

DAY 1 – Health and Safety – Tuesday 3 August 2021

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10:00 am	Opening Plenary Session			
10:30 – 11:25	Matt MacMahon	Welcome and AfPA Chair Address		
	Anna D'Angelo	Symposium overview		
	Gaylon Baumgardner (IBEF)	International experience to improve health and safety in spray sealing operations		
11:25 - 11:35	Q&A			
11:35 - 11:45	<i>10 min - Break</i>			
11:45 - 12:45	Wayne Schwass	Mental Health and Wellbeing		
12:45 - 13:15	<i>30 min - Lunch Break</i>			
13:15 - 14:15	Brett Langley, Richard Delplace, Stephen O'Dwyer & James Pennings	Panel Discussion: Implementing road closure to improve road workers safety		
14:15 -14:30	<i>15 min Break</i>			
14:30 – 15:05	Parallel session			
	1. Worker Health		2. Industry Initiatives	
	Khoa Vo	Reducing hydrogen sulphide gas emissions from the manufacturing of polymer modified bitumen	Trevor Distin	Towards the elimination of cutters in spray sealing practices
	Alexander Buttgereit	Reduction of emissions with the help of WMA and equipment related tools – practical implementation and evaluation	John Esnouf & Norbert Michel	Towards Safer Sprayed Sealing Operations
Ben Franze	Automated Binder Content Testing: Is it Safer?	Mahua Chakravarty	Growth & opportunities for bitumen during COVID-19	
15:05 – 15:20	Q&A		Q&A	
15:20 – 15:35	<i>15 min - Break</i>			
Closing Plenary Session				
15:35 - 16:20	Justin Ganschow (CAT)	Cat Safety VR		
	Domenic Palumbo (NRWA)	Industry Be Bitumen Safe Card		
16:20 - 16:30	Q&A			
16:30 - 16:40	Day closing comments and reminders for the next day			

DAY 2 – Sustainability & Circular Economy – Wednesday 4 August 2021



10:00 am	Opening Plenary Session – Embedding Sustainability in the procurement of roads – Part 1	
10:30 – 11:35	Heather Dylla (USA FHWA)	FHWA Sustainable Pavements program update
	Joseph Shacat (USA NAPA)	Embedding sustainability in the procurement of roads - USA National Asphalt Pavement Association
	Ainsley Simpson (ISCA)	Advancing low carbon, resilient, inclusive infrastructure
11:35 - 11:55	Q&A	

11:55 - 12:15	Brook Hall (ARRB)	Sustainability Assessment for Innovative Pavement Materials, Designs and Processes
	Tony Aloisio (EcologiQ)	The Recycled First Policy: Maximising sustainability in Victorian infrastructure
12:15 – 12:25	Q&A	

12:25 -12:55	30 min Lunch Break	
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12:55 – 13:30	Parallel session					
	1. Change Drivers		2. Achievements To Date		3. Solutions On Offer	
	Filippo Giustozzi	Innovations in pavement engineering: high performance hybrid-modified bitumen for roads and airports	Rod McArthur	Caltrans Gap Graded Technology Transfer with onsite Blended Crumbed Rubber Binder	Iulian Man	Development of trackless bond coat for providing longer lasting asphalt pavements
	Erik Denneman	Hybrid binders of tyre derived rubber and SBS meeting conventional PMB specifications	Andrew Kidd	Towards the Use of Crumb Rubber Modified Asphalt for Local Government Roads	Alexandru Let	Encapsulated biochar used as bitumen replacement and/or additive
	Laurent Porot	Environmental benefits of Polymer modified Bitumen	Johannes van Heerden	Using a Bitumen Rubber Modified Asphalt Surface Inlay and Ultra-Thin Friction Course to Restore the Integrity of a Previously Rehabilitated Alkali-Silica Affected Plain Jointed Concrete Pavement (PJCP)	Trevor Distin	Preserving scarce resources by surfacing gravel roads with modified graded seals
13:30 – 13:45	Q&A		Q&A		Q&A	

13:45 – 14:15	Parallel session					
	1. Change Drivers		2. Achievements To Date		3. Solutions On Offer	
	Xavier GUYOT	Optimising the use of recycled plastic in asphalt for high performance	Nicholas Lee	East Boundary Road Crumb Rubber Asphalt Trial	Da Sun	Crumb rubber from end-of-life passenger car tyres and their performance as bitumen modifier
	Carlos Solis-Navarro & Sean Dorahy	Use of recycled crushed glass on the Easing Sydney's Congestion Program	Davina Smith & Alvaro Amorim	Foamed Asphalt Pavement Recycling Northbourne Avenue	David Simmons & Gary Foster	World first innovation that effectively addresses the full circle economy repurposing 100% of Australian vehicle tyres to produce and enhance Asphalt properties
	Roberto Espinosa & Greg White	Making the case for considering marginal materials for foamed bitumen stabilisation	Luke Murphy	Paving the way towards more sustainable asphalt	Zehra Kaya	Enhancing Sustainability and Durability in Pavement Construction /Maintenance Using a Sustainable Asphalt Reinforcement Geogrid: Practical Experience in Roads and Airfields
14:15 – 14:30	Q&A		Q&A		Q&A	
14:30 – 15:00	30 min Break					
15:00 – 16:15	Closing Plenary Session - Embedding sustainability in the procurement of roads – Part 2					
	Evert Schut (Rijkswaterstaat)		Going Dutch - Circular economy in Netherlands infrastructure			
	Mike Southern (Eurobitume)		Eurobitume - Sustainability developments			
	Marta Yugo (Concawe)		Concawe - Future European scenarios for Refinery 2050			
16:15 – 16:35	Q&A					
16:35 – 16:45	Day closing comments and reminders for the next day					

DAY 3 – Engineering and Construction – Thursday 5 August 2021

10:00 am	Opening Plenary Session – Maximising performance and durability – Part 1	
10:30 – 12:15	Leslie McCarthy – Federal Highway Administration (FHWA)	FHWA Density and Durability Initiatives
	Randy West – National Center for Asphalt Technology (NCAT)	Moving towards mixture performance test in USA
	George Chang – Transtec Group	Intelligent Construction
	Ross Guppy (Austroads) & Filippo Giustozzi (RMIT University)	Use of waste plastics in roads – a multi criteria performance and environmental assessment
12:15 – 12:30	Q&A	

12:30 – 13:00	30 min Lunch Break	
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12:55 – 13:35	Parallel session					
	1. Longer lasting roads		2. Waste into Practice		3. Constructing Better Rods	
	Fan Yin	NCAT Research on Balanced Mix Design for Asphalt Mixtures	Stephen Bernard	Development of a low viscosity S45R binder which can be sprayed without cutter	Robert Busuttil	Next Generation Sprayed Seals
	Erik Denneman	Introduction of GB5® to Australia	Joe Grobler & Jason Jones	Laboratory Performance of Crumb Rubber Modified Binders in Australia	Khulood Hwayyis	Predicting Seal Age from Binder Oxidation Using FT-IR Spectroscopy
	Rob Rouwette & Robert Vos	AfPA Sustainability Framework for Asphalt – Outcomes			Suthakaran Sivagnanasuntharam	Intelligent Compaction for Asphalt Pavements
13:35 – 13:50	Q&A		Q&A		Q&A	

13:45 – 14:20	Parallel session					
	1. Longer lasting roads		2. Waste into Practice		3. Constructing Better Rods	
	Greg Stephenson	The Performance of EME2 under Queensland Conditions	Muhammad Jamal	Performance-based specifications for crumb rubber modified bitumen	Eddie Bond	Reaction mechanisms of silane-based adhesion promoters in asphalt mixes and emulsions
	Greg Arnold & Rosalie Collins-Gargan	Fatigue Performance Assessment of Asphalt Mixes	Saeed Yousefdoost & Shannon Malone	Sustainable Crumb Rubber Modified Asphalt Surfacing	Ian van Wijk	Assessment of Asphalt Cracking using High-Speed Photography

				for Local Government Application		
	Joe Grobler & Peter Bryant	A new presumptive modulus and fatigue relationship for EME2 mixes in Queensland	Ilya Binti Joohari	Towards storage stable SBS-modified bitumen with waste plastics	Emile Horak	Permeability benchmark analysis of thin asphalt layers using grading and voids QA/QC data
14:20 – 14:35	Q&A		Q&A		Q&A	

14:35 – 15:05	<i>30 min Break</i>					
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15:05 – 16:15	Closing Plenary Session - Maximising performance and durability - Part 2					
	Carsten Karcher (EAPA)			Journey to achieve the European goal of climate neutrality by 2050		
	Geir Lange (Veidekke)			Contractor's view on the implementation of sustainable asphalt production		
	Claude Le Noan (Eiffage)			Digital transformation of Industry: Industry 4.0		
16:15 – 16:30	Q&A					

16:30 – 16:40	Day closing comments					
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