



AUSTRALIAN
AIRPORTS
ASSOCIATION

AIRFIELD PAVEMENT AND LIGHTING **FORUM**

Wednesday 15 and Thursday 16 May 2019
Crown Conference Centre, Melbourne

PAVEMENT TECHNOLOGY **WORKSHOP**

Tuesday 14 May 2019
Crown Conference Centre, Melbourne



PROGRAM
airports.asn.au

It is with great pleasure that we welcome you to the 2019 AAA Airfield Pavement and Lighting Forum and Pavement Technology Workshop.

This event forms part of the commitment the AAA has to provide the aviation industry with comprehensive technical training.



The forum will discuss issues and challenges that airports face on a day-to-day basis surrounding airfield pavements and lighting, as well as new technologies and case studies from relevant airfield projects.

A reminder of the Welcome and Networking Drinks on Tuesday evening at Tonic Bar, Crown Promenade and the Networking Dinner which is being held at the River Room, Crown Casino on Wednesday evening. These networking events have been sponsored by Fulton Hogan and ADB Safegate and we thank them for their ongoing support and that of all the 2019 partners and exhibitors.

I would also like to thank Greg White for his contribution to the Pavement Technology Workshop program and for his time in the role of MC.

Yours sincerely,

Caroline Wilkie
Chief Executive Officer
Australian Airports Association

PROGRAM OUTLINE

| Tuesday 14th May | Wednesday 15th May | Thursday 16th May |
|--|--|---|
| <ul style="list-style-type: none">• Pavement Technology Workshop• Welcome and Networking Drinks | <ul style="list-style-type: none">• Airfield Pavement and Lighting Forum• Exhibition• Forum Dinner | <ul style="list-style-type: none">• Airfield Pavement and Lighting Forum• Exhibition |



PAVEMENT TECHNOLOGY WORKSHOP

TUESDAY 14 MAY 2019

| | |
|-----------|--|
| 0845-0900 | Welcome Greg White, Director, Airport Pavement Research Program, University of the Sunshine Coast |
| 0900-0930 | Bitumen and asphalt surface challenges and Federal Aviation Administration's (FAA) efforts to address them Dr. Navneet Garg, Program Manager, Federal Aviation Administration's National Airport Pavement and Materials Research <ul style="list-style-type: none">• Distresses observed in asphalt concrete airport pavements• FAA specifications for HMA construction• Research – Development of performance related specifications• Advanced HMA characterisation for pavement evaluation and design |
| 0930-1000 | Achieving more sustainable flexible pavements through reuse and recycling Erik Denneman, Director, Technology and Leadership, Australian Asphalt Pavement Association <ul style="list-style-type: none">• Tyre derived crumb rubber in asphalt and sprayed seals• Increasing the reuse of reclaimed asphalt pavements• Waste glass in asphalt• Update on national harmonisation of test methods, including the AAA test methods |
| 1000-1030 | Specifications – The impacts of 'creep' and crossover Dr. Bevan Sullivan, National Technical Manager, Fulton Hogan <ul style="list-style-type: none">• The required levels of and implications of over specification on competing performance parameters• Testing repeatability and balancing producers and consumers risk• Test methods availability and applicability for design and production control |
| 1030-1100 | MORNING TEA |
| 1100-1130 | Smart Pavements Australia Research Collaboration (SPARC) Research Hub – A platform for transformational R&D to future-proof and future-ready the Australian Pavement Industry Professor Jayantha Kodikara, Deputy Head of Department, Professor in Geomechanics Engineering, Department of Civil Engineering, Monash University <ul style="list-style-type: none">• Australia spends about \$17 billion dollars annually on roads with \$5 billion going to maintenance of its 900,000 km road network - one of the highest per capita in the world• SPARC is an unprecedented research collaboration of Australian Research Council, 20 industry partners, eight local universities and seven overseas organisations• SPARC undertakes industry-led research delivering longer lasting, safer and more environmentally friendly pavements and relevant skill enhancement that can adapt to future transport demands |
| 1130-1200 | Pavement research and technology update Craig Ridgley, Technical Director – Aviation, AECOM <ul style="list-style-type: none">• Focus on Christchurch Airport AC mix design evolution over the last seven years in parallel with the Airside PCI asset management program findings and trends• A look at the impact of the A321 on regional airports |
| 1200-1230 | Stone mastic asphalt as an ungrooved runway surface Sean Jamieson, Research Student, University of the Sunshine Coast <ul style="list-style-type: none">• Runway surface texture and skid resistance• Dense graded and stone mastic asphalts• Specification development, laboratory testing and field verification• Economics and other benefits |
| 1230-1330 | LUNCH |

*Program is subject to change

1330-1400 **Federal Aviation Administration's (FAA) efforts to increase rigid pavement design life and some non-thickness related issues**

Dr. Navneet Garg, Program Manager, Federal Aviation Administration's National Airport Pavement and Materials Research

- Distress observed in rigid airport pavements
- FAA specifications for rigid pavement construction
- Current FAA research on extended pavement life
- Best practices (construction, quality control, etc.)

1400-1430 **Sensitivity of pavement thickness to input parameters**

Greg White, Director, Airport Pavement Research Program, University of the Sunshine Coast

- Input parameters for flexible and rigid pavement design
- Parametric thickness calculations for different aircraft and subgrades
- Sensitivity of pavement thickness to the different parameters
- Gives guidance to designers on which parameters to focus on when investigating/designing

1430-1500 **Innovative airport asphalt mixes based on hybrid-polymerisation of bitumen**

Dr. Filippo Giustozzi, Senior Lecturer, Civil and Infrastructure Engineering, RMIT University

- Several types of polymer are used by the asphalt industry to improve performance of asphalt mixes; each of the polymer families has advantages and disadvantages when it comes to polymer-modification of bitumen.
- This study will present the outcomes from the study of hybrid-polymerisation of bitumen for very high-performance airport asphalt pavements. Hybrid polymers, after proper calibration, can deliver superior durability of the pavement assets.

1500-1530 **AFTERNOON TEA**

1530-1600 **The utilisation of EME2 asphalt at Brisbane International Airport**

Andrew Henningsen, Civil Engineer, Aurecon

- The basis for which EME2 asphalt was chosen for Taxiway Hotel
- The EME2 mix design and performance test results
- Applied construction procedure
- Lessons learnt

1600-1630 **Comparison of USA and Australian pavement designs and thickness determination tools**

Greg White, Director, Airport Pavement Research Program, University of the Sunshine Coast

- Australia traditionally used APSDS and COMFAA for pavement thickness design
- USA uses FAARFIELD, which recently changed from Ver 1.3 to Ver 1.4
- Rigid and flexible pavement thicknesses are compared for the different softwares

1630-1700 **Wrap up and additional questions for FAA**

1700-1900 **Welcome and Networking Drinks**

Tonic Bar, Crown Promenade Melbourne

*Program is subject to change



Welcome Drinks

TUESDAY 14 MAY

**Join us for Welcome Drinks
at the Tonic Bar, Crown
Promenade after the Pavement
Technology Workshop.**

You will have exclusive access to the venue while enjoying canapes and drinks. This is a great opportunity to network, relax and catch-up with delegates prior to the two-day Airfield Pavement and Lighting Forum.

 **Fulton Hogan**

Networking Partner



AIRFIELD PAVEMENT AND LIGHTING FORUM

DAY ONE: WEDNESDAY 15 MAY

| | |
|-----------|--|
| 0845-0900 | Welcome |
| 0900-0930 | Overview of airports in the USA Jeff Gagnon, Manager Airport Pavement R&D Section, Federal Aviation Administration's (FAA) National Airport Pavement & Materials Research <ul style="list-style-type: none">• The role of the FAA• Airport Improvement Program (AIP) - Airport funding in the US• FAA advisory circulars and software• Next Generation Air Transportation System (NextGen) – Effects on airport pavement• Airport Pavement R&D program |
| 0930-1015 | PANEL: The practical pavements and lighting implications of the new MOS 139 CHAIR: Darren Angelo, Senior Standards officer (Aerodromes and Heliports), CASA Gary McGivern, Manager – Airside Operations, Canberra Airport Greg White, Director, Airport Pavement Research Program, University of the Sunshine Coast Rob Mikhail, General Manager Airfield Operations, Perth Airport Jimmy Maitland, General Manager/Director Sales, Southern Asia Pacific Region, ADB SAFEGATE |
| 1015-1045 | MORNING TEA |
| 1045-1115 | The Existing Runway 01/19 Rename Project – Effecting Major Operational Change in an Airside Environment Adam Tull, Project Manager - Operational Readiness and Testing (ORAT), New Parallel Runway Project, Brisbane Airport <ul style="list-style-type: none">• Project rationale• Collaboration• 'Sign & Panel Exchange' method• Surface movement control splitting• Approach to risk management |
| 1115-1145 | Perth Airport CAT III Upgrade Mark Dawson, Electrical Infrastructure Manager, Perth Airport <ul style="list-style-type: none">• Perth Airport provided a Cat III presentation at the AAA Pavements and Lighting Forum 2017• The 2019 presentation provides an overview of the completed project• Focusing on the challenges that were encountered on the path to practical completion• The solutions implemented and the lessons learnt |
| 1145-1215 | PANEL: Airfield Ground Lighting (AGL) CHAIR: Jimmy Maitland, General Manager/Director Sales, Southern Asia Pacific Region, ADB SAFEGATE Mai Yeung, Interface Manager, Western Sydney Airport Project, Bechtel Corporation Michael Mahlstedt, Airfield Lighting Manager, Melbourne Airport Mark Hickey, Technical Team Leader, Northern Territory Airports |
| 1215-1315 | LUNCH |
| 1315-1345 | The USA approach to airfield lighting and new AGL technologies Jeff Gagnon, Manager, Airport Pavement R&D Section, Federal Aviation Administration's National Airport Pavement and Materials Research <ul style="list-style-type: none">• Solar airfield lighting• Electrical infrastructure research• FAA AGL research taxiway |
| 1345-1415 | Best practice for optimum crack retardation performance in asphalt overlays using Polyester (PET) grids Zehra Kaya, National Business Manager - Roads & Pavements, HUESKER Australia <ul style="list-style-type: none">• Design and construction practices employed locally and relevant case studies• Recommendations for optimum results in effective crack retardation• Areas of collaboration between relevant stakeholders |
| 1415-1445 | WWII Pacific runways - reconstruction for commercial jet and turbo prop aircraft operations Craig Ridgley, Technical Director – Aviation, AECOM <ul style="list-style-type: none">• Coral as a construction aggregate• Coral asphaltic mixes and chip seals• UXO risks |

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1445-1515 **Overview of airport pavements in Japan**

Dr. Ali Jamshidi, Postdoctoral Research Fellow – Pavements, University of the Sunshine Coast

- Airports in Japan
- Design issues and approaches
- Construction issues and challenges

1515-1545 AFTERNOON TEA

1545-1615 **Remote Airports: the challenges at Komo Airport, PNG case study**

Nick Lin, Airport Engineer, Aurecon

An ongoing project, Nick will discuss the various challenges faced during the Komo Airfield Earthquake Recovery Project including:

- Quick and safe solutions designed to repair runway cracking and reinstate the runway to operational status
- Condition assessment of the airstrip, to better understand what issues potentially lie below the pavement surface
- Earthquake related challenges: safety, slope stability and major slips
- Location related challenges: weather, civil unrest, logistics, culture
- Engineering challenges: specification requirements vs materials available, equipment requirements vs logistics, accessibility and availability

1615-1645 **Development of a sprayed sealing specification for regional airports**

Greg White, Director, Airport Pavement Research Program, University of the Sunshine Coast

- Sprayed sealing for airports
- Challenges and recent issues on airport sealing works
- Development of a standardised specification and catalogue of designs
- Practical tips for a regional airport getting a re-seal

1645-1715 **Maintaining a CATIIIB aerodrome lighting system and our step towards follow the green**

Michael Mahlstedt, Airfield Lighting Manager | Aviation, Melbourne Airport

- Lighting systems and serviceability requirements for CAT IIIB operations
- Upgrade to LED technology with individual lamp control and monitoring system
- Earthing strategy
- Voltage restriction
- Follow the Green READY

1900-2230 **Forum Networking Dinner**

River Room, Crown Casino Melbourne

*Program is subject to change

Networking Dinner

WEDNESDAY 15 MAY



Join us for the 'Networking Dinner' at the River Room, Crown Casino and enjoy wonderful views over Melbourne's famous Yarra River and city skyline.

Our exclusive access provides a great opportunity to network and relax with industry professionals.



AIRFIELD PAVEMENT AND LIGHTING FORUM

DAY TWO: THURSDAY 16 MAY

-
- 0845-0915 **The FAA Technical Centre Airfield Lighting R&D program and outcomes**
Jeff Gagnon, Manager Airport Pavement R&D Section, Federal Aviation Administration's National Airport Pavement and Materials Research
- Overview of current research
 - Integration of IR into LED Lights
 - Investigating wrong surface landing events and if airfield lighting is a factor
 - In-pavement light fixtures
-
- 0915-0945 **Sydney Airport cross runway – asphalt preservation trials, Jan 2017 to Oct 2018**
Paul Rubsov, Technical Manager, Infrastructure and Services, Sydney Airport
- Overview of project including expected outcomes
 - Details of products trialed
 - Discussion of trial outcomes
 - Recommendations to ensure successful project outcomes
-
- 0945-1030 **PANEL: Performance based asphalt specifications**
CHAIR: Greg White, Director, Airport Pavement Research Program, University of the Sunshine Coast
Tony Schulz, Airport Manager, Whitsunday Coast Airport
Paul Rubsov, Technical Manager, Infrastructure and Services, Sydney Airport
Erik Denneman, Director, Technology and Leadership, Australian Asphalt Pavement Association
Luc Ramalinga, Airfield Manager, Melbourne Airport
-
- 1030-1100 MORNING TEA
-
- 1100-1130 **Chatham Island Airport – Solar airfield lighting solution**
Vicky Clarke, Sales Engineer, Avlite Systems
- Issues surrounding hardwired fixtures
 - Issues surrounding remote airfields/communities
 - Products supplied
 - Finished airfield
-
- 1130-1200 **Alice Springs Airport – 2019 pavements and AGL**
Davy Semal, Manager Operations, Alice Springs Airport
Leigh Carnall, Project Manager, Northern Territory Airports
- Where is Alice and what are we doing?
 - Chasing the multigrade
 - Un-lighting the way
 - Preserving the top bit
 - Bird baths be gone
-
- 1200-1230 **PANEL: Regional Airfield Ground Lighting**
CHAIR: Simon Bourke, Policy Director, AAA
Mark Hickey, Technical Team Leader, Northern Territory Airports
Nat Thomas, Aerodrome Inspector, Surveyor and Line Marker, Aerodrome Management Services
-
- 1230-1330 LUNCH
-
- 1330-1400 **Taxiway Bravo surface replacement 2017 at Canberra Airport**
Gary McGivern, Manager – Airside Operations, Canberra Airport
- Planning works around aircraft movements including International Code E aircraft
 - Continuous works for 19 hours, planning WSO and vehicle escorts with limited WSO resources available whilst retaining normal operations
 - Staging works adjacent to the RPT Apron including implementing alternative push back operations
 - Traffic management for construction vehicles taking account of aircraft movements during operational hours
 - Managing FOD on an active movement area
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*Program is subject to change

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| 1400-1430 | <p>Replacing the entire AGL primary infrastructure of a live runway without impact on operations: Brisbane Airport 2016 overlay and AGL upgrade – a case study</p> <p>Jaco Liebenberg, Senior Technical Director: Aviation and Pavement Engineering, GHD</p> <ul style="list-style-type: none"> • During 2013 Brisbane Airport experienced a failure of the blast protection pavement, which prompted the need to do some strengthening works to the runway shoulders and blast protection • All the primary cables for the runway lighting system were directly buried underneath the blast protection pavement • A complete overhaul of the primary runway AGL infrastructure was required • The runway was only available for five hours a night and for a maximum construction duration of 27 weeks, leaving less than 850 construction hours available to complete all the works. • Challenges, innovative solutions and processes adopted in the delivery of one of the most challenging runway resurfacing and AGL upgrade projects |
| 1430-1500 | <p>Use of Microsurfacing for airport pavement surfacing</p> <p>Paul Price, National Manager Pavement Preservation, Downer</p> <ul style="list-style-type: none"> • Scope of works / specifications / aircraft design type • Delivery process • Performance attributes |
| 1500-1530 | <p>Apron floodlight evaluation updates</p> <p>Mai Yeung, Interface Manager, Western Sydney Airport Project, Bechtel Corporation</p> <ul style="list-style-type: none"> • The industry continues to find it confusing as to what is the apron floodlighting requirements, specifically the interpretation of plane of calculations, area of compliance and how LED benefits can be captured and materialised. |
| 1530-1600 | <p>Comparing Australian flexible pavements to equivalent FAA and French style pavement designs</p> <p>Greg White, Director, Airport Pavement Research Program, University of the Sunshine Coast</p> <ul style="list-style-type: none"> • Australian airports have traditionally used thick crushed rock and a thin asphalt surface • The USA uses 150-250 mm of asphalt while Europe often has full depth asphalt • Structurally equivalent designs are compared for cost and environmental impact, across various aircraft and subgrade conditions |
| 1600 | CLOSE |

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FORUM AND WORKSHOP SPEAKERS



Darren Angelo
Senior Standards officer
[Aerodromes and Heliports]
CASA

Darren Angelo is the Senior Standards Officer at the Civil Aviation Safety Authority (CASA), for Aerodromes and Heliports. Darren is currently project lead to implement the new heliport regulations as well as updating the existing aerodromes regulations and standards.

Darren also serves as Australia's representative on the International Civil Aviation Organisation Panel for Aerodromes Design and Operations and is a standing member of the Visual Aids Working Group, the Aerodrome Design Working Group and the Obstacle Limitation Surface Task Force.

Darren has previously held management positions in operations, emergency planning, safety management, compliance and training.

Leigh Carnall
Project Manager
Northern Territory Airports

Leigh has been involved with the construction of civil infrastructure for a variety of clients across Australia and overseas. Projects such as local and state road construction & maintenance, tailings dams, mine development, airports, disaster reconstruction, water storage dams, urban development and works for local authorities.

Leigh is consulting to the Northern Territory Airport Pty Ltd group, delivering infrastructure to both their Darwin & Alice Springs Airports.

Vicky Clarke
Sales Engineer
Avlite Systems

Vicky has over nine years' experience in the aviation lighting industry, with the last three employed at Avlite Systems in a technical sales and engineer capacity.

Vicky is highly experienced in ICAO, FAA and CASA specifications around airfield, heliport and obstruction lighting with a focus on providing turnkey solutions. Vicky has worked on large projects with a vast number of customers around the world and is passionate about the airfield industry.

Mark Dawson
Electrical Infrastructure
Manager
Perth Airport

Mark is an experienced electrical manager who has been employed at Perth Airport for the last nine years.

Mark is currently responsible for the electrical team including operations, day-to-day maintenance and capital improvements.

The responsibilities include the high voltage network, the airfield and terminal facilities. Before joining Perth Airport mark's background was in steel manufacture in the UK. Australia, iron ore, gold and nickel mining both residential and fly in fly out, transmission construction and cement / lime production.

FORUM AND WORKSHOP

SPEAKERS



Erik Denneman
Director, Technology and Leadership
Australian Asphalt Pavement Association

As Director of Technology and Leadership with the Australian Asphalt Pavement Association, Erik Denneman (PhD, CPEng, RPEQ) supports the flexible pavement industry in the implementation of innovative pavement solutions.

Before joining AAPA in July 2016, Erik led the ARRB Pavement Technology and Asset Management team in Brisbane.

He specialises in performance based design and specification of bituminous materials, and the development of pavement design models. Erik has worked in the Netherlands, South Africa, the USA, and since 2012 Australia.



Jeff Gagnon
Manager Airport Pavement R&D Section, Federal Aviation Administration's (FAA) National Airport Pavement & Materials Research Federal Aviation Administration (FAA)

Jeffrey Gagnon has worked with several international aviation consulting firms on a diverse range of projects ranging from design and construction of large international airports to pavement research studies, as well as, airport pavement management systems.

He has a bachelor's degree in Civil Engineering from the University of New Hampshire and a master's in Engineering from Texas A&M University.

He is a licensed professional engineer in the states of North Carolina and is a member of the American Society of Civil Engineers (ASCE) Airfield Pavement Committee.

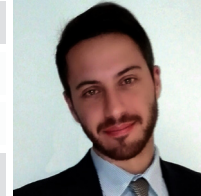


Dr. Navneet Garg
Program Manager, Federal Aviation Administration's National Airport Pavement and Materials Research Federal Aviation Administration (FAA)

Dr. Navneet Garg is a Program Manager in Airport Technology R&D Branch at the FAA's William J. Hughes Technical Center in New Jersey.

He manages projects on full-scale accelerated pavement testing, field instrumentation and testing and pavement materials.

Dr. Garg has a PhD and a master's in civil engineering from the University of Illinois. He has been actively involved in airport pavement research at the FAA's National Airport Pavement Test Facility since 1998 and has authored many technical reports and research papers for journals and conference proceedings.



Dr. Filippo Giustozzi
Senior Lecturer, Civil and Infrastructure Engineering RMIT University

Dr. Giustozzi is the Chair of AFD30(2) technical committee on Sustainable Pavements at the Transportation Research Board of the National Academies of Science and Engineering in Washington DC.

He has been involved in several road and airport construction projects since 2008 and is currently managing \$1.6 million of research funds on smart pavement materials.

He is the Associate Editor-Pavements of the Australian Journal of Civil Engineering and is now serving as Senior Lecturer at RMIT University.

FORUM AND WORKSHOP SPEAKERS



Andrew Henningsen
Civil Engineer
Aurecon

Andrew is a Civil Engineer with Aurecon's Civil Infrastructure team. He is a commercially-minded infrastructure specialist with a strong background working on both Civil and Aviation projects.

Andrew's involvement in Aviation projects has focused on achieving high quality and practical constructability outcomes during design phase, undertaking value added construction engineering and supervision, as well as hands-on airfield infrastructure inspection and maintenance services, ensuring value for clients from their infrastructure.



Mark Hickey
Technical Team Leader
Northern Territory Airports

Mark has over 10 years' experience working on aeronautical ground lighting systems in both Australia and Ireland.

He manages the electrical maintenance team at Darwin Airport and provides technical support to the NT Airports Projects Team.

Mark is a Recreational Pilot and certified Aerodrome Works Safety Officer with a Graduate Diploma in Aviation Management from UNSW.



Sean Jamieson
Research Student
University of the Sunshine Coast

Sean Jamieson is a Flight Lieutenant Airfield Engineering Officer in the Royal Australian Air Force.

In 2018, Sean was seconded to the University of the Sunshine Coast to undertake a research masters as part of the University's Airport Pavement Research Program.

Sean now works at Defence's Directorate of Estate Engineering Policy, which is responsible for providing airfield and aircraft pavement policy and advice for Defence's 28 sealed airfields.



Dr. Ali Jamshidi
Postdoctoral Research Fellow – Pavements
University of the Sunshine Coast

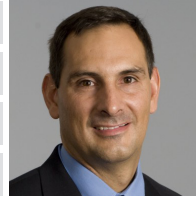
Dr Ali Jamshidi completed his PhD, master's, and bachelor's degrees in civil engineering.

He has contributed to highway, airport and port pavement projects in different countries. In his PhD course, Dr Jamshidi worked on warm-mix asphalt (WMA) technology.

The University of the Sunshine Coast Airport Pavement Research Program focuses on material and technologies for development of a high-strength and sustainable pavement system for airports in Australia.

Dr Jamshidi continues to collaborate with overseas universities as well as industries in the field of sustainable pavements.

FORUM AND WORKSHOP SPEAKERS



Zehra Kaya
**National Business Manager -
Roads & Pavements**
HUESKER Australia

Zehra holds a Bachelor of Science degree in Engineering with a specialisation in technical textiles, and has completed a Master's degree in International Business, at Griffith University, Queensland.

Over the past five years she has worked in the geosynthetics industry in Australia, where she has specialised in the use of geosynthetic solutions in road and airfield pavements, with a particular interest in the area of asphalt reinforcement to tackle the effects of reflective cracking in pavement structures.

She is currently heavily focused on a number of airfield refurbishment projects across Australia.

**Professor Jayantha
Kodikara**
**Deputy Head of Department,
Professor in Geomechanics
Engineering, Department of
Civil Engineering**
Monash University

Professor Jayantha Kodikara is Director of ARC Smart Pavements Research Hub – SPARC and is the Deputy Head of Monash Civil Engineering.

He obtained his bachelor's degree from Sri Lanka and his PhD from Monash University. He is a Chartered Professional Engineer and a Fellow of Engineers Australia.

He has undertaken research on a diverse range of topics, publishing more than 300 peer-reviewed articles.

He has received several awards for innovation and industry collaboration including International Water Association award and B/HERT award in 2016.

Jaco Liebenberg
**Senior Technical Director:
Aviation and Pavement
Engineering**
GHD

Jaco provides a lead role in the project management and delivery of detailed aviation design services throughout GHD. He has more than 22 years' experience in the design and delivery of infrastructure.

Jaco has been the Design Manager for major road projects, runway resurfacings, upgrades and rehabilitation projects in Africa and Australasia.

Recent experience includes a complex overlay and AGL infrastructure replacement at Brisbane Airport, pavement rehabilitation at Sydney Airport, conceptual pavement designs for the new Western Sydney Airport and various runway resurfacing projects.

Nick Lin
Airport Engineer
Aurecon

Nick joined the Aviation team at Aurecon in 2018 and his primary focus has been the development of airfield pavement layouts, associated drainage infrastructure, earthworks and structures, with an interest in design and project management.

During this time, Nick has been heavily involved in the design, documentation and project management of the Komo Airport Runway Recovery Project in Papua New Guinea.

Nick obtained his Bachelor of Civil and Infrastructure Engineering (First Class Honours) from RMIT University and soon after joined Melbourne Metro Rail Authority (now Rail Projects Victoria).

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Michael Mahlstedt
Airfield Lighting Manager
Melbourne Airport

Michael Mahlstedt is an Aviation professional with 11 years' experience in Airfield Lighting and Airfield Operations.

Currently the Airfield Lighting Manager at Melbourne Airport, Michael is responsible for the efficient and effective management of the Airfield Lighting and Visual Aid infrastructure at Australia's first Category IIIb approved Airport.

Michael is committed to aviation safety and is an active member of a number of national technical working groups, such as the CASA MOS Part 139 review, as a major airports representative. And a member of the recently formed AAA Technical Working Group.



Jimmy Maitland
General Manager/Director
Sales, Southern Asia
Pacific Region
ADB SAFEGATE

Jimmy Maitland is the General Manager and Sales Director for ADB Safegate in Australia.

From customer service to large scale turnkey projects, he has worked closely with a large number of airports in Australia, New Zealand and the Pacific to assist in providing them with a broad range of Airfield Lighting and Gate solutions tailored to the airport's requirements.

Jimmy is committed to helping airports achieve their maximum possible safety, environmental and operational efficiency benefits through the implementation of technology and the integration of airfield systems.



Gary McGivern
Manager – Airside
Operations
Canberra Airport

Gary McGivern has been with Canberra Airport for more than six years.

He has been instrumental in the planning and success of several major works including a major taxiway upgrade, RPT apron upgrades for the new terminal and airside upgrades to meet MOS 139 and international standards.

Gary is the chairperson of the AAA Aerodrome Operations Safety Network Group, which meets quarterly to discuss aviation safety issues, risks, incidents, trends and future regulatory changes at Australian and New Zealand Airports.



Rob Mikhail
General Manager Airfield
Operations
Perth Airport

Rob is a certified practicing civil engineer and experienced operations manager who has been with Perth Airport for the last 10 years.

He is currently the General Manager Airfield Operations and prior to that he oversaw the capital works program, maintenance and engineering of the airfield as the Civil Engineering Manager.

Before joining Perth Airport, Rob worked as an aviation projects manager for consultancies in various locations around Australia and Papua New Guinea focused on airfield infrastructure including aircraft pavements and airfield lighting.

FORUM AND WORKSHOP

SPEAKERS



Paul Price
National Manager Pavement Preservation Downer

Paul has 25 years' experience working in the bituminous surfacing industry, with over 20 years working directly with microsurfacing throughout Australia. With an extensive operational and technical knowledge, Paul is considered as an industry expert with regard to microsurfacing.

Paul has a wealth of airfield surfacing experience using microsurfacing formed over two decades across all states of Australia and a variety of applications.

Luc Ramalinga
Airfield Manager Melbourne Airport

Luc has worked in the aviation industry for over 10 years and spent the last 7 years working for Melbourne Airport.

As the Airfield Manager Luc manages the airfield department responsible for airside safety and compliance, airfield civil infrastructure and also airfield lighting.

Luc is particularly active in overseeing safety on the airfield and chairs both the Airside Safety Committee and the Melbourne Runway Safety Team with an emphasis on driving change in airside safety culture and improving driver behaviour.

Craig Ridgley
Technical Director – Aviation AECOM

Craig Ridgley is AECOM's Technical Director for Aviation for ANZ. For the last 20+ years Craig has worked full time on airside infrastructure design and construction management projects.

Craig is AECOM's Technical Practice Group lead for Aviation and Heavy duty Pavements and leads AECOM's specialisation in airside pavement asset management and the development of airport client specific asphaltic mixes, surface treatments and expedient construction methodologies.

Craig has reconstructed a number of WWII era coral runways in the pacific and developed coral materials specific methodologies for those projects.

Paul Rubsov
Technical Manager, Infrastructure and Services Sydney Airport

Paul is the Technical Manager, Infrastructure and Services (I&S) at Sydney Airport. His portfolio includes civil infrastructure (airfield pavements, road pavements, stormwater, etc.) HV/LV, sewage, water and recycled water services.

Paul has been working at Sydney Airport for nearly 13 years during which time he has also managed Civil Assets and Airfield Maintenance.

He has previously worked for engineering consultancies in Sydney and has extensive experience in the road construction industry. Paul is currently the Chair of the Australian Airports Association Pavements Working Group.

FORUM AND WORKSHOP SPEAKERS



Tony Schulz
Airport Manager
Whitsunday Coast Airport

Tony has spent many years in the aviation industry seeing it from a variety of angles.

He has spent 11 years working with Whitsunday Regional Council.

He currently looks after Whitsunday Coast Airport, Bowen and Collinsville's aerodromes.



Davy Semal
Manager Operations
Alice Springs Airport

Davy started his career in the tourism industry and worked in various parts of the world before arriving in Australia in 2008 when he started his adventure into aviation.

Davy pursued his commercial pilot's license enabling him to combine his love for tourism and aviation. In 2013 Davy commenced as Manager Operations for a major Northern Territory general aviation organisation and in July 2016 took on his current role as Manager Operations at Alice Springs and Tennant Creek Airports.



Dr. Bevan Sullivan
National Technical Manager
Fulton Hogan

Bevan is the National Technical Manager for Fulton Hogan, Australia, and leads the companies Pavement and Materials Engineering business.

Bevan has worked in asphalt and pavement technology industries in consultancies, construction and now in a hands-on role in industry, he has 20 years of experience in both in Australia and internationally in pavement technology, design and material development.

He and his teams have developed and implemented enhanced products and procedures for improving pavement such as; EME2, Long Life Asphalt pavements, Thin Asphalts and Speciality Port and Airport Mixes.

Bevan is part of Austroads PSWG, ARWG and the AAPA NLTC and holds a PhD in Pavement Engineering.



Nat Thomas
Aerodrome Inspector,
Surveyor and Line Marker
Aerodrome Management Services

Nathanael Thomas (Nat) has worked with Aerodrome Management Services since the year 2000. In that time, he has carried out a wide variety of roles on regional airports within WA, NT & QLD. These roles include aerodrome management, construction, line marking, lighting installation, design and inspection.

Nat has been representing small regional airports on the AAA Board since the category was created in 2013 as the manager of Halls Creek aerodrome. Of a typical year Nat will visit near 100 aerodromes carrying out Aerodrome Safety Inspections, Aerodrome Technical Inspections and various other works.

FORUM AND WORKSHOP SPEAKERS



Adam Tull
Project Manager -
Operational Readiness and
Testing (ORAT), New Parallel
Runway Project
Brisbane Airport

Adam is a Certified Practising Project Manager (AIPM) with 14 years' experience across the defence, mining and aviation sectors.

In 2018, Adam was the Project Manager of the "Existing Runway 01/19 Rename project" which successfully effected two major operational changes at Brisbane Airport - the renaming of the existing runway and the "splitting" of the surface movement control ground frequency from one zone into two.

Adam is the Project Manager of Operational Readiness and Testing (ORAT) for BAC's \$1.3B New Parallel Runway project.



Greg White
Director, Airport Pavement
Research Program
University of the Sunshine
Coast

Dr Greg White is the Director of the Airport Pavement Research Program at the University of the Sunshine Coast.

Following a career as an Airfield Engineering Officer in the Royal Australian Air Force, Greg worked for a number of leading Australian design consultants as a Principal Airport Pavement Engineer and then as the Technical Manager Airports for one of Australia's leading airport construction and surfacing companies.

Greg holds a number of Masters level degrees, as well as a PhD, all earned in the area of pavement materials and engineering.

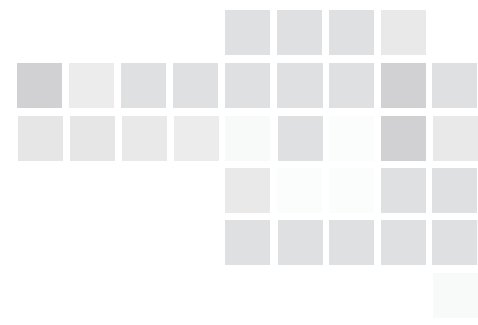


Mai Yeung
Interface Manager, Western
Sydney Airport Project
Bechtel Corporation

Mai Yeung has recently joined Bechtel Corporation as the Interface Manager for the Western Sydney Airport Project.

She has over 25 years airfield lighting and apron floodlighting design and construction experience in Australia at Melbourne Airport, Gold Coast Airport, Brisbane Airport, Sunshine Coast Airport, Sydney Airport and Defence Airfields, in New Zealand at Auckland Airport and RNZDF Base Ohakea and in Hong Kong at the new international Hong Kong Airport.

Representing Australia, Mai is sitting on the IESNA RP37 - Outdoor Lighting committee, focusing on apron floodlighting design guideline and standards development.



FORUM AND WORKSHOP 2019 PARTNERS



Fulton Hogan

www.fultonhogan.com

Fulton Hogan is Australia's largest and most experienced provider of runway, taxiway and apron construction, upgrade and maintenance services at international, domestic and regional airports and defence facilities. We have the people, equipment, management systems and financial stability to offer the broadest range of tailor-made solutions for airport owners and operators.

Products and services:

- All airport civil infrastructure and pavement construction and maintenance services
- Grooving
- AGL works
- Friction Testing / Rubber Removal
- Specific Technical & Design Services
- Airport specialised bituminous products
- JetBind® - bitumen binder used in asphalts for airport surfaces
- JetBlack® - a blend of premium bitumen emulsion, special additives & mineral filler
- JetBond® - a premium modified bitumen emulsion tack coat
- JetBloc® - a speciality fuel resistant coating to protect asphalt surfaced pavements

ADB SAFEGATE

www.safegate.com

ADB SAFEGATE is a leading provider of solutions that boost efficiency, improve safety, raise environmental sustainability and reduce operational costs for airports. The company partners with airports to explore their current situations, identify bottlenecks and jointly solve them through integrated solutions that address airport operations from approach to departure.

Products and services:

- Supply of Airfield Lighting Systems
- Installation and commissioning of AGL
- Supply, installation and commissioning of Gate Docking Systems
- Air Traffic Safe Control
- Project management
- After sales support

Downer

www.downergroup.com

Downer's Airports & Specialised Pavements division is responsible for delivering airport projects across Australia, with services including:

- Asphalt and spray seal pavement construction, maintenance and preservation;
- Consulting on airfield project constructability and maintenance optioneering;
- Civil and drainage works;
- Ex-situ and in-situ pavement stabilisation;
- Trapezoidal runway grooving;
- Research and development; and
- Management and delivery of aeronautical ground lighting, line marking and building construction services.

Avdata Australia

www.avdata.com.au

Avdata's Airport Billing Service, established in 1989, is used by more than 150 airports Australia-wide. We specialise in tailored solutions - we make our system fit your charges. Avdata collects and manages air traffic data from multiple sources including audio recorders, and gives you easy access to the information you need.

Products and services:

- Billing services – for aircraft landing and parking fees, passenger charges and other specialised charges as required.
- Obligation-free evaluation service
- Airport traffic data - short or long term
- Customised reporting
- Access control and billing services for other applications

FORUM AND WORKSHOP 2019 EXHIBITORS



Avionics

www.avionicslimited.com

Avionics provide design, supply, installation and commissioning of all airfield related lighting systems. Runways, taxiways, aprons, infrastructure, cabling – we complete all services in-house. Our specialty is working on operational airfields where our ability to maintain production and achieve integration of new airfield lighting systems whilst not affecting operation is unsurpassed.

Products and services:

- Supply of full suite of AGL products – Choose your manufacturer
- Installation and Commissioning of AGL (Australia Wide)
- Supplier of ewo LED Apron Lighting conforming to MOS139 and ICAO
- Supplier of weber tec grout and resins specific to AGL installation

Boral

www.boral.com.au

Boral Asphalt supplies high quality surfacing solutions for a wide range of road and other construction projects across Australia. The Boral Asphalt business includes asphalt manufacturing sites, 'spray seal' depots, and an asphalt contracting service. Boral Asphalt holds Management System certifications across its operations for: Quality Management System to ISO 9001:2015, Environmental Management System to ISO 14001:2015 and OH&S Management System to AS/NZS 4801:2001

Colas

www.colas.com.au

Colas combines the expertise of its local binder, spray seal and asphalt operations with its global engineering network to offer a wide range of pavement solutions. Including pavement preservation treatments to provide innovative, sustainable and cost effective solutions for airports.

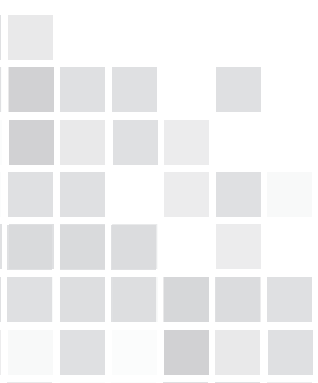
Products and services:

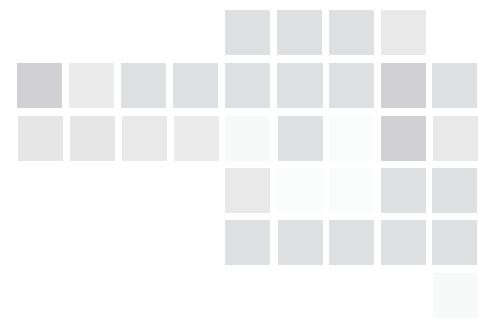
- Asphalt Production & Laying
- Spray Sealing
- Microsurfacing
- Pavement Rejuvenation
- SealCoating
- Fuel Resistant Membranes
- Crack Sealing
- Line Marking

GRP

www.grp-airsys.com

GRP offers a state of the art Individual Lamp Control and Monitoring System (ILCMS) for Airfield Ground Lighting, using Power Line Carrier Technology, able to work with shielded and unshielded cable and with no minimum value of insulation of the primary cable. Headquartered in Madrid (Spain) and with offices in Paris (France), GRP has installations of ILCMS operational in the UK, France, Hong Kong among others. Besides GRP offers Three Phase and Two Phase IGBT sine wave Constant Current Regulators.





FORUM AND WORKSHOP 2019 EXHIBITORS



Huesker **www.HUESKER.com.au**

The HUESKER Group is one of the world's leading manufacturers of geosynthetics with the corporate head office located in Germany, and subsidiary's around the world, including a local Australian subsidiary.

HUESKER provides innovative and specialised solutions for Roads and Pavements, Earthworks and Foundations, Mining, Hydraulic Engineering, Environmental Engineering as well as Industrial and Agricultural applications.

With decades of global experience in rehabilitation and construction of airport pavements, HUESKER offers high-quality reinforcing geosynthetics, including the renowned HaTelit® technology for effective asphalt reinforcement which has proven its engineering performance at Australian airports.

JJ Ryan Consulting **www.jjryan.com.au**

JJ Ryan Consulting specialises in infrastructure planning, design, construction management and whole of life asset management and we provide advice for airlines, airport operators, investors, developers and regulators.

We have a detailed understanding of airside and landside aviation requirements and provide integrated services to balance competing on airport issues.

Products and services:

- Strategic & commercial advisory
- Project planning
- Engineering design
- Contract administration
- Asset management
- Program & project management
- Master planning
- Landside infrastructure
- Safety and risk management
- Aerodrome Safety Inspections

ORION SOLAR LIGHTING **orionsolar.com.au**

Orion Solar has been supplying solar powered LED lighting solutions for aviation, defence, marine, roadway, parks and transport industries throughout Australia since 2004. The company supplies, manufactures and distributes award winning hard wired and solar powered LED lighting solutions throughout Australia and the Oceanic region. From small LED obstruction markers, aviation lights up to area, car park and street lighting, Orion can assist with reducing your power consumption while increasing safety.

Best Lights under the Sun!

Pavement Management Services **www.pavement.com.au**

Pavement Management Services (PMS) is a specialist pavement engineering consultancy that owns and operates a range of state-of-the-art, non-destructive testing and survey equipment for pavement investigations, assessments, monitoring and design.

Products and Services:

- PCN/ACN Assessments
- Load Transfer Efficiency (LTE)
- Slab corner voids testing
- Pavement Designs
- Falling/Heavy Weight Deflectometer Testing
- Ground Penetrating Radar (GPR)
- Skid Resistance (Friction) Testing
- Moisture Investigations
- Pavement Failure Investigations
- Routine pavement monitoring
- Pavement Condition Index (PCI)
- Boeing Bump Index (BBI)

FORUM AND WORKSHOP 2019 EXHIBITORS



Roadline Removal www.roadlineremoval.com.au

Roadline Removal Group are your aerodrome pavement maintenance specialists, with the largest fleet of UHP waterblast trucks and shot blast equipment Australia wide. Safely remove rubber build-up and flush bitumen seals, to reinstate surface texture and friction values to your runways and aprons.

Products and services:

- Rubber Removal
- Linemarking Removal
- Pavement Retexture
- ICAO Compliant Friction Testing and certification.
- Spills cleanup
- Jet Seal and Linemarking



SuperSealing www.supersealing.com.au

Specialising in Crack Sealing, Civil Works, Line Marking and Traffic Management, and with over 120 employees throughout Australia and New Zealand, SuperSealing is a market leader in the Road Maintenance & Construction industry. Since 2003, SuperSealing has established long term relationship with Councils, Civil Contractors and leading Road Maintenance Organisations.

Our reputation has been built on our reliability, quality of work, value for money and high levels of service. SuperSealing aims to improve the effectiveness and efficiency of constructing and maintaining roads and services by utilising high quality products, systems, services and solutions that are based on client's needs; provide safe work environments; optimise traffic flows through worksites; are environmentally sensitive; and save lives.

SuperSealing places the highest priority on OH&S with our fully integrated management system providing the framework for our continuous improvement.



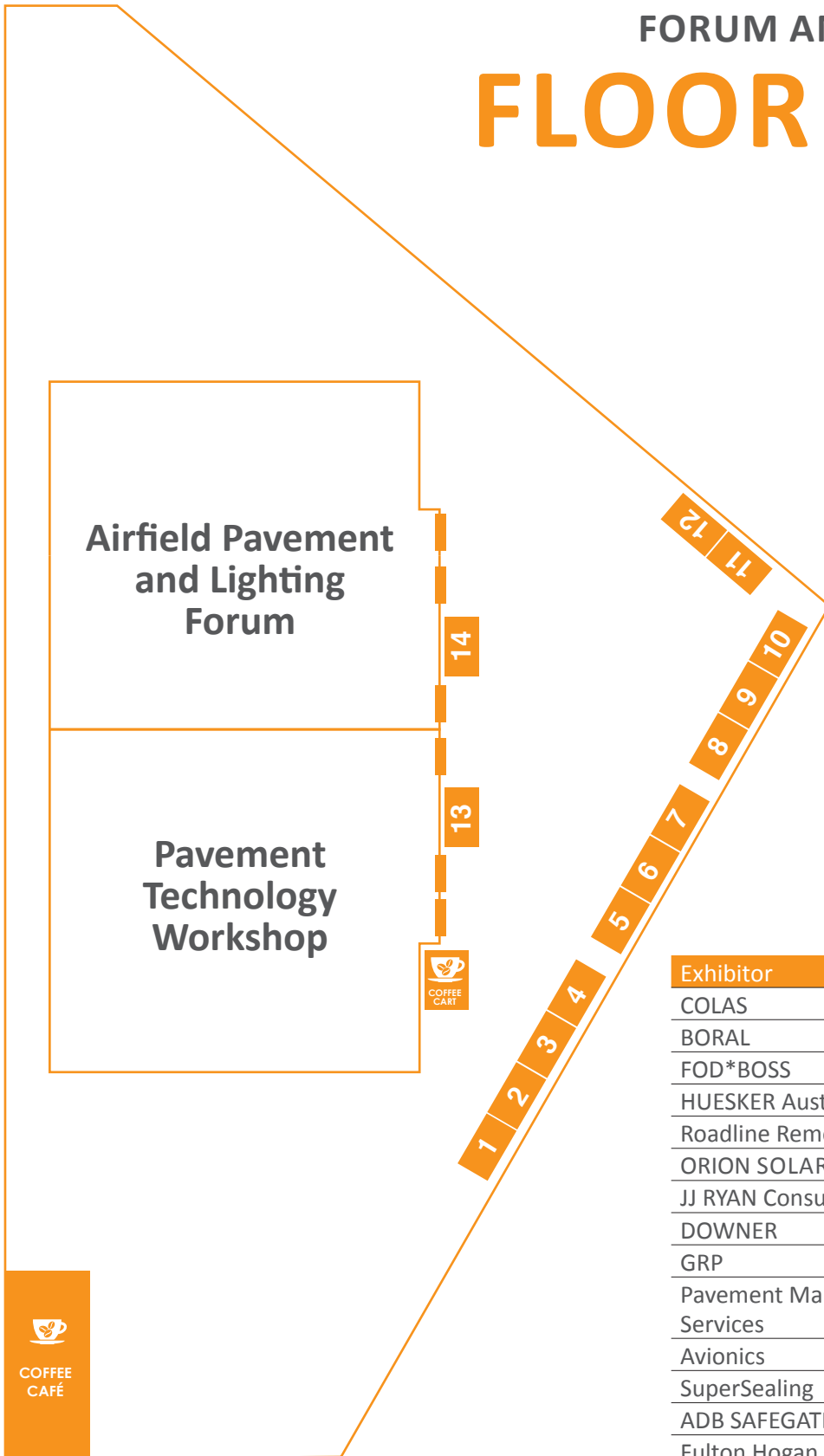
FOD*BOSS www.fodboss.com

The FOD*BOSS is a tow behind sweeping system by Aerosweep P/L designed exclusively for collecting FOD from aircraft movement surfaces. This extraordinary sweeper collects debris such as nuts and bolts, pavement fragments, loose baggage hardware, washers, rivets, stones, sand, and gravel, inexpensively and with amazing speed and efficiency.

Products and services:

- The FOD*BOSS Airfield Sweeping System (2.4m wide)
- The FOD*BOSS Duplex Airfield Sweeping System (4.8m wide)
- The FOD*BOSS Triplex Airfield Sweeping System (7m wide)

FORUM AND WORKSHOP FLOOR PLAN



EXHIBITORS

| Exhibitor | Booth |
|------------------------------|-------|
| COLAS | 1 |
| BORAL | 2 |
| FOD*BOSS | 3 |
| HUESKER Australia | 4 |
| Roadline Removal | 5 |
| ORION SOLAR | 6 |
| JJ RYAN Consulting | 7 |
| DOWNER | 8 |
| GRP | 9 |
| Pavement Management Services | 10 |
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2019 EXHIBITORS





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**For more information,
please contact the AAA Events team**

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