

Transport Planning Models and Methods

Monday 11 October 2010

Plenary Session

0900 – 1000

Zoltán Kazatsay (Deputy Director-General of the European Commission's Directorate-General for Energy and Transport, BE)

Session 1 1030 – 1230	Session 2 1330 – 1530	Session 3 1600 – 1800
<p align="center"><u>Travel Demand</u></p> <p>Chair: TBC</p> <p>Long term changes in transport demand C Riff Brems, T Jensen, DTU Transport, DK</p> <p>Modelling weekend travel - worth the extra effort? T van Vuren, Mott MacDonald / University of Leeds, UK</p> <p>Impact of congestion pricing and travel time-reliability on travel demand summary of applied models in the US P Vovsha, Parsons Brinckerhoff, US; M Bradley, Mark Bradley Research & Consulting, US; T Adler, Resource Systems Group, US</p>	<p align="center"><u>Car Ownership Modelling</u></p> <p>Chair: TBC</p> <p>Forecasting car ownership in the Sydney area F Tsang, A Daly, RAND Europe, UK</p> <p>A new model of car ownership in London: geo-spatial analysis of policy interventions J Crockett, G Whelan, MVA Consultancy, UK; S Vitouladiti, Transport for London, UK</p> <p>A city-wide, capacity constrained parking choice model M Hudson, N Raha, MVA Consultancy, UK</p> <p>How long to own and how much to use a car? A dynamic discrete choice model to explain holding duration and driven mileage G Cernicchiaro, M de Lapparent, INRETS, FR</p>	<p align="center"><u>Strategic Models: Governance and Quality Assessment</u></p> <p>Chair: TBC</p> <p>Realization and quality assessment of the Dutch National and Regional models R Smit, Centre for Transport and Navigation DVS, NL</p> <p>Creating transport models that matter: a strategic view on governance of transport models and road maps for innovation L Tavasszy, TNO Logistics and Mobility, NL; M Duijnvisveld, Delft University, NL; F Hofman, S Pronk van Hoogeveen, J van der Waard, N Schmorak, M van de Berg, J Francke, M Martens, O van de Riet, H Poot, E Reiding, Rijkswaterstaat, NL</p> <p>Passenger and freight transport in Flanders 2010 - 2040 under three scenarios G de Jong, Significance, NL / University of Leeds, UK / CTS Stockholm, SE / NEA, NL; J Baak, K Ruijs, Significance, NL; T Bellemans, D Janssens, H Geert Wets, Universiteit Hasselt, BE</p>
<p align="center"><u>Horribly Complicated Stuff</u></p> <p>Chair: TBC</p> <p>The role of tangible attributes in hybrid discrete choice models M Francisca Yañez, F Bahamonde, S Raveau, J de Dios Ortuzar, Pontificia Universidad Catolica de Chile, CL</p> <p>Multiple discrete-continuous choice models with Generalized Extreme Value (GEV) - based error structures A Pinjari, University of South Florida, US</p> <p>Estimation of random utility models with large choice sets R Hurtubia, G Flötteröd, M Bierlaire, Ecole Polytechnique Fédérale de Lausanne, CH</p>	<p align="center"><u>System Convergence</u></p> <p>Chair: TBC</p> <p>System convergence in transport modelling J Rich, O Anker Nielsen, DTU Transport, UK; G Cantarella, University of Salerno, IT</p> <p>Speaker to be announced</p> <p>Speaker to be announced</p>	<p align="center"><u>Heterogeneity</u></p> <p>Chair: TBC</p> <p>Designing surveys with a view to accommodating heterogeneous information processing strategies S Hess, University of Leeds, UK</p> <p>RP/SP estimation including reference dependent preferences S Mabit, DTU Transport, DK</p> <p>Accommodating heterogeneity for reducing traffic pollution: a 'mixed' latent class approach D Campbell, M Boeri, A Longo, Queen's University Belfast, UK</p> <p>Accounting for latent attitudes and heterogeneous processing strategies: a joint modelling framework with an application to commuting choices A Stathopoulos, University of Trieste, IT</p>
<p align="center"><u>Activity Based Models</u></p> <p>Chair: TBC</p> <p>Activity-based demand modelling on a large scale: experience from the new Danish National Model J Rich, C Giacomo Prato, DTU Transport, DK; A Daly, RAND Europe, UK</p> <p>An activity-based travel demand model for London A Sivakumar, S Le Vine, J Polak, Imperial College London, UK</p> <p>New features of applied activity-based models in the US P Vovsha, Parsons Brinckerhoff, US</p>	<p align="center"><u>Untitled 2</u></p> <p>Chair: TBC</p> <p>Individual versus intra-household decision making: who really wears the trousers? S Hess, N Beharry-Borg, V Gibson, D Campbell, University of Leeds, UK</p> <p>Modeling the spatial and temporal dimensions of recreational activity participation with a focus on physical activities I Sener, E Ferguson, C Bhat, T Waller, University of Texas at Austin, US</p> <p>Integrated modelling of urban energy systems: results from a London case study A Sivakumar, J Keirstead, J Polak, Imperial College London, UK</p>	<p align="center"><u>Model Specification</u></p> <p>Chair: TBC</p> <p>The recurrent problem of parametrising nested logit models A Daly, RAND Europe, UK</p> <p>Some new perspectives on applied welfare economics with discrete choice models; a critique of Small & Rosen (1981) R Batley, University of Leeds, UK</p> <p>Assessment of two tests for the validity instruments in logit models C Guevara, M Ben-Akiva, Universidad de los Andes, CL</p>

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Tuesday 12 October 2010

Plenary Session

0900 – 1000

Professor Alan McKinnon (Director of the Logistics Research Centre, Heriot-Watt University, UK)

<p>Session 4 1030 - 1230</p>	<p>Session 5 1400 - 1600</p>	<p>Session 6 1630 - 1830</p>
<p align="center"><u>Public Transport Assignment</u></p> <p><u>Chair: TBC</u></p> <p>Planning and policy impacts of alternative public transport modeling methods H Slavin, J Brandon, J Lam, A Rabinowicz, S Sundaram, J Zhang, Caliper Corporation, US</p> <p>Some variants of the optimal strategy transit assignment method I Constantin, M Florian, INRO Consultants Inc, CA</p> <p>Modelling airline competition in passenger air transport markets – a game-theoretic approach M Gelhausen, German Aerospace Center, DE</p>	<p align="center"><u>Route Choice</u></p> <p><u>Chair: Eran Ben-Elia, University of the West of England, UK</u></p> <p>Modelling strategic route choice behaviour: a cumulative prospect theory approach M Razo, S Gao, University of Massachusetts Amherst, US</p> <p>Modelling the impacts of ATIS accuracy on travellers' route-choice behaviour and risk perception E Ben-Elia, University of the West of England, UK; B Gennaro, D Pace Roberta, University of Naples Federico II, IT; Y Shifan, Israel Institute of Technology, IL</p> <p>Experimental analysis of route choice behaviour with real-time information in congested, risky networks X Lu, University of Massachusetts, US</p> <p>Joint modelling of constrained path enumeration and path choice behaviour: a semi-compensatory approach S Kaplan, Israel Institute of Technology, IL; C Giacomo Prato, Technical University of Denmark, DK</p>	<p align="center"><u>Assignment</u></p> <p><u>Chair: TBC</u></p> <p>Stochastic equilibrium assignment with variable demand: theoretical and implementation issues G Cantarella, A Carteni, S de Luca, University of Salerno, IT</p> <p>Static Traffic Assignment with Queuing (STAQ) – static assignment revisited L Brederode, Goudappel Coffeng BV, NL; M Bliemer, Goudappel Coffeng BV / Delft University of Technology, NL; L Wismans, Goudappel Coffeng BV, University of Twent, NL</p> <p>Computing full link state distributions in the dynamic network loading problem C Osorio, G Flötteröd, M Bierlaire, EPFL, CH</p>
<p align="center"><u>Stated Preference</u></p> <p><u>Chair: TBC</u></p> <p>Investigation spatial transferability of models estimated on stated choice data collected on four different continents J Rose, The University of Sydney, AU; S Hess, University of Leeds, UK</p> <p>Not bored yet – revisiting respondent fatigue in stated choice experiments S Hess, University of Leeds, UK; D Hensher, The University of Sydney, AU; A Daly, University of Leeds / RAND Europe, UK</p> <p>Valuating the perception of insecurity associated with use of and access to public transport M Börjesson, Royal Institute of Technology, SE</p> <p>Preference heterogeneity and attribute non-attendance: can they be separated? D Campbell, S Hess, University of Leeds, UK</p>	<p align="center"><u>Data</u></p> <p><u>Chair: TBC</u></p> <p>Evaluation of pedestrian data collection methods within a simulation framework M Fetiariison, G Floetteroed, M Bierlaire, EPFL, CH</p> <p>Inferring transportation mode and context from smart phone data J Chen, EPFL, CH</p> <p>Data pooling for choice modelling A Sivakumar, J Polak, Imperial College London, UK</p>	<p align="center"><u>Panel</u></p> <p><u>Chair: TBC</u></p> <p>Simple methods for random utility modelling with panel data A Daly, University of Leeds / RAND Europe, UK; S Hess, University of Leeds, UK</p> <p>Towards a comprehensive framework for panel data analysis S Hess, University of Leeds, UK; A Daly, University of Leeds / RAND Europe, UK</p> <p>Validation and forecasts in models estimated from multi-days travel survey E Cherchi, Università di Cagliari, IT; C Cirillo, University of Maryland, US</p>

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0900 – 1000

Speaker to be announced

Session 7 1030 - 1230	Session 8 1330 – 1500	Session 9 1530 – 1730
<p><u>Reliability and Value of Time</u></p> <p>Chair: TBC</p> <p>A stated preference survey, models and results for the values of time and reliability in passenger transport M Kouwenhoven, D Wentink Significance, G de Jong – Significance, NL / ITS, University of Leeds, UK / CTS Stockholm, SE / NEA, NL; V van den Berg, P Koster, Yin-Yen Tseng, E Verhoef, VU University, NL</p> <p>The value of travel time reliability for transit passengers M Börjesson, J Eliasson, J Franklin, DTU Transport, DK</p> <p>The NATA refresh and bus reliability: putting it into practice Y Hollander, Steer Davies Gleave, UK</p>	<p><u>Variability</u></p> <p>Chair: TBC</p> <p>The value of travel time variance M Fosgerau, DTU Transport / CTS / ENS, DK; L Engelson, KTH, DK</p> <p>Developing a model of travel time variability for congested motorways C Drury, UK Highways Agency, UK; J Bates, I Black, J Fearon, C Gilliam, Hyder Consulting, UK</p> <p>Identifying the value of travel time distribution – evidence from the Swedish value of time study 2008 M Börjesson, M Fosgerau, S Algers, DTU Transport, DK</p>	<p><u>Scheduling</u></p> <p>Chair: TBC</p> <p>A behavioural departure time choice model with latent arrival time preference and rewards for peak-hour avoidance M Bierlaire, EPFL, CH, E Ben-Elia, D Ettema, Utrecht University, NL</p> <p>Time allocation and valuation of travel time savings in the presence of simultaneous activities J Polak, J Pawlak, Imperial College London, UK</p> <p>Endogenous scheduling preferences and congestion M Fosgerau, DTU Transport / CTS / ENS, DK; K Small, UC Irvine, US</p>
<p><u>Untitled</u></p> <p>Chair: TBC</p> <p>Urban delivery industry response to cordon pricing, time-distance pricing, and carrier-receiver policies J Holguín-Veras, Rensselaer Polytechnic Institute, US</p> <p>Effect of the omission of users' costs on the spatial design of public transport services S Jara-Díaz, A Gschwender, M Ortega, Universidad de Chile, CL</p> <p>Speaker to be announced</p>	<p><u>Long Distance Travel</u></p> <p>Chair: TBC</p> <p>The importance of frequency and destination choice effects in long-distance travel behaviour: what choice models can tell us C Rohr, A Daly, J Fox, B Patrui, S Patil, F Tsang, RAND Europe, UK; J Thompson, Department for Transport, UK</p> <p>A forecasting model for long distance travel in Great Britain J Dargay, ITS, University of Leeds, UK</p> <p>Speaker to be announced</p>	<p><u>Cost Benefit Analysis: Does it Matter?</u></p> <p>Chair: TBC</p> <p>Why benefit - cost analysis matters less and how it can be improved for decision making in the transport sector – experiences from the Norwegian National Transport plan 2010 - 2019 J Martinsen, J Odeck, A Kjerkreit, The Norwegian University of Science and Technology, NO</p> <p>Do cost - benefit analyses really influence transport investment decisions? Experiences from the Swedish National Transport investment plan 2010 - 2021 J Eliasson, M Lundberg, Centre for Transport Studies, KTH, SE</p> <p>Estimating wider economic impacts of transport interventions in New Zealand S Kohli, L Rognlinen, Steer Davies Gleave, UK</p> <p>Speaker to be announced</p>
<p><u>Route Choice and Matrix Estimation</u></p> <p>Chair: TBC</p> <p>Origin destination analysis on the M25 ANPR network C Fox, University of Sheffield, UK; P Billington, Telematics Technology, UK</p> <p>The practical benefits of the SATURN origin-based assignment algorithm and network aggregation techniques Y Xiang, I Wright, Atkins, UK; D Van Vliet, H Bar-Gera, Ben-Gurion University of the Negev, IL; D Boyce, North Western University, US</p> <p>OD data fusion G Skrobanski, UK Highways Agency, M Logie, Minnerva, I Black, J Fearon, C Gilliam, Hyder Consulting</p>	<p><u>Infrastructure Construction Design and Justification</u></p> <p>Chair: TBC</p> <p>The Erasmus Bridge; a culture of success M de Jong, J Annema, Delft University of Technology, NL</p> <p>Modelling the UK's busiest road - using detailed data to inform design at junction 15 on the M25 E Seaman, SIAS, UK</p>	<p><u>Stream Highway Maintenance</u></p> <p>Chair: TBC</p> <p>Kent permit scheme: benefits assessment and monitoring S Srivastava, Jacobs Engineering, UK</p> <p>Economic impact of road works K Arter, Colin Buchanan, UK</p>