

AAPA 2012 Study Tour of Europe – Feedback Session

Introduction to tour objectives



STUDY TOUR 2012
5th EURASPHALT & EUROBITUME CONGRESS ISTANBUL

Introduction to tour objectives

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STUDY TOUR 2012

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

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Itinerary

- 2nd to 21st June 2012
- Tour group 9 Australian roads people
- Six countries & 5th E&E
France / Belgium / Netherlands / UK / Turkey / Germany
- Five key topics
 1. Long life pavements
 2. High performance asphalt & binders
 3. Sustainability
 4. Health & Safety
 5. Procurement Systems

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Travel route

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Australian Asphalt Pavement Association
2012 Study Tour to Europe and 5th Eurasphalt & Eurobitume
2 to 21 June 2012
www.aaa.asn.au

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Greg Stephenson (continued)
Background: 32 years experience working for local government authorities, Federal government and consulting engineers mostly in the road and airport construction and maintenance areas. Before joining BCC, I spent 5 years at Queensland University of Technology in a range of pavement and asphalt research related activities.
Qualifications: B.Eng. Civil, M.Sc., PhD in Civil Engineering

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Australia & its roads

BIG, FLAT, DRY/FLOODS, MINERAL RICH, FOOD BASKET, LUCKY COUNTRY


“Icon” & loads



Seals vs. heavy pavements



Poor materials



Australia in proportion to Europe

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Statistics

| | Europe/EEC | Australia | ratio |
|--------------------------------|-----------------------------|------------------|-------|
| Land area (km ²) | 4 324 782 | 7 741 220 | X 0.6 |
| Population (June 2010 est) | 502 486 499 | 21 766 711 | X 23 |
| Unemployment | 10% | 5.0% | X 2 |
| GDP US\$ purchasing power (b) | \$15 821 | \$911 | X 17 |
| GDP / person | \$35 116 | \$40 800 | X 0.9 |
| GDP growth rate (2011) | +0.7%? | +1.8% | X 0.4 |
| Roads total length (km) | | 818 356 | X |
| Roads paved (km) | | 341 448 | X |
| Asphalt (million tonnes/annum) | 309.2 (Europe) 0.6 t/pop | 7.5 0.4 t/pop | X 42 |
| Bitumen (tonnes/annum) | 14 492 000 | 750 000 | X 19 |

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2012 Study Tour Key Topics & Questions

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Key topics 2010, 2011, 2012



1. Perpetual Pavements / Long life pavements
2. Warm Mix Asphalt
3. Recycled Asphalt Pavements
4. Accelerated Pavement Testing



1. Surface Treatments
2. Binders
3. Improving Pavement Performance
4. Sustainability



1. Long life pavements
2. High performance asphalt & binders
3. Sustainability
4. Health & Safety
5. Procurement Systems

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2012 Study Tour Key Topics

1. Long life pavements
 - o Experience, design systems, use, durability & performance
2. High performance asphalt & binders
 - o High modulus asphalt (EME, HIMA), modifiers
3. Sustainability
 - o RAP/WMA, bitumen substitutes, carbon calculators & energy analysis
 - o climate change impacts, societal concerns
4. Health & Safety
 - o Construction of road works, health considerations for bitumen and asphalt products
5. Procurement Systems
 - o Proprietary products (Avis Technique, HAPAS, etc.), “green” procurement, REACH, responsible sourcing, PPP and contract models

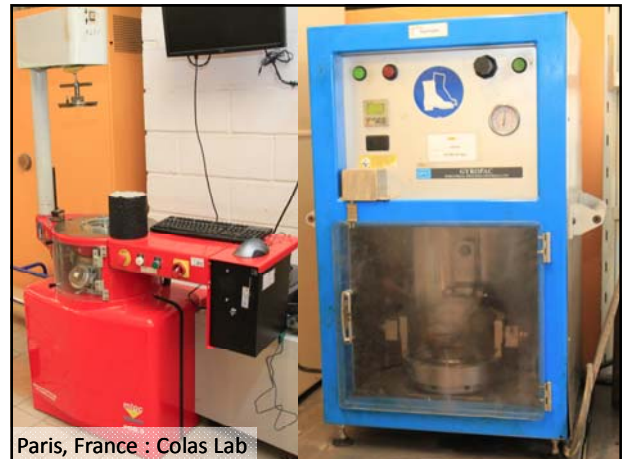
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Paris, France : USIRF, IBEF, Colas



Paris, France : Colas Lab



Paris, France : Colas Lab



Brussels, Belgium: Eurobitume & Euraspfalt



Netherlands



Netherlands, Amsterdam: Andre Molenaar & Kraton

Netherlands, Delft: DVS & VBW-Asphalt

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FOR EUROPEAN & EUROPEAN CONGRESS

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