

RECENT DEVELOPMENTS IN USING GPS TO MEASURE TRAVEL BEHAVIOUR

Current research at the Institute of Transport and Logistics Analysis of the University of Sydney, under Professor Peter Stopher, has been concentrating on using personal GPS devices to collect travel behaviour data of individuals. In this seminar, Professor Stopher will outline the several projects that have been conducted and are currently underway that are using GPS. He will describe the survey procedures, and then provide an overview of some of the results emerging from collection of such data. Of particular interest is that the GPS surveys are being conducted in most cases by using a panel, with at least two waves of data collection, and that panel members carry the GPS devices for anywhere from one week to one month. Initial studies of the variability in daily travel, where there are no fatigue effects from recording multiple days in a diary, are showing some interesting patterns and leading to some important conclusions.



Peter Stopher is Professor of Transport Planning at the Institute of Transport and Logistics Studies of the University of Sydney, a position he has held since the beginning of 2001. Previously he held academic positions and also worked as a full-time consultant in the USA since 1968. He obtained his B.Sc. (Eng) and Ph.D. from University College London in the 1960s. He has more than 40 years of experience as an educator and consultant in transport planning and has published many papers and books in transport-related topics. He is currently writing a book on Survey Design and Management. He teaches and researches in transport policy and planning, survey methods, travel demand

modelling, and environmental analysis, and is pioneering the use of GPS devices in transport surveys. Current projects include evaluation of TravelSmart interventions in South Australia, design of a long-term monitoring methodology for TravelSmart in Australia, development of a tour-based travel demand model for an interactive land use, transport, and environment impact simulator (TRESIS), research into the effects of exposure-based charging on driver behaviour, and validation of the new Victoria activity and travel survey with GPS (VISTA07).

Friday, May 18, 2007

Noon – 1:30 pm

Room 204 Urban Center (Distance Learning Center)