



Planning and Transport Research Centre

ANNUAL REVIEW 2010



The Planning and Transport Research Centre (PATREC) is a collaboration of the four public universities of Western Australia, Curtin University, Edith Cowan University, Murdoch University and The University of Western Australia. It also receives financial support from the Government of Western Australia (through the Western Australian Planning Commission, Department of Transport and Main Roads Western Australia).

His Excellency Dr Kenneth Michael, AC
Patron of PATREC



**PATREC
PLANNING AND TRANSPORT RESEARCH CENTRE
ANNUAL REVIEW 2010**

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Driving PATREC forward...

The Board confirmed the Strategic Plan 2009 - 2010 objectives to capacity building across universities, industry and government and beneficially influencing outcomes and value for the State of Western Australia and approved a complementary Business Plan for 2010. A number of research proposals have been developed to reflect this more strategic and longer term beneficial influence.

Early in the year Eric Lumsden, Director General of Planning retired from the Board. I am pleased to acknowledge and thank Eric for his personal interest and support of PATREC since 2007. Subsequently, Gary Prattley, Chairman of the Western Australian Planning Commission and Reece Waldock, Director General of Transport were invited to join as funding partners. The confirmation of public sector agency funding for 2010 only has meant that expenditure on scholarships and research support was contained and points to a need for a more sustainable base for PATREC in the future.

The Board resolved in July to initiate a review of PATREC to consider its performance, future directions and the business model. Emeritus Professor Jim Reynoldson, former Deputy Vice-Chancellor Research at Murdoch University led the review. His principal recommendations presented to the Board in November were that PATREC needs a stronger driving force, more assured funding, a 'roadmap' for the next five years and tighter governance and key performance indicators. The recommendations are being further developed for consideration and decision by the Board in February 2011. The in-principle agreement for transfer of PATREC to The University of Western Australia on 1 January 2011 is now on hold pending decisions on the review recommendations.

I am pleased to report that PATREC has facilitated industry contributions to the successful award of ARC Linkage Grants on pavement research and licensing business intelligence in Curtin University. A new substantial three year Main Roads Road Safety Senior Research Fellowship Program has been awarded to C-MARC. A notable achievement was the completion of the feasibility study for a WA Pavement Asset Research Centre, a collaboration involving Curtin and UWA. A steering group is working towards its implementation during 2011.

I thank the Board members and the PATREC management team for their endeavours through 2010 and am looking to set a firm foundation for the next generation of PATREC. It has been my privilege to Chair PATREC since its inception in 2002. I have declared my intention now to retire from the role, and I will step down as soon as the new Chair has been appointed by the Board. I am grateful for the loyalty and support of all past and present board members and particularly to the two able and affective Executive Directors, Prof Fred Affleck and Prof Greg Martin, who have worked along side me.

It is my wish to see a new leader grow PATREC in strength and influence for the next 5 years.

Stuart Hicks AO
Chair
Planning and Transport Research Centre

His Excellency Dr Kenneth Michael, AC
Patron of PATREC

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- A PATREC Review 2010 - Terms of Reference
- B PATREC Business Plan 2010
- C Papers by PATREC Research Associates - 2005 to 2010
- D Curtin Corner Program 2010

PATREC Contacts

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Highlights

Board Membership

- Professor Geoff Syme, Professor of Planning replaced Professor John Finlay-Jones, Deputy Vice-Chancellor Research in July 2010 as Edith Cowan University's representative
- With the creation of separate Departments of Planning and Transport, Mr Eric Lumsden, Director General of the Department of Planning retired from the Board in February and Mr Gary Prattley, Chairman, Western Australian Planning Commission and Mr Reece Waldock, Director General of Transport joined the Board in July.
- Mr Alastair MacDonald, Manager Strategic Projects and Policy, Research and Development replaced Professor David Harries as Murdoch University's representative in July 2010.

Board Decisions

- University and State agency subscriptions to PATREC for 2010 determined and approved
- Strategic Plan 2009-2010 confirmed and Business Plan 2010 approved
- In-principle agreement to transfer PATREC to UWA placed on hold
- Recommendations from the PATREC Review 2010 conducted by Emeritus Professor Jim Reynoldson accepted for further development

Education and Knowledge Transfer

- MTS students - 1 dissertation submitted, 1 to complete dissertation, 2 completed a Graduate Certificate, 1 graduated with Post Grad Dip, 1 graduated with MTS Degree
- Three Connection Events held
- 6th Annual PATREC Research Forum was held at The University of Western Australia

Research Program

- Successful ARC Linkage Grants (Curtin-DEBII \$314,192 with Main Roads WA; Curtin-DEBII \$240,000 with Dept of Transport; Curtin-PRG \$90,000 with Main Roads WA)

- New Main Roads WA Senior Road Safety Research Fellowship Program (C-MARC \$480,000)
- Feasibility Study for a WA Pavement Asset Research Centre of Excellence completed (Curtin University, The University of Western Australia, ARRB Group and MRWA)

Collaborative Activities

- Representation on University Research Centre Advisory Boards
- Appointment of Executive Director to Transport Boards and advisory groups
- PATREC as a partner in a contract to provide strategic advice and assistance to the Department of Transport for a Regional freight network plan

Finance

- The cash balance in PATREC as at 31 December 2010 was \$159,076

Business Plan - Key Performance Indicators

- WA Pavement Asset Research Centre
- ARC Linkage Grants and Road Safety Research Fellowship
- PATREC Review 2010
- 6th Annual PATREC Research Forum
- Awards and Appointments
- Budget management

Governance

Board

At 31 December 2010 PATREC's Board comprised the following members:

Adj Prof Stuart Hicks AO	Independent Chairman
Prof Linda Kristjanson	Representing Curtin University
Prof Geoff Syme	Representing Edith Cowan University
Mr Alastair MacDonald	Representing Murdoch University
Mr Tim Shanahan PSM	Representing The University of Western Australia
Mr Gary Prattley	Representing Western Australian Planning Commission
Mr Reece Waldock	Department of Transport
Mr Menno Henneveld	Representing Main Roads Western Australia

Adjunct Professor Stuart Hicks AO, BEd, FAIM, FCILT, FAICD, MIMC is Chairman of the East Perth Redevelopment Authority and Chairman of the John Curtin Institute for Public Policy at Curtin University of Technology. He is a former Chairman of the National Transport Commission and former Director General of Transport in Western Australia. Stuart holds separate appointments as Adjunct Professor at Curtin University of Technology, Edith Cowan University, Murdoch University and The University of Western Australia

Professor Linda Kristjanson RN, BN, MN, PhD Deputy Vice Chancellor, Research and Development at Curtin University of Technology.

Professor Geoff Syme, Professor of Planning, Faculty of Business & Law, Edith Cowan University replaced **Professor John Finlay-Jones** BSc(Hons), PhD, FASM, Deputy Vice-Chancellor Research at Edith Cowan University in May 2010.

Mr Alastair MacDonald, Manager Strategic Projects & Policy, Research & Development replaced **Professor David Harries Ph.D, M.Env.Stud, Dip.Ed, B.Sc** is the Director of RISE, Faculty of Minerals and Energy Research, Research Institute for Sustainable Energy at Murdoch University in July 2010.

Mr Tim Shanahan LLB, PSM, Director of the Energy and Minerals Initiative at The University of Western Australia.

Mr Gary Prattley, BA, MTP, Chairman, Western Australian Planning Commission.

Mr Reece Waldock, FCILT, FAICD, Director General Department of Transport.

Mr Menno Henneveld BE, PGDiplAdmin, FIEAust, FAICD, MCILT, Managing Director, Main Roads Western Australia.

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Mr Eric Lumsden PSM, MBA, LifeFPIA, FLGMA, FAIM, Director General of the Department of Planning, Western Australia retired from the Board in February 2010.

Management Team

Professor Greg Martin PSM is the Executive Director and Ms Tania Carter is the Business Manager for PATREC.

PATREC Memorandum of Understanding

The four participating universities approved the PATREC MOU to 31 December 2012.

PATREC Strategic Plan 2009 - 2010

The Board approved the Strategic Plan 2009-2010 which highlighted the dual purposes to *Build Capacity in Planning and Transport* and *Beneficially Influence Strategic State Initiatives*.

Board Meetings and Decisions

The Board met on 18 February, 20 May, 20 July and 18 November 2010.

PATREC Business Plan 2010

The Board approved the Business Plan 2010 which listed actions for 2010 and key performance indicators. See Attachment B. Refer Business Plan 2010 Key Performance Indicators.

Financial Contributions

Funding from the Department of Planning ended in 2009 and has been replaced in mid 2010 with equal shares by the Western Australian Planning Commission and Department of Transport.

The universities and government agencies' financial contributions for 2010 were:

• Curtin University of Technology	\$ 80,000
• Edith Cowan University	\$ 20,000
• Murdoch University	\$ 20,000
• The University of Western Australia	\$ 80,000
• Western Australian Planning Commission	\$ 70,000
• Department of Transport	\$ 70,000
• Main Roads Western Australia	\$100,000

The Board determined that a Reserve Fund will be retained in PATREC to cover unforeseen expenses and any termination payments.

PATREC Transfer to UWA

UWA Board Member, Tim Shanahan reiterated the interest of The University of Western Australia in PATREC transferring from Curtin University in accordance with the rotation policy for the location of PATREC. The Board determined that the transfer is dependent on the lifespan for PATREC and funding certainty. The Board acknowledged that under current circumstances a transfer would not occur on 1 January 2011.

PATREC Review 2010

The Board acknowledged the interest of UWA to host PATREC and determined that a transfer could only be justified if the term of the MOU was extended beyond December 2012 and partner membership and funding commitments were made in support of the extension.

At its meeting on 20 July 2010, the Board resolved to conduct a review of PATREC. See Attachment A - Terms of Reference.

The review was conducted by Emeritus Professor Jim Reynoldson, former Deputy Vice-Chancellor, Murdoch University with support from Stuart Hicks, Gary Prattley, Reece Waldoock and Greg Martin and the review report presented to the Board on 18 November 2010.

The summarised key points and recommendations were

- The Centre is needed but needs a stronger driving force in order to satisfy current sector demands and accountability requirements for all partners.
- A longer term, more assured funding agreement is necessary.
- The breakfast meetings/seminars, and workshops are clearly highly valued by institutional staff and government partners alike and should be maintained.
- Governance needs to be tightened so that it stands scrutiny and the Board functions effectively. A reformed 'main' Board should comprise a member from each funding body plus two independent members with either succession to Mr Martin as Chair or an independent Chair (opinion was divided on this point and there is value in having experience in the field in such a position). The majority of Board time needs to be set aside for issues and focus discussions.
- There is a need to bring the partners together more often and more effectively and to have them working together, in a manner similar to many of the Cooperative Research Centres (CRC's).
- A 'Roadmap' must be developed for the next five years for the Centre, providing a clear path forward with focus: the focus may be on development of a Modelling Centre, further development of the Pavement Studies program and the transport intelligence or logistics programs initially.

- A training program needs to be implemented without generation of an unviable degree program, utilising scholarships, tailor-made degree programs and short courses.
- If the ED position becomes vacant the Centre needs to recruit a young active mid-career researcher to lead the way and make a name for themselves and the Centre and raise the profile. If the ED position remains unchanged a greater drive and engagement with researchers (facilitated by DVC's Research) needs to be established. The ED in the new model should be one of the focus area leaders who provides 1-2 days per week for ED activities.
- Strong KPI's are needed for the Centre and for the Executive Director or CEO.
- The PATREC centre activities should be relocated at UWA as agreed in the existing MOU.
- Partnership should be sought from all WA universities but it seems unlikely that all four public universities will be involved and this should not be mandated.
- Funding should be agreed for a longer period, preferably at a higher level and with provision for seed funding and therefore leverage into granting bodies. Reduced central costs and more direct project funding should be a goal.

The Board has tasked the Executive Director with the further development of the recommendations for consideration and decision by the Board at the next meeting on 3 February 2011.

PATREC Research Program

Doctoral Studies

Dr La Ngoc Quang has a Curtin funded place as a PhD candidate in the School of Public Health and had a three year stipend funded by PATREC (ending August 2010). The research will profile the mortality and morbidity of injuries among bus and taxi drivers, and investigate their risk factors for road crashes in Hanoi, Vietnam. Due to difficulties in obtaining survey data, Quang's program was placed on hold, recommenced in September 2009 and submission of the thesis is expected in the first half of 2011.

John Smoker had a three year PATREC scholarship and support funding from Main Roads Western Australia (ending July 2009) to examine the past, present and future funding arrangements and management processes for maintaining access roads, and engagement and inclusion of remote indigenous people in governing and planning for long term viability of their communities. The thesis is expected to be completed in March 2011.

Ms Izumi Hart is a PhD Student at Murdoch University and is investigating the measurement of safety perception and safety culture of the Australian rail industry. She anticipates completing in 2011.

Fellowships and Scholarships

Dr Lynn Meuleners, Main Roads Senior Research Fellow was awarded a Curtin University Fellowship and an ARC Discovery Grant in 2010.

Research Projects

□ **Main Roads Road Safety Senior Research Fellowship:** Main Roads WA has funded a new three year Senior Research Fellowship in Road Safety in the Curtin University School of Public Health. The funding of \$480,000 will provide for recruitment a new research fellow in C-MARC with supervision by Dr Lynn Meuleners.

□ **Optimising Urban Design for TOD:** PhD candidate Yu-Chao Sun research in the UWA School of Economics and Commerce developed a genetic algorithm for urban layout design and optimisation. Yu-Chao was awarded the 'Village at Wellard Scholarship', which is an APAI stipend from PATREC's ARC project, Impacts of Transit-Led Development in a New Rail Corridor.

□ **Impacts of Transit Led Development in a New Rail Corridor:** This research was conducted over five years (2005-2009) under an ARC Linkage Grant, and assessed the impacts of transit-oriented development (TOD) in precincts adjoining the new Perth - Mandurah passenger railway. A presentation of key research findings was reported at the 6th Annual PATREC Research Forum. Further reporting of the research will be presented at the New Urbanism and Smart Transport Conference in September 2011.

□ **Planning and Transport Modelling Program:** This program to include a freight network model for the Perth Metropolitan Area commenced in mid-2005 and has progressed slowly. The results now available are promising in generating optimum trip generation coefficients for four stage transport modelling. The completion of the research and incorporation in planning and transport models will be considered in early 2011.

□ **Safety in the Heavy Vehicle Industry:** This research is to determine the direction and size of associations between key risk factors and heavy vehicle crashes in Western Australia. The study is being undertaken by Dr Lynn Meuleners in conjunction and concurrently with the population based case-control study of heavy vehicles currently in operation in New South Wales (NSW) and Queensland (QLD) over a three year period. The Western Australian component, funded by Main Roads Western Australia, will benefit by drawing on the University of Sydney team which is funded by an ARC Linkage Grant to conduct the study in New South Wales and Queensland.

□ **Licensing Business Intelligence Project:** A research project by PATREC and Curtin's DEBI Institute to enhance data quality and business intelligence and processes was awarded a three year ARC Linkage Grant (\$240K from ARC and \$240K from the Department of Transport) in November 2010.

A separate research contract for data cleansing is being finalised with the Department of Transport for \$510K.

□ **Real Time Systems for Road Network Management:** PATREC submitted a collaboration proposal on behalf of Curtin's DEBI Institute to Main Roads Western Australia to apply data mining techniques and real time data analysis to apply intelligence to road traffic monitoring and control. A DEBI ARC Linkage Grant of \$314,192 was awarded in 2009 to fund this project over three years (2009-2012). MRWA will provide cash funding of \$90,000 and an in-kind contribution of \$300,000. PATREC will supply in-kind support. (Reference: "Streets Ahead" R&D Now, Curtin University Summer 2009.)

□ **Centre of Excellence in Road Pavement Engineering and Asset Management:** PATREC completed a feasibility study for the WA Pavement Asset Research Centre. The collaborating partners are Main Roads Western Australia, Curtin University, The University of Western Australia and ARRB Group Limited. During the year a CRC submission by the WA partners in conjunction with Queensland Main Roads and universities and coordinated by ARRB was unsuccessful. The proposal is for a Western Australian centre is proceeding through under a steering committee chaired by Main Roads. The target is commencement in July 2011.

□ **Performance, Evaluation and Enhancement of Hydrated Cement treated Crushed Rock base as a Road Base Material for Western Australian Roads:** PATREC facilitated a successful ARC Linkage Grant award to Curtin University with Main Roads Western Australia industry support. The three year grant (2010-2012) is for \$90,000.

□ **Curtin University's Pavement Research Group** was awarded an ARC Linkage Grant for \$165.1K in 2010 for a three year (2011-2013) program to research hot mix asphalt layer thickness design for longer life asphalt pavements. (Reference: "Pavement research smoothes the way", R&D Now, Curtin University, 2010.)

□ **Yield Management in a Regulated Regional Airline:** PATREC facilitated a meeting of Associate Professor Min Qiu, PhD student Ms J Wang and Skywest Airlines to establish an industry data source and engagement in support of Ms Wang's research program. The progress was reported at the 2010 PATREC Research Forum.

□ **The Samson Family History Project:** PATREC provided a \$3000 seed funding grant to Associate Professor Bobbie Oliver to develop an ARC Linkage Grant submission to research the history of the Samson Family. The family company incorporates the longest established private transport and logistics company in Australia. The submission was not successful in 2010.

□ **Rail Freight Productivity Benchmarking Study:** This project proposal was initiated in 2008 and reactivated by ARG in 2010. The original researcher was Nick Wills-Johnson and he has taken up the opportunity to conduct the research and analysis on PATREC's recommendation. Nick is employed by Acil Tasman and PATREC will receive a small fee.

Research Proposals

Research proposals developed during 2010 included:

- **Regional Infrastructure Research Centre** in conjunction with researchers at UWA - to assess regional infrastructure needs, determine cost effective implementation strategies and provide information and advisory services for the development of regional infrastructure in Western Australia.
- **South West Community Transport Study** in conjunction with Associate Professor Shahed Khan, Curtin University - to investigate transport needs and develop strategies to improve community transport services for 'transport disadvantaged' citizens across the South West Region.
- **Principal Road Freight Network** under the auspices of the freight and Logistic Council of Western Australia - to develop a whole-of-network view of road freight in Western Australia, including criteria for designation, infrastructure standards, concentrate freight on fewer roads and review governance and management of the primary road freight network.
- **Fremantle Port Intelligent Truck and Terminal Access:** In conjunction with DEBII, Curtin University - to develop and model truck arrivals and departures within the North Quay precinct and provide information for both the port authority and operators to improve truck productivity and container throughput.
- **WA Modelling Research Centre of Excellence:** In conjunction with the Departments of Planning and Transport - to investigate the benefits and implications of establishing a single coordinated modelling group to advance strategic transport modelling and engage university resources in research, curriculum development and training of modellers.

Papers/Presentations

A listing of papers prepared by PATREC Research Associates over the period 2005 to 2010 is attached - See Attachment C.

Collaborating Research Organisations

PATREC research collaborators

Centre for Built Environment and Health, The University of Western Australia
City Planning & Sustainability, Murdoch University
Curtin Business School
Digital Ecosystems and Business Intelligence Institute, Curtin University
Faculty of Business and Law, Edith Cowan University
Faculty of Community Services, Education and Social Services, Edith Cowan University
Faculty of Law & Business, Murdoch University
Housing and Urban Research Institute of WA, Curtin University
Information Management and Transport, The University of Western Australia
Institute for Sustainability and Technology Policy, Murdoch University
Murdoch Business School
Research Institute for Sustainable Energy, Murdoch University
School of Architecture and Construction, Curtin University
School of Economics and Commerce, The University of Western Australia Business School
School of Engineering, Edith Cowan University
School of Population Health, The University of Western Australia
School of Psychology, Murdoch University
School of Public Health, Curtin University
School of Urban & Regional Planning, Curtin University

Research Partners

PATREC research funding partners

Australasian Railway Association Inc
Australian Railroad Group Pty Ltd
Australian Research Council
City of Cockburn
City of Gosnells
City of Joondalup
City of Melville
City of Perth
City of Rockingham
City of Swan
CRC for Rail Technology
Department of Planning (WA)
Department of Transport (WA)
Department of Housing and Works (WA)
East Perth Redevelopment Authority
Fremantle Ports
LandCorp (Western Australian Land Commission)
Main Roads WA
Midland Redevelopment Authority
Office of Road Safety WA
Office Crime Prevention WA
Public Transport Authority (WA)
QR (Queensland Rail)
Western Australian Planning Commission

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Academic and Research Staff/Students

Professor Elizabeth Chang	Director, Digital Ecosystems and Business Intelligence Institute	Curtin University
Dr Trudi Cooper	Lecturer, School of Community Services, Education and Social Sciences	Edith Cowan University
Prof Carey Curtis	Professor of Urban and Regional Planning	Curtin University
Professor Tharam Dillon	Research Fellow, Digital Ecosystems and Business Intelligence Institute	Curtin University
Dr Fred Affleck	Adjunct Professor	Curtin University
Dr Mike Dockery	Research Associate, Economics and Finance	Curtin Business School
Dr Lance Fung	Associate Professor, School of Information Technology	Murdoch University
Dr Hamid Nikraz	Professor of Civil Engineering, School of Civil & Mechanical Engineering	Curtin University
John Georgiades	Adjunct Associate Lecturer, Faculty of Business and Law	Edith Cowan University, Now Dept of Transport
Dr Peerapong Jitsangiam	Lecturer, School of Civil & Mechanical Engineering	Curtin University
Professor Billie Giles-Corti	Director, Centre for Built Environment and Health	The University of Western Australia
Professor David Harries	Formerly Director of RISE, Faculty of Minerals and Energy Research, Institute for Sustainable Energy	Murdoch University
Dr Laurence Hartley	Associate Professor, Faculty of Health Sciences, School of Psychology	Murdoch University
Izumi Hart	PhD candidate, School of Psychology	Murdoch University
Delia Hendrie	Lecturer, School of Public Health	Curtin University
Prof Harry Bloch	Professor of Economics, School of Economics & Finance	Curtin University
Dr Farookh Hussain	Research Fellow, Digital Ecosystems and Business Intelligence Institute	Curtin University
Ngoc Quang La	PhD Student, School of Public Health	Curtin University
Dr Peter Lawrence	Adjunct Associate Professor, Faculty of Business & Law	Edith Cowan University
Dr Terry Love	Research Fellow, School of Engineering	Edith Cowan University
Dr Bobbie Oliver	Associate Professor, Department of Social Sciences, School of Social Sciences & Asian Languages	Curtin University
Anusha Mahendran	Research Associate, Economics & Finance	Curtin Business School
Dr Lynn Meuleners	Senior Research Fellow, Public Health	Curtin University
Prof Peter Newman	Professor of Sustainability	Curtin University
Dr Doina Olaru	Lecturer, Information Management and Transport	The University of Western Australia
Dr Roger Thompson	Professor, Dept of Mining Engineering	West Australian School of Mines
Dr Vidyasagar Potdar	Research Fellow, Digital Ecosystems and Business Intelligence Institute	Curtin Business School
Dr Min Qiu	Senior Lecturer, Information Management and Transport	The University of Western Australia
John Smoker	PhD candidate, Curtin University Sustainability	Curtin University

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	Policy Institute	
Yu Chao Sun	PhD candidate, Information Management and Transport	The University of Western Australia
Prof John Taplin AM	Professor of Information Management and Transport	The University of Western Australia
Dr Reena Tiwari	Senior Lecturer, School of Architecture and Construction	Curtin University
Dr Malcolm Tull	Associate Professor of Economics	Murdoch University
Nick Wills-Johnson	Former ARG Research Fellow in Railway Competition Policy	Acil Tasman
Clare Yu	PhD candidate, Information Management and Transport	The University of Western Australia
J Wang	PhD candidate, Information Management and Transport	The University of Western Australia

Education and Knowledge Transfer

Master of Transport Studies

Student Completions Status

1	Graduated with MTS Degree
1	Dissertation to complete
1	Dissertation to submit in 2010
2	Completed with a Graduate Diploma in TS
1	Completed with Post Grad Dip
3	Completed with Graduate Certificate in TS
3	Withdrawn

International Visiting Fellows

Professor B Curtis Eaton, Professor of Economics at University of Calgary and the 2010 Hadyn Williams Fellow gave the keynote address to the 6th Annual PATREC 2010 Research Forum (by arrangement with Prof Harry Bloch).

PATREC Connection Events

Connection events were hosted by PATREC for researchers, students, funding partners and collaborators to engage in research and policy based discussion and networking.

29 April	<i>Experiences in Rail Freight In UK and Europe</i> - Lord Tony Berkeley, Chairman of UK Rail Freight Group, President of European Rail Freight Association, Member, UK House of Lords (in conjunction with the Freight and Logistics Council of WA)
26 May	<i>A Global Supply Chain View of Western Australia in 2050</i> – Brian Haratsis, Founder and CEO of MacroPlan Australia (in conjunction with The Chartered Institute of Logistics and Transport WA)
12 November	<i>The Transport Chain for Western Australia's Exports: Fix It or Shut Shop?</i> - Joint Seminar with the Chartered Institute of Logistics and Transport WA

Sixth Annual PATREC Research Forum 2010

The Sixth Annual PATREC Research Forum was held at The University of Western Australia on Tuesday, 28 September 2010.



PATREC 2010 RESEARCH FORUM PROGRAM

Tuesday, 28 September 2010, 8:30am — 5pm
The University of Western Australia

8:30 - 9:00	Arrival & Registration - Tea & Coffee served	
9:00 - 9:15	Welcome by Prof Greg Martin PSM, Executive Director, PATREC	
9:15 - 9:45	Keynote Presentation by Prof B. Curtis Eaton, Professor of Economics at the University of Calgary: "Is there a Role for Economics in the Management of Crown Corporations: Reflections for the Board Room of the British Columbia Ferry Corporation"	
	Seminar Room 1	Seminar Room 2
9:50 - 10:20	System dynamics evaluation of traffic safety policy: a feasibility study Yang Mian Goh, Curtin University	Review of the Performance of In situ Foamed Bitumen Stabilised Pavements in the City of Canning Colin Leek, City of Canning
10:20 - 10:50	WALGA's Local Government Safe System Project - moving best practice road safety into Local Government policy and practice Andrea Smithson, WA Local Government Association	Development of Hot-mix Asphalt Layer Thickness Design for Longer-Life Asphalt Pavements in Western Australia Peerapong Jitsangiam, Curtin University
10:50 - 11:20	Smart Safe School Bus Prof Torbjorn Falkmer, Curtin University	3D FE modelling of conventional segmental block pavers, and how mechanically-interlocking osteomorphic blocks can be a viable alternative. David Yong, University of Western Australia
11:20 - 12:00	Lunch	
	Seminar Room 1	Seminar Room 2
12:00 - 12:30	Identifying and Improving the Levels of Service provided by WALGA's "Report on Local government road Assets and Expenditure" Mukul Soul, University of Western Australia	Changing hands in aircraft maintenance - A flight safety concern Devinder K Yadav
12:30 - 13:00	Transportation and Taxation: A Relationship but no marriage. Prafula Pearce, Curtin University	Structural Health Monitoring for Air Transport Safety Prof Steven Hinckley, Edith Cowan University
13:00 - 13:30	The Skills Shortage in the Transport Discipline: "How do we manage this into the future or are we being "short-changed" by complacency? Heidi Lansdell, Donald Veal Consultants	Revenue management Considering consumer Choice Behaviour for a Regional Airline. Jue Wang, The University of Western Australia
13:30 - 14:00	Housing prices around Transit Orientated Developments Brett Smith, University of Western Australia	Analysis of Carbon Pricing Models Based on Accountability in the context of Aviation Industry Valencia Lo, Curtin University
14:00 - 14:20	Afternoon Tea	
	Seminar Room 1	Seminar Room 2
14:20 - 14:50	Exploring the interaction of TOD and Activity Spaces - A geospatial analysis of the Southern suburbs Railway using kernel density estimation Markus Botte, University of Western Australia	Performance, Evaluation, and Enhancement of Hydrated Cement treated Crushed Rock Base (HCTCRB) as a Road Base material for Western Australia Peerapong Jitsangiam, Curtin University
14:50 - 15:20	Estimation of the Demand for Cycling End-of-Trip Facilities within the City of Perth Richard Isted, City of Perth	An Investigation into the performance of Recycled Concrete Aggregate as a Base Course Material in Road Pavements Colin Leek, City of Canning
15:20 - 15:50	Transport safety for children with disabilities Prof Torbjorn Falkmer, Curtin University	A comparison of Car Following Models in Real-World Urban Traffic Situation Sarah Peursum, Curtin University
15:50 - 17:00	Refreshments & CY O'Connor Prize Award	

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The C Y O'Connor Prize for the best paper was presented to Dr Doina Olaru, Dr Brett Smith and Jessica Symington from The University of Western Australia.

Associated papers are available at

http://www.patrec.org/forum/2010/research_forum_2010.aspx

Curtin Corner

PATREC and the John Curtin Institute of Public Policy jointly sponsored a weekly guest presentation and discussion group throughout 2010. Curtin Corner Program 2010 - See Attachment D.

Collaborative Activities

John Curtin Institute of Public Policy

The Executive Director participated in the public policy short courses conducted for the Departments of Planning, Transport and Regional Development and Lands and a public policy unit for Curtin university MPA students.

UWA Centre for Built Environment and Health

The Executive Director chairs the Capacity Building Grant meeting of researchers in the Centre and provides guidance on sponsorship opportunities and research program applications.

TOD Coordinating Committee

The Executive Director is a member of the inter-agency coordination committee guiding development of policy and practice in transit oriented development in the Perth metropolitan area.

Transport Modelling Coordination Group

The Executive Director is a member of the Group steering the further development of modelling capability across the departments of Planning and transport and main Roads Western Australia. This initiative arose from the review by Prof John Taplin on 2009.

Perth Waterfront Project Transport Reference Group

The Executive Director was a member of the inter-agency reference group advising on transport issues and solutions for this major government city building initiative during 2010.

Digital Ecosystems and Business Intelligence Institute

The Executive Director is a member of the Advisory Board of DEBII, in the Curtin Business School.

Curtin Graduate School of Business

The Executive Director is a member of the Advisory Board and led a subcommittee of the Board in developing a "Positioning the CGSB of the Future" strategy paper.

Curtin - Monash Universities Accident Research Centre

The Executive Director is a member of the Board of Management.

Other Activities

Specialised Road Research Services

PATREC joined with ARRB and was successful in award of the Provision of Specialised Road Research Services Contract to Main Roads Western Australia. ARRB's capacity to undertake operational and tactical research projects combined with PATREC's capacity in specialist strategic research will enable PATREC and ARRB to positively influence the transport research agenda and outcomes in Western Australia. An example was the preparation of a feasibility study to establish the centre of excellence in pavement asset research.

Regional Freight Network Plan for Western Australia

PATREC joined with Sd+D in a tender "For provision of expert analysis, strategic advice and assistance to support development of the Western Australian regional freight plan" for the Department of Transport. The tender was successful and the work will be undertaken during 2011.

Conference Organising Committees

- 8th International Conference on Managing Fatigue, Fremantle, March 2011
- New Urbanism and Smart Transport International Conference, Perth September 2011.

Australian Transport Research Forum (ATRF)

PATREC provides a complete register of all papers presented at ATRF Conferences and notices of forward conferences on its website. The 2012 ATRF Conference will be held in Perth.

Presentations

The Executive Director made the following presentations during 2010:

Date	Forum/Title	Sponsor
6 February	Presentation – “Positive change needs more than just a plan”	NSW Regional Truck Forum, Dubbo
9 March	Witness – Inquiry into Commonwealth – State Road Funding	Road Safety Committee, Parliament of Victoria
21 March	Presentation of Case Studies “Policy Making in the Real World”	MPA Public Policy Analysis and Design, Curtin University
29&30 March	Presentation – “Introduction to Public Policy – Implementation Case Studies”	JCIPP-PATREC for DoP, DoT
22 April	Speech – “Transport Reform”	Roads Australia National Road Summit 2010
27 April	Panelist – “Planes trains automobiles – getting the mix right in our metro areas”	Australian Financial Review National Infrastructure Conference 2010
14 May	Presentation – “National Transport Reform – a road too far?”	JCIPP/PATREC Curtin Corner
11 September	Keynote Presentation – “Driving change – update on key NTC reforms” + Panel Member	LRTWA & ALTA National Conference, Perth
19 September	Invited Presentation – “Heavy vehicle road pricing reform in Australia – unlocking productivity and investment” + Workshop Member	APEC 2010 EoDB Workshop, Sendai, Japan
3 November	Address to EMRC – “Public Transport – issues and prospects”	EMRC & Curtin University
3 November	Article: “Long-term planning provides short-term benefits”	Rail Express
8 & 9 November	Presentation – “Introduction to Public Policy – Implementation Case Studies”	JCIPP-PATREC for DoP, DoT

12 November	Panelist – “Transport Supply Chain for WA’s Export Ports”	CILTA WA
24 November	Panelist – “The Rail Plan: Where? How? Why?”	AusRail Conference, Perth
29&30 November	Presentation – “Introduction to Public Policy – Implementation Case Studies”	JCIPP-PATREC for DoT, DoRD&L

The Cranlana Programme

The Executive Director, Greg Martin completed The Colloquium “Creating Wisdom in Leadership” in Perth from 10 to 15 October 2010.

Awards and Appointments

2010 Transport Medal

Executive Director, Greg Martin was awarded the 2010 Transport Medal by the National Committee on Transport Engineering of Engineers Australia in November 2010.

National Transport Commission

Executive Director, Greg Martin is Chairman of the Commission. (Appointed by The Hon Anthony Albanese MP, Minister for Infrastructure, Transport, Regional Services and Local Government on 4 September 2008.)

Greg Martin traveled to USA and Canada from 26 June to 11 July to hold discussions on transport policy and regulation with government agencies, industry associations and research institutes.

He traveled to Japan from 16 to 21 August to participate in an APEC 2010 Workshop on “Ease of Doing Business Across Borders”.

Western Australian Freight and Logistics Council

Executive Director, Greg Martin is a member of the Council. (Appointed by the Hon Simon O’Brien MLC, Minister for Transport on 12 March 2009.)

Taxi Industry Board

Executive Director, Greg Martin is Deputy Chair of the Board and Chair of the Taxi Industry Board Reference Group. (Appointed by the Hon Simon O’Brien MLC, Minister for Transport on 14 May 2009.)

WA Transport Policy Advisory Group

Executive Director, Greg Martin is a member of the Group, providing counsel and guidance to the Executive team of the Department of Transport.

Business Plan 2010

Key Performance Indicators:

Number of projects and assessed value to stakeholders
(Consistent with the PATREC Strategic Plan 2009-2010)

- Western Australian Pavement Asset Research Centre - feasibility study completed
- Business Intelligence Project for Vehicle and Driver Licensing - ARC Linkage Grant plus additional contract pending
- Real Time Systems for Road Network Management - ARC Linkage Grant
- Hydrated Cement Treated Road Base - ARC Linkage Grant

Research funding, sponsorship and fee revenue generated

- PATREC Partner funding - new members DoT, WAPC
- ARC Linkage Grants - DEBII and Curtin-PRG
- MRWA Road Safety Research Fellowship
- Activities - JCIPP, Joint Industry Consultancies

Number of conferences, forums, workshops and seminars

- PATREC Connection Events
- 6th Annual PATREC 2010 Research Forum

Satisfaction of Board (shareholders) and stakeholders

- Board resolutions
- Funding commitments for 2010
- 2010 PATREC Review

Reputation of PATREC as facilitator and/or contributor on public policy

- ARC Linkage Grants
- ED appointments, including agency policy committees and university advisory boards

Financial viability and management of PATREC

- Annual Business Plan and Budget
- Year end retained earnings
- Financial Audit
- Four Board meetings in 2010
- PATREC contact lists reviewed

Attachments

- A PATREC Review 2010 - Terms of Reference
- B PATREC Business Plan 2010
- C Papers by PATREC Research Associates - 2005 to 2010
- D Curtin Corner Program 2010

Annual Review 2010

Prepared by:
Professor Greg Martin PSM
Executive Director
January 2011

Attachment A

PATREC REVIEW 2010 – TERMS OF REFERENCE

To investigate, report on, and make recommendations to the full PATREC Board on:

- (a) Performance to date of PATREC in relation to its principal objectives, roles and outcomes and the extent to which the collaborative model of engagement is providing benefits and expected outcomes*
- (b) The extent to which the current objectives, roles and outcomes are consistent with the prevailing university research environment*
- (c) Need, priorities and level of support for the research and capacity building functions that PATREC performs across universities, government and industry*
- (d) Changes to the PATREC operating model to improve its contribution and effectiveness*
- (e) Should PATREC continue to function after its present agreed term, which ends on 31 December 2012, and if so:
 - a. The appropriate objectives and scope of activities for PATREC in the future;*
 - b. Future governance arrangements for PATREC;*
 - c. PATREC's strategies for the future;*
 - d. Any amendments to the Memorandum of Understanding (MOU) entered into the parties on 20 September 2007;*
 - e. The appropriate term of the new MOU;*
 - f. The future PATREC 'funding model';*
 - g. The timing of any relocation of PATREC to a partner university**
- (f) Opportunities to model changes in the operating model before the Board decides on an extension of PATREC beyond 2012*

The Review Committee should submit its final report and recommendations to PATREC Board Meeting No. 24 on Thursday, 18 November 2010

22 July 2010

Attachment B

Planning and Transport Research Centre

Business Plan 2010

Business Outlook

The contraction of economic activity and the decline in consumer confidence in 2009 was not as severe as anticipated, although there was a holding back on investment and expenditure - across government and industry. 2010 is expected to see an expansion of mining and energy developments across the State and some hesitancy about recovery which will put pressure on economic and social infrastructure and government budgets.

In these circumstances, the environment in which to engage clients and sponsors in supporting the activities of PATREC will again be challenging.

Drivers

The underlying circumstances remain for the longer term. The drivers centre on meeting demand in a sustainable way, i.e. meeting demand while managing within constraints.

- Population and economic growth - Minerals and energy expansion, infrastructure capacity and condition, demand for housing and community services, urban congestion, regional services, demand for skilled labour
- Climate change - GHG emissions, temperature rise, sea level changes
- Energy supply - security of supply, costs, alternative sources
- Cost of urban services - utilities, public transport, communications
- Community expectations - accessibility, livability, social equity

Objectives

- Mobilise and strengthen shareholder support
- Broaden contacts and liaison across the universities
- Establish wider and longer term government agency and industry partnerships
- Engage more researchers and practitioners on PATREC project initiatives
- Facilitate a continuing program of knowledge transfer between researchers and practitioners

Actions for 2010

In accordance with the primary interest areas in the PATREC Strategic Plan 2009 - 2010, the actions planned are:

- Lead/participate/advance research project/program initiatives - e.g. state strategic infrastructure corridor study in the mining region, indigenous community access roads, road pavement research centre, business intelligence project for vehicle and driver licensing (ARC Grant submission), South West regional transport study
- Explore research opportunities with faculties/schools of business, engineering, health and social sciences across universities. Investigate a WA role in a prospective CRC for ports
- Host International Visiting Research Fellows, workshops, lectures and sponsor visits
- Develop industry relationships - e.g. mining, ports, rail and road transport, safety, urban and regional development
- Develop government agency relationships - e.g. state development, regional development, mining and petroleum, treasury, local government
- Develop community organisation relationships - e.g. RAC, road safety
- Participate in government advisory committees/boards - freight transport, taxi industry, urban development
- Convene workshop/symposia on research results from the ARC Linkage Grant on *Impacts of transit led development in a new rail corridor*; three PATREC Connection events and the 6th Annual PATREC Research Forum 2010
- Continue to support students, researchers and advisory boards in participating universities - e.g. CBE&H, C-MARC, DEBII, CREST, C-GSB
- Review, update and segment PATREC contact lists
- Contribute as presenter, discussion leader and panelist to conferences and workshops on current planning and transport issues
- Investigate and advise the Board on detailed arrangements for the foreshadowed transfer of PATREC to The University of Western Australia in 2011

Assistance by the PATREC Board

Board members' advice, guidance and direct assistance will ensure the effectiveness of these actions and delivery of valued outcomes.

Key Performance Indicators:

- Number of projects and assessed value to stakeholders
- Research funding, sponsorship and fee revenue generated
- Number of conferences, fora, workshops and seminars
- Satisfaction of Board (shareholders) and stakeholders
- Reputation of PATREC as facilitator and/or contributor on public policy
- Financial viability and management of PATREC

Board Reports

The Executive Director will report formally to the PATREC Board at scheduled meetings on 18 February, 20 May, 19 August and 18 November 2010.

Attachment C

Papers by PATREC Research Associates - 2005 to 2010

CURTIN

Yang Mian Goh, Brett Hughes (2010) Systems dynamics evaluation of traffic safety policy: a feasibility study

Prof Torbjorn Falkmer (2010) Smart Safe School Bus

Prof Torbjorn Falkmer (2010) Transport safety for children with disabilities

Prafula Pearce (2010) Transportation and Taxation: A relationship but no marriage.

Peerapong Jitsangiam, Komsun Siripun, Hamid Nikraz (2010) Development of Hot-mix Asphalt Layer Thickness Design for Longer-Life Asphalt Pavements in Western Australia

Peerapong Jitsangiam, Komsun Siripun, Hamid Nikraz (2010) Performance, Evaluation, and Enhancement of Hydrated Cement treated Crushed Rock Base (HCTCRB) as a Road Base material for Western Australia

Peerapong Jitsangiam, Komsun Siripun, Hamid Nikraz (2010) Forensic Evaluation of Rapid Deterioration on Major Highways in Perth Metropolitan Area

Valencia Lo (2010) Analysis of Carbon Pricing Models Based on Accountability in the context of Aviation Industry

Sarah Peursum, Yong Hong Wu, Volker Rehbock (2010) A comparison of Car Following Models in Real-World Urban Traffic Situation

Dr Bobbie Oliver (2009) Writing the Union: History Lessons for Transport Planners?
Y S Yeo, Peerapong Jitsangiam, Hamid Nikraz (2009) Sustainability Assessment of Hydrated Cement Treated Crushed Rock Base (HCTCRB)

Roger Thompson (2009) Ultra-heavy Axle Loads: Design and Management Strategies for Mine Pavements

Nick Wills-Johnson (2008) Railway Dreaming: Lessons for economic regulators from Aboriginal resource management lore

Ali Mohammed Darabi Golshani, Hamid Nikraz, (2008) An Overview of Economic Costs of Road Traffic Accidents in Gulf Countries

Saad Jubran H Al Kahtani, Cecilia Xia, Bert Veenendaal (2008) Modelling accessibility and connectivity to tourist attractions using Geographic Information System (GIS): a case study of Ningaloo region, WA

Anusha Mahendran, Michael Dockery (2008) Forecasting the Workforce Needs of the Australian Rail Transport Industry (ARTI)

Reena Tiwari, Carey Curtis (2008) Traffic Management and Place-Making Aspects of Urban Arterials

Peter Newman, Billie Giles-Corti, (2008) Living on the Edge: Transport Sustainability in Perth's Liveable Neighbourhoods

Prof Peter Kenyon, Paul Koshy (2007) Third Party access to Infrastructure; The case of the Mt Newman rail line in the Pilbara

Carlindi Holling (2007) Evidence of Consumer Demand for Housing in TOD Precincts

Anusha Mahendran and Dr Michael Dockery (2007) Forecasting Future Labour Demand in the Australian Rail Transport Industry

Carlindi Holling, Fiona McKenzie (2007) Housing in Railway Station Precincts: Some empirical evidence of consumer demand for Transit Orientated Housing in Perth, Western Australia.

Nick Wills-Johnson (2007) The productivity of Australia's railways in the 20th Century - consequences for a growing, sustainable industry.

Nick Wills-Johnson (2007) Arrow's Impossibility Theorem and the Management of Joint-Use Infrastructure

Nick Wills-Johnson (2007) Competition Policy and Railway Investment.

Nick Wills-Johnson (2007) Separability and Subadditivity in Australian Railways.

Nick Wills-Johnson (2006) Competition in Rail: A likely proposition?

Nick Wills-Johnson (2006) A problem looking for a Solution or a Solution looking for a problem?

Nick Wills-Johnson (2006) The Networked firm: A Framework for RBV

Nick Wills-Johnson (2006) Quantifying social Capital.

Ryan Falconer, Prof Jeffrey Kenworthy & Prof Billie Giles-Corti (2006) Model suburbs? Investigating transport, health and quality outcomes in Perth/Peel's 'liveable neighbourhoods'

ECU

Steven Hinckley, Graham Wild (2010) Structural Health Monitoring for Air Transport Safety

Divinder K Yadav (2010) Changing hands in aircraft maintenance – A flight safety concern

Trudi Cooper, Paul Cozens, Terry Love, Joe Clare, Frank Morgan (2008) Futures methodology for crime prevention in Southern Rail Corridor

Frank Morgan, Trudi Cooper, Paul Cozens, Terry Love, Joe Clare, Frank Morgan (2008) Futures methodology for crime prevention in Southern Rail Corridor

Joe Clare, Trudi Cooper, Paul Cozens, Terry Love, Joe Clare, Frank Morgan (2008) Futures methodology for crime prevention in Southern Rail Corridor

Christine. Teague, D. Leith (2008) Who Guards Our Guardians? The Use of Ethnography to Study How Railway Transit Officers Avoid Injury.

John Georgiades (2007) Western Australia's Grain Freight Network – Is it really contestable?

Trudi Cooper, T., Love, T. et al. (2006). Research into Integrated Crime Prevention Strategies for Rail Station Environs: Preliminary Findings.

MURDOCH

Malcolm Tull (2009) Western Australia's ports, Historical encyclopedia of western australia

Malcolm Tull, Fred Affleck (2008) The Performance of Western Australian Ports, Ocean Economics Review of China

Malcolm Tull, MT, Reveley, J 2008, Introduction: Port Reform in the Asia-Pacific Region,

Malcolm Tull, J Reveley (2008) Privatisation Postponed: Convergence and Divergence in Australia and New Zealand Port Reform

Izumi Hart (2007) Analysis of Rail Safety Occurrence Investigation Reports for Proactive Safety Management

Cali Gorewitz (2007) Affordable housing in TOD

Malcolm Tull (2007), The environmental impact of Ports: An Australian Case study, Making Global and Local Connections: Historical Perspectives on Ports, International Maritime Economic History Association, St John's, Newfoundland, 35, 85-106

Malcolm Tull (2007) The port of Dubai, Encyclopedia of Maritime History, Oxford University Press, New York, USA, 2, 589-590

Malcolm Tull (2007) The Port of Fremantle, Encyclopedia of Maritime History, Oxford University Press, New York, USA, 2, 63-64

Izumi Hart (2006) Preliminary investigation into benchmarking the safety culture in the Australian rail industry

Malcolm Tull (2006) The environmental impact of ports: an Australian Case study, Malcolm Tull (2006) Australia and New Zealand, History of World Trade since 1450

Malcolm Tull (2006) Port Cities, History of World Trade since 1450

Malcolm Tull (2005) Ports and the environment: an Australian perspective

UWA

Brett Smith, Z Abdoolakhan, John Taplin (2010) Demand and choice elasticities for a separable product group [deals with household demand for car fuels]

- Doina Olaru, Brett Smith, John Taplin (2010) Residential location and transit-oriented development in a new rail corridor
- Yu Chao Sun, Min Qiu, John Taplin, J. (2010) Achieving residential density and centrality goals with an evolutionary layout model in a greenfields area
- Carey Curtis, Doina Olaru (2010) "The relevance of traditional town planning concepts for travel minimisation"
- Carey Curtis, Doina Olaru (2010) The impacts of a new railway: Travel behaviour change of residents in new station precincts
- Markus Botte, Doina Olaru (2010) Exploring Activity Space Metrics along a New Transit Oriented Development Corridor
- Jessica Syminton, Brett Smith, Doina Olaru (2010) "Housing prices around TOD developments"
- Markus Botte, M. and Olaru, D. (2010) "Measuring the Interactions of TOD with Activity Spaces – A GeoSpatial Analysis of the Southern Suburbs Railway using Kernel Density Estimation"
- Jui Wang, Min Qiu (2010) Revenue Management Considering Consumer Choice for a Regional Airline
- Mukul Soul, Melinda Hodkiewicz (2010) Identifying and Improving the Levels of Service provided by WALGA's "Report on Local government road Assets and Expenditure"
- David Yong, Arcady Dyskin (2010) 3D FE modelling of conventional segmental block pavers, and how mechanically-interlocking osteomorphic blocks can be a viable alternative
- Mukul Soul, Melinda Hodkiewicz (2010) Identifying and Improving the Levels of Service provided by WALGA's "Report on Local government road Assets and Expenditure"
- John Taplin, Min Qiu (2009) Optimizing a sequence of investments in a congested road network subject to strict Pareto optimality, 18th World IMACS / MODSIM Congress, Cairns,
- Ghassan Daban. (2009) A successful TOD will reinforce both the community and the transit system, 5th Annual PATREC Research Forum, October, Curtin University.
- Guo, J. and Qiu, M. (2009) Analysis of latent classes by survey response durations in a driving behaviour simulator with in-vehicle traffic information, 8th National Conference for Young Researchers in Traffic and Transport 2009, Shanghai, China, October.
- Guo, J., Qiu, M. and Taplin, J. (2009) Modelling driver behaviour with innovative in-vehicle information: development of a stated-preference simulation tool, 16th World Congress on ITS, Stockholm, Sweden, 21-25 September.
- Murphy, J., Hofacker, C., and Olaru, D. (2009) Rigor in Research. Formative and Reflective Constructs, *Annals of Tourism Research* 36, 730-734

Dr Michaela Evans (2009) Graffiti artists and their relation with the railway system

Zeenat Abdoolakhan (2008) Estimating elasticities of household demand for fuels from choice elasticities based on stated preference

J Guo, (2008) Modelling user response to innovative traveller information systems

Min Qiu, (2008) Coastal port reform in China

Ghassan Daban, G. (2008) Optimizing transit oriented development in a low density city dominated by private cars.

Doina Olaru, S Emery (2007) Simulation and GA-optimisation for modelling airport operation

Carey Curtis, Doina Olaru (2007) Travel 'minimisation' and the neighbourhood.

Carey Curtis, Doina Olaru (2007) Is Transit Oriented Development reducing the activity spaces?

Lixi Zhang, L (2007) Vehicle Routing in Reverse Logistics

Dr Terri Pikora, Prof Billie Giles-Corti, Prof Matthew Knuiman, Dr Kimberly van Niel, Max Bulsara, Dr Fiona Bull & Trevor Shilton (2006) The impact of urban design on walking and cycling: the RESIDE Project

Sarah Foster, Prof Billie Giles-Corti & Prof Matthew Knuiman (2006) Perceptions of safety in suburban neighbourhoods: exploring the moderating influence of the physical environment

Doina Olaru (2006) Activity Spaces and Exposure to Air Pollutants, Proceedings of The XIV PANAM Conference of Traffic and Transportation Engineering, Las Palmas de Gran Canaria, Spain, September 20-23.

Zeenat Abdoolakhan (2006) Choice factors in the adoption of alternative fuels and new technology vehicles: results from a pilot survey

Hui (Clare) Yu(2006) A Binary Logit Model to Integrate Economic, Environmental and Social Factors for Formulating and Prioritising Transport Policies

Doina Olaru, Brettand Smith (2005) Modelling behavioural rules for daily activity scheduling using fuzzy logic

Doina Olaru, N Smith and J Peachman (2005) Whereabouts from Monday to Sunday?,

Doina Olaru, T Beer, J Powel, R Gillett (2005) Linking activity-travel analysis and exposure assessment. Benefits and challenges

Doina Olaru, N Smith, T Ton (2005) Activity spaces and travel time in Sydney.

Doina Olaru, N Smith, T Ton. (2005) Activities, accessibility and mobility for individuals and households

T Ton, N Smith, Doina Olaru. (2005) Research challenges in using virtual driving environment for evaluating Intelligent Transport Systems, In the Proceedings of IVRI 2005, Melbourne, February.

N Smith, V Salim, J Gannon, Doina Olaru, M Wigan (2005) Matching user demand and technical supply for the design of traveller information services

H.I Yu (2005) Willing to Pay for Environmental Externalities, for Self-Interest or for Community-Interest?,

T Grant, T Beer, Doina Olaru (2005) Life Cycle Assessment of Greenhouse Gas Emissions from Proposed Primary Energy Bio-Refinery Facility

Doina Olaru, Zeenat Abdoolakhan, N and Smith (2005) Choice factors in the adoption of alternative fuels and new technology vehicles: An SP approach

Attachment D Curtin Corner Program 2010

Date	Name	Position / Affiliation	Title	Subject Area
Mar 5	Prof. John Phillimore	Executive Director – JCIPP	The Australian Technology Network	Education Policy
12	Robert Carling	Visiting Fellow – CBS	What the global financial crisis means for Australian tax reform	Economic Policy
19	Simon Lewis	Associate Professor – Department of Chemistry,	The Fickle Finger of Fate: The science of fingerprints	Forensics
26	Brett Hughes	Director - C-MARC (Curtin Monash Accident Research Centre)	Australian Transport Policy: Asleep at the Wheel?	Transport Policy
Apr 2	Jesus O. Nazarath	Managing Director – Heaven	Good Friday . . . Is it that good?!	State Executions
9	Paul Rosair	Director General – Department of Regional Development and Lands	Royalties for Regions	Regional Policy
16	Martin Whitely	MLA for Bassendean / MPhil Candidate – JCIPP	The Politics of ADHD	Health Policy
23	Theodora Issa	Lecturer – School of Management	Environmental Ethics – Business Sustainable Development Strategy	Ethics
30	James Pearson	Chief Executive - Chamber of Commerce and Industry	Labour Market Policy	Labour Market Policy
May 7	David Ansell	Acting Executive Director – Office of Early Childhood Development and Learning, WA Dept of Education & Training	Why Does Government Get Such Poor Traction on Priorities: Wrong Policies or Poor Implementation?	Public Sector Management
14	Greg Martin	Director - PATREC	National Transport Reform – Where are We Headed and Why?	Transport Policy
21	Mark Pitman	Postdoctoral Research Fellow - School of Civil & Mechanical Engineering	Sustainable Building Design	Engineering

28	Carolyn Johnson	Lecturer - School of Occupational Therapy & Social Work	Familicide and Family Law	Social Policy
Jun 5	Guido Gadowsky	Senior Manager - PricewaterhouseCoopers Australia	Appreciating Value	Management
11	Mike Dockery	Associate Professor – School of Economics & Finance	Degrees of Misery? Educational Attainment and the Happiness of Young Australians	Education Policy
9	Assoc. Prof. Maryam Omari	Associate Dean (International) - Faculty of Business & Law, Edith Cowan University	Bullying: Psychological warfare at work	Management
16	Mark Fernandez	State Manager – Franchise Alliance Western Australia	The State of Play: Franchising in WA and Beyond	Economic Policy
Aug 6	Johnathan Duffy	CEO - Adventist Development and Relief Agency (ADRA) Australia		
13	Glen Arendts	Adjunct Research Fellow - School of Nursing & Midwifery Associate Professor – Emergency Medicine, UWA	Can a case be made for withholding emergency hospital care from older people in nursing homes?	Health Policy
20	Martin Brueckner	Lecturer – School of Management	‘Under corporate skies: A struggle between people, place and profit’	
23	Darren Lommon	CEO – Dreamfit Foundation		Disabilities Policy
Sep 3	Alan Tapper	Research Fellow – Research and Development, Curtin	Informal voting.	Ethics
17	John Phillipmore	Professor - JCIPP	Australian Federalism in Review	Federal Policy
Oct 1	Taryn Harvey	Executive Officer - Developmental Disability Council		Disabilities Policy
15	Barbara Pini Robin Mayes Paula McDonald	Professorial Fellow – JCIPP Research Fellow – JCIPP Senior Lecturer – Queensland University of Technology	Elite Private Schooling in Australia	Education Policy
22	Torbjorn	Senior Research Fellow -	Traffic safety for	Traffic Policy

	Falkmer	School of Occupational Therapy and Social Work	children with disabilities	
29	Curtis Eaton	Visiting Professorial Fellow		
Nov 5	Sunil Govinnage	Independent researcher	End of the Civil War in Sri Lanka and the implications for Australia	Foreign Policy
12	Karl O'Callahan	WA Police Commissioner		Policing Policy
19	Judy Katzenellenbogen Kate Taylor Sandra Thompson	Postdoctoral Fellow – Centre for International Health Associate Professor - Centre for Developmental Health Director - Combined Universities Centre for Rural Health	Disparities in cardiovascular disease in indigenous Western Australians	Indigenous Policy
26	Ric Lowe	Professor of Learning Technologies – School of Education	Use of short animated iconic message sequences to give train travellers in France better information for handling disruptions and changes in services.	Education / Transport Policy