About the Conference

For 50 years ARRB Conferences have promoted discussion of issues relevant to the transport industry, and new research being undertaken on the local and international scene.

ARRB is hosting the 25th ARRB Conference in Perth, 23 – 26 September 2012, immediately prior to the 35th Australasian Transport Research Forum (ATRF), 26 – 28 September at the same location.

The theme of the Conference is **Shaping the future: Linking research, policy and outcomes** and it will focus on four streams:

- Safe Systems
- Sustainable infrastructure management
- Sustainable infrastructure sciences/technology
- Congestion, freight and productivity.

The ARRB Conference is the premier Conference on sustainable infrastructure, sustainable pavement and materials technology, Safe Systems, and congestion, freight and productivity research in Australia.

The Conference will explore how the outputs of transport research support informed decision-making and policy formulation, leading to community enhancements in areas including efficiency, sustainability, safety and accessibility.

It is anticipated that about 500 local, interstate and international delegates will be attending the Conference.

Both the ARRB and the ATRF Conferences will share a joint session day on Wednesday 26 September.

Delegates will have an opportunity to showcase their expertise in a number of road and transport-related areas as well as network with their colleagues.

**Who should attend?**

- state and territory road authority engineers and practitioners
- local government professionals
- researchers and technical experts
- practising engineers
- consultants and suppliers
- road contractors.

The Conferences meet the criteria of Engineers Australia as Continuing Professional Development (CPD) events. For further information about CPD events visit www.engineersaustralia.org.au.

Follow us:

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Platinum sponsor: [Main Roads WA](#)

Conference endorsed by: [Austroads](#)
# Sunday 23 September 2012

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<tr>
<th>Start time</th>
<th>End time</th>
<th>Session</th>
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<tr>
<td>10.00 am</td>
<td>5.00 pm</td>
<td>Technical tour (departs at 10.00 am sharp)</td>
<td>TBA (depart from Pan Pacific hotel)</td>
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<td>Provided by Main Roads Western Australia</td>
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<tr>
<td>5.00 pm</td>
<td>6.30 pm</td>
<td>Welcome reception &amp; registration open</td>
<td>Exhibition hall (Grand River Ballroom)</td>
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<td>Sponsored by SIDRA SOLUTIONS</td>
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# Monday 24 September 2012

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<tr>
<th>Start time</th>
<th>End time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>8.00 am</td>
<td>9.30 am</td>
<td>Registration &amp; welcoming tea and coffee</td>
<td>Exhibition hall (Grand River Ballroom)</td>
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<tr>
<td>9.30 am</td>
<td>11.00 am</td>
<td>Opening ceremony: <em>Shaping the future: Linking research, policy and outcomes</em></td>
<td>Plenary room (Golden Ballroom)</td>
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<td><em>Keynote address</em> Mr Menno Henneveld, Managing Director, Main Roads WA</td>
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<td>Mr Steve Phillips, Secretary General of the Forum of European National Highway Research Laboratories (FEHRL)</td>
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<tr>
<td>11.00 am</td>
<td>11.30 am</td>
<td>Morning tea</td>
<td>Exhibition hall (Grand River Ballroom)</td>
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The performance of bituminous mixes using Indonesian natural asphalt
Furqon Affandi
INDONESIA

research in this area and also seek ways to facilitate dialogue and coordinate activities.

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<th>3.00 pm</th>
<th>3.30 pm</th>
<th>Afternoon tea</th>
<th>Exhibition hall (Grand River Ballroom)</th>
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<tr>
<td>3.30 pm – 5.00 pm Parallel technical sessions &amp; workshops 5</td>
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5.1 Lighting & noise (Room: Goldsworthy)
5.2 Trip generation, modelling & predictions (Room: Golden Ballroom North)
5.3 Road safety engineering II (Room: Golden Ballroom South)
5.4 Pavement management (Room: Golden Ballroom Centre)
5.5 Asphalt (Room: Hamersley)
5.6 Current, emerging and future asset management practice workshop (Room: Mt Newman)

A new road lighting guideline for railway crossings in New South Wales
Ganesh Vengadasalam
AUSTRALIA

The effects of vertical speed control devices on vehicle speed and noise emission
Basil David Daniel
NEW ZEALAND

The effects of improved vehicle technology on the design of acceleration and deceleration lanes at freeway entry and exit ramps
Jason Keys
AUSTRALIA

Victorian freeway lighting and its underlying principle
Tapash Saha
AUSTRALIA

A new approach for trip generation estimation for use in traffic impact assessments
Jonathan Bunker
AUSTRALIA

A continuum flow model for Perth's freeways
Graham Jacoby
AUSTRALIA

Upstream and downstream detection to improve congested network operation
David Chin
AUSTRALIA

Bus and car travel time on urban networks integrating Bluetooth and bus vehicle identification data
Ashish Bhaskar
AUSTRALIA

A revised technical foundation for cross-section for rural roads in QLD
Owen Arndt
AUSTRALIA

Crash test outcomes for three generic barrier types
Hammonds
AUSTRALIA

Main Roads roadside hazard rating
Jan Karpinski
AUSTRALIA

The impacts of hotter climate on the cracking of concrete pavements
Rudi van Staden
AUSTRALIA

Collaborative contracting – how the Foveaux Alliance contract enabled Southland District during the global financial crisis
David Connell
NEW ZEALAND

Concrete pavement maintenance on National Route 3, South Africa
Anna-Carin Brink
AUSTRALIA

Evaluation of the Accelerated Road Rehabilitation Program (ARRP)
Clifford Naude
AUSTRALIA

Analysis of the stiffness variability in asphalt layers using the Monte Carlo simulation
Laszlo Petho
AUSTRALIA

Effect of geogrid reinforcement on critical responses of bituminous pavements
Satish Pandey
INDIA

The linear visco-elastic behaviour of asphalt mixture under dynamic loading conditions
Mahyar Arabani
IRAN

This workshop should be of interest to all levels of road asset management practitioners, that is, from strategic analysts to annual work program managers. The workshop aims to make them aware of current best practice, emerging practices and technologies and the future challenges, including the impact of heavy vehicles, road safety, climate change, reduction in Green House Gas (GHG) emissions, rolling resistance and overall risk management on asset management. Many of the future challenges are covered by a related Plenary Session, whereas the implications of the Safe System will be covered in a separate workshop. The workshop is also an opportunity for all participants to have an input to the identification of future research and development needs.

6.00 pm | 9.00 pm | 25th ARRB Conference Interchange Networking Function | Royal Perth Yacht Club

Updated 3 September 2012 | ARRB GROUP
Successful authors will be required to provide a final draft of their paper for peer review by **Tuesday 1 May 2012**. Papers will be reviewed by a minimum of two referees and may be rejected or require modification depending on the referees’ recommendations.

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