

Recent Achievements

<p>Position papers</p> <ul style="list-style-type: none"> Cutter reduction strategy Reducing asphalt manufacturing temperature Liquid antistripping agents as alternative to hydrated lime Position statement on bitumen supply in Australia 	<p>Specification Updates</p> <ul style="list-style-type: none"> Updated and published EME2 specification RAP Management Plan Best Practice
<p>Advisory note</p> <ul style="list-style-type: none"> AN24 guidelines for safe handling and use of adhesion agents for sprayed sealing AN25 Safe use of asphalt release agents AN26 Reduction of manufacturing temperature AN27 Reduction of cutters in sprayed seals 	<p>Proficiency Testing</p> <p>Draft report circulated</p> <hr/> <p>Work Tips</p> <p>Progressed review of Work tips</p> <p>Publication of new work tip on EME2</p>

National Technology and Leadership Committee (NTLC) Update

At a national level the AFPA Board has installed a National Leadership and Technology Committee (NTLC) to articulate industry direction for implementable research and development. The NTLC coordinates activities of national relevance executed by state technical committees and the various specialized NTLC subcommittees.

NTLC BINDERS SUB-COMMITTEE

Chair: Nigel Preston

Crumb Rubber bitumen properties
Data collection from Industry

Deliverable:	Anticipated completion date:	Status:
Specification limits	November 2021	Completed

Australian version of Eurobitume loading procedure
'Australianised' version of the Eurobitume switch loading

Deliverable:	Anticipated completion date:	Status:
Advisory Note	March 2021	handed over to SAFETY committee

Bulk bitumen imports vs iso-tainer imports
Concerns about iso-tainer imports not being audited for compliance

Deliverable:	Anticipated completion date:	Status:
AFPA Position to be raised at State Branches	September 2021	Completed and published

Trackless Tack coat
Determine specification limits

Deliverable:	Anticipated completion date:	Status:
Product specification	-	on hold

NTLC SURFACING SUB-COMMITTEE

Chair: Warren Carter

Cutter reduction strategy
Advisory note (AN27) to detail techniques to replace use of cutters

Deliverable:	Anticipated completion date:	Status:
Advisory note	November 2022	Completed

Cutter reduction strategy – data collection
Data collection. Members to provide cutter usage monthly and by state

Deliverable:	Anticipated completion date:	Status:
cutter usage from 1/ 1/2022		in progress

Microsurfacing specification for airports
Request to develop specification for micro surfacing for airport

Deliverable:	Anticipated completion date:	Status:
Model specification	Feb 2023	Working group Established

Aus Spec work section 1143 review
Annual review as agreed with Nat Spec

Deliverable:	Anticipated completion date:	Status:
Model specification	September 2022	completed

Pavement preservation subcommittee established

NTLC ASPHALT SUB-COMMITTEE

Chair: Kevin Embleton

Introduction of Automated Binder Extraction

Draft a test method

Deliverable:	Anticipated completion date:	Status:
Test method	November 2021	In progress

Comparative gyratory compaction test

Collect data to compare gyratory compaction test

Deliverable:	Anticipated completion date:	Status:
database comparative TBC results		Started in NSW – to be implemented in other states

Moisture sensitivity

Develop position paper LAA as alternative to lime

Deliverable:	Anticipated completion date:	Status:
change in specification completed		Further activities Tech Talk – completed

CR GGA-OGA CRB specification

Update the existing model specification

Deliverable:	Anticipated completion date:	Status:
Model specification	December 2022	In progress

CR DGA Model Specification

Develop model specification for DGA with CRB

Deliverable:	Anticipated completion date:	Status:
National specification	March 2022	Not started

NTLC ASPHALT SUB-COMMITTEE

Chair: Kevin Embleton

RAP Management plan update

Update the existing RAP Management plan

Deliverable:	Anticipated completion date:	Status:
Rap Management plan best practice	Completed	October 2022

EME2 model Spec

Update the existing EME2 model spec

Deliverable:	Anticipated completion date:	Status:
Model specification	December 2021	Completed/ Published

Temperature reduction at asphalt plant

Develop position paper to reduce mixing temperature

Deliverable:	Anticipated completion date:	Status:
Advisory note	completed	Completed

Performance based airport asphalt specification

Update the existing specification

Deliverable:	Anticipated completion date:	Status:
Model specification	November 2022	Further review

Aus Spec work section 1144 review

Update specification

Deliverable:	Anticipated completion date:	Status:
National specification	September 2022	Completed

NTLC PAVEMENT SUB-COMMITTEE

Chair: Bevan Sullivan

Geotextiles/geogrid in airport applications

Developing advisory note on the use of geogrid/geotextiles in airport

Deliverable:	Anticipated completion date:	Status:
Advisory note	Completed	Withdrawn

Intermodal and Port Pavements

Develop pavement design guidelines for intermodal and port pavements

Deliverable:	Anticipated completion date:	Status:
Design guide	Completed	Published

Austrroads APT6330* project Improved mechanistic empirical procedure for reflective cracking in design of asphalt overlays

Evaluate the crack resistance of the asphalt overlay materials using the Texas Overlay Tester (TxOT) configuration

Industry supplying samples

Austrroads APT6330*: The project will deliver one of two modules on improved methods for the mechanistic-empirical design of pavement rehabilitation treatments.

This project will develop Module 2: Improved Mechanistic-Empirical Procedure (MEP) for Reflective Cracking in Design of Asphalt Overlays. This module will outline an approach for the design of asphalt overlays to inhibit reflective cracking in the MEP framework of the Austrroads pavement design process (Guide to Pavement Technology Part 5). The methodology development will target the integration of the Texas Transportation Institute approach into the Austrroads MEP design system for the design of asphalt overlays on existing cracked pavements

QLD/NT KEY ACTIVITIES

Chair: Jonathan Hoffman (Colas) SED: Mark Piorkowsk

- Understand and identify the Technical and Operational barriers for greater implementation of WMA in Qld
- Potential Hydrated Lime supply constraints – Conditional Approval of Liquid Anti Strip agents within QTMR mix design based on robust testing protocol
- Use of PQI – Non-destructive testing for Compliance Testing (Test Method to be further developed)
- Changes to QTMR Prequalification system to allow greater uptake of EME on all projects
- Changes to QTMR Spray Seal prequalification system to allow greater surveillance on all projects
- Ongoing updates to Main Roads Technical Standards (MRTS) to improve greater harmonization of Test Methods



NSW/ACT ACTIVITIES

Chair: Paul Morassut (Fulton Hogan) SED: Lise Sperling

- Legislation proposed changes for RAP in NSW
- Superpave gyratory compactor – collecting data to create database of comparative results - in progress
- Proposal on Reduced frequency of testing - Plant based output process control – in progress
- Pothole emergency
- Review of TfNSW binder specification 3252

VICTAS ACTIVITIES

Chair: Shannon Malone SED: Norbert Michel

- Proposal to Permit the use of warm mix additives into polymer modified asphalts – in progress
- Proposal to reduce RAP Viscosity Testing
- Proposal for Consolidation of Registered Mixes
- Proposal to permit small percentages of RAP in PMBs
- Challenges for high PSV aggregate for SMA

WA/SA ACTIVITIES

Chair: Con Rimpas (Asphalttech) SED: Peter Damen

- Design Modulus of Perth Metro Mixes: still in progress
- Main Roads spec 516/517: Review of spec
- Liquid antistripping agent vs use of HL - Project to be set up

AfPA IKT 2023 USA

Sustainable, Smarter and Safer construction works
15 – 28 April 2023

Key interest areas

- Initiatives and implementable technologies to reduce carbon footprint in constructing and maintaining pavements
- Low carbon and reusable materials
- Pavement preservation best practices to achieve lower life cycle cost and inventories
- Binder and asphalt characterization & performance assessment
- Asset management decision making impact on sustainability
- How is sustainability valued in procurement practices?
- Latest research and implementation in pavement engineering & design
- Heavy duty pavements ports & airports
- USA road & road workers safety initiatives



Safely Paving the way to Carbon Zero
30th Oct -31 Oct-1st Nov 2023

NTLC Members	
Con Rimpas	
Erik Denneman	
Bevan Sullivan	(Chair AfPA Pavement committee)
Ryan Jansz	
Kevin Embleton	(Chair AfPA Asphalt committee)
Nigel Preston (chair AfPA Binders committee)	
Thierry Madelon	(Chair of the National Technology and Leadership Committee)
Tony Wehl	
Trevor Distin	
Warren Carter	(Chair of the AfPA Surfacing committee)
Steve Pittonet	(Chair of the FPA Preservation committee)