



2011
STUDY TOUR



FEEDBACK SEMINARS

Sydney & Perth

27 & 29 February 2012



2011
STUDY TOUR



*Introduction to the
Study Tour
objectives*

Itinerary

- 3rd to 19th September 2011
- Tour group 9 Australian roads people
- Five legs
 - Cape Town / Pretoria / Durban / CAPSA'11 / KNP
- Four key issues
 - Surface Treatments
 - Binders
 - Improving pavement performance
 - Sustainability

AAPA 2011 Study Tour of South Africa and CAPSA'11



Key Issues

A. Surface Treatments

- Sprayed seals | Slurry seals | Surface rejuvenation

B. Binders

- use of bitumen rubber in sprayed seals and asphalt wearing courses, availability and specification requirements including quality control measure to ensure compliance.

C. Improving pavement performance

- modelling, accelerated testing, design methods & models, foam bitumen stabilisation and bitumen treated base experience and transfer of high modulus asphalt technology to RSA

D. Sustainability

- recycling, warm mix asphalt, efforts to reduce carbon footprint, carbon calculators and impacts for road asset management

Process

- Visited research centres, state road authorities, municipal government, CAPSA conference, contractors, site & road inspections
- Presentations at Society for Asphalt Technology
- Provided detailed questions ahead of visit – answers provided and will be in report
- Contacts established and directions provided to participants on specific topics



Travel route



**+11 hours flying
to Sydney**



Comparisons

*In Africa, man is still part
of the food chain*





Statistics



	South Africa		Australia	ratio
Land area (km ²)	1 219 090		7 741 220	X 0.15
Population (June 2010 est)	49 004 031		21 766 711	X 2.2
Unemployment	24.9%		5.2%	-----
GDP US\$ purchasing power (b)	\$524		\$882	X 0.6
GDP / person	\$10 700		\$41 100	X 0.25
GDP growth rate (2009)	+2.8%		+2.7%	-----
Roads total length (km)	606 978		812 972	X 0.75
Roads paved (km)	153 719		341 448	X 0.45
Asphalt (million tonnes/annum)	4.5		9.5	X 0.47
Bitumen (tonnes/annum)	420,000		750,000	X 0.56





Comparisons

Land area sq.km

SA: 1 219 912
 A: 7 686 850

Population

SA: est 49m
 A: est 21m

Roads km total

SA: 362 099
 A: 813 000

Surfaced km

SA: 73 506
 A: 341 488

Road Authorities

SA: 9 provinces + national
 A: 6 states, 2 territories
 + federal

Road Budget Total (est)

SA: US\$ 275 million
 A: US\$ 3500 million

data ex CIA, AustRoads & Sabita

COMPARISONS SUMMARY



- Both: Southern Hemisphere
Different to Europe & North America
- Similar: traffic, climate, technology
same suppliers, most road spray sealed
- Different: funding, socio-political dynamic
“commercialised” agencies (SANRAL)
opportunities to innovate different
SAT, SANRAL University Chair, RPF
tyre pressure, user demands
- Potentials: higher education, partnerships
sharing technology & experience
- Sport: similar: rugby, cricket, professionalism

Session Details	Start Time
Registration	10:00a
Introduction to tour objectives	10:30a
Binders	11:00a
Surface Treatments #1	11:30a
Surface Treatments #2	12:00p
Lunch (Tea in NSW)	12:30p
Improving pavement performance #1	1:00p
Improving pavement performance #2	1:30p
Sustainability	2:00p
CAPSA'11 & General	2:30p
Close and Wrap Up	2:50p



Australian Asphalt Pavement Association

Study Tour 2011

South Africa & CAPSA'11

Cape Town, Stellenbosch, Pretoria, Durban, KNP

3rd to 19th September 2011

GROUP REPORT

V4-2



