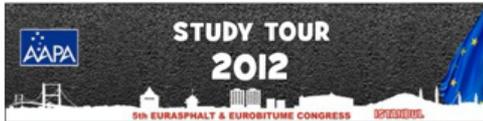
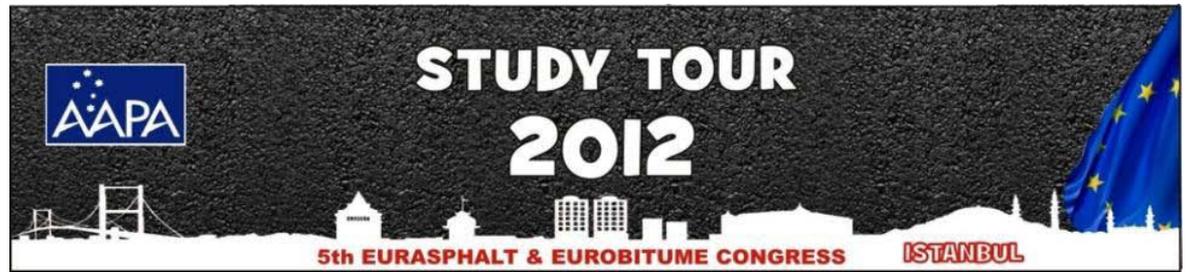


readme.pdf



Australian Asphalt Pavement Association

Study Tour 2012

Europe & 5th E&E Congress

France, Belgium, Netherlands, UK, Germany, Turkey

2nd to 21st June 2012

GROUP REPORT

V2-0

Click here for the report



Download the latest version of the report and the latest version of the presentations from the web <http://www.aapaq.org/q/2012st/2012str>

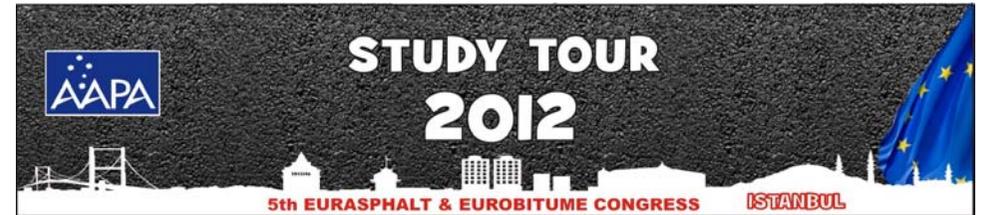
The report on the USB is version 3.
If the web version is newer, download and save it to your AAPA ST2012 USB drive.

The latest versions of the presentations will also be updated on the web – if yours is older then download the newer version and save it to your AAPA ST2012 USB drive in the “FB” folder.



Click here for the congress





The June 2012 AAPA Study Tour to Europe considered long life pavements, high performance asphalt and binders, sustainability, health & safety and procurement systems. As part of AAPA's normal feedback process, the Tour delegates conduct Feedback Seminars on their findings in the major centres of Australia.

The Tour Group Report and presentations at the seminars are distributed electronically with updates available for download from www.aapa.asn.au

AAPA Study Tour 2012 – GROUP REPORT AND REFERENCES

Europe & 5th E&E - France, Belgium, Netherlands, UK, Germany, Turkey

The USB contains the 170 page report, presentations by the European tour hosts, reference specifications, guides and links to the 5th E&E conference papers. The electronic report and the references are hyperlinked for easy access.

UPDATES

www.aapaq.org/q/2012st/2012str

GROUP REPORT CONTENTS

- 1. EXECUTIVE SUMMARY**
- 2. INTRODUCTION**
- 3. RECOMMENDATIONS**
 - 3.1. Long life pavements
 - 3.2. High performance asphalt & binders
 - 3.3. Sustainability
 - 3.4. Health & Safety
 - 3.5. Procurement Systems
- 4. LONG LIFE PAVEMENTS**
- 5. HIGH PERFORMANCE ASPHALT & BINDERS**
- 6. SUSTAINABILITY**
- 7. HEALTH & SAFETY**
- 8. PROCUREMENT SYSTEMS**
- 9. 5th EUROBITUMEN & EURASPHALT CONGRESS**
- 10. APPENDICES**
 - 10.1. Detailed Itinerary
 - 10.2. Study Tour Delegates
 - 10.3. AAPA 2012 Study Tour Questions List
 - 10.4. References
 - 10.5. Feedback session presentations



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AAPA 2012 Study Tour of Europe & 5th Eurobitume & Eurasphalt

Over the last 40 years the Australian Asphalt Pavement Association has undertaken a number of study tours across the world to learn and report back on new ideas, directions of research and technology changes which may have implications or advantages for Australia. These study tours included participants from a broad cross-section of the road industry including staff of State Road & Local Government Authorities, contractors, consulting engineers, bitumen suppliers, researchers, academia and AAPA. The most recent tour had been held a year earlier, visiting the USA and returning to present the findings across Australia.



AAPA 2012 Study Tour to Europe and the 5th Eurobitume & Eurasphalt Congress

The 2012 study tour was planned to coincide with the 5th Eurobitume & Eurasphalt Congress (5th E&E) which was held in Istanbul, Turkey. Apart from attending 5th E&E and providing feedback, five key topics were selected to address:

- Long life pavements
- Sustainability
- Procurement systems
- High performance asphalt & binders
- Health & Safety

To gain detailed feedback on the country, hosts were contacted across Europe to set up meetings in the two weeks before the congress and in the few days after. Organisations and international colleagues acted as hosts in France, Brussels, The Netherlands, United Kingdom and Germany.

As on previous study tours, a comprehensive set of questions were drawn for each topic, based on feedback from colleagues and tour members, and then sent off to the host to gain a head start on providing the answers to the over 150 questions!

This AAPA 2012 Study Tour Group Report answers the questions raised in detail, includes observations on the topics and makes recommendations for actions to benefit Australia. The recommendations are highlighted as follows:

Long life pavements

Consider the use of the endurance strain in Australian pavement design; don't rely upon performance data other than from the UK's TRL and TUDelft in The Netherlands; get local pavement performance from rehabilitation projects.

High performance asphalt & binders

Investigate the use of EME in Australia as a premium asphalt base with known performance properties; review ways of improving asphalt performance through better packing of the aggregate matrix.

Sustainability

Treat sustainability as an opportunity; use whatever RAP is available; don't put rubbish into asphalt; seek improved durability from flexible pavements.

Health & Safety

Review risk management guides on the use of bitumen; communicate the hazard and exposure methodology; promote the reduction in temperature of bituminous products; promote the use of lane shifting and contra-flow to improve quality; increase safety and reduce costs.

Procurement systems

Promote the formation of an Australia-wide system to support innovation; support the transfer to function or performance related specifications; compare Australian greenhouse gas calculator tools to those in Europe.

Summary

After the recent tours to the United States and South Africa, the visit to Europe added a completely different perspective on pavement design, innovation and performance evaluation of flexible pavements. Europe has a deep history of performance measurement and its integration into management and provision of pavements. But with reduced research, that does act as a barrier to rapid implementation of new products and systems. In a few countries, that is balanced with systems such as Avis Technique and HAPAS which promote innovation. Something missing is the premium asphalt base, HiMA/EME2 which should already have been a standard or generic product in Australia.

Common to the countries on the three tours was sustainability and the advantages of using RAP and lowering temperatures when using bitumen and asphalt. Without doubt, the absence of performance data linking mix design to field performance and back to pavement design systems is one of the biggest common needs.

The recommendations provide a path for the roads industry to move forward gaining benefit from the knowledge and understanding developed during the study tour.