# SMART PAVEMENTS NOW

**18–20 SEPTEMBER** 

## **EVENT PROGRAM**

DAY 1: SMART MATERIALS & DESIGN DAY 2: ASSET MEASUREMENT DEVICES DAY 3: SUSTAINABILITY AND SAFETY

NATIONAL TRANSPORT RESEARCH CENTRE, 80A TURNER ST, PORT MELBOURNE, AUSTRALIA

#### **CONTACT**

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#### Wednesday 18<sup>th</sup> September

### Pavement Design and Smart Materials

9:00-10:30	Plenary Session Location - Flinders-Monash Auditorium				
9:00-9:15	Welcome - ARRB CEO Michael Caltabiano				
9:15-9:45	Matt Bereni (ARRB Future Transport Infrastructure Leader)				
9:45-10:30	Guided ARRB Research Lab Tours				
10:30 - 11:00	Morning Tea				
11:00 - 12:30	Presentation Sessions				
	Stream 1 - Recycled Materials Location - Flinders	<b>Stream 2 - Asphalt</b> Location - Monash			
11:00-11:30	Recycled Crushed Glass in Asphalt <b>Dr. James Grenfell</b>	In-Pavement Temperature Monitoring at Four Australian Locations for Full-Depth Asphalt <b>Dr. Elsabe van Aswegen</b>			
11:30-12:00	Investigation on the use of RAP from CRM Asphalt <b>Zia Rice</b>	The use of Mix-Specific Fatigue Relationships in the design of Asphalt Pavements <b>Joe Grobler</b>			
12:00-12:30	Implementing Increased use of RAP <b>Dr. Elsabe van Aswegen</b>	Evaluation and Characterisation of Nanosilica-Modified Asphalt Materials <b>Dr. James Grenfell</b>			
12:30-13:30	Lunch				
13:30-16:30	Masterclasses/Workshops				
	<b>Stream 1 - Crumb Rubber</b> Location - Innovation Labs 1 & 2	<b>Stream 2 - Workshop</b> Location - Monash	<b>Stream 3 - Workshop</b> Location - Flinders		
13:30 - 14:00	Passenger Tyre Crumb Rubber <b>Melissa Lyons</b>	Advanced modelling of pavement materials and structures	FTIR Characterisation of Bitumen <b>Michael Caltabiano &amp;</b> Shannon Malone		
14:00 - 15:00	Transfer of CRM Asphalt Technology to QLD & WA (NACoE and WARRIP Perspectives) Joe Grobler & Dr. Elsabe van Aswegen	Dr. Didier Bodin & Dr. Negin Zhalehjoo	Innovations in Binder Characterisation and Testing <b>Dr. Robert Urquhart &amp;</b> <b>Dr. Young Choi</b>		
15:00-15:15	Afternoon Tea				
	Stream 1 - Masterclass Location - Innovation Labs 1 & 2	<b>Stream 2 - Masterclass</b> Location - Monash	<b>Stream 3 - Masterclass</b> Location - Flinders		
15:15-16:30	Austroads Guide to Pavement Technology Part 4F: Bituminous Binders & Part 4K: Selection and Design of Sprayed Seals <b>Dr. Young Choi &amp; Steve Patrick</b>	New Developments in the Thickness Design of Strengthening Treatments for Flexible Pavements <b>Geoff Jameson</b>	Transfer of Intelligent Compaction to Australia <b>Dr. Jeffrey Lee</b> (Participants to pre-download the VETA intelligent compaction software, available online; and bring laptop)		



## Thursday 19<sup>th</sup> September

#### Asset Measurement Devices

9:00-10:30	Plenary Session Location - Flinders-Monash Auditorium				
9:00-9:05	Welcome to Day 2				
9:05-9:30	Dr Michael Moffatt (ARRB National Asset Management Leader)				
9:30-10:00	Joe Grobler - NACoE Spotlight				
10:00-10:30	Natalie Lockwood - WARRIP Spotlight				
10:30 - 11:00	Morning Tea				
11:00-12:30	Presentation Sessions				
	Stream 1 - Accelerated Testing Location - Monash	<b>Stream 2 - Masterclass</b> Location - Flinders			
11:00-11:30	Increasing the use of low-cost light- ly-cemented granular materials in new and rehabilitated pavements <b>Dr. James Grenfell</b>				
11:30-12:00	Advanced Characterisation of Unbound Granular Materials (XL-Wheel Tracking) for Marginal or Recycled Materials <b>Dr. Didier Bodin</b>	Skid Resistance Management <u>Part 1: Theory</u> <b>Paul Hillier</b>			
12:00-12:30	Improving the Cost- Effectiveness of Foamed Bitumen Stabilised Pavements <b>Dr. James Grenfell /</b> <b>Dr. Didier Bodin</b>				
12:30-13:30	Lunch				
13:30-16:30	Masterclasses/Workshops				
	Stream 1 - Site Visit	Stream 2 - Masterclass Location - Flinders	<b>Stream 3 - Survey Technology</b> Location - Monash		
13:30-14:00	Field trip to Accelerated Loading Facility (Dandenong) <b>Dr. James Grenfell</b>	Skid Resistance Management <u>Part 2: Measurement</u> <b>Paul Hillier</b>	iPAVe and iSSAVe Presentations Dr Michael Moffatt, Brittany Crof		
14:00-14:30			Ground Instrumentation for iPAVe and FWD <b>Dr. Jeffrey Lee</b>		
14:30-15:00			Guided Expo of ARRB's Data Collection and Surveying Equipment <b>Paul Van Damme</b>		
15:00-15:15	Afternoon Tea				
	Stream 1 -Site Visit	Stream 2 - Whole-Day Masterclass Location - Flinders	<b>Stream 3 - Workshop</b> Location - Monash		
15:15-16:30	CONTINUED Field trip to Accelerated Loading Facility (Dandenong) <b>Dr. James Grenfell</b>	Skid Resistance Management <u>Part 3: Practice</u> (incl. High Friction Surface Guide to Good Practice) <b>Paul Hillier &amp; Steve Patrick</b>	Asset Transformation for CAVs Dr. Charles Karl, Dr. Ian Espada, Dickson Leow, Anthony Germanchev & Samantha Taylor		

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#### Friday 20<sup>th</sup> September

#### Sustainability & Safety

9:00-10:30	<mark>Plenary Session</mark> Location - Flinders-Monash Auditorium				
9:00-9:05	Welcome to Day 3				
9:05-9:30	Samantha Taylor (ARRB Sustainability and Resilience Leader)				
9:30-10:00	Jerome Carslake - National Road Safety Partnership Program				
10:00-10:30	Paul Hillier - Famous Road Crashes in History				
10:30 - 11:00	Morning Tea				
11:00-12:30	Presentation Sessions				
	<b>Stream 1 - Road Conditions &amp; Safety</b> Location - Monash	Stream 2 - Heavy Vehicle Impacts/Considerations Location - Innovation Labs 1 & 2	<b>Stream 3 - Sustainable Design</b> Location - Flinders		
11:00-11:30	How Road Surface Condition Affects Crash Risk <b>Dr. Peter Cairney</b>	Heavy Vehicle Ride Quality - Fleet Ride Index <b>Ulysses Ai</b>	Argument for Sustainable Design - Economical and Environmental <b>Samantha Taylor</b>		
11:30-12:00	Motorcyclist Safety and Surface Condition <b>Dr. Blair Turner</b>	Long Term Pavement Performance <b>Dr. Tim Martin</b>	Life-cycle cost implications of extreme rain and flood events and management strategies <b>Tyrone Toole</b>		
12:00-12:30	Using Data To Manage Road Safety <b>Lisa Steinmetz</b>	Heavy Vehicle Road Reform <b>Ulysses Ai</b>	Greenhouse Gas Modelling <b>Margaret Brownjohn</b>		
12:30-13:30	Lunch				
13:30-16:30	Masterclasses/Workshops				
	Stream 1 - Crash Investigations & Surfacings Location - Monash	<b>Stream 2 - Workshop</b> Location - Flinders			
13:30-14:00	Crash Investigations - A How-To Guide <b>Tia Gaffney</b>				
14:00-14:30		Greenhouse Calculator - Brook Hall &			
14:30-15:00	Effects of Adverse Weather and Road Surface Related Lessons from Crash Investigations <b>Paul Hillier</b>	Margaret BrownJohn			
15:00-15:15	Afternoon Tea				
	Stream 1 - Crash Investigations & Surfacings Location - Monash	<b>Stream 2 - Masterclass</b> Location - Flinders			
15:15-16:30	Incident Investigation Plenary and Q & A <b>Tia Gaffney &amp; Paul Hillier</b>	Austroads Guide to Asset Management 2018 <b>Dr. Tim Martin</b>			

#### **SMART PAVEMENTS NOW**

Miss something? Selected sessions of Smart Pavements Now will be recorded, so delegates can watch at their leisure after the event. It's included as part of your ticket price. Go to our special Smart Pavements Now video page at arrb.com.au Brought to you by Office arrb.com.au