

**MINUTES OF THE APT STEERING COMMITTEE MEETING**  
**5<sup>th</sup> APRIL 2006**  
**GAUTENG DEPARTMENT OF PUBLIC TRANSPORT, ROADS & WORKS**

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		<b>Action</b>
<b>1</b>	<p><b>WELCOME</b></p> <p>Ms Sadzik welcomed members to the Steering Committee meeting.</p>	
<b>2</b>	<p><b>MINUTES OF PREVIOUS MEETING</b></p> <p>The minutes of the previous meeting were accepted as correct.</p>	
<b>3</b>	<p><b>STATUS REPORT ON PROGRESS RELATED TO PRIORITIES AND ACTION PLAN</b></p> <p>Ms Sadzik gave a report on progress related to priorities and the action plan which is shown in Appendix A on the website.</p>	
<b>4</b>	<p><b>PROJECT FEEDBACK</b></p> <p><b>Bitumen Stabilisation, Phase 1</b>  The presentation from Dr Long is shown in Appendix B-1 on the website. The following points were noted:</p> <ul style="list-style-type: none"> <li>• Phase 1 of the project has been finalised in the form of an inception report and proposals for phase 2 have been submitted for approval.</li> <li>• A bitumen stabilisation guideline document is scheduled for completion in 2008.</li> <li>• Prof Jenkins was requested to liaise with Prof Visser regarding variation in the cements that could have been used in the stabilisation processes.</li> <li>• Mr Henderson tabled a report on an emulsion-treated base project currently being constructed in the Western Cape in which experimental sections of foam and emulsion-treated materials could be constructed and provide valuable information to phase 2 of the project. Prof Jenkins and Dr Long were requested to discuss the details of their requirements with Mr Henderson by 15 April 2006.</li> </ul> <p><b>HMA Forensic Study</b>  Feedback on the progress of the forensic study was given by Mr Denneman of the CSIR and is shown in Appendix B-2 on the website.</p> <p>It was agreed that a presentation on the study should be given at the RPF meeting in May 2006 and a specialised workshop organised after RPF at a date to be decided, to discuss the details and implications of the study prior to finalisation of the draft project report.</p>	<p>KJ</p> <p>KJ/FL</p> <p>ED/BV ES/LS</p>

**Thin Layer Concrete Testing, Heidelberg**

Mr du Plessis gave feedback on the current HVS thin-layer concrete sections at Heidelberg being tested for SANRAL (Appendix B-3 on website). The following was noted:

- Testing has been extended to October 2006 to investigate local mixes being designed by the University of Pretoria.
- The final report should also give recommendations on appropriate construction methods for this technology.
- Prof Hugo suggested that work done by Ken Stoke in Texas should also be considered.

LdP

LdP

**SIM Testing**

Feedback on the SIM testing results with the HVS and the MMLS was given by Prof de Beer and is shown in Appendix B-4 on the website. The following was noted:

- Repeat tests with the MMLS on a variety of plates over the SIM have now shown more consistent and interpretable results for comparison of contact stresses applied by the HVS and the MMLS during APT.
- Testing with the HVS on a smooth plate over the SIM still needs to be undertaken but is expected to give only slightly higher results.
- A final report will be prepared on the information currently available and will provide valuable inputs for the APT testing being carried out on the HMA project.
- It was suggested that fixed protocols should be established for measurement and analysis of contact stresses and the selection of appropriate loading conditions for APT using the HVS and MMLS.
- A presentation of the results should be prepared for RPF.
- It was also suggested that a presentation of the results should be given to the TRB Full-scale Accelerated Pavement Testing committee (AFD40 group).
- Prof de Beer was requested to inform SRT (Basie Nothnagel) of the outcomes of the tests.

MdB  
MdB

MdB

**5 APT STRATEGY**

Mr Sampson gave a presentation (Appendix C) on the revised APT strategy (2006-2009) that will be submitted to GDPTRW as part of the motivation to secure ongoing funding for the Department's technology development programme centred around APT. The following was noted from the discussions:

- Mr Sampson to liaise with Mr Perrie regarding additional inputs related to labour-intensive construction of concrete roads.
- Feedback seminars and workshops should be organised for practitioners as well as students.
- Conferences such as SATC should be used to present the latest findings of APT in a half-day session. Mr Verhaeghe will consider this in the planning of sessions under his responsibility.

LS/BP

LS

LS/BV

		<b>Action</b>
<b>6</b>	<p><b>REVISED HMA DESIGN PROPOSAL</b></p> <p>The revised HMA design proposal was presented by Mr Verhaeghe (Appendix D). The following was noted from the discussion:</p> <ul style="list-style-type: none"> <li>• Fine aggregate angularity test (AASHTO T304 and SHARP 539) should be added to the list of tests.</li> <li>• High load and high tyre pressures should be added to the proposed HVS test programme. Mr Verhaeghe will liaise with Mr Morton in this regard.</li> <li>• Shoving as well as stresses in intersections should be measured.</li> <li>• Ms Sadzik will send a motivation/business plan to Messrs Henderson and Rossmann for consideration as potential co-sponsors of the project.</li> </ul>	<p>BV</p> <p>BV/BM</p> <p>ES/MH/DR</p>
<b>7</b>	<p><b>REPORTS FOR COMMENT AND REVIEW</b></p> <p>Reports for comment and review were presented by Dr Steyn (Appendix E on the website).</p> <p>It was agreed that the N12 report along with Mr Bergh's comments would be sent to Mr Perrie for further review.</p> <p>The following 2005/06 reports and reviewers were identified:</p> <ul style="list-style-type: none"> <li>• LTPP monitoring report – M Henderson &amp; F Long;</li> <li>• Compaction study, final report – D Collings &amp; M Henderson;</li> <li>• HMA forensic study, phase 2 – D Rossmann &amp; A Taute.</li> </ul> <p>The following reviewers were identified for 2006/07 projects:</p> <ul style="list-style-type: none"> <li>• P-SPA – F Hugo &amp; E de Vos;</li> <li>• HMA – F Hugo &amp; D Rossmann ;</li> <li>• LIC guidelines – D Wright via B Morton &amp; KZN DOT: S Oloo to coordinate;</li> <li>• Pavement response modeling – K Jenkins &amp; F Jooste + an HVSIA international review to be confirmed at the meeting of September 2006;</li> <li>• Bitumen stabilisation, phase 2 – to be agreed at a later date.</li> </ul>	<p>WS/BP</p>
<b>8</b>	<p><b>HVSIA MEETING</b></p> <p>It was agreed that the dates of the HVSIA meeting would be 20 to 22 September 2006 and the meeting should be arranged in the Cape. Ms Sadzik and Mr Sampson will liaise regarding a suitable venue and planning for the meeting.</p>	<p>ES/LS</p>

**9 MMLS RESEARCH AND ACTIVITIES**

Prof Hugo gave a presentation on the latest MMLS research and activities (Appendix F on the website).

It was agreed that Prof Hugo will send the website address for the bibliography of MMLS tests and results to members.

FH

The new MLS was scheduled to stop near Boksburg while in transit from Stellenbosch to Mozambique and Prof Hugo would inform members of the date and time and invite them to a demonstration of the machine.

FH

**10 ANY OTHER BUSINESS**

None

**9 DATE OF NEXT MEETING**

The date of the next meeting will be in October 2006. Further details will be communicated at a later date.

ES

It was agreed that the meeting should be scheduled for 1½ days starting at 13:30 to 16:30 on day 1 and 08:00 to 15:00 on day 2. Detailed technical feedback of the results would be scheduled for the morning of day 2.

**Appendix A**

**Status Report on Progress Related to Priorities and  
Action Plan**

**Ms Sadzik**

**Appendix B-1**

**Project Feedback: Bitumen Stabilisation, Phase 1**

**Dr Long**

**Appendix B-2**

**Project Feedback: HMA Forensic Study**

**Mr Denneman**

**Appendix B-3**

**Project Feedback: Thin Layer Concrete Testing,  
Heidelberg**

**Mr du Plessis**

**Appendix B-4**

**Project Feedback: SIM Testing**

**Prof de Beer**

**Appendix C**

**APT Strategy**

**Mr Sampson**

**Appendix D**

**Revised HMA Design Proposal**

**Mr Verhaeghe**

**Appendix E**

**Reports for Comment and Review**

**Dr Steyn**

**Appendix F**

**MMLS Research and Activities**

**Prof Hugo**