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

The Annual Review 2006 provided a comprehensive reference on the role, structure and governance, collaborative arrangements and programs of PATREC. This Annual Review 2007 describes the year’s achievements, the outcome of the review of the first five year term of PATREC and the subsequent agreement of the collaborating universities to extend the Memorandum of Understanding to 2012.
PATREC wins a new five year term...

2007 saw the completion of the first five year term of PATREC, a unique instrument to engage researchers across the four public universities in Western Australia with the goal of increasing capacity and capability in research and practice in the broad fields of planning and transport.

The board commissioned an independent review of PATREC’s performance for the first five years and the report which concluded that “PATREC has met or exceeded expectations in respect of its build of capability and capacity but that sustainable numbers in the MTS are yet to be achieved.” This positive finding is a tribute to the dedication and excellent foundation built up by Professor Fred Affleck as the inaugural director of PATREC.

The principal recommendation of the review was that “the four collaborating universities recommend to their universities that they continue to support PATREC for a second term of five years.” The Board has approved this extension.

Highlights of the year included continuing strong support of PATREC by the universities and government and industry stakeholders, steady progress to completion of sponsored research, enthusiastic participation by current MTS students and a successful Third Annual PATREC Research Forum.

Changes in Board and management of PATREC occurred during the year. Professor Andris Stelbovics retired from the Board and his support and encouragement for the PATREC model was much appreciated especially during the formative start-up phases. On behalf of the Board I thank Andris for his a valuable contribution.

The Board welcomed new members Eric Lumsden PSM, Director General of the Department for Planning and Infrastructure, who replaced Greg Martin, and Menno Henneveld, Commissioner of Main Roads Western Australia.

Professor Fred Affleck, Business Manager Andrew McLean, and Course Coordinator Marsha Tsang left PATREC and each is commended for the tremendous energy they devoted to PATREC and the foundation they established for the second term. The Board expresses its gratitude to each of them for their achievements.

Greg Martin was appointed as Professor of Planning and Transport Studies and Executive Director of PATREC and commenced in the role on 3 September. Tania Carter was appointed PATREC’s Business Manager on 6 June.

The Board looks forward with anticipation and confidence to 2008 and the value PATREC can deliver to its stakeholders.

Stuart Hicks AO
Chair
Planning and Transport Research Centre
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PATREC Contacts

Professor Greg Martin
Executive Director

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patrec@curtin.edu.au

www.patrec.org
Highlights

Review - recommendations

- Universities support PATREC for a second term of five years
- PATREC produce a business plan for 2008 to 2010
- A four part strategy for the future
  - Secure excellence in teaching and enhance student experience
  - Produce research of the highest quality
  - Engage with the community
  - Formulate and implement a planned program of expansion

Business Plan 2008-2010

- Extend the PATREC MOU for five years to 31 December 2012
- Sustain MTS and extend the MTS MOU
- PATREC to obtain additional resources to expand its research program
- PATREC to draft a ‘research project management protocol’
- Alternative financial scenarios to secure PATREC’s financial future

Board Decisions

- Universities approved a second five year term for PATREC
- Enrolments for the MTS in 2008 to be suspended
- A package of actions to move forward with the educational component of PATREC’s program to be presented to the Board
- University subscriptions to PATREC determined and approved
- Commissioner of Main Roads Western Australia to join the Board

Professional Education

- MTS MOU extended and currently enrolled MTS students assured they can complete their degree

Research Program

- A PATREC ‘research project management protocol’ developed
- Grant income from PATREC initiated research projects/programs in 2007 was $1.34 million

Finance

- The cash balance in PATREC was $314,852 as at 31 December 2007
Governance

The Board

At 31 December 2007 PATREC’s Board comprised the following members:

Adj Prof Stuart Hicks AO Independent Chairman
Prof Jane Den Hollander Representing Curtin University of Technology
Prof Robert Harvey Representing Edith Cowan University
Prof Jim Reynoldson Representing Murdoch University
Prof Doug McEachern Representing The University of Western Australia
Mr Eric Lumsden PSM Representing the Department for Planning and Infrastructure
Mr Menno Henneveld Representing Main Roads Western Australia

Adjunct Professor Stuart Hicks AO, BEc, FAIM, FCILT, FAICD, MIMC is also 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 Jane den Hollander BSc(Hons), MSc, DPhil is Deputy Vice Chancellor, Academic Services at Curtin University of Technology.

Professor Robert Harvey BEc (Hons), MBA is Executive Dean in the Faculty of Business and Law and Pro Vice Chancellor, Equity & Indigenous at Edith Cowan University.

Professor Jim Reynoldson BSc(Hons), PhD is Deputy Vice-Chancellor Research at Murdoch University.

Professor Doug McEachern BA(Hons), MA, PhD is Deputy Vice-Chancellor, Research and Innovation at The University of Western Australia.

Mr Eric Lumsden PSM, MBA, LifeFPIA, FLGMA, FAIM is the Director General of the Department for Planning and Infrastructure, Western Australia

Mr Menno Henneveld BE, PGDiplAdmin, FIEAust, FAICD, MCILT is the Commissioner of Main Roads Western Australia
Management Team

Changes in all staffing positions occurred in 2007. Professor Fred Affleck resigned on 14 September 2007 and took up an appointment in the Office of Research and Development in Curtin University. Greg Martin was appointed Professor of Planning and Transport Studies and commenced as Executive Director on 3 September 2007 with a two week handover with Professor Affleck.

Andrew McLean was appointed as Director of Business and Education programs in the John Curtin Institute for Public Policy and Tania Carter commenced as Business Manager for PATREC on 6 June 2007.

PATREC Review

PATREC, the Planning and Transport Research Centre, was established in November 2002 as a collaborative investment by the four public universities in Western Australia. The overarching Memorandum of Understanding was set to expire on 18 November 2007.

The PATREC Board commissioned a review to evaluate the performance of PATREC in its ‘first term’ (May 2003 to November 2007) and to identify key issues and provide a basis for negotiation (if appropriate) of an extended, amended or new MOU.

The recommendations of the review\(^1\) are:

1. That members of the Board representing the four collaborating universities recommend to their respective universities that they continue to support PATREC for a second term of five years.
2. That the four collaborating universities continue to provide financial support for the operations of PATREC.
3. That the State Government be requested to continue providing financial support for the operations of PATREC.
4. That the Executive Director prepare for consideration by the Board at its meeting in June 2007 a Business Plan for the 3 years from 1 January 2008 to 31 December 2010, taking into account the detailed findings of the Review Report in relation to the operations of PATREC. The plan should be presented in a format as would permit the document to roll forward on annual basis to cover the 5 year scope of the proposed MOU.

\(^1\) Review of the Planning and Transport Research Centre, Cressida Consulting Pty Ltd, March 2007.
5. That the Business Plan include:

a) Performance expectations for PATREC across the 2007-2010, sufficient to ensure sustainable growth for the organisation and to better inform the basis for continuing review of PATREC’s performance.

b) Rationale and recommendations for a scheme of indexation to apply to the annual financial contributions from the collaborating universities and government partners.

c) Strategies to ensure a sustainable level of student participation in the MTS and associated Post Graduate Programs is achieved by the 2009 academic year.

d) Risk assessment and management strategies attaching to key assumptions and operating risks determined in the business plan including securing additional resources, sponsorship etc.

6. That the Executive Director consult with the four universities to draft a new MOU to:

a) Continue PATREC with its current scope of collaboration and its dual functions of providing for collaborative postgraduate education and high quality of research in the fields of planning and transport,

b) Confirm a revised a termination date of 31 December 2012, and provision for renewal by agreement of all the parties for a further term of five years,

c) Make provision for additional Board membership on an invitational basis to ensure that:
   • where substantial, long run funding or sponsorship is secured that an appropriate role in governance is available to PATREC’s partners, should that be appropriate, or to
   • address circumstances where additional collaborating institutions at national and international level seek to join the operations of PATREC.

d) Otherwise retain all features of the current governance model. Incorporation of PATREC is not recommended.

7. That the Executive Director seek to have the universities renew the Agreements which provide for collaboration to offer the Transport Studies program, and that a report on this matter be presented to the board at its meeting in June 2007.

PATREC Business Plan 2008 - 2010

A Business Plan 2008-2010\textsuperscript{2}, which responded to the recommendations of the PATREC Review, was prepared for the June 2007 meeting of the Board.

\textsuperscript{2} The Planning and Transport Research Centre Business Plan 2008-2010, June 2007.
The key findings and recommendations in the business plan were:

1. PATREC has facilitated establishment of significant new research capacity in several areas of keen policy interest in Western Australia. Other areas are emerging for PATREC as the scope of the Centre’s ‘research portfolio’ extends.

2. The aggregate net financial benefit to PATREC’s four collaborating universities was approximately $3.14 million, taking into account income from student fees and direct research funding and the cost of annual subscriptions. Aggregate research income from projects initiated by PATREC was $4.03 million, from some forty research partners in the public and private sectors.

3. A new or modified legal instrument will be needed to ensure continuation of the PATREC collaboration. The future MOU should be extended to 31 December 2012 and provide for a further five years. Provision should be made to appoint Board members by co-option.

4. Key issues addressed in this Business Plan are:
   - Sustainability of the MTS program
   - Releasing research ‘gridlock’
   - Strengthening research risk management
   - PATREC financial security,

5. Units established uniquely for the MTS should be required to reach or exceed nine enrolments; the suggested date for achievement of this target is the end of this planning period (Semester 2:2010).

6. There is strong competition from institutions in Australia and overseas for those seeking postgraduate qualifications similar to the MTS. It is likely the MTS will attract domestic enrolments from WA only and international enrolments only of targeted and sponsored students.

7. Consideration should be given to a change in the MTS course structure to provide a stronger stream of study in freight logistics.

8. PATREC should collaborate with the four universities to invite other postgraduate degree programs to offer current MTS units as electives, including on a cross-institutional basis.

9. PATREC should attempt to obtain additional resources to expand and sustain its research program by all of the following means:
   - Employing dedicated research-only academics (preferably post-doctoral) using cash grants obtained from industry sponsors.
   - Recruiting new PhD candidates, using scholarships provided by universities (made more attractive by PATREC top-up stipends).
   - Visiting academic research fellowships sourced from overseas and from Australian institutions (e.g. the institutions listed at 3.3 above) funded by national competitive grants and industry grants.
   - Term appointments of industry-based fellows to targeted research topic areas, by secondment or special leave arrangements.

10. PATREC should collaborate with the research divisions in all of the four universities to draft a ‘research project management protocol’.
Board Decisions

The Board met on 8 March and 20 June 2007.

Extension of the PATREC MOU

The four participating universities have approved extension of the MOU for a second five year term to 31 December 2012.

MTS/GDTS Program

At its meeting on 20 June, the Board agreed that the MTS/GDTS program in its present form using present delivery modes is not viable and unlikely to become viable in the medium or long term. It was agreed that PATREC should reposition to be predominantly a course broker rather than a supplier. PATREC was asked to investigate the feasibility of offering selected MTS/GDTS units through intensive delivery modes.

The Board decided to ask participating universities to suspend enrolment of further students (domestic and international) until further notice. Currently enrolled students would be assisted to complete their qualifications.

Extension of the MTS MOU

The universities have approved the extension of the Collaborative Agreements relating to the MTS program from 1 January 2008. This retains the cross-university agreement which established arrangements for enrolment and study by domestic and international students to undertake post graduate programs, pending a decision to reactivate the MTS or similar programs.

Financial Contributions

The universities and government agencies have agreed to new financial contributions for 2008.

The contributions agreed are as follows:

- Curtin University of Technology $ 80,000 per annum
- Edith Cowan University $ 20,000 per annum
- Murdoch University $ 20,000 per annum
- The University of Western Australia $ 80,000 for 2008
- Department for Planning and Infrastructure $140,000 per annum
- Main Roads Western Australia $100,000 per annum

Board Representation

In consideration of the significant contribution being made by Main Roads, Mr Menno Henneveld was invited to join the Board.
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>Zeenat Abdoolakhan</td>
<td>PhD candidate, Information Management and Transport</td>
<td>The University of Western Australia</td>
</tr>
<tr>
<td>Dr Trudi Cooper</td>
<td>Lecturer, School of Community Services, Education and Social Sciences</td>
<td>Edith Cowan University</td>
</tr>
<tr>
<td>Dr Carey Curtis</td>
<td>Assoc Professor of Urban and Regional Planning</td>
<td>Curtin University of Technology</td>
</tr>
<tr>
<td>Ghassan Daban</td>
<td>PhD candidate, Information Management and Transport</td>
<td>The University of Western Australia</td>
</tr>
<tr>
<td>Mike Dockery</td>
<td>Research Associate, Economics and Finance</td>
<td>Curtin Business School</td>
</tr>
<tr>
<td>John Georgiades</td>
<td>Adjunct Associate Lecturer, Faculty of Business and Law</td>
<td>Edith Cowan University</td>
</tr>
<tr>
<td>Billie Giles-Corti</td>
<td>Professor, School of Population Health</td>
<td>The University of Western Australia</td>
</tr>
<tr>
<td>Izumi Hart</td>
<td>PhD candidate, School of Psychology</td>
<td>Murdoch University</td>
</tr>
<tr>
<td>Delia Hendrie</td>
<td>Lecturer, School of Population Health</td>
<td>The University of Western Australia</td>
</tr>
<tr>
<td>Carlindi Holling</td>
<td>Research Associate, Housing and Urban Research Institute of WA</td>
<td>Curtin University of Technology</td>
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<tr>
<td>Dr Jeffrey Kenworthy</td>
<td>Professor in Sustainable Cities, Institute for Sustainability and Technology Policy</td>
<td>Murdoch University</td>
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<tr>
<td>Ngoc Quang La</td>
<td>PhD Student</td>
<td>Curtin University</td>
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<tr>
<td>Dr Peter Lawrence</td>
<td>Adjunct Associate Professor, Faculty of Business &amp; Law</td>
<td>Edith Cowan University</td>
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<tr>
<td>Dr Terry Love</td>
<td>Research Fellow, School of Engineering</td>
<td>Edith Cowan University</td>
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<tr>
<td>Anusha Mahendran</td>
<td>Research Associate, Economics &amp; Finance</td>
<td>Curtin Business School</td>
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<tr>
<td>Dr Fiona McKenzie</td>
<td>Director, Housing and Urban Research Institute of WA</td>
<td>Curtin University of Technology</td>
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<tr>
<td>Lynn Meulners</td>
<td>Research Fellow, Public Health</td>
<td>Curtin University</td>
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<tr>
<td>Dr Peter Newman</td>
<td>Professor of City Planning and Sustainability</td>
<td>Murdoch University</td>
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<tr>
<td>Dr Doina Olaru</td>
<td>Lecturer, Information Management and Transport</td>
<td>The University of Western Australia</td>
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<tr>
<td>Dr Terri Pikora</td>
<td>DPI Research Fellow in Marine Safety, Injury Research Centre</td>
<td>The University of Western Australia</td>
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<tr>
<td>Vidyasagar Potdar</td>
<td>PhD candidate, Centre of Extended Enterprises and Business Intelligence</td>
<td>Curtin Business School</td>
</tr>
<tr>
<td>Dr Min Qiu</td>
<td>Senior Lecturer, Information Management and Transport</td>
<td>The University of Western Australia</td>
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<tr>
<td>Sharif Siddique</td>
<td>PhD candidate, Information Management and Transport</td>
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<tr>
<td>John Smoker</td>
<td>M.Phil candidate, Institute of Sustainability and Technology Policy</td>
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<tr>
<td>Yu Chao Sun</td>
<td>PhD candidate, Information Management and Transport</td>
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<tr>
<td>Dr John Taplin AM</td>
<td>Professor of Information Management and Transport</td>
<td>The University of Western Australia</td>
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<tr>
<td>Dr Malcolm Tull</td>
<td>Assoc Professor of Economics</td>
<td>Murdoch University</td>
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<tr>
<td>Nick Wills-Johnson</td>
<td>ARG Research Fellow in Railway Competition Policy</td>
<td>Curtin University of Technology</td>
</tr>
<tr>
<td>Clare Yu</td>
<td>PhD candidate, Information Management and Transport</td>
<td>The University of Western Australia</td>
</tr>
</tbody>
</table>
Professional Education

Master of Transport Studies

During 2007, thirteen students participated in the program. With the decision to suspend further enrolments, arrangements have been made with each university for all current students to complete core MTS/GDTS units in 2008. While all students are being encouraged to complete the Masters degree, it is anticipated that some students may curtail their MTS course to Graduate Certificate or Graduate Diploma level.

Professional Short Courses

The following courses were offered through The University of Western Australia during 2007.

- Introduction to Traffic Engineering Part I      February
- Introduction to Traffic Engineering Part II    July
- Introduction to Mathematics for Transport Analysis      June
- Introduction to Transport Modelling       July
## Conferences and Seminars

### Third Annual PATREC Research Forum 2007

The third annual PATREC Research Forum was held at Murdoch University on 4 September 2007.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>0800 – 0830</td>
<td>Arrival and Registration – ECL Lecture theatre 4</td>
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<tr>
<td>0830 – 0840</td>
<td>Welcome: Adj Prof Stuart Hicks AO, Chairman, PATREC</td>
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<tr>
<td></td>
<td>Prof Greg Martin, Executive Director, PATREC</td>
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<tr>
<td>0840 – 0930</td>
<td>Keynote Opening Address: Breaking the habit</td>
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<td></td>
<td>Randy Salzman, TDM consultant from Charlottesville, and former Professor of Journalism.</td>
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<tr>
<td>ECL Lecture theatre 4</td>
<td>Improving Speed Limit Compliance</td>
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<td>Philip Moore, MIPWEA, OMIEAust</td>
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<tr>
<td>0930 – 1020</td>
<td>The Train Outreach Project: An innovative approach to drugs and alcohol, young people and trains</td>
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<td>Dr Trudi Cooper, Edith Cowan University</td>
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<tr>
<td>1020 – 1040</td>
<td>Morning Tea – outside ECL Lecture theatre 4</td>
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<tr>
<td>1040 - 1130</td>
<td>Safety on Board: Monitoring safety behaviours among recreational boaters</td>
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<tr>
<td></td>
<td>Dr Terri Pikora, The University of Western Australia</td>
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<tr>
<td>1130 - 1220</td>
<td>Analysis of Rail Safety Occurrence Investigation Reports for Proactive Safety Management</td>
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<td>Izumi Hart, School of Psychology, Murdoch University</td>
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<tr>
<td>1220 – 1320</td>
<td>Lunch – outside ECL Lecture theatre 4</td>
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<tr>
<td>1320 – 1410</td>
<td>Evidence of Consumer Demand for Housing in TOD Precincts</td>
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<td></td>
<td>Carlindi Holling, HURIWA, Curtin University of Technology</td>
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<tr>
<td>1410 - 1500</td>
<td>Some measures of Performance for Transit Oriented Development Precincts in Perth</td>
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<td></td>
<td>Prof Fred Affleck, PATREC and A/Prof John Renne, University of New Orleans &amp; Visiting Fellow, Murdoch University</td>
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<td></td>
<td>Forecasting Future Labour Demand in the Australian Rail Transport Industry</td>
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<td></td>
<td>Anusha Mahendran and Dr Michael Dockery, Centre for Labour Market Research, Curtin University of Technology</td>
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<tr>
<td></td>
<td>Vehicle Routing in Reverse Logistics</td>
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<td></td>
<td>Dr Doina Olaru, Business Information Management, The University of Western Australia (presenting on behalf of: Lixi Zhang, Faculty of Economics and Commerce, The University of Western Australia)</td>
</tr>
</tbody>
</table>
Western Australia’s Grain Freight Network – Is it really contestable?
*Adj Teaching and Research Associate John Georgiades*, Edith Cowan University

Is Economic Regulation Possible? Arrow’s Impossibility Theorem and the Management of Joint-Use Infrastructure
*Nick Wills-Johnson, Senior Research Fellow in Railway Economics*, Curtin University of Technology

Conclusion: *Adj Prof Stuart Hicks AO*

**Associated papers are available at**

**Curtin Corner**

PATREC and the John Curtin Institute of Public Policy jointly sponsored a weekly guest presentation and discussion group throughout 2007. A total of 39 sessions were conducted, with programming and management by Nick Wills-Johnston, Senior Research Fellow in Curtin’s Centre for Research in Applied Economics.

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Title</th>
<th>Abstract Y/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>23rd Feb</td>
<td>Fred Affleck &amp; Fiona McKenzie</td>
<td>Affordable Housing in a Transport Oriented Development Precinct: is this an oxymoron?</td>
<td>Y</td>
</tr>
<tr>
<td>2nd Mar</td>
<td>Reg Appleyard</td>
<td>Water Policy and the Kimberley</td>
<td>Y</td>
</tr>
<tr>
<td>9th Mar</td>
<td>Heather Jenkins</td>
<td>ADHD: Myths and realities</td>
<td>Y</td>
</tr>
<tr>
<td>16th Mar</td>
<td>Alan Fenna</td>
<td>IQ, Institutions and Economic Performance</td>
<td>Y</td>
</tr>
<tr>
<td>23rd Mar</td>
<td>Nick Wills-Johnson</td>
<td>What the shape of transport networks can teach us about the shape of society</td>
<td>Y</td>
</tr>
<tr>
<td>30th Mar</td>
<td>James Biggs</td>
<td>Perth Observatory: Over a century of studying heaven from Earth</td>
<td>Y</td>
</tr>
<tr>
<td>13th Apr</td>
<td>John DeLaeter</td>
<td>Western Australia’s Square Kilometre Array Radio Telescope</td>
<td>Y</td>
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<tr>
<td>20th Apr</td>
<td>Kevin Rosman</td>
<td>Measuring the impact of the Romans in two thousand year old Greenland Ice</td>
<td>Y</td>
</tr>
<tr>
<td>27th Apr</td>
<td>Tony Lucey</td>
<td>The biomechanics of human snoring</td>
<td>Y</td>
</tr>
<tr>
<td>4th May</td>
<td>Annaliza Jackson</td>
<td>Constructing Masculinity Under Abusive Conditions</td>
<td>Y</td>
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<tr>
<td>11th May</td>
<td>Kieran Kinsella</td>
<td>Midland's Revitalisation</td>
<td>Y</td>
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<tr>
<td>18th May</td>
<td>Richard Mann</td>
<td>New MetroRail City Project: Light at the End of the Tunnel parking done</td>
<td>Y</td>
</tr>
<tr>
<td>25th May</td>
<td>Cesar Ortega-Sanchez</td>
<td>Artificial Life: When? How? Why?&quot;</td>
<td>Y</td>
</tr>
<tr>
<td>1st Jun</td>
<td>Rudi Appels</td>
<td>Impact of biotechnology on the food supply &quot;pipeline&quot; with a focus on the drivers for innovation</td>
<td>Y</td>
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<tr>
<td>8th Jun</td>
<td>Ben Wyatt</td>
<td>The Future of Local Government and Regional Development</td>
<td>Y</td>
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<tr>
<td>Date</td>
<td>Speaker</td>
<td>Title</td>
<td>Year</td>
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<tr>
<td>15th Jun</td>
<td>Barbara Horner</td>
<td>Ageing-in-place – real implications for families and service providers</td>
<td>Y</td>
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<tr>
<td>22nd Jun</td>
<td>Adam Dunn</td>
<td>A computer scientist’s perspective on landscape ecology and social networks</td>
<td>Y</td>
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<tr>
<td>29th Jun</td>
<td>Hon John Cowdell</td>
<td>Burying the State Constitution</td>
<td>Y</td>
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<tr>
<td>6th Jul</td>
<td>Phillip Skelton &amp; David Mickler</td>
<td>Peacekeeping – but first make a peace to keep</td>
<td>Y</td>
</tr>
<tr>
<td>13th Jul</td>
<td>Krishna Sappal</td>
<td>Australian Coal and the Clean Coal Technologies</td>
<td>Y</td>
</tr>
<tr>
<td>20th Jul</td>
<td>Lyn McKay</td>
<td>‘Voting - taking the temperature of community interest’</td>
<td>Y</td>
</tr>
<tr>
<td>27th Jul</td>
<td>Sandy Bond</td>
<td>Cell phone towers and real estate values</td>
<td>Y</td>
</tr>
<tr>
<td>3rd Aug</td>
<td>Cosmo Howard</td>
<td>Explaining the demise of democratic service delivery in Centrelink</td>
<td>Y</td>
</tr>
<tr>
<td>10th Aug</td>
<td>Bruce Robinson</td>
<td>“Peak Oil. What are the probabilities that the rate of global oil production will start its final decline soon?”</td>
<td>Y</td>
</tr>
<tr>
<td>17th Aug</td>
<td>Leon Straker</td>
<td>Children and Computers - a recipe for health problems?</td>
<td>Y</td>
</tr>
<tr>
<td>24th Aug</td>
<td>David Bennett &amp; Hongwei Wu</td>
<td>Biofuels - A way out of oil dependency? A way to garner electoral votes? A threat to World food supplies? or all three?</td>
<td>Y</td>
</tr>
<tr>
<td>31st Aug</td>
<td>Chris Birdsall Jones</td>
<td>Indigenous Homelessness and Household Overcrowding</td>
<td>Y</td>
</tr>
<tr>
<td>7th Sept</td>
<td>Hon Bob McMullan (Federal Member for Fraser in the ACT)</td>
<td>Federal/State Reform in a post-Howard era</td>
<td>Y</td>
</tr>
<tr>
<td>14th Sept</td>
<td>Dani Stehlik</td>
<td>Intergenerational transitions in rural Western Australia: an issue for sustainability?</td>
<td>Y</td>
</tr>
<tr>
<td>21st Sept</td>
<td>Greg Craven</td>
<td>The 2007 Election: Wider Directions and Implications</td>
<td>Y</td>
</tr>
<tr>
<td>28th Sept</td>
<td>Pauline Sadler &amp; Dale Pinto</td>
<td>Applied Law &amp; Policy - an Area of Research Excellence in CBS</td>
<td>Y</td>
</tr>
<tr>
<td>5th Oct</td>
<td>Greg Martin</td>
<td>Integrated Transport Planning OK – but why does differentiation rule?</td>
<td>Y</td>
</tr>
<tr>
<td>12th Oct</td>
<td>Alison Preston &amp; Therese Jefferson</td>
<td>Casualties and Consequences of a Deep-Seated Competition Culture: Insights from Australia</td>
<td>Y</td>
</tr>
<tr>
<td>19th Oct</td>
<td>Geoff West</td>
<td>Smart Houses for the Aged – solutions and problems</td>
<td>Y</td>
</tr>
<tr>
<td>26th Oct</td>
<td>Donovan D. Rypkema President, Heritage Strategies International</td>
<td>The Role of Heritage Buildings in Sustainable Development</td>
<td>Y</td>
</tr>
<tr>
<td>2nd Nov</td>
<td>Jonathan Majer</td>
<td>Who cases about the ‘little things that run the world</td>
<td>Y</td>
</tr>
<tr>
<td>9th Nov</td>
<td>Dawn Bennett</td>
<td>Creative Industries. An unwise and counter-productive term</td>
<td>Y</td>
</tr>
<tr>
<td>16th Nov</td>
<td>John Phillimore</td>
<td>The Federal Election 2007 and Western Australia - who's promising what?</td>
<td>Y</td>
</tr>
<tr>
<td>23rd Nov</td>
<td>Robyn Mayes &amp; Amma Buckley</td>
<td>Living the resources boom: weighing it up in Ravensthorpe</td>
<td>Y</td>
</tr>
</tbody>
</table>
PATREC Connection Breakfast/Lunches

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

14 March Welcome and Orientation
7 June Innovative Solutions for a Successful (and sustainable) Perth - John Glasson
30 November The Outlook for Public Transport in Perth - Reece Waldock

PATREC’s Research Program

Fellowships and Scholarships

Dr Terri Pikora PhD (UWA), MPH (UWA), BHSc (Health Promotion)(ECU), AssDipAppSc (Library Media)(ECU). Dr Pikora is Marine Safety Research Fellow employed by the University of Western Australia in the Injury Research Centre (School of Population Health). This fellowship is fully funded by the Department for Planning and Infrastructure to support its marine safety programs.

Nick Wills-Johnson BEc(Hons)(UWA) is Research Fellow in the Centre for Research in Applied Economics at Curtin University of Technology. He completed phase 1 of his research into the impact on railway infrastructure investment of national competition policy, including third party track access and vertical separation, in 2007. Phase 2 is being funded by Rio Tinto Iron Ore, the Department of Industry and Resources, WestNet Rail and the Australian Railroad Group Ltd. Nick is completing a PhD examining the impact of antitrust regulation in Australia.

Doctoral Studies

Dr LA Ngoc Quang has a Curtin funded place as a PhD candidate in the School of Public Health and has a three year stipend funded by PATREC. The research proposal is to profile the mortality and morbidity of injuries among bus and taxi drivers, and to investigate their risk factors for road crashes in Hanoi, Vietnam.

John Smoker has a three year PATREC scholarship and support funding from Main Roads Western Australia 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.
Collaborating Research Organisations

**PATREC research collaborators 2005**

City Planning & Sustainability, Murdoch University  
Curtin Business School  
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 of Technology  
Information Management and Transport, The University of Western Australia  
Injury Research Centre, The University of Western Australia  
Injury Research Centre, 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 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 of Technology  
School of Urban & Regional Planning, Curtin University of Technology

**Research Partners**

**PATREC research funding partners 2007**

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 for Planning and Infrastructure (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 Crime Prevention WA  
Public Transport Authority (WA)  
QR (Queensland Rail)  
Western Australian Planning Commission
Research Projects 2007

New research projects in 2007

Rail Economics Program: This is ‘phase 2’ of a program begun in 2005 and completed in February 2007. Funding for ‘phase 2’ has been confirmed from Rio Tinto Iron Ore, Queensland Rail and WestNet Rail and the WA Department for Industry and Resources. Planning has also begun for an ARC Linkage Grant submission. The current 3-year research program is being carried out by Senior Research Fellow Nick Wills-Johnson in Curtin’s Centre for Research in Applied Economics.

Small and Medium Business in TOD (Transit Oriented Development): This project is being carried out at Curtin by the Housing and Urban Research Institute of WA. It is the latest in a suite of research being jointly undertaken by Curtin, Murdoch and UWA to support policy development in this field coordinated through WA’s interdepartmental TOD Coordinating Committee, of which PATREC’s the Executive Director is a member. Funding has been provided by the Department for Planning and Infrastructure, LandCorp and the Urban Development Institute of Australia (WA) Inc.

Road Safety Senior Research Fellowship: Main Roads WA has funded a Senior Research Fellow in Road Safety, Dr Lynn Meuleners, in the Curtin University School of Public Health for a term of three years.

CREST (Centre for Research into Energy Sustainable Transport): This Murdoch based project was awarded a substantial WA State Centre of Excellence grant. PATREC will participate in one of two projects in this program.

Optimising Urban Design for TOD: PhD candidate Yu-Chao Sun has commenced research in the UWA School of Economics and Commerce on a project to develop 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.

Parking policy with special reference to TOD precincts: PhD student Ghassan Daban in the UWA School of Economics and Commerce will examine parking policies with a specific focus on its optimisation in TOD precincts.

Intermodal planning - optimal location of container yards: PhD candidate Dean Davidson is developing a candidature proposal for the UWA School of Earth and Geographical Sciences.
Selected current and recently completed research projects

- **Impacts of Transit Led Development in a New Rail Corridor:** This research, being conducted over five years under an ARC Linkage Grant, is assessing impacts of transit-oriented development (TOD) in precincts adjoining the new Perth-Mandurah railway. Results of a revealed preference questionnaire about actual trips will be combined with a stated choice questionnaire. Aims are to quantify the effects of TOD on rail and car use and on daily activities, new railway services on the travel behaviour of households near new station precincts, differing accessibility of station precincts on household travel patterns, improved accessibility on economic activity and employment. Replacement of car-trips by walking and cycling, changes in shopping & leisure activities & the effect of trip-chaining on number of trips are of particular interest. Two surveys have been conducted prior to opening of the rail line and the post opening survey is scheduled for July 2008.

- **Planning and Transport Modelling Program:** This 2-year program, which commenced in mid-2005, has progressed more slowly than anticipated, owing largely to difficulties in attracting a suitable PhD student. The expenditure has been re-programmed to include an additional (third) year.

- **Performance of WA port authorities:** This research project, to examine performance measures, actual performance, and related governance arrangements in WA port authorities, has been completed. It was carried out jointly with A/Prof Malcolm Tull of the Murdoch University Business School. The outcomes have been presented to the WA Sea Freight Council.

- **Performance of TOD precincts:** Dr John Renne, Visiting Fellow to Murdoch University’s ISTP from the University of New Orleans completed a report on “Measuring the Performance of Transit-Oriented Developments in Western Australia”. The project was funded by DPI and the Public Transport Authority.

- **Consumer Demand for TOD Housing:** Carlindi Holling, from the Housing and Urban Research Institute of WA, conducted research into the demand and drivers for TOD living. The project was sponsored by Landcorp and the Department of Housing and Works. The report was published as PATREC Working Paper 14 in February 2007.

- **Forecasting Future Rail Demand in the Rail Industry:** This project by Anusha Mahendran and Dr Michael Dockery of the Centre for labour Market research at Curtin Business School, constructed a current profile of the rail workforce, generated estimates of future labour demand and supply, and highlighted the requirements in terms of recruitment and training to address forecast shortages. The project was funded by the Rail CRC.
□ Affordable Housing and Transit Oriented Development in the Perth Region: Cali Gorewitz, Visiting Research Associate at Murdoch University, conducted research into development near transit that is affordable to a broader range of incomes than the market would otherwise provide. The report includes an inventory of existing planning, policy, and funding tools as well as an analysis of current gaps and recommends five strategies to develop affordable housing and TOD. The project was sponsored by LandCorp, the Department of Housing and Work, the Department for Planning and Infrastructure, Planning and Transit Research Centre, and the Institute for Sustainable and Technology Policy at Murdoch University.

□ Integrated Crime Prevention Strategies for Rail Station Environs (‘Youth Rail’): This project concluded with a successful seminar in late 2006 and a report has been completed. A media release is being issued by the PTA to give publicity to the collaborative research outcomes achieved.

□ Criminal and Anti-social Behaviour on the Southern Rail Line: The Office of Crime Prevention has provided funding over six months for research, which aims to anticipate crime problems that may result from the opening of the Southern Rail Line. The project is being undertaken by researchers from the Planning and Transport Research Centre (Edith Cowan University and Curtin University of Technology) and the University of Western Australia (Crime Research Centre). The project will identify headline indicators, key factors and drivers before the line opens, and test elements of futures methodologies for use by OCP in developing crime prevention forecasts and strategies in new developments.

□ Strategic Plan for Public Transport Authority: This complex assignment is being undertaken for the PTA, and will be completed early on 2008.

**Proposed new projects**

□ Road Safety Research Centre: This has been the subject of a lengthy tender process by the WA Office of Road Safety (ORS) with Curtin and Monash Universities submitting a joint proposal to establish a collaborative Curtin-Monash Universities Accident Research Centre (C-MUARC). It is anticipated that the centre will be established in early 2008.

□ Taxi Industry Profile: Proposals are also being developed in response to requests from the Minister for Planning and Infrastructure to develop a taxi industry database.

□ Compensation for Catastrophically Injured Motor Vehicle Crash Victims: The Insurance Commission of Western Australia invited expressions of interest to conduct research on the actual cost incurred by, and availability of care for compensable catastrophically injured motor vehicle crash persons. A submission drawing on research capability from Curtin, UWA and Flinders University was lodged in November.
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 specific risk factors to be examined are driver characteristics; employer/company-related factors; and vehicle characteristics. The study will be done 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 will benefit by drawing on the team being funded by an ARC grant to conduct the study in New South Wales and Queensland.

Land Use/Transport Integration in Major Activity Centres: Research to examine opportunities for peak period reverse flow on public transport routes, parking policy, urban services development and development on or over transport reserves is being proposed to the TOD Coordinating Committee, convened by the Department for Planning and Infrastructure.

Collaborative Activities

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.

Mounts Bay Project Transport Reference Group
The Executive Director is a member of the inter-agency reference group advising on transport issues and solutions for this major government city building initiative.
Presentations
Executive Director, Greg Martin made presentations during 2007:

<table>
<thead>
<tr>
<th>Date</th>
<th>Forum/Title</th>
<th>Sponsor</th>
</tr>
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<tbody>
<tr>
<td>3 October 07</td>
<td>Guest Lecture – “Competition, Regulation and Privatisation”</td>
<td>Curtin Graduate School of Business</td>
</tr>
<tr>
<td>5 October 07</td>
<td>Curtin Corner – “Integrated Transport Planning OK – but why does differentiation rule?”</td>
<td>JCIPP/PATREC</td>
</tr>
<tr>
<td>29 October 07</td>
<td>Lecture – “Policy Implementation – Cases”</td>
<td>DTF Policy Course</td>
</tr>
<tr>
<td>10 November 07</td>
<td>Panel Discussion – Climate Change and the Automobile – “Planning and Transport responses – are we brave enough?”</td>
<td>AAA Conference, Perth</td>
</tr>
<tr>
<td>10 November 07</td>
<td>Chair Judging Panel – Young Professional of the Year Award 2007</td>
<td>CILT and SCLAA</td>
</tr>
<tr>
<td>29 November 07</td>
<td>Address – “Aspirational leaders – what will show your Director general that you are the future of the organisation?”</td>
<td>JCIPP/GSB/DP&amp;C – Public Sector Management Program</td>
</tr>
<tr>
<td>3 December 07</td>
<td>Lecture – “Progressive Development of Practice in Planning”</td>
<td>Murdoch University, Law 3006, The Law of Planning</td>
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Publications

PATREC Working Papers - 2007


