

HVSIA 2009

# HVSIA ACTIVITY COORDINATION FEEDBACK

3 to 5 November 2009



100  
1908 - 2008



UNIVERSITEIT VAN PRETORIA  
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# HVSIA activity coordination feedback

- Background
- Current status
- Recommendations



# Background

- Objective
  - See what everybody else is doing
  - Actively plan to share information and cooperate
- Subsections
  - HVSIA matrix
  - HVS testing log
  - Data swapping – currently happening SA/UC
  - Procedures
  - Planned work



# Background



## HVS International Alliance: Current and future projects

Programme	Current Projects		Future Projects		Contact Person
	Project Details	Timeline	Project Details	Timeline	
<b>GDPTRW</b>	Thin concrete for heavy traffic	2006 to July 2008	Thin concrete for light traffic	July 2008 to July 2009	lplessis@csir.co.za
<b>CSIR</b>	HMA rutting studies	Oct 2006 to March 2009	HMA structures	2008/2009	wsteyn@csir.co.za
<b>FLORIDA</b>	Stress absorbing membrane interlayer study (rutting) HMA rutting study HMA bottom-up cracking study	2009 to March 2010	HMA top-down cracking study Stress absorbing membrane interlayer study continuation (rutting and cracking)	2010	bouzid.choubane@dot.state.fl.us
<b>CALTRANS</b>	Warm-mix asphalt8 (possible extension)	Oct 2007 to Dec 2008	Composite pavement	Sept 2008 to Dec 2009	djjones@ucdavis.edu
<b>ERDC</b>					
<b>SWEDEN</b>	Upgrading treatment for low volume roads and High Modulus Asphalt structure	April to July 2008	Reference structure according to Swedish specification	2008/2009	leif.g.wiman@vti.se
<b>OTHER</b>					

# Background

## HVS International Alliance: Machine Production Tables

To download the HVS Machine Production Tables, please click on the relevant links below:

 our future through science	<a href="#">CSIR Machine Production Table (pdf doc 33 Kb)</a>
	<a href="#">Finland /Sweden Machine Production Table (pdf doc 21 Kb)</a>
	<a href="#">Caltrans Machine Production Table (pdf doc 26 Kb) <i>Currently unavailable</i></a>
	<a href="#">Florida Machine Production Table (pdf doc 41 Kb)</a>

# Background



Machine	Test number	Test Date Start	Repetitions	Load kN	Tyre inflation pressure kPa	Cumulative Repetitions	Report Link	E80s n=4	Cumulative E80s	Focus area	Location	Road number
<b>HVS All</b>			<b>74 563 393</b>					<b>1 240 762 854</b>				
<b>HVS2</b>			<b>13 129 129</b>					<b>102 487 590</b>				
<b>HVS3</b>			<b>10 293 184</b>					<b>205 341 207</b>				
<b>HVS4</b>			<b>30 189 810</b>					<b>657 538 576</b>				
<b>HVS5</b>			<b>20 951 270</b>					<b>275 395 482</b>				
HVS2	212A2	1983/06/14	203250	40	520	203250		203 250	203 250		Swinburn-Harrismith	N3
HVS2	212A2	1983/06/14	361382	60	600	564632		1 829 496	2 032 746		Swinburn-Harrismith	N3
HVS2	213A2	1983/03/02	10	40	520	564642		10	2 032 756		Swinburn-Harrismith	N3
HVS2	241A2	1983/08/23	192059	40	520	756701		192 059	2 224 815		Swinburn	N3
HVS2	241A2	1983/08/23	206563	60	600	963264		1 045 725	3 270 541		Swinburn	N3
HVS2	241A2	1983/08/23	231178	100	600	1194442		9 030 391	12 300 931		Swinburn	N3
HVS2	242A2	1983/10/20	193400	100	600	1387842		7 554 888	19 855 619		Swinburn	N3
HVS2	302A2	1986/11/26	82239	60	600	1470081		416 335	20 271 954		McCleantown sec B	TR86
HVS2	303A2	1986/07/10	559971	100	600	2030052		21 873 867	42 145 821		McCleantown sec C	TR86
HVS2	304A2	1987/01/28	132781	60	600	2162833		672 204	42 818 025		McCleantown sec D	TR86

# Background



## HVSIA Panel of Experts

Quick Links:

<b>CSIR</b>	<b>ERDC - GSL/CRREL</b>	<b>UCPRC</b>
<b>Dynatest Consulting</b>	<b>FDoT</b>	<b>VTI, Sweden</b>

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### Florida DoT

Name	Organisation	E-mail	Phone	Main Area of HVS Expertise
Bouzid Choubane	FDoT	bouzid.choubane@dot.state.fl.us	+352 955-6302	
Tom Byron	FDoT	tom.byron@dot.state.fl.us	+352 955-6302	
Kyle Sheppard	FDoT	kyle.sheppard@dot.state.fl.us	+352 955-6302	

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### ERDC - GSL / CRREL

Name	Organisation	E-mail	Phone	Main Area of HVS Expertise
Don Alexander	ERDC - GSL	don.r.alexander@usace.army.mil	+601 634-2731	Materials testing; NDT; Instrumentation; Design evaluation
Tommy Carr	ERDC - GSL	harold.t.carr@usace.army.mil	+601 634-3368/2442	HVS Operation, instrumentation
Edel Cortez	ERDC - CRREL	edel.r.cortez@usace.army.mil	+603 646-4301	HVS Testing / Operations

## Current information

- HVSIA matrix
  - Updated for 2009 – See separate presentation
- HVS testing log
  - Updated for Sweden, SA, UC, *Florida?*, *ERDC?*
  - Concern re UC data at APT 2008 – resolved?





# Current information

- Data swapping
  - Proposed electronic link – not really happening
  - Currently happening SA/UC cemented test information
  - Maybe potential for the following:
    - SA – Florida – rutting
    - VTI – SA – HIMA, ?
    - WES – SA – unpaved roads
    - UC – all – WMA
    - Others?



# Current information

- Procedures
  - No new procedures uploaded
  - TRB EC139
    - TRB 2007 session
    - Use of Accelerated Pavement Testing to Evaluate Maintenance and Pavement Preservation Treatments
      - **Introduction** - *John T. Harvey*
      - **Accelerated Pavement Testing Experiment to Assess the Use of Modified Binders to Limit Reflective cracking in Thin Asphalt Concrete overlays** - *D. Jones and John T. Harvey*
      - **Performance of Maintenance Treatments Under Accelerated Loading Facility Testing** - *Tim C. Martin and Kieran G. Sharp*
      - **Use and Application of Accelerated Pavement Testing in Pavement Preservation Research** - *W. Steyn*
      - **Minnesota Road Research Project Mainline Maintenance Observations and Test Track Lessons Learned, 2003–2006** - *Benjamin J. Worel and Timothy R. Clyne*

# Current information

- Planned work
  - Updated for 2009 – Sweden, SA, UC, *Florida? ERDC?*
  - Input for workshop on collaborative papers / submissions to APT 2012



# Recommendations

- Keep effort going
- Update annually
- Rianie Castelyn contact

