

4th INTERNATIONAL CONFERENCE ON ACCELERATED PAVEMENT TESTING

Provisional Program

Time	Tuesday	Wednesday		Thursday		Friday	
07:30 – 08:30	Coffee Registration	Coffee Registration		Coffee		Coffee	
08:30 – 10:00	W/shop Data Collection	Plenary		Keynote presentations		Linking APT to Lab Results	ME Calibration
10:00 – 10:30	Break	Break		Break		Break	
10:30 – 12:00	W/shop Data Collection	APT Review & Cost Benefit	APT at Airports	APT of Functional Performance	General APT	Workshop/Discussion: Future Roles and the Sustainability of APT	
12:00 – 13:00	Lunch	Lunch		Lunch		Lunch	
13:00 – 14:30	W/shop Data Analysis	APT of Sustainable Materials	APT Facility Establishment	APT with M-E Focus	APT Facility Reviews	Conference Summary and Close	
14:30 – 15:00	Break	Break		Break		Break	
15:00 – 16:30	W/shop Data Analysis	APT of Asphalt Concrete	APT Instrumentation	APT of Portland Cement Concrete	Data Analysis & ME Calibration		
18:00 – 22:00	AFD40 Meeting	Reception at UCPRC		Dinner			

Time		Wednesday 09/19/2012	
07:30 – 08:30		Coffee and Registration	
		Session 1: Plenary	
08:30 – 10:00	08:30 – 08:40	Welcome	<i>John Harvey, UCPRC</i>
	08:40 – 08:50	Opening statements	<i>Bouزيد Chobane, outgoing chairman, AFD40</i>
	08:50 – 09:00	Opening statements	<i>Ben Worel, incoming chairman, AFD40</i>
	09:00 – 09:30	Conference opening & keynote address	<i>TBA, Caltrans</i>
	09:30 – 10:00	Keynote address	<i>Nick Coetzee, Retired</i>
10:00 – 10:30		Break	
10:30 – 12:00	Parallel Session 2a: APT Overview and Cost Benefit		
	A History of Modern Accelerated Performance Testing of Pavement Structures <i>B. Powell</i>		
	A Decade of Full-Scale APT <i>W. Steyn</i>		
	Developments in Evaluating the Benefits of Implemented APT Results in California <i>W.A. Nokes, M. Mahdavi, N.I. Burmas, T.J. Holland, L. du Plessis and J.T. Harvey</i>		
	Results of a Case Study Determining Economic Benefits of APT Research in California <i>L. du Plessis, W.A. Nokes, M. Mahdavi, N.I. Burmas, T.J. Holland and J.T. Harvey</i>		
10:30 – 12:00	Parallel Session 2b: APT at Airports		
	Study of Failure Mechanisms in Rubblized Concrete Pavements with Hot-mix Asphalt Overlays <i>N. Garg, G.F. Hayhoe and L. Ricalde</i>		
	Rut Depth Measurement Method & Analysis at the FAA's National Airport Pavement Test Facility <i>I. Song, G. Hayhoe and R. Aponte</i>		
	Direct Measurement of Residual Stress in Airport Concrete Pavements <i>H. Yin, E. Guo and F. Petch</i>		
12:00 – 13:00		Lunch	
13:00 – 14:30	Parallel Session 3a: Sustainable Materials		
	Accelerated Loading, Laboratory, & Field Testing Study to Fast-track the Implementation of Warm-mix Asphalt in California <i>D. Jones, R.Z. Wu, B. Tsai, C. Barros and J. Peterson</i>		
	Assessment of Response & Performance of Perpetual Pavements with Warm-mix Asphalt Surfaces at the Ohio APLF <i>I. Khoury, S.M. Sargand, A. Al-Rawashdeh and W. Edwards</i>		
	Structural Evaluation and Short-term Performance of Sustainable Pavement Sections at the NCAT Pavement Test Track <i>A. Vargas-Nordcbeck and D.H. Timm</i>		
	Evaluation of a Rubber Modified Asphalt Mixture at the 2009 NCAT Test Track <i>J.R. Willis, R.B. Powell and M.C. Rodezno</i>		
13:00 – 14:30	Parallel Session 3b: APT Facility Establishment		
	PaveLab & HVS Implementation at the National Laboratory of Materials & Testing Models of the University of Costa Rica <i>J.P. Aguiar-Moya, J.P. Corrales, F. Elizondo and L. Loría-Salazar</i>		
	The Universidad de los Andes Linear Test Track Apparatus <i>B. Caicedo, J. Monroy, S. Caro and E. Rueda</i>		
	Design & Implementation of a Full-scale APT Facility for Extreme Regional Climates in China <i>D. Zejjiao, T. Yiqiu and L. Meili</i>		
	International Case Studies in Support of Successful Applications of APT in Pavement Engineering <i>F. Hugo, M. Arraigada, L. Shu-ming, T. Zefeng and R.Y. Kim</i>		
14:30 – 15:00		Break	
15:00 – 16:30	Parallel Session 4a: APT on Asphalt Concrete		
	Accelerated Performance of a Failed Pavement on a Soft Clay Subgrade after Rehabilitation with High Polymer Mix at the NCAT Pavement Test Track <i>B. Powell</i>		
	Evaluation of a Heavy Polymer Modified Asphalt Binder using APT <i>J. Greene, B. Choubane and P. Upshaw</i>		
	Rutting Resistance of Asphalt Pavements with Fine Sand Subgrade under Full-scale Trafficking at High & Ambient Air Temperature <i>J. Wu, F. Ye, J. Ling, J. Qian and S. Li</i>		
	Initial Tests Results from the MLS10 Mobile Load Simulator in Switzerland <i>M. Arraigada, M.N. Partl and A. Pugliessi</i>		
15:00 – 16:30	Parallel Session 4b: APT Instrumentation		
	Semi-automated Crack Analysis System for the Heavy Vehicle Simulator <i>K. Sheppard, J. Greene, B. Choubane, J. White and J. Fletcher</i>		
	The CAPTIF Unbound Pavement Strain Measurement System <i>F.R. Greenslade, D.J. Alabaster, B.D. Steven and B.D. Pidwerbesky</i>		
	Detection of Debonding and Vertical Cracks with Non Destructive Techniques during APT <i>J-M. Simonin, V. Baltazart, P. Horny, J-P. Kerzrého, X. Dérobert, S. Trichet, O. Durand, J. Alexandre and A. Joubert</i>		
	A Modular Data Acquisition System for Heavy Vehicle Simulator Tests <i>R. Wu, J.D. Lea and D. Jones</i>		

18:00 – 22:00	Reception (UCPRC)	
Time	Thursday 09/20/2012	
07:30 – 08:30	Coffee and Registration	
08:30 – 10:00	Session 5: Keynote Presentations: The Role of APT in Mechanistic-empirical Design Calibration	
	08:30 – 09:00	US perspective <i>Randy West, NCAT</i>
	09:00 – 09:30	European perspective <i>Pierre Hornych, IFSTTAR</i>
	09:30 – 10:00	Airport perspective <i>TBA</i>
10:00 – 10:30	Break	
10:30 – 12:00	Parallel Session 6a: APT to Evaluate Functional Performance	
	Accelerated Traffic Load Testing of Seismic Expansion Joints for the new San Francisco-Oakland Bay Bridge <i>D. Jones, R.Z. Wu and T.J. Holland</i>	
	Accelerated Testing of Noise Performance of Pavements <i>H. Bendtsen, J. Oddershede, G. Hildebrandt, R. Wu and D. Jones</i>	
	Performance Evaluation of Unsurfaced Pavements using the UIUC Accelerated Transportation Loading Assembly <i>D. Mishra and E. Tutumluer</i>	
APT on Slab and Block Pavements using the MLS10 Mobile Load Simulator <i>R. Blab, W. Kluger-Eigl, J. Füssl and M. Arraigada</i>		
Parallel Session 6b: General APT		
APT of Low-volume Paved Roads with Geocell Reinforcement <i>B.S. Bortz, M. Hossain, I. Halami and A. Gisi</i>		
Use of APT to Validate Ride Quality Index Data <i>T.R. Clyne</i>		
Exploratory Evaluation of Cracking Performance of a 4.75 mm NMAS Overlay using Full-scale Accelerated Loading <i>X. Qi, X. Li, N.H. Gibson, T. Clark and K. McGhee</i>		
Innovative Contracting Methods used at MnROAD for Construction <i>B.J. Worel and T.R. Clyne</i>		
12:00 – 13:00	Lunch	
13:00 – 14:30	Parallel Session 7a: General APT Related to Mechanistic-empirical Design	
	Simulating the Effects of Instrumentation on Measured Pavement Response <i>F. Leiva-Villacorta and D.H. Timm</i>	
	APT of Two Flexible Road Pavements to assess Long-term Structural Performance <i>J. Ritter, R. Rabe and A. Wolf</i>	
	How Low is Too Low? An Assessment of the Risk of Low Air Voids in Asphalt Pavements using APT <i>E. Levenberg, R.S. McDaniel and T.E. Nantung</i>	
Evaluation of the Aggressiveness of Different Multi-axle Loads using APT <i>J.-P. Kerzrého, P. Hornych, A. Chabot, S. Trichet, T. Gouy, G. Coirier and L. Deloffre</i>		
Parallel Session 7b: Review of the Impact of APT Programs on Practice		
Significant Findings from the First Three Research Cycles at the NCAT Pavement Test Track <i>R. West and R.B. Powell</i>		
A 10 Year Review of the Florida APT Program <i>J. Greene and B. Choubane</i>		
Fourteen Years of APT at Kansas State University <i>M. Hossain, B.S. Bortz, H. Melhem, S.A. Romanoschi and A. Gisi</i>		
The Implementation of APT Findings into Industry Practice in New Zealand <i>B.D. Steven, D. Alabaster and B.D. Pidwerbesky</i>		
14:30 – 15:00	Break	
15:00 – 16:30	Parallel Session 8a: APT on Portland Cement Concrete	
	Performance of Thin Jointed Concrete Pavements Subjected to Accelerated Traffic Loading <i>T.R. Burnham and B.I. Izevbekhai</i>	
	APT Experiment of a Pavement made of Fiber-reinforced Roller-compacted Concrete <i>M.L. Nguyen, J.M. Balay, C. Sauzéat, H. Di Benedetto, K. Bilodeau, F. Olard and B. Ficherouille</i>	
	Provisional Results from APT of Roller-compacted Concrete in South Africa <i>L. du Plessis, S.J.H. Louw, G. Rugodho and S. Musundi</i>	
Environmental and Load Effect on Dowelled and Undowelled Portland Cement Concrete Slabs <i>S.M. Sargand and I. Khoury</i>		
Parallel Session 8b: Data Analysis and ME Calibration		
Calibration of Full-scale APT Data Using Long-term Pavement Performance Data <i>W.J.vdM. Steyn, J.K. Anochie-Boateng, C. Fisher, D. Jones and L. Truter</i>		
Using Point Level APT Data for Calibration of Performance Models <i>J.D. Lea</i>		
Mechanistic-empirical Performance Simulations to Adjust & Compare APT Results <i>J.T. Harvey, D. Jones, J.D. Lea, R.Z. Wu, P. Ullidt and B. Tsai</i>		
APT-based Pavement Design Catalogue <i>W. Steyn</i>		
18:00 – 22:00	Conference Banquet (UCPRC)	

Time	Friday 09/21/2012
07:30 – 08:30	Coffee and Registration
08:30 – 10:00	Parallel Session 9a: Linking APT to Laboratory Results Towards Improved Characterization of Cemented Pavement Materials <i>R.E.Y. Yeo and W. Young</i> Use of Accelerated Pavement Testing to Validate Laboratory Permanent Deformation Test Processes <i>M.A. Moffatt, G.W. Jameson and J.W.H. Oliver</i> The Implementation of Findings from Accelerated Pavement Testing in Pavement Design and Construction Practice <i>J. Kwon, M.H. Wayne, G.J. Norwood and J.S. Tingle</i> Recommended Asphalt Binder Fatigue Performance Specification from Full-scale Accelerated Pavement Tests Considering Aging Effects <i>N. Gibson, X. Qi, A. Andriescu and A. Copeland</i>
	Parallel Session 9b: Mechanistic-empirical Design Calibration with APT Calibration of Incremental-recursive Rutting Prediction Models in CalME Using HVS Experiments <i>E. Coleri, R. Wu, J.T. Harvey and J. Signore</i> Evaluation of a Flexible Pavement Structure in an Accelerated Pavement Test <i>Th. Saevarsdottir and S. Erlingsson</i> Lessons Learnt from the Application of the CalME Asphalt Fatigue Model to Experimental Data from the Cedex Test Track <i>A. Mateos, J.P. Ayuso, B. Cadavid and J.O. Marrón</i> Modeling of Flexible Pavement Structure Behavior - Comparisons with Heavy Vehicle Simulator Measurements <i>A.W. Ahmed and S. Erlingsson</i>
10:00 – 10:30	Break
10:30 – 12:00	Session 10: Facilitated Workshop/Discussion: Future Roles and the Sustainability of APT The Role of APT in Pavement Engineering in the Short, Medium, and Long term The Role of APT in Mechanistic-empirical Design The Role of APT Programs in “Every Day Counts” Initiatives
12:00 – 13:00	Lunch
13:00 – 14:30	Session 11: Conference Summary and Close
14:30 – 15:00	Break