

**MINUTES OF THE APT STEERING COMMITTEE MEETING
12th APRIL 2005
GAUTRANS LABORATORY**

PRESENT:					
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Pat Loots	Executive Focus (Minutes Secretary)	012-3480865	012-3480865	083 375 6945	patloots@iafrica.com

Action

1 WELCOME AND APOLOGIES

Ms Sadzik welcomed the members of the Steering Committee.

2 MINUTES OF PREVIOUS MEETING

The minutes of the previous meeting were accepted as correct.

3 MATTERS ARISING

None.

4 STATUS REPORT ON PROGRESS RELATED TO PRIORITIES AND ACTION PLAN

Ms Sadzik gave a presentation on progress related to priorities and the action plan. The presentation is attached in Appendix A. The following items were noted:

- With regard to ultra thin asphalt, attention needs to be given to the impact on the whole industry, especially the aggregate crushing sector.
- The ultra thin asphalt evaluation has been taken over by the SA Agrément process which has been based on the British Agrément process.
- The report on Hilton N3 testing will be finalised by week ending 15 April 2005.

5 FEEDBACK ON RESEARCH ADVISORY PANEL MEETING RELATED TO APT

Mr Verhaeghe gave feedback to the meeting. For reference, the presentation is attached in Appendix B. Copies of the original feedback are available from Ms Sadzik.

6 FEEDBACK ON HVS BENEFITS PILOT STUDY

Dr Jooste gave feedback on the pilot study. The presentation is attached in Appendix C for reference. The following items were noted:

- The benefits to Gautrans, SANRAL and all other provincial road authorities should be taken into account.
- Indirect benefits and the American ITS approach could be helpful.
- The model is a realistic sketch, but the shotgun zone happens through individuals taking on the challenge and it becomes easier to define the benefits due to more attention given by a wider industry.
- The benefits of foam need to be done soon.
- The framework provides a model for estimating potential benefits at the proposal stage of a project for evaluation and better prioritisation of projects
- Researchers must evaluate benefits at the end of the project compared with the perceived benefits estimated at the proposal stage.

7 REPORTS FOR COMMENT AND REVIEW

Dr Steyn presented the list of the reports for comment and review as follows:

Current Projects:

- SIM HVS/MMLS3
 - Reviewers: Taute, Kannemeyer & Hugo
- Compaction project
 - Reviewers: Rossmann, Jenkins & Sampson
- N12 HVS
- N12 mechanistic models (Important input to TG2)
 - Reviewers: Jenkins, Jooste & Horak

- LTPP sections
 - First round of collecting data done. Wait for October round.
- Bitumen Stabilisation laboratory study
 - Reviewers: Jenkins, Collings, Sampson & Lorio
- ETB design guideline
 - Reviewers in consultation with P Myburgh

Possible projects:

- ETB curing
 - Mr Sampson to send the proposal to Prof Jenkins & Mr Collings.
 - Dr Long has already reviewed.
- HMA
 - No proposal yet.
- TG2 update
 - No comment
- SANRAL thin concrete
 - No comment

LS

8 VALIDATION OF SA MECHANISTIC DESIGN MODELS

Mr Theyse presented the validation for SA mechanistic design models, which is attached in Appendix D.

8.1 Discussion of Issues

- There could be cautious updating of TG2 before the mechanistic design update is completed.
- The time frame of the project is unknown at present. The project plan will be completed by end June 2005.
- SA mechanistic design models derived from HVS testing and the implications to pavement and rehabilitation design was identified as a major concern along with the correlation of the various deflection measurement techniques. This issue will be raised at the next RPF meeting in May and is a top priority. A RPF Task Group should be formed to take this matter further.

ES

9 CURRENT INDUSTRY INITIATIVES

9.1 N12 Testing

Dr Steyn gave a summary on the N12 testing. The presentation is included in Appendix E.

9.2 SANRAL Testing at Heidelberg

Dr Steyn gave a summary on the SANRAL testing at Heidelberg on reinforced thin layer concrete scheduled to start in April 2005. The presentation is included in Appendix F.

9.3 EBTM Feedback

The development of the EBTM guidelines has been paced on hold pending the outcome of several related projects. The Foam Bitumen Task Group of RPF, responsible for TG2 and its upgrade, should be extended to become the Bitumen Stabilisation Task Group and take responsibility for overseeing the further development of the EBTM guidelines.

ES

9.4 HMA

- The HMA proposal is still being developed and will include a forensic study as a first phase.
- Road P159/1 has been identified for construction of the test section.

10 IDENTIFICATION OF NEW RESEARCH PROJECTS IN LINE WITH THE STRATEGY

Prof Hugo reported that the MLS project in Mozambique is well underway and further information will be forthcoming at the next APT meeting.

11 ANY OTHER BUSINESS

Actions:

- The testing on the concrete sections at Heidelberg will take 6 months, following which the HVS will move on to the HMA sections.
- The update of TG2 is seen as a major priority.
- Industry feedback of the bitumen stabilisation report will need to be organised and should be considered by the RPF Task Group.

12 NEXT MEETING

The date of the next meeting to be advised and is expected to be during August 2005, around the HVSIA.

Appendix A

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

Ms Elzbieta Sadzik

Appendix B

**FEEDBACK ON RESEARCH ADVISORY PANEL
MEETING RELATED TO APT**

Mr Benoit Verhaeghe

Appendix C

FEEDBACK ON HVS BENEFITS PILOT STUDY

Dr Fritz Jooste

Appendix D

**VALIDATION OF SA MECHANISTIC DESIGN
MODELS**

Mr Hechter Theyse

Appendix E

**CURRENT INDUSTRY INITIATIVES
N12 Testing**

Dr Wynand Steyn

Appendix F

**CURRENT INDUSTRY INITIATIVES
SANRAL Testing at Heidelberg**

Dr Wynand Steyn