



Michael A P Taylor – Co-Convenor, ACCARNSI Node 2

BE, MEngSc, PhD

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Professor Michael Taylor has over 40 years experience in transport research, covering the fields of travel demand modelling, traffic systems modelling, transport-land use-environment interactions, transport network reliability, transport technology, Intelligent Transport Systems (ITS), transport policy analysis and decision making, and energy consumption and environmental impacts of road traffic. His *TrafikPlan* local area traffic model pioneering the use of interactive computer graphics and desktop computing systems in traffic analysis, won an IEAust award for innovation in 1989. His work on environmental impacts has led naturally into concerns on climate change adaptation, particularly for urban communities and transport infrastructure and systems.

Qualifications

BE Hons 1, Monash University

MEngSc, Monash University

PhD, Monash University

Affiliations

CP Eng, FIE, Institution of Engineers, Australia

Fellow, Institute of Transportation Engineers

Fellow, Chartered Institute of Logistics and Transport

Member, Aust Institute of Traffic Planning and Management

Associate Fellow, Australian College of Road Safety

Editorial Board, *Transport Policy* journal

Editorial Board, *Road and Transport Research* journal

Editorial Board, *Journal of Advanced Transportation*

Member, International Advisory Committee for the International Symposia on Transportation and Traffic Theory

Board, Eastern Asia Society for Transportation Studies

Board, Intelligent Transport Systems Australia

Member, International Advisory Committee for the International

Symposia on Transportation Network Reliability

Professional History

1971-1973: Engineer, Country Roads Board of Victoria

1973-1976: Senior Tutor, Civil Engineering, Monash University

1976-1978: Research Scientist, CSIRO Building Research

1978-1979: Consultant, OECD Road Research Programme

1979-1984: Senior Research Scientist, CSIRO Building Res

1984-1989: Senior Lecturer, Civil Engineering, Monash Univ

1990-1991: Reader, Civil Engineering, Monash University

1991-1994: Professor & Head, Civil Engineering, University of South Australia (UniSA)

1994-1996: Professor of Civil Engineering & Director, Transport Systems Centre, UniSA

1996-2008: Professor of Transport Planning & Director, Transport Systems Centre, UniSA

1999-2002: Chair – Institution of Engineers, Australia National Committee on Transport

2001: Visiting Professor, University of Newcastle, UK

2006: Erskine Visiting Professorial Fellow, University of Canterbury, NZ

2008- : Professor of Transport Planning & Director, Institute for Sustainable Systems and Technologies, UniSA

2009- : Member, Green Car Innovation Committee, Innovation Australia

Specialist Fields

- Traffic systems modelling
- Travel demand modelling
- Transport fuel consumption and emissions modelling
- Urban traffic control systems

- Multicriteria decision making
- Intelligent transport systems
- Emergency evacuation planning and modelling
- Climate change adaptation

Relevant Experience

Traffic and transport systems modelling

1974-Ongoing: cities and towns in Australasia & SE Asia

Transport fuel consumption and emissions

1988-Ongoing: Sydney, Melbourne, Adelaide

Urban traffic control systems

2006-Ongoing: Adelaide, Melbourne

Climate change adaptation

2008-Ongoing: implications for transport infrastructure in SA

Selected Publications

Taylor, M A P, Bonsall, P W and Young, W (2000). *Understanding Traffic Systems: Data, Analysis and Presentation* (2nd ed). (Ashgate Publishing Ltd: Aldershot)

Taylor, M A P (2002). *Transportation and Traffic Theory in the 21st Century*. (Elsevier-Pergamon: Oxford)