CAITR – 2003
25th Conference of Australian Institutes of Transport Research
Transport Systems Centre
University of South Australia

Conference Room: Centenary Building, Level 3, Room 16 (C3-16)
City East Campus, corner of North Terrace and Frome Road

Day 1 – Wednesday 3 December 2003

0830 – 1000
Collection of conference papers in the foyer outside the Conference Room C3-16

0900 – 0930
Conference Room: Centenary Building, Level 3, Room 16 (C3-16)
Welcome to CAITR 2003 – Professor Michael Taylor
Musings on CAITR – Professor Tony Richardson
Conference Matters – Dr Stuart Clement

0930 – 1045
Session 1: Transport Planning I
Chair: Professor Derek Scrafton
1. Equity and accessibility challenges for liveable Australian cities.
   Dr Narida Smith, Dr Doina Olaru, Dr Leorey Marquez and Cheryl McNamara; CSIRO.
2. Investigation into bus access to tram rights-of-ways: seeking better utilisation of existing public transport infrastructure.
   Andrew Somers; Department of Civil Engineering, Monash University.
3. Efforts to improve bus patronage: what has been attempted, what can be attempted.
   Geoffrey Clifton; Institute of Transport Studies, University of Sydney.

1045 – 1115
Morning Tea (provided in the foyer outside the Conference Room C3-16)

1115 – 1230
Session 2: Travel Safety; ITS Markets
Chair: Dr Narida Smith
4. Predisposing conditions for serious road crashes (Bayesian conditional probabilities and road crash risk).
   Chris Dyson; TSC, UniSA.
5. The effect of the startle reflex on loss of control accidents.
   Patricia Wheeler; Department of Aviation, University of New South Wales.
6. ITS technologies and their markets.
   Dr Vivian Salim and Dr Narida Smith; CSIRO.

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1230 – 1340  Lunch (provided in Gate One Café on campus)

1340 – 1520  Session 3: Travel Behaviour, Demand and Patterns  
Chair: Dr Vivian Salim

Hirofumi Furusawa; TSC, UniSA.

8.  Representing a change of destination attractiveness in a Markov model of trip sequences.  
Professor John Taplin; Transport Discipline, University of Western Australia.

Dr David Wilson; Faculty of Business, RMIT University.

10.  Public perceptions of Victoria's roadside rest areas.  
Daniel Przychodzki and Thanuja Gunatillake; Public Policy Department, RACV.

1520 – 1550  Afternoon Tea (provided in the foyer outside the Conference Room C3-16)

1550 – 1730  Session 4: Transport Modelling I  
Chair: Dr Upali Vandebona

Arnold Su; Department of Civil and Environmental Engineering, University of Melbourne.

12.  Mobility considerations in restricting choice sets in modal choice models.  
Frank Primerano; TSC, UniSA.

Nikolaos Vogiatzis and Dr Stuart Clement; TSC, UniSA.

Raju Ingole and Rishi Daryani; TSC, UniSA.

Day 2 – Thursday 4 December 2003

0900 – 1040  Session 5: Transport Engineering  
Chair: Dr Lal Wadhwa

15.  Differences between lane width requirements for various MCVs on a rural road.  
Sandra Lennie and Dr Jonathan Bunker; Queensland University of Technology.

Suphasawas Nigarnjanagool; Department of Civil Engineering, University of Queensland.

17.  Measuring influence in groups of more than two agents over multiple rounds of negotiation: an application to transport research.  
Sean Puckett; Institute of Transport Studies, University of Sydney.

18.  Untitled wonderings in transport.  
Professor Tony Richardson; The Urban Transport Institute and Monash University.

1040 – 1110  Morning Tea (provided in the foyer outside the Conference Room C3-16)

1110 – 1250  Session 6: Transport Modelling II  
Chair: Professor John Taplin

Nikolaos Vogiatzis; TSC, UniSA.

20.  Evaluation of microscopic car-following behaviour.  
Sakda Panwai; Department of Civil Engineering, University of Queensland.

Ruimin Li; Department of Civil Engineering, Monash University.

22.  Speed-flow relationships for freeways, multilane highways and urban streets.  
Dr Rahmi Akçelik; Akçelik and Associates.
1250 – 1400 Lunch (provided in Gate One Café on campus)

1400 – 1515 Session 7: Transport Planning II
Chair: Dr Rahmi Akçelik

23. The influence of operational uncertainties on airline schedule planning and punctuality control issues.
Cheng-Lung Wu; Department of Aviation, University of New South Wales.

24. Evolutions in urban transport planning process.
Dr Lal Wadhwia; School of Engineering, James Cook University.

25. Multicriteria-nested model to forecast classified traffic using low cost information.
Amilia Aldian and Professor Michael Taylor; TSC, UniSA.

1515 – 1545 Afternoon Tea (provided in the foyer outside the Conference Room C3-16)

1545 – 1725 Session 8: Environment and Energy
Chair: Professor Fred Affleck

Dr Leorey Marquez and Dr Vivian Salim; CSIRO.

27. Estimating the relationship between traffic and air pollution.
Sharif Siddique; Business School, University of Western Australia.

28. Predicting the energy use of a solar-electric commuter car.
Dr Peter Pudney and Dr Rocco Zito; UniSA.

29. Freight modal transport energy efficiency: a comparison model.
Ashis Parajuli, Professor Luis Ferreira and Dr Jonathan Bunker; School of Civil Engineering, Queensland University of Technology.

1900 Conference Dinner: Royal Garden Chinese Restaurant
351 Greenhill Rd, Toorak Gardens.
$25 per person payable before the meal on the night; drinks not included.

Day 3 – Friday 5 December 2003

0900 – 1015 Session 9: System Reliability; Freight; Data
Chair: Dr Leorey Marquez

30. Reliability of multi-modal transport systems.
Dr Upali Vandebona; School of Civil and Environmental Engineering, University of New South Wales.

31. The capacity of seaport facilities for sea-containers.
John Leavesley and Dr David Wilson; Faculty of Business, RMIT University.

32. An assessment of two weighting methods utilising VATS travel survey data.
Tony Hingston; Faculty of Business, RMIT University.

1015 – 1045 Morning Tea (provided in the foyer outside the Conference Room C3-16)

1045 – 1200 Session 10: Transport Costs
Chair: Dr David Wilson

33. Operating cost models in aaSIDRA and aaMOTION.
Dr Rahmi Akçelik and Mark Besley; Akçelik and Associates.

34. E-business and trains: tracking the benefits, derailing the costs.
Clara Tetther; Queensland University of Technology.

35. A simple demand model to project consumption impacts of rising petrol prices.
Professor John Taplin; Transport Discipline, University of Western Australia.
1200 – 1310 Lunch (provided in Gate One Café on campus)

1310 – 1450 **Research Summaries**
Chair: Dr Stuart Clement

1. TSC (UniSA): Professor Michael Taylor
2. Akcelik and Associates: Dr Rahmi Akçelik
3. ITS-Monash: Dr Rahmi Akçelik
4. RMIT University: Dr David Wilson
5. University of New South Wales: Dr Upali Vandebona
6. James Cook University: Dr Lal Wadhwa
7. University of Western Australia: Professor John Taplin
8. CSIRO: Dr Nariida Smith
9. PATREC: Professor Fred Affleck
10. The Urban Transport Institute (TUTI): Professor Tony Richardson
11. University of Queensland: summary in paper form only
12. Queensland University of Technology: 
13. ITS-Sydney:

1450 – 1505 **Presentation of Awards**
Chair: Professor Michael Taylor


2. *Rodney Vaughan Memorial Prize* for best postgraduate student paper (sponsored by The Urban Transport Institute).

1505 – 1515 **Conference Closure**
Professor Michael Taylor