



DETAILS & ITINERARY

AfPA Profile

The Australian Flexible Pavement Association (AfPA) is the peak body for the multi-billion-dollar flexible pavement industry in Australia. We actively work to promote policies and reforms that put the interests and safety of our members and the wider Australian public first.

For over 50 years, AfPA has represented the flexible pavement industry to lead safety, sustainability, innovation, knowledge, and collaboration outcomes unified voice on the advancement of flexible pavement technology for the benefit of all road users. Our membership brings together a unique and diverse collective of industry, all state road authorities, and a number of Councils from across Australia. AfPA represent our members and act as a source of technical and reference information for both industry and governments nationally.

AFPA IKT 2023 USA

Sustainable, Smarter and Safer construction works

15 – 28 April 2023

The 2023 Australian International Knowledge Transfer program will be held over two weeks in the USA from 15 to 28 April 2023. confirm and register by Thursday 23rd February by clicking on [IKTUSA-2023 participant registration](#).

Industry and governing bodies are focusing their efforts on sustainability; in the context of pavements a “sustainable pavement” can be defined as a pavement that preserves the surrounding ecosystem through the reduction of energy consumption, natural resources and associated emissions while achieving the engineering goals for which it was built. Given the key role of the road network in the economy and society, the focus and improvements in delivering sustainable pavements will have environmental, social and economic benefits.

AfPA through its members, commits to reducing its carbon footprint, embedding circular economy practices and driving sustainable operations to ensure that our industry achieves its stated 2030 and 2050 targets.

In this context, the Australian Flexible Pavement Association is planning the next International Knowledge Transfer (IKT) to USA from 15 to 28 April 2023 to meet with international leaders at Federal and State DoT's, University and Research Organisations, Contractors and Industry Associations to discuss their progress towards sustainability and key topics to achieve sustainable best practises in pavements. There will be opportunities to visit contractors' facilities and construction sites to see in action the latest techniques in asphalt manufacturing, placement and compaction and learn from leading contractors. The tour will also include visit to equipment's manufacturers facilities.

KEY TOPICS

Sustainable, Smarter and Safer construction works

15 – 28 April 2023

1. Sustainable best practise for the selection, design and construction of pavements (roads & airports)

- Emerging technologies and initiatives to reduce the negative impact associated with traditional construction practices and the shift to clean energy and carbon neutrality
- “The Road Forward” a National Asphalt Pavement Association (NAPA) initiative to achieve net-zero carbon asphalt pavements by 2050: how all the stakeholders are working together to achieve this goal
- Inclusion of sustainability considerations in pavement engineering and design (surface and structural performance, longer lasting design, use of more durable materials)
- Reduction of GHG emissions in sprayed sealing applications
- Improvement of construction quality: use of innovative technologies to extend pavement durability and production efficiency while improving safety
- Contractors’ view and feedback on current initiatives and innovation

2. Low carbon and reusable materials

- Crumb rubber use and current practice in USA
- Research on plastics – the USA approach and current findings
- Reclaimed Asphalt Pavement and use of rejuvenators
- Use of liquid adhesion agents as an alternative to Hydrated lime
- USA policies & approach /specification for the use of waste and secondary materials in asphalt



3. Pavement preservation best practice to achieve lower life cycle cost

- Comparison & cost effectiveness of alternative preservation treatments - the life-cycle implications of maintenance and preservation treatments
- Surface treatments - selection criteria and application
- Incorporating sustainability metrics into asset management systems
- Recycling and reclamation
- Pavement rehabilitation

4. Binder and asphalt characterization & performance assessment

- Evolution of bitumen and asphalt testing
- How to assess the properties of bitumen containing waste stream material
- Use of alternative binders
- Balanced mix design

5. Sustainability in procurement practices

- Sustainability at the tender box - green public procurement in the USA
- EPDs, LCA and other considerations in USA State DOT decision making for enhancing sustainable pavement practices and quantifying the emissions and impacts of those practices.



ITINERARY

15 April – 21 April 2023

Saturday 15	Sunday 16	Monday 17	Tuesday 18	Wednesday 19	Thursday 20	Friday 21
Australia to USA	Sacramento	Sacramento Caltrans UCPRC	Sacramento CalAPA Contractors ----- Sacramento Arizona DOT Paving contractors	Sacramento Paving contractors/ crumb rubber manufacturers/ site visits	Alabama NCAT Asphalt Institute Contractors Industry association	Alabama NCAT test track

22 April – 28 April 2023

Saturday 22	Sunday 23	Monday 24	Tuesday 25	Wednesday 26	Thursday 27	Friday 28
Washington DC	Washington DC	Washington DC FHWA (Turner Fairbank) NAPA VAA	New Jersey National Airport Pavement and Materials Research center (FAA)	Minnesota MnDOT Minnesota Asphalt Paving Association	Minnesota MnDOT Association of General Contractors of Minnesota CATERPILLAR	Travel to Australia

HOSTS - PRIMARY CONTACTS

- California Department of Transportation (Caltrans)
- California Asphalt Pavement Association (CalAPA)
- University of California Pavement Research Center (UCPRC)
- Arizona Department of Transport (ADOT)
- National Center Asphalt Technology (NCAT)
- Asphalt Institute
- National Asphalt Pavement Association (NAPA)
- Federal Highway Administration (FHWA)
- Federal Aviation Administration (FAA) - National Airport Pavement and Materials Research (NAPMRC)
- Minnesota Department of Transport (MnDOT)

Contractors and industry associations will join the meetings organised in collaboration with the hosts and construction site visits will be arranged with their support.





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