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

P: +61 3 9881 1555 E: events@arrb.com.au



Wednesday 18th 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	Stream 2 - Asphalt Location - Monash			
11:00-11:30	Recycled Crushed Glass in Asphalt Dr. James Grenfell	In-Pavement Temperature Monitoring at Four Australian Locations for Full-Depth Asphalt Dr. Elsabe van Aswegen			
11:30-12:00	Investigation on the use of RAP from CRM Asphalt Zia Rice	The use of Mix-Specific Fatigue Relationships in the design of Asphalt Pavements Joe Grobler			
12:00-12:30	Implementing Increased use of RAP Dr. Elsabe van Aswegen	Evaluation and Characterisation of Nanosilica-Modified Asphalt Materials Dr. James Grenfell			
12:30-13:30	Lunch				
13:30-16:30	Masterclasses/Workshops				
	Stream 1 - Crumb Rubber Location - Innovation Labs 1 & 2	Stream 2 - Workshop Location - Monash	Stream 3 - Workshop Location - Flinders		
13:30 - 14:00	Passenger Tyre Crumb Rubber Melissa Lyons	Advanced modelling of pavement materials and structures	FTIR Characterisation of Bitumen Michael Caltabiano & 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 Dr. Robert Urquhart & Dr. Young Choi		
15:00-15:15	Afternoon Tea				
	Stream 1 - Masterclass Location - Innovation Labs 1 & 2	Stream 2 - Masterclass Location - Monash	Stream 3 - Masterclass Location - Flinders		
15:15-16:30	Austroads Guide to Pavement Technology Part 4F: Bituminous Binders & Part 4K: Selection and Design of Sprayed Seals Dr. Young Choi & Steve Patrick	New Developments in the Thickness Design of Strengthening Treatments for Flexible Pavements Geoff Jameson	Transfer of Intelligent Compaction to Australia Dr. Jeffrey Lee (Participants to pre-download the VETA intelligent compaction software, available online; and bring laptop)		



Thursday 19th 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	Stream 2 - Masterclass Location - Flinders			
11:00-11:30	Increasing the use of low-cost light- ly-cemented granular materials in new and rehabilitated pavements Dr. James Grenfell				
11:30-12:00	Advanced Characterisation of Unbound Granular Materials (XL-Wheel Tracking) for Marginal or Recycled Materials Dr. Didier Bodin	Skid Resistance Management <u>Part 1: Theory</u> Paul Hillier			
12:00-12:30	Improving the Cost- Effectiveness of Foamed Bitumen Stabilised Pavements Dr. James Grenfell / Dr. Didier Bodin				
12:30-13:30	Lunch				
13:30-16:30	Masterclasses/Workshops				
	Stream 1 - Site Visit	Stream 2 - Masterclass Location - Flinders	Stream 3 - Survey Technology Location - Monash		
13:30-14:00	Field trip to Accelerated Loading Facility (Dandenong) Dr. James Grenfell	Skid Resistance Management <u>Part 2: Measurement</u> Paul Hillier	iPAVe and iSSAVe Presentations Dr Michael Moffatt, Brittany Crof		
14:00-14:30			Ground Instrumentation for iPAVe and FWD Dr. Jeffrey Lee		
14:30-15:00			Guided Expo of ARRB's Data Collection and Surveying Equipment Paul Van Damme		
15:00-15:15	Afternoon Tea				
	Stream 1 -Site Visit	Stream 2 - Whole-Day Masterclass Location - Flinders	Stream 3 - Workshop Location - Monash		
15:15-16:30	CONTINUED Field trip to Accelerated Loading Facility (Dandenong) Dr. James Grenfell	Skid Resistance Management <u>Part 3: Practice</u> (incl. High Friction Surface Guide to Good Practice) Paul Hillier & Steve Patrick	Asset Transformation for CAVs Dr. Charles Karl, Dr. Ian Espada, Dickson Leow, Anthony Germanchev & Samantha Taylor		

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Friday 20th 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				
	Stream 1 - Road Conditions & Safety Location - Monash	Stream 2 - Heavy Vehicle Impacts/Considerations Location - Innovation Labs 1 & 2	Stream 3 - Sustainable Design Location - Flinders		
11:00-11:30	How Road Surface Condition Affects Crash Risk Dr. Peter Cairney	Heavy Vehicle Ride Quality - Fleet Ride Index Ulysses Ai	Argument for Sustainable Design - Economical and Environmental Samantha Taylor		
11:30-12:00	Motorcyclist Safety and Surface Condition Dr. Blair Turner	Long Term Pavement Performance Dr. Tim Martin	Life-cycle cost implications of extreme rain and flood events and management strategies Tyrone Toole		
12:00-12:30	Using Data To Manage Road Safety Lisa Steinmetz	Heavy Vehicle Road Reform Ulysses Ai	Greenhouse Gas Modelling Margaret Brownjohn		
12:30-13:30	Lunch				
13:30-16:30	Masterclasses/Workshops				
	Stream 1 - Crash Investigations & Surfacings Location - Monash	Stream 2 - Workshop Location - Flinders			
13:30-14:00	Crash Investigations - A How-To Guide Tia Gaffney				
14:00-14:30		Greenhouse Calculator - Brook Hall &			
14:30-15:00	Effects of Adverse Weather and Road Surface Related Lessons from Crash Investigations Paul Hillier	Margaret BrownJohn			
15:00-15:15	Afternoon Tea				
	Stream 1 - Crash Investigations & Surfacings Location - Monash	Stream 2 - Masterclass Location - Flinders			
15:15-16:30	Incident Investigation Plenary and Q & A Tia Gaffney & Paul Hillier	Austroads Guide to Asset Management 2018 Dr. Tim Martin			

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