

**MINUTES OF THE APT STEERING COMMITTEE MEETING  
17<sup>th</sup> JULY 2003  
GAUTRANS LABORATORY**

<b>PRESENT:</b>				
<b>Name</b>	<b>Representative</b>	<b>Telephone</b>	<b>Fax</b>	<b>E-mail</b>
Elzbieta Sadzik	Gautrans	012-3102253	012-3102230	<a href="mailto:elzbietas@gpg.gov.za">elzbietas@gpg.gov.za</a>
Enrico Fletcher	Gautrans	012-3102212	012-3333236	<a href="mailto:enricof@gpg.gov.za">enricof@gpg.gov.za</a>
Benoit Verhaeghe	CSIR Transportek	012-8412907	012-8412690	<a href="mailto:bverhaeg@csir.co.za">bverhaeg@csir.co.za</a>
Bryan Perrie	C&CI	011-3150300	011-3150584	<a href="mailto:bryan@cnci.org.za">bryan@cnci.org.za</a>
Hechter Theyse	CSIR Transportek	012-8412269	012-8412690	<a href="mailto:htheyse@csir.co.za">htheyse@csir.co.za</a>
Renaldo Lorio	UWP Consulting	021-6744442	021-6744458	<a href="mailto:renaldo.l@uwp.co.za">renaldo.l@uwp.co.za</a>
Mervyn Henderson	PAWC Transport	021-4832020	021-4832205	<a href="mailto:mhenderson@pawc.gov.za">mhenders@pawc.gov.za</a>
Arthur Taute	VKE Cons Eng	012-4813800	012-8034411	<a href="mailto:tautea@vke.co.za">tautea@vke.co.za</a>
Dennis Rossman	SANRAL	031-3928100	031-3863365	<a href="mailto:rossmannd@nra.co.za">rossmannd@nra.co.za</a>
Frank Netterburg	Consultant	012-8047203	012-8046179	<a href="mailto:fnetterberg@aramail.co.za">fnetterberg@aramail.co.za</a>
Fenella Long	CSIR Transportek	012-8412548	012-8412690	<a href="mailto:flong@csir.co.za">flong@csir.co.za</a>
Les Sampson	Asphalt Academy	012-8412134	012-8412350	<a href="mailto:lsampson@iafrica.com">lsampson@iafrica.com</a>
Pat Loots	Executive Focus (Minutes Secretary)	012-8412436	012-8412350	<a href="mailto:patloots@iafrica.com">patloots@iafrica.com</a> T

		<b>Action</b>
<b>1</b>	<p><b>WELCOME AND APOLOGIES</b></p> <p>Ms Sadzik welcomed all the members of the Steering Committee.</p> <p>Apologies were received from the following persons:</p> <ul style="list-style-type: none"> <li>• Mr Simon Oloo, KZN DOT</li> <li>• Prof Emile Horak, University of Pretoria</li> <li>• Prof Kim Jenkins, University of Stellenbosch</li> <li>• Mr Teuns Lewis, Gautrans</li> <li>• Prof Fred Hugo, University of Stellenbosch</li> </ul>	
<b>2</b>	<p><b>ACCEPTANCE OF MINUTES</b></p> <p>One change was made to the minutes:</p> <p>Page 3, item 3, third bullet, should read, “Would provide valuable information as a LTPP section.”, not “Would provide valuation ...”.</p> <p>The minutes were accepted as a true reflection of the meeting.</p>	

### 3 DISTRIBUTION OF INFORMATION/REPORTS

The Steering Committee was urged to pay serious attention to documentation which is distributed for comment. Short documents will be e-mailed, and large documents will be saved in PDF format and posted on the FTP site with the file name e-mailed to the Steering Committee. Confidentiality of documents posted in this way will need investigation by the CSIR.

All/CSIR

### 4 STATUS REPORT ON PROGRESS RELATED PRIORITIES AND ACTION PLAN

Ms Sadzik gave a presentation with regard to the role of the APT Steering Committee and their priority research areas. A progress report was given related to the actions agreed at the last meeting. The presentation is attached in Appendix A.

Concern was expressed at the lack of inputs from other APT facilities. Ms Sadzik was requested to contact Prof Hugo and Prof Horak for written inputs or an alternative representative to provide information on the status of their APT facilities, should they be unable to attend Steering Committee meetings. The importance and value of these inputs was emphasized by the Steering Committee.

ES

A national consolidation of HVS tests and related projects already undertaken is required. An extensive database has already been developed by Transportek, but it is extremely cumbersome. Mr Theyse will prepare a spreadsheet of the test numbers and corresponding reports, together with the relevant dates, for ease of reference. Any other relevant information will be added, where appropriate.

HT

With regard to the Materials Database, the RPF considered that the current database is unmanageable and needs to be made into a more manageable, practical and feasible programme. Information will be required from relevant organizations for input into the database. Inputs in line with TMH 10, should be used as a base. The database is currently being populated with information related to foamed asphalt to investigate potential problems.

A reply is required from Hot Mix Asphalt PMG related to the preparation of a testing programme/proposal to investigate the design of asphalt overlays.

AT/BV/DR

CSIR has submitted a proposal to Mozambique to do a full scale investigation of the stabilization of sands. They are still awaiting the results of the tender submission before speaking to KZN about a proposal for investigating thin sands.

## **5 LVR, CAPE TOWN: TESTING PROGRAMME AND OUTCOMES**

Mr Theyse presented the details of the low volume roads testing programme in the Western Cape as well as a holistic discussion document with a framework against which research needs will be identified and proposals submitted. Presentation contained in Appendix B.

With respect to the proposals, the following applies:

- The test will provide additional information for TRH4 designs for LVRs;
- Texas Triaxial tests could be included, if relevant;
- Concrete could be used for LVRs and should be included in a holistic document;
- Other less expensive testing options could be used for LVRs to supplement the current work once a holistic framework is in place.

The broader framework document will be discussed at a meeting on 23 July 2003. Once the document is ready for circulation, the Steering Committee will receive a copy for further comment.

HT

## **6 CONCRETE SECTIONS: TESTING PROGRAMME AND OUTCOMES**

Mr Perrie gave a presentation on testing programmes and the outcomes with respect to concrete sections. Presentation contained in Appendix C.

## **7 N7 ETB SECTIONS: DESIGN AND CONSTRUCTABILITY PROBLEMS**

Mr Theyse presented issues related to mix design, constructability of ETB sections and logistical problems of moving the HVS back to the N7 in Cape Town after the concrete sections. The presentation is shown in Appendix D. The following points were noted from the discussion:

- Curing of ETBs and durability testing need to be considered in the testing programme.
- Research is required on the cement being used for emulsion treatment. Slower setting cement. CEM 1 is used in the lab work and during construction but slower setting cements should be considered to alleviate cracking problems.
- The contractors can construct ETB sections on the N7 at 2.3% residual bitumen and it is now not considered a problem.
- A decision whether to construct an ETB section on the N2 was deferred until the next meeting in November when more information will be available.

HT

CSIR/All

<ul style="list-style-type: none"> <li>The lab testing programme proposed to replace the HVS testing should be undertaken in phases. CSIR to amend their proposal accordingly.</li> </ul>	CSIR
<p><b>8 REVISED PLAN HVS TESTING 2003/04 (Appendix E)</b></p>	
<p>The following points were noted from the discussion:</p>	
<ul style="list-style-type: none"> <li>It was agreed that the compaction study should go ahead. The proposal will be circulated to the Steering Committee for comment.</li> </ul>	CSIR/ES
<ul style="list-style-type: none"> <li>The decision on the construction and testing of ETB sections on the N7 will be deferred until early December. The information for foam will also be available to facilitate the decision by December.</li> </ul>	All/CSIR
<ul style="list-style-type: none"> <li>CSIR to come up with a phased approach for the ETB lab testing for discussion and approval by Gautrans by Friday, 25 July 2003.</li> </ul>	CSIR
<p><b>9 FEEDBACK ON OTHER APT INITIATIVES</b></p>	
<p><b>9.1 MMLS (Mini Mobile Load Simulator)</b></p>	
<p>Item held over until the next meeting.</p>	
<p><b>9.2 ART (Accelerated Road Tester)</b></p>	
<p>Item held over until the next meeting.</p>	
<p><b>9.3 International HVS Consortium</b></p>	
<p>Item held over until the next meeting.</p>	
<p><b>10 CALCULATING BENEFITS OF HVS TESTING</b></p>	
<p>Item held over until the next meeting.</p>	
<p><b>11 GENERAL</b></p>	
<p>None.</p>	
<p><b>12 NEXT MEETING</b></p>	
<p>The next meeting is set for 27 November 2003 after RPF at 08:30 at Gautrans.</p>	All

**Appendix A**

**STATUS REPORT ON PROGRESS RELATED  
PRIORITIES AND ACTION PLAN**

**Ms Elzbieta Sadzik**

## **Appendix B**

# **LVR TESTING PROGRAMME AND OUTCOMES**

**Mr Hechter Theyse**

**Appendix C**

**CONCRETE SECTIONS: TESTING PROGRAMME  
AND OUTCOMES**

**Mr Bryan Perrie**

**Appendix D**

**N7 ETB SECTIONS: DESIGN AND  
CONSTRUCTABILITY PROBLEMS**

**Mr Hechter Theyse**

**Appendix E**

**PROGRAMME PLAN:  
HVS AND ASSOCIATED PROJECTS**

**Mr Hechter Theyse**