17th AAPA International
Flexible Pavements
Conference / Exhibition 2017

ROADS OF THE FUTURE
EMBRACING DISRUPTION
PROGRAM

MELBOURNE CONVENTION
AND EXHIBITION CENTRE

13-16 AUGUST

CONFEERENCE.AAPA.ASN.AU
WELCOME TO THE 17TH AAPA INTERNATIONAL FLEXIBLE PAVEMENTS CONFERENCE ROADS OF THE FUTURE | EMBRACING DISRUPTION

Our industry is on the verge of profound change. The future of transport and the role played by roads in the movement of people and goods face unprecedented pressure and potential for disruption.

This conference brings together global and local leaders of the flexible pavements sector to discuss and meet the challenges of the future.

You will hear how technology is transforming the way we build roads, how we will use the mountains of data being generated to improve construction outcomes, how we will ensure environmental sustainability – and much more.

With over 80 submitted papers this year’s technical program will be the biggest and the best in AAPA conference history. The calibre of speakers coupled with the participation of industry leaders promises a jam-packed event distributing a wealth of knowledge for the purpose of growing and further innovating our practice.

The exhibition showcases over 40 organisations, 321 tonnes of equipment, paper authors and their posters at the e-poster sessions on Sunday and Tuesday, plus it hosts all your catering needs including the COLAS refreshment hour Monday 4.30pm-5.30pm and the SAMI refreshment hour, Tuesday 3.30pm-4.30pm.

Whether you are an AAPA member, industry stakeholder, partner, supplier or student take this chance to network with your peers and celebrate your success.

Have a fantastic conference, enjoy the social events and celebrate the industry achievements at the AAPA booth 28 and this year’s National Gala Dinner and Industry Awards.

Carlos Rial  
CEO

Dr Erik Denneman  
Director of Technology and Leadership and Technical Program Lead

Rachel Black  
Director of Communications and Strategy and Conference Organiser
IMPORTANT INFORMATION

YOUR TICKET

Please wear your ticket/lanyard at all times to ensure your access to all conference areas and social functions you are registered for. No ticket, no entry and tickets cannot be shared as there are scanners on all points of entry to ensure this does not occur.

On your ticket are four social function icons. If you have registered to attend the icon will be green. If you have not registered for the social functions the icons will be grey. To access social functions please register using the app or online at aapa.asn.au. If you add social functions after you have collected your ticket please return to conference registration desk to update your ticket.

MANAGE YOUR SESSIONS

Using the AAPA Junction app you can manage the technical sessions and social functions you plan to attend. An email has been sent to you with your login details to help you get started. A guide to using the app is available at aapa.asn.au/junction.

The following Social Media will be used live throughout the conference. Please follow us, like and share:

● https://twitter.com/AAPA_Australia
● https://www.facebook.com/ausasphaltpavementassociation/
● https://www.linkedin.com/company-beta/2763204/
● #aapaconf17

For all queries please go to the conference registration booth or AAPA booth 28.
WELCOME RECEPTION
MCEC EXHIBITION HALL
SUNDAY 13 AUGUST 6-9PM
COLLECT YOUR CONFERENCE KIT AND TICKETS

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KEYNOTES

THE CONFERENCE PROGRAM WILL COVER THE FOLLOWING:

ROADS OF THE FUTURE
EMBRACING DISRUPTION

MONDAY

WELCOME - THE HON LUKE DONNELLAN MP
VICTORIAN MINISTER FOR ROADS, ROAD SAFETY,
AND PORTS

Luke Donnellan will formally welcome conference delegates to Victoria and AAPA’s 2017 Conference.

Overseeing an unprecedented road works budget of nearly $2 billion in the 2017/18 financial year, Minister Donnellan is responsible for a significant component of the Victorian Government’s infrastructure program.

Building on Victoria’s reputation for leadership in road safety, Minister Donnellan is a strong proponent of innovation to improve road quality through the latest developments in technology.

KEYNOTE - EMBRACING DISRUPTION -
BERNARD SALT, KPMG DEMOGRAPHICS

Well-known futurist, media commentator and popular author, Bernard Salt advises business and government on social change through his colourful analysis of demographic trends.

“Bernard Salt cuts, slices and dices contemporary Australia with a precision no other social commentator can match.” - The Australian.

Delegates will be challenged and surprised by this keynote address on our conference theme, Embracing Disruption. Salt presents his views on what lies ahead for our sector and how that will impact on business and the wider community.

> What will transport look like in tomorrow’s world?
> How will the effects of climate change and environmental sustainability change our industry?
> Will autonomous vehicles revolutionise our cities?
> Will government be able to adequately fund the infrastructure revolution?
> How will an aging population affect our lives?

Bernard Salt’s conference opening address is the must-see event of 2017.
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at the 17th AAPA International Flexible Pavements Conference 2017
**MONDAY**

**KEYNOTE - GLOBAL TRENDS BITUMEN PRODUCTION AND SUPPLY – JONATHAN PEGLER**

Puma Bitumen’s Jonathan Pegler, Global Head of Supply and Trading, presents on the trends in global bitumen production and supply.

He will outline changes in the bitumen supply chain over the past 20 years and the drivers for the global reduction in the number of refineries. What are the new realities for the industry and how do bitumen suppliers assure the continued quality of bitumen?

Pegler’s wealth of experience as Global Co-head of Crude Trading and Head of Oil Asia for Singapore-based Trafigura and nine years at BP makes this presentation a fascinating insider’s perspective on the developments that have shaped our industry.

**KEYNOTE - FUTURE CHANGE, DISRUPTION AND OPPORTUNITIES IN THE FLEXIBLE PAVEMENTS INDUSTRY – AUDREY COPELAND**

This keynote presentation will focus on key items that NAPA members, Audrey Copeland, Vice President of Engineering, Research, & Technology National Asphalt Pavement Association and her colleagues have observed and learned that may impact our industry through challenges, possible disruptions, and opportunities for the asphalt pavement industry.

**TUESDAY**

**KEYNOTE: AUDREY COPELAND**

_Vice President of Engineering, Research and Technology, US National Pavement Association_

Audrey leads several areas including engineering and technical development, research initiatives working closely with the National Center for Asphalt Technology, and developing and maintaining partnering relationships with highway agencies and other pavement stakeholders. She works closely with partners at FHWA, AASHTO, and state asphalt pavement associations in areas such as pavement performance, sustainability, life cycle cost analysis, and technology deployment.
CONSTRUCTING THE ROADS OF THE FUTURE

This theme will include presentations on the use of smart technology for process control to improve consistency, quality and efficiency of pavement construction. Smart equipment, including autonomous, construction and safety vehicles, will also be showcased.

Other presentation topics include:
> Latest in development safety at Roadworks
> Use of big data in construction
> Next generation asphalt plant and equipment
> Non-track Tack Coat technology
> Systems engineering and building information modelling in road construction.

The theme will be further explored in a keynote address by Prof André Dorée who will present on a Dutch initiative to stimulate technology adoption/development, quality improvement, process control and professionalism in the road building industry. The presentation will address the background, motivation and results of this unique theory-practice cooperation, and reflect on the relevance for the Australian road building industry.

TUESDAY

KEYNOTE: ANDRÉ DORÉE

Chair of Market & Organisation Dynamics in the Construction Industry
Head of Department of Construction Management & Engineering,
Faculty of Engineering Technology, University of Twente, Netherlands

André’s research revolves around competition (markets), cooperation (organisations) and innovation in the construction industry. His preferred perspectives are neo-institutional economics, evolutionary economics and industrial organisation and entrepreneurship. His current research focuses on change and technology adoption in the construction industry, in particular the impact of public sector procurement on integration and innovation.
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NEXT GENERATION BITUMINOUS SURFACINGS

The latest developments in asphalt and sprayed seal will be discussed and highlighted in a range of presentations.

**Topics to be addressed by international and local experts include:**

- Advances in sprayed seal technology
- High friction courses
- Cold mix asphalt
- Binder technology
- Crumb rubber modified asphalt and seals
- Fit for purpose assessment of pavement surfacing

**SPECIAL SESSION: TYRE-DERIVED CRUMB RUBBER IN ASPHALT AND SPRAYED SEAL**

Silver Sponsor Tyre Stewardship Australia is supporting a dedicated session on crumb rubber which includes world renowned crumb rubber expert, Dr David Jones, who will be providing feedback on the successful use and performance of crumb rubber modified asphalt in California and across the USA. Local experts will present on state-of-the-art use of rubber in sprayed seal in Australia as well as recent initiatives to use rubber in open-graded asphalt. Results of emission monitoring at crumb rubber trials in Australia and the USA will also be discussed.

**TUESDAY**

**KEYNOTE: DR DAVID JONES**

*Associate Director, University of California Pavement Research Center*

Dr. David Jones is the Associate Director of the University of California Pavement Research Center in Davis California, where he manages research into sustainable road and airfield design with special interest in accelerated load testing, in-place pavement recycling, the use of recycled materials in pavement layers, permeable pavements, and low-volume road management. He works closely with federal, state, and local road agencies to implement research findings, evaluate performance, and to refine life-cycle costs and life-cycle environmental impacts of the various initiatives.
WORKSHOP - NATIONAL SPRAYED SEAL WORKSHOP

It has been ten years since the first national workshop was held to inform the research agenda for sprayed seals. The workshop aims to identify gaps in current knowledge and practice of spray seal technology. The outcome of the workshop will be a set of issues and ideas, which will be presented to Austroads to inform the future research program.

MANAGING ROAD NETWORKS IN A DIGITALLY CONNECTED WORLD

This theme will cover advances in asset management approaches and technology.

Topics to be addressed by international and local experts include:

> Forms of contract encouraging innovation
> Developments in asset management
> Early industry and public engagement
> Funding models
> Innovative road maintenance approaches
> Use of smart technology to monitor pavement conditions
> Local government-specific performance maintenance contracts and asset management strategies.

WORKSHOP - TOWARDS SAFER SPRAYED SEALING OPERATIONS - FORWARD-MOVING AGGREGATE SPREADING

The session includes presentations and panel discussion by senior AAPA and VicRoads representatives on the introduction of safer sprayed sealing operations in Victoria through the use of non-reversing aggregate spreaders. From July 2022 aggregate spreading on sprayed seals in Victoria will be required to be non-reversing. The session provides an insight into the change process, financial incentives, equipment availability and the implications for the sprayed sealing sector, both in Victoria and across Australia.
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FLEXIBLE PAVEMENT TECHNOLOGY FOR AIRPORTS

The design of flexible pavements for harbours and airports pose very specific challenges to the industry. This session will explore how the industry can best meet these challenges.

Topics to be addressed by international and local experts include:

- Future infrastructure investments in the aviation sector
- Local and international best practice in flexible pavement design of airports and ports
- Latest developments in asphalt mix technology for airports
- Surfacing solutions for airports applied in Europe and the USA including ungrooved asphalt runways
- Next generation binders for airports
- Improved specifications for airports
- Intermodal pavement design
- Specialised binder

THE DEDICATED AIRPORTS SESSION IS A FIRST FOR THE AAPA INTERNATIONAL FLEXIBLE PAVEMENTS CONFERENCE

MAJOR PROJECTS AND FUTURE CHALLENGES FOR AIRPORT PAVEMENTS

This Keynote will provide an overview of the significant growth the aviation sector has experienced in recent years and what that has meant for aeronautical infrastructure, such as runway, taxiway and apron pavements. There will also be an overview of the most significant pavement projects underway or planned at some of Australia’s major airports.

The presentation will also cover the ‘Airfield Pavement Essentials’ document that the Australian Airports Association recently produced for its members, which is designed to provide guidance on pavement basics, design, construction and maintenance at airports. Some of the challenges facing airport pavements in the years ahead, particularly in relation to larger aircraft and higher tyre pressures, will be explored along with opportunities in technological innovation.

WEDNESDAY

KEYNOTE: CAROLINE WILKIE

Chief Executive of the Australian Airports Association since 2011
DELIVERING THE SMART, SAFE AND SUSTAINABLE ROADS OF THE FUTURE

Asphalt is 100% recyclable and globally the most reused construction product. This session will focus on further reducing the CO2 footprint of the construction process, sustainable procurement and delivering the smart, safe, smooth and sustainable roads of the future.

Topics to be addressed by international and local experts range from biobinders to driverless vehicles.

Audrey Copeland (NAPA) and Egbert Beuving (EAPA) will be presenting on the lessons learned with green procurement and environmental product declarations for asphalt in the US and Europe.

WEDNESDAY

KEYNOTE: EGBERT BEUVEING

Secretary General EAPA

Egbert was appointed Technical Director of the European Asphalt Pavement Association (EAPA) in 2001. In 2009, he became Director and in 2013 Secretary General of EAPA. He has been involved in the organisation of many conferences, including four Eurasphalt & Eurobitume congresses. He is a member of several European standardisation and other international committees.

SUSTAINABILITY IN PROCUREMENT - SESSION AND WORKSHOP

The 'Embedding sustainability in procurement' session leads with an overview of current industry position, then an infrastructure funders broader vision across sustainable asset provision and societal impacts. After a status review from ISCA on Australian sustainability assessment systems, is a review of international practice and lessons from Europe. This provides the back drop of the follow-up workshop session which will explore options, outcomes, priorities and timeframes to embrace the sustainable purchasing expectations and capabilities of the road building industry.

Key findings of the workshop will be put into practice through the AAPA National Safety and Sustainability Committee.
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PERPETUAL AND HEAVY DUTY PAVEMENT TECHNOLOGY

Industry and road agencies have invested heavily in efforts to optimise cost effectiveness of flexible pavements over the past couple of years. As a result, perpetual pavement solutions are now actively considered for major projects and significant pavement thickness reductions are being achieved through the use of high modulus asphalt (EME2). The latest developments in terms of the implementation of EME2 around the country and perpetual pavement design will be shared at the conference.

Topics addressed by international and local experts include:
> Sustainability
> Performance based design
> Innovative asphalt mix technology
> Best practice use of RAP
> Warm mix asphalt
> Remediation of failed concrete pavements

Adam Hand will be sharing his experience in the remediation of end-of-life concrete pavements including techniques used for the rehabilitation of concrete pavements in various states in the US. He will also discuss thickness design for asphalt pavements over failed concrete pavements e.g. crack, seat and overlay.

WEDNESDAY

KEYNOTE: ADAM HAND

Associate Professor, Civil & Environmental Engineering
University of Nevada, Reno

Dr Hand has B.S., M.S., and PhD degrees in civil engineering and is a registered professional engineer in several US states. He recently joined the University of Nevada, Reno as a civil engineering professor after 16 years with Granite Construction, where his last position was Vice President, Quality Management. Before joining Granite, Dr Hand was a civil engineering professor at Purdue University in Lafayette, Indiana.
RESILIENT REGIONAL AND LOCAL GOVERNMENT ROADS

In this session you will hear from experts on how to improve the resilience of the road network against flooding by using the latest in bituminous stabilisation technology and best practice examples in sprayed seals.

Topics addressed by international and local experts include:
> The continued drive to use more warm mix asphalt
> Pavement preservation strategies to combat oxidation aging of bituminous surfacings
> Success stories from local councils with lessons learnt

Miles will provide an update on how Queensland’s Department of Transport and Main Roads plans and responds to the increased risks associated with extreme environmental events with more resilient road infrastructure. A revised roads and pavement resilience framework has been established which merges program management with value for money outcomes, using extended design and delivery standards. This framework facilitates the prioritisation of investment and through the whole-of-life approach, links to the additional service level of resilience improvement, such as shoulder widening, and tied to the the available funding. The use of this approach will be explained in the wake of the 2017 Cyclone Debbie.

WEDNESDAY

KEYNOTE: MILES VASS

Deputy Director-General – Infrastructure Management and Delivery Division QTMR

Miles oversees the delivery of the integrated program of infrastructure projects and the maintenance and operation of the state-controlled road network.

Miles recently led the Queensland Government’s reconstruction program of transport infrastructure following the unprecedented natural disasters. Beginning in 2011, the four-year program delivered more than $6.4 billion in reconstruction works statewide, achieved savings of more than $400 million, finished six months ahead of schedule and involved reconstructing an unprecedented 8741km of roads across the state. It was the largest reconstruction program of its kind in Queensland’s history.
REFRESHMENT HOUR
Monday 4.30 – 5.30PM
In the exhibition hall

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WE OPEN THE WAY

Tyre Stewardship Australia is a government supported initiative to improve outcomes for the 51 million end-of-life tyres generated each year. The roads industry is a primary contributor to the generation of waste tyres. The industry can utilise this substantial resource to deliver better roads and environmental outcomes and create a true ‘circular economy’.

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Tyre Stewardship Australia is a government supported initiative to improve outcomes for the 51 million end-of-life tyres generated each year. The roads industry is a primary contributor to the generation of waste tyres. The industry can utilise this substantial resource to deliver better roads and environmental outcomes and create a true ‘circular economy’.
REFRESHMENT HOUR

Tuesday
3.30 – 4.30PM
In the exhibition hall

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BITUMEN TECHNOLOGIES

TECHNICAL E-POSTER SESSIONS

DISCUSS ISSUES RAISED IN THE TECHNICAL PAPERS WITH THE AUTHORS AT POSTER SESSIONS ON:

SUNDAY 13 AUGUST, 2-3PM
TUESDAY 15 AUGUST, 3-5PM

IN THE EXHIBITION HALL
### Early morning session

**(S1) Special preconference session**  
Towards Safer Sprayed Sealing Operations - forward moving aggregate spreading

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>8:30 am</td>
<td>VicRoads driving safety in sprayed sealing operations: Peter Todd – Deputy Chief Executive, VicRoads</td>
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<tr>
<td>8:45 am</td>
<td>Update on the journey and milestones reached: John Esnouf – Principal Engineer Spray Seal Technology</td>
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<tr>
<td>9:10 am</td>
<td>Industry striving to meet the opportunity: Tim Oudenryn – AAPA Victoria</td>
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<tr>
<td>9:20 am</td>
<td>Panel Discussion – Opportunities to share this and other practices</td>
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**Morning Tea**

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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>10:00 am</td>
<td>Conference Welcome</td>
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<td></td>
<td>Carlos Rial – AAPA CEO</td>
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**Keynote 1**  
Embracing Disruption  
*Bernard Salt* – KPMG

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>11:15 am</td>
<td>Global Trends in Bitumen Manufacture and Supply</td>
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<td>Jonathon Pegler – Puma Bitumen</td>
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12:00 pm  
**Lunch**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Opener</th>
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</table>
| 1:00 pm | **SESSION OPENER** Best practice and future trends in road maintenance contracts in Australia  
 Marcus Stephens  
 Downer Group  
  
 **SESSION OPENER** Comparison of the AAPA Proposed Perpetual Pavement Design Criteria against UK In-Service Long Life Pavements  
 Saeed Yousefdoost  
 ARRB Group  
  
 **SESSION OPENER** Development of a binder test to rank the low temperature cracking performance of PMBs  
 Robert Urquhart  
 ARRB Group  
  
 **SESSION OPENER** BioRePavation: Innovation in bio-recycling of old asphalt pavements Towards safe cost effective renewable pavement  
 François Olard  
 EIFFAGE, France |

| 1:20 pm | Non-destructive testing of layer bonding with Falling Weight Deflectometer (FWD)  
 Marko Cickovic  
 University in Darmstadt, Germany  
  
 Characterisation of Brisbane Asphalt Mixtures for Dynamic Modulus  
 John Yeaman  
 University of the Sunshine Coast  
  
 Polymer Modified Bitumen Emulsion (PMBE) Surface Treatments in Brisbane  
 Greg Stephenson  
 Brisbane City Council  
  
 Land Use Planning and the Impacts of Odour Emissions from Waste Recycling in Asphalt Production  
 Craig Beyers  
 Assured Monitoring Group |

| 1:40 pm | Adopting smartphone technology to supplement road asset performance monitoring and post construction evaluation  
 Ashish Shah  
 Logan City Council  
  
 Optimising thickness design for asphalt pavements in Australia’s warmer climates  
 Erik Denneman  
 AAPA  
  
 Assessment system for thin asphalt surfacings in Australia  
 Andrew Beecroft  
 ARRB Group  
  
 Sustainable Pavement Design – Delivering Sustainable Options Considering Existing Materials and Pavement Lifecycle  
 Trent McDonald  
 Pavement Management Services |

| 2:00 pm | Pavement vibration measurements for Falling Weight Deflectometer and Moving Vehicle Loads  
 Jeffrey Lee  
 ARRB Group  
  
 Experimental Investigation of the Effect of Asphalt Healing under Rest Period on Stiffness Development and Damage Characteristic Curves  
 Yang Su  
 Curtin University  
  
 Low volume sprayed seal design in the Northern Territory  
 Steve Patrick  
 ARRB Group  
  
 Reducing the carbon footprint of the paving train  
 Ervin Dukratz  
 Mathy Construction Co, USA |

2:30 pm | **Afternoon tea** |
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<tr>
<th>Time</th>
<th>Session</th>
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| 3:00 pm| **SESSION OPENER** Planning the asphalt construction process – towards more consistent paving and compaction operations  
Christiaan Arbeider  
University of Twente, Netherlands |
|        | **SESSION OPENER** Managing pavements by in situ monitoring          
John Yeaman  
University of the Sunshine Coast |
|        | **SESSION OPENER** The evolving demands on bitumen’s performance and some interesting responses  
Kym Neaylon  
Opus International Consulting, New Zealand |
|        | **SESSION OPENER** Project Yellow                                     
Paul Middleton  
Colas Australia Group Pty Ltd |
| 3:20 pm| How to increase your competitive edge by taking advantage of disruptive issues  
Rick Dorris  
Astec Australia Pty Ltd |
|        | High speed data collection and automatic crack mapping at the network level on the Bundaberg region  
Pedro Yarza  
Pavement Management Services |
|        | Epoxy Asphalt for Durability of Open Graded Mixes                      
Glynn Holleran  
AAT Asphalt Ltd NZ |
|        | International experience on the geogrid reinforcement as a sustainable solution for flexible pavements  
Amir Shahkolahi  
Global Synthetics |
| 3:40 pm| First Major Project use of EME2 asphalt in Australia                    
Ryan Jansz  
Boral |
|        | Colas Enterprise Asset Management                                       
Paul Middleton  
Colas Australia Group Pty Ltd |
|        | Towards more robust seals for high trafficked roads                    
Trevor Distin  
Colas Australia |
|        | The Upgrading of Provincial Main Road P255 in Durban, South Africa: An Initiative Towards Environmentally Sustainable Road Design and Construction Methodology  
Shan Hansraj  
VNA Consulting, South Africa |
| 4:00 pm| Next generation equipment and smart technology for asphalt paving        
Ervin Dukatz  
Mathy Construction Co., USA |
|        | Optical measurement of deflection bowls                                
Marko Cickovic  
University in Darmstadt, Germany |
|        | ECOPRIME – an environmentally friendly prime coat                     
Stuart Nugent  
Colas Western Australia |
| 4:30-5:30 pm| Refreshments in the Exhibition Hall sponsored by COLAS            |
| 6:00 pm| Cocktail reception at the Munich Brauhaus                           |
MUNICH BRAUHAUS
COCKTAIL RECEPTION
MONDAY 14 AUGUST
6–9PM

SPONSORED BY
**Tuesday 15 August 2017**

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<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Institution(s)</th>
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<tbody>
<tr>
<td>8:30 am</td>
<td>Continual quality improvement through data rich road construction</td>
<td>André Dorée</td>
<td>University of Twente, Netherlands</td>
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<tr>
<td>9:00 am</td>
<td>From waste tyre to more durable asphalt pavement: the Californian experience</td>
<td>David Jones</td>
<td>University of California Pavement Research Center, USA</td>
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<tr>
<td>9:30 am</td>
<td>Future change, disruption and opportunities in the flexible pavements industry</td>
<td>Audrey Copeland</td>
<td>National Asphalt Pavement Association, USA</td>
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<tr>
<td>10:00 am</td>
<td>Morning Tea</td>
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<tr>
<td>10:30 am</td>
<td>Session Opener: Technology transfer, the value of international alliances</td>
<td>Caroline Zywulko, David Jones</td>
<td>Fulton Hogan, University of California Pavement Research Center, USA</td>
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<td>Session Opener: Monitoring emissions from crumb rubber asphalt and the benefits of warm mix asphalt technology</td>
<td>Greg White</td>
<td>University of the Sunshine Coast</td>
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<td>Session Opener: Developing a performance specification for airport asphalt</td>
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It has been ten years since the first National Workshop held to inform the research agenda for Sprayed Seals. The workshop aims to identify gaps in current knowledge and practice of sprayed seal technology. Outcome of workshop will be a set of issues and ideas, which will be presented to Austroads to inform the future research program.
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<tr>
<td>10:50 am</td>
<td>Successful Compaction using Vibratory Pneumatic Roller</td>
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<td><em>Hitoshi Fujita</em></td>
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<td>Sakai Heavy Industries, Japan</td>
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<td>Development and validation of a crumb rubber modified open graded asphalt</td>
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<td><em>Erik Denneman</em></td>
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<td>Asphalt Reinforcement with Polyester grids: practical experience in airfields</td>
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<td><em>Zehra Kaya</em></td>
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<td>Huesker Australia Pty Ltd</td>
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<td>11:00 am</td>
<td>The benefits of smooth pavements and how to achieve them</td>
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<td><em>Eric Baker</em></td>
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<td>Astec Industries, USA</td>
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<td>Emission monitoring of open graded asphalt containing crumb rubber modified</td>
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<td>and polymer modifier binders</td>
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<td><em>Joe Grobler</em></td>
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<td>Paving in the rain: when is too wet?</td>
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<td><em>Jaco Liebenberg</em></td>
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<td>11:30 am</td>
<td>Autonomous Impact Protection Vehicle</td>
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<td><em>Paul Middleton</em></td>
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<td>Colas Australia Group Pty Ltd</td>
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<td>Crumb rubber modified binder for sprayed seals: state of practice</td>
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<td><em>Trevor Distin</em></td>
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<td>Binder for airport asphalt surfacing</td>
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<td></td>
<td><em>Greg White</em></td>
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<td>University of the Sunshine Coast</td>
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<td>12:00 pm</td>
<td>Lunch</td>
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<td>Time</td>
<td>Session Description</td>
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| 1:00 pm| **SESSION OPENER** The role of systems engineering and building information modelling (BIM) in constructing the roads of the future  
André Dorée  
University of Twente, Netherlands |
| 1:20 pm| A new cold-in-place recycling Train designed by EIFFAGE Route  
Claude Giorgi  
EIFFAGE Infrastructures, France |
| 1:40 pm| Improving quality and efficiency using innovative paving technology  
Ervin Dukatz  
Mathy Construction Co, USA |
| 2:00 pm| SAMITac – Non-tracking tack coat emulsion  
Kanjana Yindee  
SAMi Bitumen |
| 2:30 pm| **Afternoon tea**                                                                   |
| 3:00 pm| E-Poster session in the Exhibition Hall                                             |
| 3:30-4:30 pm| Refreshments in the Exhibition Hall sponsored by SAMI |

**National Gala Dinner and Industry Awards night at the National Gallery Victoria 6.30pm onwards**
GALA DINNER
AAPA NATIONAL INDUSTRY AWARDS 2017
NATIONAL GALLERY VICTORIA (NGV) GREAT HALL
TUESDAY 15 AUGUST

SPONSORED BY

[Image of VIVA Energy]
### KEYNOTE SESSION

**8:30 am**

**Remediation of end-of-life concrete pavements**

- **the experience from the US**
  - *Adam Hand*
  - University of Nevada, USA

### MAJOR PROJECTS AND FUTURE CHALLENGES FOR AIRPORT PAVEMENTS

**9:00 am**

**Major Projects and Future Challenges for Airport Pavements**

- *Caroline Wilkie*
  - Australian Airports Association

### SUSTAINABLE PROCUREMENT OF ASPHALT IN EUROPE AND THE US

**9:30 am**

**Sustainable procurement of asphalt in Europe and the US**

- *Audrey Copeland*
  - National Asphalt Pavement Association, USA
- *Egbert Beuving*
  - European Asphalt Pavement Association, Belgium

### MORNING TEA

**10:00 am**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Institution</th>
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</table>
| 10:30 am | **SESSION OPENER**  
Technology and Practice Gaps in Airport Pavement Engineering | Greg White                                     | University of the Sunshine Coast |
<p>| 10:50 am | Asphalt surfacing technology at European airports                             | Egbert Beuving                                 | EAPA, Belgium            |
| 11:00 am | Effective use of warm asphalt mixes in the UK to reduce traffic disruption and improve environmental and working conditions | Carlos Solis-Navarro                           | AECOM                   |
| 11:10 am | An overview of asphalt technology applied at US airports                     | Adam Hand                                      | University of Nevada, USA |
| 11:30 am | Improved asphalt characterisation at Western Australian Temperatures         | Ester Tseng                                    | ARRB Group              |
|         | Resilience Engineering to Pavement Management – Case of Smooth Roads Project | Jia-Ruey Chang                                 | National Ilan University |
|         | Lessons from European Green Procurement for Roads                            | Egbert Beuving                                 | EAPA                    |
| 12:00 pm | <strong>Lunch</strong>                                                                    |                                                |                         |</p>
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<th>Time</th>
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<tr>
<td>1:00 pm</td>
<td><strong>SESSION OPENER</strong></td>
<td>Flexible Pavements for Logistic Platforms Design Method and Case Study</td>
<td>Xavier Guyot, Colas Asia Pacific</td>
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<td>1:00 pm</td>
<td><strong>SESSION OPENER</strong></td>
<td>Research into practice: improvements to Austroads pavement structural design</td>
<td>Michael Mofatt, ARRB</td>
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<td>1:00 pm</td>
<td><strong>SESSION OPENER</strong></td>
<td>Case study of innovative “Cape Seal” process</td>
<td>Paul Price, Downer Group</td>
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<td>1:20 pm</td>
<td>Exhausting mixes for airport applications: Challenges and developments in binder selection</td>
<td>Effect of temperature on the asphalt pavement strain responses: APT data and thermo-viscoelastic pavement modelling</td>
<td>Didier Bodin, ARRB</td>
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<td>1:40 pm</td>
<td>An Airport Asphalt Surfacing Binder And Mix For Australia</td>
<td>Laboratory evaluation of bitumen stabilised base course mixes</td>
<td>Iulian Man, SAMI Bitumen Technologies</td>
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<td>2:00 pm</td>
<td>Validation of a new generation bitumen for airport asphalt</td>
<td>Perpetual Pavement Design over Conventional Proposed Ring Road for Pune City</td>
<td>Saurabh Kulkarni, College of Engineering Pune, University of the Sunshine Coast</td>
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<tr>
<td>2:00 pm</td>
<td>Flexible pavement technology for local government – what AAPA training can offer you</td>
<td>Perpetual Pavement Design over Conventional Proposed Ring Road for Pune City</td>
<td>Tanja Conners, AAPA</td>
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<tr>
<td>2:30 pm</td>
<td><strong>Afternoon tea</strong></td>
<td><strong>Closing ceremony</strong></td>
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Engineered Innovation.
From innovative designs to Cat® dealer service and support, Weiler is paving the way to success for contractors around the world. Weiler’s remixing transfer vehicles, commercial pavers, road wideners and front mount screeds are engineered with innovative features to increase productivity while reducing operating costs. Weiler equipment is sold and serviced exclusively at Cat® dealers across Australia.
EXHIBITOR LIST

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WIN AN IPAD!!!

Start your engines, grab your AAPA Roadmap and win an iPad!!!

How? It’s easy:
1. Take a tour of the exhibition hall collecting booth stamps on your AAPA Road Map
2. Submit your Roadmap at AAPA booth 28 to be in with a chance to win an iPad!!!

Winner will be announced at Wednesday morning tea!
FLOOR PLAN
SPONSOR PROFILES

ASTEC AUSTRALIA | GOLD

Equipment to build and restore the world’s infrastructure

Markets
• Infrastructure
• Energy
• Aggregate and Mining

Astec Industries (USA) is a global family of businesses and is a leading USA manufacturer of asphalt plants and asphalt mobile equipment including leading brands of Heatec, Dillman, Roadtec and Carlson. Astec Australia as a complete Astec company store is committed to delivering best of breed equipment that is supported with quality made Astec genuine parts and service excellence.

As an AS 4801 and AS1800 company Astec Australia have a dedicated team of field personnel that support the Astec Response Promise of:
• Australia-wide service
• Customer profitability
• 24/7 serviceability (if you’re working, we’re working) and
• Up-to-date spare parts availability and pricing

Astec Australia has been servicing the region since 1995 and is a wholly owned company store of Astec Industries based in Brisbane. Globally headquartered in Chattanooga, Tennessee (USA), Astec Industries was founded in 1972, and is a USA publicly listed corporation of 18 subsidiary businesses.

BORAL | GOLD

Boral Asphalt is part of Boral Australia, the Construction Materials Division of a globally diverse building materials organisation. The largest division of Boral Limited, Boral Australia has a national structure that spans more than 400 cement, quarry, concrete, asphalt and transport sites throughout our great country. Boral’s vertical integration delivers direct access to raw materials and resources from other businesses in the Boral family, providing assurance that all inputs are directly controlled and fit-for-purpose. These connections across construction products and businesses within one company enables customers to draw on staff with a diverse range of industry expertise and access a large number of people from all our businesses.

Boral Asphalt has contributed to some of the most successful road infrastructure projects in Australia, such as Peninsula Link, CityLink, EastLink, Safelink, M2 (Sydney), and Reid Highway (WA). The asphalt business offers a range of products and services related to bitumen including the supply and placement of asphalt, application of spray seals and the provision of road maintenance services. Our
experience ranges from placing asphalt at major facilities such as airports and harbour precincts, and alliance contracts on some of the biggest road projects in capital cities, to work on local residential streets. Boral Asphalt is proud to partner with AAPA and continue to Connect Communities across Australia.

CATERPILLAR | PLATINUM

For more than 90 years, Caterpillar Inc. has been making sustainable progress possible and driving positive change on every continent. Customers turn to Caterpillar to help them develop infrastructure, energy and natural resource assets. With 2016 sales and revenues of $38.537 billion, Caterpillar is the world's leading manufacturer of construction and mining equipment, diesel and natural gas engines, industrial gas turbines and diesel-electric locomotives. The company principally operates through its three product segments - Construction Industries, Resource Industries and Energy & Transportation - and also provides financing and related services through its Financial Products segment. For more information, visit caterpillar.com. To connect with us on social media, visit caterpillar.com/social-media.

COLAS AUSTRALIA | PLATINUM

Colas Australia is a subsidiary of the International Colas Group, a world leader in the construction and maintenance of transport infrastructure. Colas entered the Australian market in 2008 with the acquisition of SAMI Bitumen Technologies and has since expanded its services by acquiring and developing a network of contracting companies.

Today Colas has consolidated its spray sealing and asphalt contracting operations under Colas New South Wales, Colas Queensland, Colas Western Australia and Tropic Asphalts. Colas Solutions also delivers nationwide pavement preservation solutions such as Microsurfacing and Sealcoat. Similar integrated contracting services are delivered in Victoria through a partnership with the VSA Group. Colas bitumen and binder business operates independently as SAMI Bitumen Technologies.

Colas Australia combines the local expertise and the strengths it derives from being part of a world-leading group, to provide its customers and clients safe, innovative, sustainable, performing and cost effective solutions for the design, building and maintenance of Australia’s transport infrastructure.

DYNAPAC | GOLD

Construction Equipment Australia (CEA) has been a leading distributor for world-renowned capital equipment brands for over 40 years.

Our range of Dynapac machinery includes soil rollers, asphalt rollers, static rollers and
the paver range.

We supply a diverse range of Dynapac equipment to industries such as agriculture, construction, civil works, defence, government, mining and recycling and waste.

CEA is a privately owned business with 5 branches, over 60 dealer outlets and more than 160 employees.

We provide sales, parts and service Australia-wide through our network of branches and dealers.

The trusted relationships that we have built with our customers, employees and communities continue to create shared successes.


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**JCB | GOLD**

Construction Equipment Australia (CEA) has been a leading distributor for world-renowned capital equipment brands for over 40 years.

We have been selling and supporting JCB agricultural and construction equipment for almost 20 years. Our range of machinery includes backhoe loaders, hydraulic excavators, mini excavators, skid steers, compact track loaders, telehandlers, Fastrac tractors, rough terrain forklifts and wheeled loaders.

We supply a diverse range of JCB equipment to industries such as agriculture, construction, civil works, defence, government, mining and recycling and waste.

CEA is a privately owned business with 5 branches, over 60 dealer outlets and more than 160 employees.

We provide sales, parts and service Australia-wide through our network of branches and dealers.

The trusted relationships that we have built with our customers, employees and communities continue to create shared successes.

PART OF THE CFC GROUP OF COMPANIES – Think Safe Act Safe

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**PUMA BITUMEN | PLATINUM**

Puma Energy is a rapidly growing, global energy company operating in 47 countries across five continents. Specialising in the supply of high-quality fuels, lubricants and bitumens, we are known for our international integrated supply chain that helps us source, refine, store and transport our products to customers swiftly and safely.

We entered the Australian market in 2013 with the acquisition of major fuel businesses including Ausfuel, Gull, Neumann Petroleum, Matilda Petroleum and Central Combined Group. Our Australian bitumen operations also began in 2013.
with the acquisition of the Caltex Bitumen business. In 2015, we expanded our Australian bitumen portfolio further with the acquisition of BP Bitumen, making us the largest bitumen supplier in the country. We now have product and import facilities in Brisbane, Hobart, Melbourne, Sydney and Townsville, a National Technical Centre in Melbourne, and an interim supply arrangement in Western Australia while our new import facility is built in Kwinana.

We work closely with our customers and industry experts to create products that perform under some of the most diverse and demanding road conditions in Australia and are committed to delivering industry-leading bitumen products and services that will help build roads that perform now, and in the future.

**SAMI BITUMEN TECHNOLOGIES | PLATINUM**

SAMI has been supplying bituminous binders into the Australian market for over 30 years and joined the International Colas Group in 2008.

Today, SAMI is a leading bitumen importer in Australia with access to import facilities in Brisbane, Port Botany, Geelong and Fremantle. SAMI also operates state of the art blending plants to produce polymer modified binders and emulsions in Brisbane, Sydney, Melbourne and Fremantle.

Long term association with key overseas bitumen producers and affiliation to the Colas regional network guarantee stable and continuous bitumen supply, critical to SAMI Bitumen Technologies’ customers.

Supported by a dynamic R&D department with access to innovative international technologies from the Colas Group, SAMI Bitumen Technologies supplies an extensive range of bitumen, binders and proprietary products with proven track records and wide industry recognition, often behind the most successful projects. More recently SAMI have played a leading role in advancing the transfer of high modulus asphalt technology called EME2 from France into Australia.

**TUTT BRYANT EQUIPMENT | BRONZE**

Tutt Bryant Equipment is the leading multi franchised National Distributor of construction equipment and cranes in Australia. Tutt Bryant Equipment deals in the selling and provision of equipment, parts and services through its company owned branches in Brisbane, Sydney, Melbourne, Adelaide and Perth plus strategically located independent dealers.

Tutt Bryant Equipment provides a comprehensive selection of quality equipment to a wide range of industries including construction, government sector, infrastructure and the general equipment hire industry. Tutt Bryant Equipment has long lasting supply relationships with key manufacturers including Bomag, Sumitomo, Kato, Kawasaki, Mustang, Hitachi-Sumitomo, Yanmar and most recently Metso. The total equipment portfolio includes excavators, loaders, tool carriers, compactors, milling and paving
machines, mobile crushers and screens and cranes.
Tutt Bryant Equipment is committed to providing high quality equipment, service and parts to customers further enhancing our reputation as Australia’s largest, multi franchised distributor of heavy construction equipment and cranes.

TYRE STEWARDSHIP | SILVER

Tyre Stewardship Australia (TSA) is an industry led, government supported initiative created to improve environmental outcomes associated with waste tyre disposal and utilise the over 50 million equivalent end-of-life passenger tyres generated each year for productive outcomes.

Crumb rubber has been used on Australian roads for more than 35 years and provides superior road performance in terms of reduced noise, cracking and rutting, decreased maintenance cycles, improved drainage and enhanced fatigue life.

The roads industry is a primary contributor to the generation of waste tyres. Fortunately, the industry can utilise this substantial resource to deliver better roads and environmental outcomes and create a true ‘circular economy’.

WEILER | SILVER

Located in Knoxville, Iowa, Weiler manufactures remixing transfer vehicles, commercial pavers, road wideners, windrow elevators, static compactors, front mount screeds and tack distributors.

Weiler equipment is engineered with innovative designs to increase productivity while reducing operating costs, allowing contractors to complete projects in a timely and efficient manner.

Weiler’s 370,000 square meter manufacturing facility is equipped with a state-of-the-art machining center, welding, powder and wet paint and assembly operations, allowing Weiler to better control quality and delivery for the majority of their machine components.

Weiler equipment is sold and serviced exclusively at Cat® dealer across Australia providing excellent parts availability and trained service technicians.

From interstate highways to residential driveways, Weiler equipment is paving the way to success for contractors around the world.
WIRTGEN GROUP | PLATINUM

WIRTGEN GROUP is an internationally operating group of companies in the construction machinery sector incorporating the traditional product brands: WIRTGEN, VÖGELE, HAMM, KLEEMANN and BENNINGHOVEN with their brand headquarters and manufacturing facilities in Germany. We can offer our customers mobile machine solutions for road construction and road rehabilitation, plants for mining and processing minerals or recycling material and for the production of asphalt.

The five brands are well established with the average age since they were founded being over 125 years.

The quality and technical innovation embodied in all Wirtgen Group brands and machines has resulted in recognition by global experts through many international design and innovation awards and widespread acknowledgement of industry leading products.

To support these products and the customers that use them requires a special approach to resourcing and delivery of aftersales service. At a local level, by specialists.

Strong and convincing local presence

The WIRTGEN GROUP is represented in Australia by its wholly owned sales and service subsidiary Wirtgen Australia. Being dedicated to the specialised product lines of its five brands enables Wirtgen to focus on providing end to end solutions to suit individual customer’s requirements. We do this by having local and factory trained service technicians operating from bases in five states who understand the machines and models sold in Australia to you, our Customers. These resources are further supported by extensively factory trained product and application specialists that represent each brand. Finally these local specialists have direct contact with their counterparts in each of the German factories.

This multilayered approach enables us to respond quickly to the needs of any Customer. We believe aftersales response is more than just getting a qualified general mechanical resource to your machine, but rather giving you access to highly trained technicians that specialise in and have extensive understanding of your specific model. We also extend this depth of local knowledge to offer you and your operators a multiple of training options from basic machine operation to detailed applications training both locally and back at the German factories.

Market-leading products, excellent service and tried and tested quality standards will give you the confidence you need in your competitive environment. The WIRTGEN GROUP’s successful long standing brands will keep you safely on the road of success.