.R., C. Wilmot, C. Stecher, and R. Alsnih (2003). Standards for Household Travel Surveys – Some Proposed Ideas, paper presented to the 10<sup>th</sup> Triennial Conference of the International Association for Travel Behaviour Research, Lucerne, Switzerland, August.

Stopher, P.R. and P. Bullock (2003). Travel Behaviour Modification: A Critical Appraisal, paper presented to the 26<sup>th</sup> Australasian Transport Research Forum, Wellington, NZ, October.

Bullock, P., P.R. Stopher, G. Pointer, and Q. Jiang (2003). GPS Measurement of Travel Times, Driving Cycles, and Congestion, paper presented at the 6<sup>th</sup> International Symposium on Satellite Navigation Technology and Applications, Melbourne, July .

Stopher, P.R. (2003). Cars, Congestion, Public Transport, and Pricing: A Reality Check, paper presented at the International Symposium on the Theory and Practice of Congestion Charging, Imperial College, London, August.

## **2004**

### *Books*

Hensher, D.A., K. Button, K. Haynes, and P.R. Stopher (2004). *Handbook on Transport Geography and Spatial Systems*, Elsevier (Handbook No. 5).

### *Book Chapters*

Haynes, K.E., P.R. Stopher, K. Button, and D.A. Hensher (2004). Introduction, in D. Hensher, K. Button, K. Haynes, and P. Stopher (editors), *Handbook on Transport Geography and Spatial Systems*, Elsevier (Handbook No. 5), pp. 1-9.

Stopher, P.R. (2004). Spatial Data Issues, in D. Hensher, K. Button, K. Haynes, and P. Stopher (editors), *Handbook on Transport Geography and Spatial Systems*, Elsevier (Handbook No. 5), pp. 293-308.

Stopher, P.R. (2004). GPS, Location, and Household Travel, in D. Hensher, K. Button, K. Haynes, and P. Stopher (editors), *Handbook on Transport Geography and Spatial Systems*, Elsevier (Handbook No. 5), pp 433-449.

Stopher, P. (2004). Voluntary Travel Behaviour Change, in D. Hensher and K. Button (editors), *Handbook on Transport Strategy, Policy, and Institutions*, Elsevier (Handbook No. 6), pp. 561-579.

#### *Journal Articles*

Stopher, P.R. (2004). Reducing Road Congestion: A Reality Check, *Transport Policy*, **11**(1), pp. 117-131.

Alsnih, R. and P.R. Stopher (2004). Estimating Eligibility Rates: A Crucial Component of the Calculation for Response Rates, *Transportation Research Record No. 1870*, pp. 94-101.

Stopher, P.R., D.A. Hensher, P. Bullock, and T. Ton (2004). TRESIS (Transport and Environmental Strategy Impact Simulator): Application to a Case Study in NE Sydney, *Transportation Research Record 1898*, pp.114-123.

Pointer, G., P.R. Stopher and P. Bullock (2004). Monte Carlo Simulation of Sydney Household Travel Survey Data with Bayesian Updating Using Different Local Sample Sizes, *Transportation Research Record No. 1870*, pp. 102-108.

Stopher, P.R. and G. Pointer (2004). Monte Carlo Simulation of Household Travel Survey Data with Bayesian Updating, *Road and Transport Research*, **13** (4), pp. 22-33.

#### *Conference Papers (Refereed)*

Alsnih, R. and P.R. Stopher (2004). A Review of the Procedures Associated with Devising Emergency Evacuation Plans, paper presented to the 83<sup>rd</sup> Annual Transportation Research Board Meeting, January.

Stopher, P., C. Wilmot, C. Stecher, and R. Alsnih (2004). Household Travel Surveys: Proposed Standards and Guidelines, Keynote paper presented to the 7<sup>th</sup> International Conference on Travel Survey Methods, Playa Herradura, Costa Rica, August.

Hawkins, R. and P.R. Stopher (2004). Collecting Data with GPS: Those Who Reject, and Those Who Receive, paper presented at the 27<sup>th</sup> Australasian Transport Research Forum, Adelaide, September.

Stopher, P. R. Alsnih, P. Bullock, and E. Ampt (2004). Evaluating Voluntary Travel Behaviour Interventions, paper presented at the 27<sup>th</sup> Australasian Transport Research Forum, Adelaide, September.

Alsnih, R. J. Rose, and P. Stopher (2004). Dynamic Travel Demand for Emergency Evacuation: The Case of Bushfires, paper presented at the 27<sup>th</sup> Australasian Transport Research Forum, Adelaide, September.

Stopher, P., A. Collins, and P. Bullock (2004). GPS Surveys and the Internet, paper presented at the 27<sup>th</sup> Australasian Transport Research Forum, Adelaide, September.

Stopher P. and S. Greaves (2004). Sample Size Requirements for Measuring a Change in Behaviour, paper presented at the 27<sup>th</sup> Australasian Transport Research Forum, Adelaide, September.

## 2005

### *Book Chapters*

Stopher, P.R. (2005). Simulating Household Travel Survey Data – Rationale and Methodology, in M. Lee-Gosselin and S. Doherty, *The Behavioural Foundations Of Integrated Land-Use And Transportation Models: Assumptions And New Conceptual Frameworks*.

### *Journal Articles*

Bullock, P., Q. Jiang, and P. Stopher (2005). Using GPS Technology To Measure On-Time Running Of Scheduled Bus Services, *Journal of Public Transportation*, **8** (1), 21-40.

Stopher, P.R., S.P. Greaves and M. Xu (2005). Using National Data to Simulate Metropolitan Area Household Travel Data, *J. of Transportation and Statistics*, **8** (3), 83-95.

### *Conference Papers (Refereed)*

Alsnih, R., J. Rose, and P. Stopher (2005). Developing a Decision-Support System for Emergency Evacuation – Case Study of Bush Fires, paper presented to the 84<sup>th</sup> Annual Meeting of the Transportation Research Board, January.

Stopher, P., R. Alsnih, and E. Ampt (2005). Evaluating Voluntary Travel Behaviour Change Strategies – A Case Study, paper presented to the 84<sup>th</sup> Annual Meeting of the Transportation Research Board, January.

Stopher, P. and A. Collins (2005). Conducting a GPS Prompted Recall Survey over the Internet, paper presented to the 84<sup>th</sup> Annual Meeting of the Transportation Research Board, January.

Stopher, P. and S. Greaves (2005). Measuring Effects of a Transportation Strategy – Sample Size Issues, paper presented to the 84<sup>th</sup> Annual Meeting of the Transportation Research Board, January.

Stopher, P., S.P. Greaves, and C. FitzGerald (2005). Developing and Deploying a New Wearable GPS Device for Transport Applications, paper presented to the Second International Colloquium on the Behavioural Foundations of Integrated Land-Use and Transportation Models: Frameworks, Models, and Applications, Toronto, June.

Stopher, P., Q. Jiang, and C. FitzGerald (2005). Processing GPS Data from Travel Surveys, paper presented to the Second International Colloquium on the Behavioural Foundations of Integrated Land-Use and Transportation Models: Frameworks, Models, and Applications, Toronto, June.

Stopher, P., S.P. Greaves, and C. FitzGerald (2005). Developing and Deploying a New Wearable GPS Device for Transport Applications, paper presented to the 28<sup>th</sup> Australasian Transport Research Forum, Sydney, September.

Stopher, P., Q. Jiang, and C. FitzGerald (2005). Processing GPS Data from Travel Surveys, paper presented to the 28<sup>th</sup> Australasian Transport Research Forum, Sydney, September.

Stopher, P., S. Greaves, M. Xu, and N. Lauer (2005). Designing a Procedure to Undertake Long Term Evaluation of TravelSmart Interventions, paper presented to the 28<sup>th</sup> Australasian Transport Research Forum, Sydney, September.

Stopher, P., S. Greaves, M. Xu, C. FitzGerald, and N. Lauer (2005). A Panel Approach to Evaluating TravelSmart Initiatives in the Short Term – South Australia Pilot Survey, paper presented the 28<sup>th</sup> Australasian Transport Research Forum, Sydney, September.

Stopher, P., M. Xu, and C. FitzGerald (2005). Assessing the Accuracy of the Sydney Household Travel Survey with GPS, paper presented to the 28<sup>th</sup> Australasian Transport Research Forum, Sydney, September.

Bertoia, T., J. Tideman, and P. Stopher (2005). Community Perceptions of ‘TravelSmart®’ Behaviour in South Australia, paper presented to the 28<sup>th</sup> Australasian Transport Research Forum, Sydney, September.

Ampt, E. and P. Stopher (2005). Mixed Method Data Collection in Travel Surveys: Challenges and Opportunities, paper presented to the 28<sup>th</sup> Australasian Transport Research Forum, Sydney, September.

Ampt, E., P. Stopher, and J. Wundke (2005). Households on the Move – Experiences of a New Approach to Voluntary Travel Behaviour Change, paper presented to the 28<sup>th</sup> Australasian Transport Research Forum, Sydney, September.

Stopher, P.R., S.P. Greaves, and M. Xu (2005) Using National Data to Simulate Metropolitan Area Household Travel Data, *Journal of Transportation and Statistics*, Volume 8, No. 3, pp. 83-95.

## **2006**

### *Books*

Stopher, P.R. and C. Stecher (eds) (2006). *Travel Survey Methods – Quality and Future Directions*, Elsevier Science, Oxford.

### *Book Chapters*

Stopher, P.R., C.G. Wilmot, C.C. Stecher and R. Alsnih (2006). Household Travel Surveys: Proposed Standards and Guidelines, in: *Travel Survey Methods – Quality and Future Directions* P.R. Stopher and C.C. Stecher (eds), Elsevier, Oxford, pp. 19-74.

Stopher, P.R. and C.C. Stecher (2006). Transport Survey Standards and Futures, in: *Travel Survey Methods – Quality and Future Directions* P.R. Stopher and C.C. Stecher (eds), Elsevier, Oxford, pp. 661-684.

#### *Journal Articles*

Ampt, E., P. Stopher, and J. Wundke (2006). Households on the Move – Experiences of a New Approach to Voluntary Travel Behaviour Change, *Transportation Research Record No. 1985*, pp. 98-105.

Stopher, P. and S. Greaves (2006). Guidelines for samplers: measuring a Change in Behaviour from Before and After Surveys', *Transportation*, Vol. 34, No.1, pp. 1-16.

Stopher, P.R., S. Greaves, C. FitzGerald, N. Swann, and A. Perkins (2006). A Panel Approach to Evaluating TravelSmart Initiatives in the Short Term – South Australia Pilot Survey, *Road and Transport Research*, **15** (2), 21-34.

Stopher, P.R., S. Greaves, and N. Swann (2006). Designing a Procedure to Undertake Long-Term Evaluation of the Effects of TravelSmart Interventions, *Road and Transport Research*, **15** (2), 6-20.

#### *Conference Papers (refereed)*

FitzGerald, C., J. Zhang and P. Stopher (2006). Processing GPS Data for Travel Surveys, paper presented at the IGNSS Annual Meeting, Brisbane, July.

Stopher, P., S. Greaves, and C. FitzGerald (2006). Advances in GPS Technology for Measuring Travel, paper to be presented to the 22<sup>nd</sup> ARRB Conference, Canberra, October.

Stopher, P.R., N. Swann, and T. Bertoia (2006). Establishing and Using a Before-and-After Panel Survey: Case Study of New South Wales, paper to be presented to the 22<sup>nd</sup> ARRB Conference, Canberra, October.

Stopher, P., C. FitzGerald, and T. Biddle (2006). Pilot Testing a GPS Panel for Evaluating TravelSmart, paper to be presented to the 22<sup>nd</sup> ARRB Conference, Canberra, October.

Stopher, P. (2006). Australia's Challenge – Managing Traffic Congestion, invited paper for the Smart Traffic Symposium, Brisbane, August.

Stopher, P., N. Swann, and T. Bertoia (2006). Trip Rates, Non-Mobility, and Response Rate: Measures to Evaluate the Quality of a Travel Survey, paper presented to the 29<sup>th</sup> Annual Meeting of the Australasian Transport Research Forum, Brisbane, September.

Stopher, P., C. FitzGerald, S. Greaves, and T. Biddle (2006). What Can We Learn from GPS Measurement of Travel? paper presented to the 29<sup>th</sup> Annual Meeting of the Australasian Transport Research Forum, Brisbane, September.

Stopher P., C. FitzGerald, T. Bretin, and J. Zhang (2006). Variability in Day-to-Day Travel – Analysis of a 28-day GPS Survey, paper presented to the 29<sup>th</sup> Annual Meeting of the Australasian Transport Research Forum, Brisbane, September.

Stopher, P., N. Swann, and T. Bertioia (2006). Evaluation of a Pilot TravelSmart Program for New South Wales, paper presented to the 29<sup>th</sup> Annual Meeting of the Australasian Transport Research Forum, Brisbane, September.

Stopher, P. and T. Bertioia (2006). Developing a Method for Simulating Trip Tours in Urban Areas, paper presented to the 29<sup>th</sup> Annual Meeting of the Australasian Transport Research Forum, Brisbane, September.

Biddle, T., T. Bertioia, S. Greaves, and P. Stopher (2006). The Costs of Infill versus Greenfield Development – A Review of Recent Literature, paper presented to the 29<sup>th</sup> Annual Meeting of the Australasian Transport Research Forum, Brisbane, September.

Swann, N. and P. Stopher (2006). The impact of offering choice in response mode: A comparison of post, telephone and Internet respondents in a multi-mode longitudinal travel survey. Paper presented to the Annual ACSPRI Conference, Sydney, December.

## **2007**

### *Book Chapters*

Stopher, P.R. (2007). Survey and Sampling Strategies, *Handbook on Transport Modelling Second Edition*, David A. Hensher and Kenneth J. Button (editors), Elsevier.

### *Journal Articles*

Stopher, P.R. and S.P. Greaves (2007). Household Travel Surveys: Where Are We Going?, *Transportation Research A*, **41** (5), 367-381.

Stopher, P., M. Xu, and C. FitzGerald (2007). Assessing the Accuracy of the Sydney Household Travel Survey with GPS, *Transportation*, **34** (6), 723-741.

Stopher, P., C. FitzGerald, T. Bretin and J. Zhang (2007). Analysis of a 28-Day GPS Panel Survey – Findings on Variability of Travel, *Transportation Research Record No. 2014*, Transportation Research Board, Washington, DC., pp. 17-26.

### *Conference Papers (refereed)*

Stopher, P.R., E. Clifford, J. Zhang, and C. FitzGerald (2007). Deducing Mode and Purpose from GPS Data, paper presented to the 11<sup>th</sup> TRB National Planning Applications Conference, Daytona Beach, FL, May.

Stopher, P.R., N. Swann, and C. FitzGerald (2007). Using an Odometer and a GPS Panel to Evaluate Travel Behaviour Changes, paper presented to the 11<sup>th</sup> TRB National Planning Applications Conference, Daytona Beach, FL, May.

Stopher, P.R. and C. FitzGerald (2007). Managing Congestion – Are We Willing to Pay the Price?, paper presented to *Transport the Next 50 Years* Conference, Christchurch, New Zealand, July.

Stopher, P.R., S.P. Greaves, J. Zhang, and C. FitzGerald (2007). Can GPS Measurement Replace Travel Diaries? paper presented to *Transport the Next 50 Years* Conference, Christchurch, New Zealand, July.

Stopher, P.R. and N. Swann (2007). A 6-Wave Odometer Panel for TravelSmart Evaluation, paper presented to the 30<sup>th</sup> Annual Meeting of the Australasian Transport Research Forum, Melbourne, October.

Stopher, P.R., E. Clifford, and S.P. Greaves (2007). Multi-Day Household Travel Surveys: Sampling Issues, paper presented to the 30<sup>th</sup> Annual Meeting of the Australasian Transport Research Forum, Melbourne, October.

Stopher, P.R., E. Clifford, and M. Montes (2007). Further Analysis of Variability of Travel over Multiple Days, paper presented to the 30<sup>th</sup> Annual Meeting of the Australasian Transport Research Forum, Melbourne, October.

Swann, N. and P.R. Stopher (2007). Evaluating an Emerging Travel Research Methodology: GPS Participants Speak of Their Experience, paper presented to the 30<sup>th</sup> Annual Meeting of the Australasian Transport Research Forum, Melbourne, October.

Stopher, P.R. (2007). Standards for Travel Surveys in China, paper presented to the 3<sup>rd</sup> China Planning Network Conference, Beijing, August.

Clifford, E., J. Zhang and P. Stopher (2007). Determining Trip Information Using GPS Data, paper presented to the IGNSS 2007 Symposium, Sydney, December.

## **2008**

### *Book Reviews*

Stopher, P. (2008). Road Congestion Pricing in Europe: Implications for the United States, *International Planning Studies*, Vol. 13, No. 4, pp.449-453.

### *Journal Articles*

Stopher, P., C. FitzGerald, and J. Zhang (2008). In Search of a GPS Device for Measuring Personal Travel, Special Issue of *Transportation Research C*, on Emerging Commercial Technologies, **16**, 350-369.

Stopher, P. and N. Swann (2008). Six-Wave Odometer Panel for Evaluation of Voluntary Travel Behaviour Change Programs, *Transportation Research Record* 2049, pp.119-127

Stopher, P., E. Clifford, and M. Montes (2008). Variability of Travel over Multiple Days: Analysis of Three Panel Waves, *Transportation Research Record* 2054, pp. 58-63.

Stopher, P., K. Kockelman, S.P. Greaves, and E. Clifford (2008). Reducing Burden and Sample Sizes in Multiday Household Travel Surveys, *Transportation Research Record* 2064, pp. 12-18.

#### *Conference Papers (refereed)*

Swann, N. and P. Stopher (2008). Evaluation of a GPS Survey by Means of Focus Groups, paper presented to the 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 2008.

Stopher, P.R. and N. Swann (2008). A 6-Wave Odometer Panel for the Evaluation of Voluntary Travel Behaviour Change Programs, paper presented to the 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 2008.

Stopher, P.R., E. Clifford, J. Zhang, and C. FitzGerald (2008). Deducing Mode and Purpose from GPS Data, paper presented to the 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 2008 (Selected as one of the Best Papers from the 11<sup>th</sup> TRB National Planning Applications Conference.)

Stopher, P.R., K. Kockelman, S.P. Greaves, and E. Clifford (2008). Reducing Burden and Sample Sizes in Multi-day Household Travel Surveys, paper presented to the 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 2008

Stopher, P.R., E. Clifford, and M.A. Montes (2008). Variability of Travel over Multiple Days: Analysis of Three Panel Waves, paper presented to the 87<sup>th</sup> Annual Meeting of the Transportation Research Board, Washington, D.C., January 2008.

Stopher, P.R. (2008). Collecting and Processing Data from Mobile Technologies, Invited Resource paper for 8<sup>th</sup> International Conference on Survey Methods, Annecy, France, May.

Stopher, P.R. (2008). The Travel Survey Toolkit: Where to from Here? Invited Keynote paper for 8<sup>th</sup> International Conference on Survey Methods, Annecy, France, May.

Stopher, P.R., K. Kockelman, S.P. Greaves, and E. Clifford (2008). Sample Size Requirements for Multi-Day Travel Surveys: Some Findings, paper presented to 8<sup>th</sup> International Conference on Survey Methods, Annecy, France, May.

Stopher, P.R., E. Clifford, and J. Zhang (2008). The Potential of GPS to Replace Self-Report Surveys, paper presented to IFORS 2008, Sandton, Johannesburg, South Africa, July.

Stopher, P.R. and E. Clifford (2008). Evaluating a Voluntary Travel Behaviour Change by Means of a 3-Year GPS Panel, paper presented to TDM2008 conference, Vienna, Austria, July.

### ***In Press to appear 2008/9***

#### *Books*

Stopher, P.R. *Survey Design and Management*, Cambridge University Press, Cambridge (forthcoming in 2009) (Book contract signed in may 2005).

#### *Conference Papers (refereed)*

Stopher, P.R. , E. Clifford and B. Halling (2008). Evaluating a Voluntary Travel Behaviour Change by Means of a 3-Year GPS Panel, *Proceedings of the TDM2008 Conference*, Vienna, Austria (in press).

#### ➤ **Under editorial consideration**

#### *Journal Articles*

Stopher, P.R., E. Clifford, N. Swann and Y Zhang (2008). Evaluating Travel Behaviour Changes – Suggested Guidelines and Case Studies, submitted to a special issue of *Transport Policy*.

## **Professional activities**

### **Workshops, seminars and industry linkages (from 2004)**

- Date: 18<sup>th</sup> May, 2004
- Presentation: *Education and the Profession*
- Event/Organisation: NSW Branch of the AITPM.
  
- Date: 25 May, 2005
- Presentation: *Behavioural Change for Sustainable Transport – Will it Work?*
- Event / organisation: Austrian Research Society, Vienna, Austria.
  
- Date: 1 June, 2005
- Presentation: *Behavioural Change for Sustainable Transport – State of the Art*
- Event / organisation: University of Karlsruhe, Institute for Transport Research, Karlsruhe, Germany.
  
- Date: 20 July, 2006

- Presentation: Sydney's Transport Future
- Event / organisation: Seminar on *Sydney Transportation – Today and Tomorrow*, The Association of Consulting Engineers Australia, Sydney, NSW.
- Date: 22-24 August, 2006
- Presentation: Australia's Challenge – Managing Congestion
- Event/Organisation: *Smart Traffic 2006 Symposium*, Transport Roundtable Australasia, Brisbane, QLD.
- Date: 11, 13, 15 September, 2006
- Presentation: Planning for Emergency Evacuation
- Event/Organisation: *RNSA Workshops*, Melbourne, Adelaide, Sydney.
- Date: 21 September, 2006
- Presentation: Congestion Management
- Event/Organisation: *Workshop on Congestion and GPS*, Australian Road Federation, Sydney, NSW
- Date: 9 November, 2006
- Presentation: Managing Traffic Congestion
- Event/Organisation: *NSW RTA Briefing Forum*, Sydney, NSW
- Date: 4 May, 2007
- Presentation: Recent Developments in Using GPS to Measure Travel Behaviour
- Event/Organisation: *Seminar*, University College London, Centre for Transport Studies, London, England
- Date: 11 May, 2007
- Presentation: Emergency Evacuation Planning in Sydney
- Event/Organisation: *Seminar*, Louisiana State University, Baton Rouge, LA
- Date: 18 May, 2007
- Presentation: Recent Developments in Using GPS to Measure Travel Behaviour
- Event/Organisation: *Seminar*, Portland State University, Portland, Oregon
- Date: 28 September, 2007
- Presentation: Managing Congestion: Are We Willing to Pay the Price?
- Event/Organisation: *TDM Summit: Under a Bigger TDM Tent*, Langham Hotel, Melbourne, Victoria.
- Date: 5 June, 2008
- Presentation: Australian Progress in GPS Measurement of Urban Travel Behaviour
- Event/Organisation: *Seminar*, Centre for Transport Studies, University of the West of England, Bristol, England.
- Date: 10 June, 2008
- Presentation: Australian Progress in GPS Measurement of Urban Travel Behaviour

- Event/Organisation: *Seminar*, GRIMES, University of Laval, Quebec City, Quebec, Canada.
- Date: 16 June, 2008
- Presentation: Australian Progress in GPS Measurement of Urban Travel Behaviour
- Event/Organisation: *Seminar*, Department of Civil and Environmental Engineering, Louisiana State University, Baton Rouge, Louisiana, USA.
- Date: 2 July, 2008
- Presentation: Australian Progress in GPS Measurement of Urban Travel Behaviour
- Event/Organisation: *Seminar*, Department of Civil Engineering, University of Cape Town, Rondebosch, South Africa.
- Date: 22 July, 2008
- Presentation: Australian Progress in GPS Measurement of Urban Travel Behaviour
- Event/Organisation: *Seminar*, Institute for Transport Studies, Universitat fur Bodenkultur, Vienna, Austria.
- Date: 13 October, 2008
- Presentation: New Methods in Transport Surveys
- Event/Organisation: *Seminar*, Department of Logistics, University of Stellenbosch, Stellenbosch, South Africa.
- Date: 13 October, 2008
- Presentation: Recent Developments in Travel Demand Models
- Event/Organisation: *Seminar*, Department of Logistics, University of Stellenbosch, Stellenbosch, South Africa.
- Date: 29 October, 2008
- Presentation: Using Personal GPS Devices to Measure Travel Behaviour
- Event/Organisation: *Seminar*, Department of Civil and Environmental Engineering, Louisiana State University, Baton Rouge, Louisiana, USA.

### **Media and meetings (from 2004)**

- Date: 7<sup>th</sup> July, 2004
- Media: Alexandra Smith, Sydney Morning Herald
- Title or subject: *Can't wait to get on the road again ... on my own if you don't mind.*
- Date: 2<sup>nd</sup> August, 2004
- Media: Alexandra Smith, Sydney Morning Herald
- Title or subject: *"Love your traffic jam,... it's progress.*
- Date: 7<sup>th</sup> September, 2005
- Media: ABC Talk Radio, David Mark
- Title or subject: Expected travel behaviour changes in response to the spike in petrol prices.

- Date: 4<sup>th</sup> July, 2006
- Media: Sydney Morning Herald – Jordan Baker and Sherrill Nixon
- Title or subject: Expert’s solution to traffic tax: pay when it’s busy.
  
- Date: 4<sup>th</sup> July, 2006
- Media: Radio ABC Talk Radio (720 AM)
- Subject: GPS-based, distance-based road user charging
  
- Date: 4<sup>th</sup> July, 2006
- Media: Radio 2GB Talk Radio (873 AM)
- Subject: GPS-based, distance-based road user charging
  
- Date: 21<sup>st</sup> June, 2008
- Media: Sydney Morning Herald – Linton Besser
- Subject: Stuck in traffic? Get used to it, Sydney

## **Positions**

### *International and Australian Positions*

- Date: 1967-8
- Position: Research Officer
- Organisation: Greater London Council, London, England
  
- Date: 1968-70
- Position: Assistant Professor
- Organisation: Department of Civil Engineering, Northwestern University, Evanston, Illinois, USA
  
- Date: 1970-71
- Position: Assistant Professor
- Organisation: Department of Civil and Mechanical Engineering, McMaster University, Hamilton, Ontario, Canada
  
- Date: 1970-3
- Position: Member
- Organisation: Committee on Origin and Destination Studies, Highway Research Board, National Academies of Science and Engineering, USA
  
- Date: 1971-3
- Position: Associate Professor
- Organisation: Department of Environmental Engineering, Cornell University, Ithaca, NY, USA
  
- Date: 1972-4
- Position: Visiting Professor

- Organisation: Department of Urban and Regional Planning, University of Syracuse, Syracuse, NY, USA
- Date: 1973-8
- Position: Associate Professor
- Organisation: Department of Civil Engineering, Northwestern University, Evanston, Illinois, USA
- Date: 1977-8
- Position: Transport Planning Adviser
- Organisation: National Institute for Transport and Road Research, Pretoria, South Africa
- Date: 1978-80
- Position: Professor
- Organisation: Department of Civil Engineering, Northwestern University, Evanston, Illinois, USA
- Date: 1980-82
- Position: Visiting Professor
- Organisation: Department of Civil Engineering, Northwestern University, Evanston, Illinois, USA
- Date: 1980-84
- Position: Technical Vice President
- Organisation: Schimpeler-Corradino Associates, Miami, Florida, USA
- Date: 1980
- Position: Visiting Professor
- Organisation: Department of Business Management, Louvain University, Louvain, Belgium
- Date: 1984-87
- Position: Vice President
- Organisation: Schimpeler-Corradino Associates, Los Angeles, California, USA
- Date: 1987-90
- Position: Director
- Organisation: Evaluation and Training Institute, Los Angeles, California, USA
- Date: 1988-90
- Position: Principal and CFO
- Organisation: Applied Management and Planning Group, Los Angeles, California, USA
- Date: 1990-93
- Position: Director
- Organisation: Louisiana Transportation Research Center, Louisiana State University, Baton Rouge, Louisiana, USA

- Date: 1990-1999
- Position: Professor
- Organisation: Department of Civil and Environmental Engineering, Louisiana State University, Baton Rouge, Louisiana, USA
- Date: 1990-2000
- Position: Head
- Organisation: Transportation Engineering, Department of Civil and Environmental Engineering, Louisiana State University, Baton Rouge, Louisiana, USA
- Date: 1998
- Position: Visiting Professor
- Organisation: Institute for Transport Research, Universitat fur Bodenkultur, Vienna, Austria
- Date: 1999
- Position: Visiting Professor
- Organisation: Institute of Transport Studies, The University of Sydney, NSW, Australia.
- Date: 1999-2000
- Position: Louisiana Land and Exploration Company Professor
- Organisation: Department of Civil and Environmental Engineering, Louisiana State University, Baton Rouge, Louisiana, USA
- Date: 1990-93
- Position: Director
- Organisation: Louisiana Transportation Research Center, Louisiana State University, Baton Rouge, Louisiana, USA
- Date: 2001-present
- Position: Deputy Director and Professor of Transport Planning
- Organisation: Institute of Transport and Logistics Studies, The University of Sydney, NSW, Australia.
- Date: 2005
- Position: Visiting Professor
- Organisation: Institute for Transport Research, Universitat fur Bodenkultur, Vienna, Austria

### *Professional Organisations*

- Date: 1964-73
- Position: Associate Member
- Organisation: Institution of Civil Engineers, UK
- Date: 1969-2002
- Position: Member
- Organisation: American Society of Civil Engineers, USA

- Date: 1971-3
- Position: Chairman
- Organisation: Task Force on the Value of Time, Highway Research Board, National Academies of Science and Engineering, USA
  
- Date: 1973-7
- Position: Chairman and co-founder
- Organisation: Committee on Traveler Behavior and Values, Transportation Research Board, National Academies of Science and Engineering, USA
  
- Date: 1973-2001
- Position: Member
- Organisation: Committee on Traveler Behavior and Values, Transportation Research Board, National Academies of Science and Engineering, USA
  
- Date: 1974-1982
- Position: Member
- Organisation: Panel for Project NCHRP 8-14, National Cooperative Highway Research Program, National Academies of Science and Engineering, USA
  
- Date: 1974-6
- Position: Member
- Organisation: Committee on Travel Forecasting, Transportation Research Board, National Academies of Science and Engineering, USA
  
- Date: 1974-present
- Position: Member
- Organisation: American Statistical Association, USA
  
- Date: 1976-present
- Position: Member
- Organisation: Institute of Transportation Engineers
  
- Date: 1984-87
- Position: Chairman
- Organisation: Subcommittee on Survey Methods, Transportation Research Board, National Academies of Science and Engineering, USA
  
- Date: 1984-2000
- Position: Member
- Organisation: Subcommittee on Survey Methods, Transportation Research Board, National Academies of Science and Engineering, USA
  
- Date: 1984-97
- Position: Member
- Organisation: Committee on Passenger Travel Demand Forecasting, Transportation Research Board, National Academies of Science and Engineering, USA
  
- Date: 1990-4

- Position: Chairman
- Organisation: Subcommittee on Survey Methods, Transportation Research Board, National Academies of Science and Engineering, USA
- Date: 1991-2002
- Position: Member and Control Group Member
- Organisation: Committee on Planning, Transportation Research Board, National Academies of Science and Engineering, USA
- Date: 1993-2002
- Position: Member and Control Group Member
- Organisation: Committee on Energy and Environmental Aspects of Transportation, American Society of Civil Engineers, Transportation Division, USA
- Date: 1993-6
- Position: Member
- Organisation: Panel for Project B-4, Transit Cooperative Research Program, National Academies of Science and Engineering, USA
- Date: 1995-7
- Position: Chairman
- Organisation: Committee on Traveler Behavior and Values, Transportation Research Board, National Academies of Science and Engineering, USA
- Date: 1995-7
- Position: Member
- Organisation: Panel for Project H-4B, Transit Cooperative Research Program, National Academies of Science and Engineering, USA
- Date: 2001-present
- Position: Emeritus Member
- Organisation: Committee on Traveler Behavior and Values, Transportation Research Board, National Academies of Science and Engineering, USA
- Date: 2001-2007
- Position: Member
- Organisation: Committee on Survey Methods, Transportation Research Board, National Academies of Science and Engineering, USA
- Date: 1998-2002
- Position: Vice Chair
- Organisation: Committee on Planning, American Society of Civil Engineers, Transportation Division, USA
- Date: 2002- present
- Position: Fellow
- Organisation: American Society of Civil Engineers, USA
- Date: 2002- present

- Position: Fellow
- Organisation: Institute of Engineers Australia, Civil College, Australia
- Date: 2002-present
- Position: Member
- Organisation: Committee on Planning and Economics, Transportation and Development Institute, American Society of Civil Engineers, USA
- Date: 2002-present
- Position: Member
- Organisation: Committee on Environmental Issues, Transportation and Development Institute, American Society of Civil Engineers, USA
- Date: 2005-6
- Position: Member
- Organisation: Panel on Project TCRP Synthesis Topic SH-07, Transit Cooperative Research Program, National Academies of Science and Engineering, USA
- Date: 2006-present
- Position: Peer Reviewer
- Organisation: New Zealand Ministry of Transport: Research Project on Trip Chains and Trip Tours
- Date: 2008-present
- Position: Emeritus Member
- Organisation: Committee on Survey Methods, Transportation Research Board, National Academies of Science and Engineering, USA
- Date: 2009-present
- Position: Scientific Advisory Panel Member
- Organisation: African Centre of Excellence for Studies in Public and Non-Motorised Transport (ACET), Projects 1, 10, and 11.

### *Conference Organisation*

- Date: 1972-3
- Position: Co-chair of Organising Committee
- Conference: First International Conference on Travel Behaviour and Values, South Berwick, Maine, USA
- Date: 1974-5
- Position: Co-chair of Organising Committee
- Conference: Second International Conference on Travel Behaviour and Values, Asheville, NC, USA
- Date: 1976-7
- Position: Co-chair of Organising Committee

- Conference: Third International Conference on Travel Behaviour and Values, Tanunda, SA, Australia
- Date: 1978-9
- Position: Co-chair of Organising Committee
- Conference: Fourth International Conference on Travel Behaviour and Values, Eibsee, Germany
- Date: 1995
- Position: Chair of Organising Committee
- Conference: Transportation Research Board Conference on Household Travel Surveys: New Concepts and Research Needs, Irvine, CA, USA, March.
- Date: 1996
- Position: Chair of Organising Committee
- Conference: Transportation Research Board Conference on Activity Analysis, New Orleans, Louisiana, USA., May.
- Date: 1996-98
- Position: Chair of Organising Committee
- Conference: International Conference on Transport Survey Quality and Innovation, Grainau, Germany, May 1997.
- Date: 1998-2003
- Position: Co-chair of Organising Committee
- Conference: International Conference on Transport Survey Quality and Innovation, Kruger National Park, South Africa, August 2001.
- Date: 2003-6
- Position: Co-chair of Organising Committee
- Conference: International Conference on Travel Survey Methods – Quality and Future Directions, Playa Herradura, Costa Rica, August 2004.
- Date: 2008-present
- Position: Chair of Proposed Local Organising Committee
- Conference: 9<sup>th</sup> International Conference on Travel Survey Methods, Australia, August, 2011.

### *Editorial Positions*

- Date: 1981-94
- Position: US Area Editor
- Journal: Transport Reviews
- Date: 1995-2001
- Position: Head, Editorial Team for North America
- Journal: Transport Reviews

- Date: 1991-present
- Position: Member of Editorial Board
- Journal: Transport Reviews
  
- Date: 1999-present
- Position: Member of Editorial Board
- Journal: Transport Policy
  
- Date: 2003-2006
- Position: Member of Editorial Board
- Journal: Journal of Transportation and Statistics
  
- Date: 2007-present
- Position: Member of Editorial Board
- Journal: Journal of Transportation and Land Use
  
- Date: 2008-present
- Position: Member of Editorial Board
- Journal: Transportation Letters: The International Journal of Transportation Research

### **Referee of papers**

*Transportation*  
*Transportation Research A*  
*Transportation Research Board*  
*Transport Reviews*  
*Transportation Research Forum*  
*Australasian Transport Research Forum*  
*Transport Policy*  
*Journal of Transportation and Statistics*  
*Road and Transport Research*

### **Feedback on contributions**