

CAPSA'11 Detailed Programme

Sunday 11th September 2011		
13:30 - 18:00	Registration	
08:00 - 18:00	Exhibitors to erect their exhibition stands in the Buttress Room	
19:00 - 23:00	Ice Breaker Function	
	The Ice Breaker function for delegates and their registered partners will be held in the Sentinel Room and adjacent areas, and will include drinks and cocktail snacks. The function will include a brief welcome and statement for the sponsors of the event and will feature a 30 minute presentation by the Drakensberg Boys Choir.	
Monday 12th September 2011		
07:00 - 08:00	Opening Session	Venue: Sentinel room
	<p>Chair: Phil Hendricks, Aurecon</p> <p>Welcome and Introduction to CAPSA 11 – Phil Hendricks, CAPSA Chair and Aurecon</p> <p>The Commercial rationale for Environmental Practice – Jonathan Hanks, University of Cape Town</p> <p>The Concept of “Green” Roads Rating – Steve Meunsch, University of Washington</p> <p>CAPSA 11 initiatives for improved environmental practices: “Greening” the Conference – Deon Pagel, Conference Steering Committee and National Asphalt</p>	
10:00 - 10:30	Break	Venue: Exhibition area
10:30 - 12:30	Technical Session 1 - Reduced Impact of Road Building Activities on the Environment	Venue: Sentinel Room
	<p>Chair: Saied Solomons, Sabita</p> <p>Bitumen Emulsion: Beyond Pavement Preservation – Étienne le Bouteiller, Colas France</p> <p>Towards more Sustainable Practice in Bituminous Product Laboratories – Johan O’Connell, CSIR Built Environment</p> <p>Construction of High Quality Wearing Course with more than 90% Reclaimed Asphalt</p>	

	<p>Pavement (RA): a case study – Matthias Nölting, Sasol Wax Gmbh, Germany</p> <p>Evaluation of the On Board Sound Intensity (OBSI) Method – Jorge Prozzi, University of Texas at Austin</p>	
12:30 - 13:30	Lunch	Venue: Exhibition area
13:30 - 15:30	Technical Session 2 - Limiting Energy Consumption in the Construction of Bituminous Layers	Venue: Sentinel
	<p>Chair: Krishna Naidoo, eThekweni Municipality</p> <p>Combining LCC and Energy Consumption for Enhancing Decision Making Regarding Rehabilitation Options – Kim Jenkins, University of Stellenbosch</p> <p>Energy and Related Carbon Emission Reduction Technologies – Oliver Stotko, Carbon & Energy Africa</p> <p>Design of Recycled Asphalt Mixtures using a Double Drum Mixer – André Molenaar, Delft University of Technology</p> <p>Warm Mix Asphalt – The South African Experience – Tony Lewis, Tony Lewis Consulting</p>	
15:30 - 16:00	Break	Venue: Exhibition area
16:00 - 18:00	Parallel Workshop Session 1	
	<p>WS 1a: Recyclable Materials Leader: Saied Solomons Introductory Paper; Asphalt Mixtures with Waste Materials: Possibilities and Constraints – Martin van de Ven, Delft University of Technology Invited Presentation; Turning RAP into a value added pavement asset – Trevor Distin, Boral</p>	Venue: To be advised
	<p>WS 1b: Reconstituting Bitumen Rubber and the Use of Industrial Waste Leader: Herman Marais Introduction to the topic – Workshop Leader Introductory Paper; Steel Slag: Conversion of an industrial waste material into a value adding asphalt ingredient. – Ulf Schaller, Storimpe</p>	Venue: To be advised
	<p>WS 1c: Warm Mix Asphalt Leader: Krishna Naidoo Introductory Papers;</p>	Venue: To be advised

	<p>Low Emission & Low Energy Asphalts for Sustainable Road Construction: The European experience of the LEA Process – Francois Olard, EIFFAGE Travaux Publics</p> <p>Full-scale Implementation of Warm Mix Asphalt in South Africa – Wynand Nortje, National Asphalt</p>	
	<p>WS 1d: Airport Applications Leader: Steve Emery Introductory Papers; Application of Innovations and lessons Learnt on a Sinkhole Prone Airport Runway – Bruce Morton, Aurecon Early Identification of Durability & Stripping Issues in Asphalt Bases and Surfacing – Emile Horak, Kubu Consultancy</p>	Venue: To be advised
	<p>WS 1e: Performance Characteristics Leader: Dennis Rossmann Introduction; Workshop Leader</p>	Venue: To be advised
19:00 - 23:00	Exhibitors' Braai	Venue: Exhibition area
	All delegates and registered partners are invited to the braai/barbeque in the exhibition area.	

Tuesday 13th September 2011		
08:00 - 10:00	Parallel Speciality Session 1	
	<p>PSS 1a: Pavement design System Chair: Louw Kannemeyer Evaluation of Effects of Road Maintenance Actions on Applied Tyre Loads – Wynand Steyn, University of Pretoria Development of a Pavement Performance Information System – Arno Hefer, Rubicon Solutions Modelling the Non-Linear Behaviour of Pavement Layers (Sub-grade) Using a Linear Elastic Approach – P W de Bruin, Consultant Interim Revision of the South African Mechanistic-Empirical Pavement Design Methods for Flexible Pavements – Hechter Theyse, Pavement Modelling Corporation</p>	Venues: Sentinel
	<p>PSS 1b: Thin Surfacing Surface Texture & Safety Chair: Kobus Louw Improving the Durability of Seal Aggregate by Precoating - Tumelo Thothela, Aurecon Improving Runway Skid resistance at King Shaka International Airport through Ultra-High Pressure Water-Cutting – Wim Hofsink, Soillab Towards Improved Understanding of Seal Performance – Gerrie van Zyl, Mycube Critical Review of Performance of UTFC in South Africa – Corné Roux, SANRAL</p>	Venues: Monks Cowl
10:00 - 10:30	Break	Venue: Exhibition area
10:30 - 12:30	Parallel Workshop Session 2	
	<p>WS 2a: Accreditation/Certification of Cold Mix Asphalt and Other Bituminous Products Leader: Herman Marais Introductory Paper; Development of performance criteria for cold-lay surfacing materials: Laboratory Study – Erik Denneman, CSIR</p>	Venue: To be advised
	<p>WS 2b: Delivery Leader: Arthur Taute Introductory Paper; Life-cycle cost analyses – an integral part of rehabilitation design – Gerrit Jordaan, Tshepega Engineering The effect of Law Enforcement on Tolling of National Roads on the South African Rural Road network: a case study – Gerrit Jordaan, Tshepega Engineering</p>	Venue: To be advised

	<p>WS 2c: Appropriate Standards for Low Volume Sealed Roads Leader: Phil Paige-Green Introductory presentations; Sabita manual 10, 2011 – G van Zyl, Mycube The Africa Community Access Programme (AFCAP) experience – Rob Geddes, AFCAP</p>	Venue: To be advised
	<p>WS 2d: Measurement of Energy Saving and Reduced Emissions Leader: Krishna Naidoo Introductory Papers; The performance of environmentally beneficial asphalt products: Practical case study at OR Tambo International Airport over the last five years – Jannie Grobler, Arcus Gibb Low energy asphalt mixtures for sustainable and durable pavement solutions – Martin van de Ven, University of Delft</p>	Venue: To be advised
	<p>WS 2e: Pavement Design Approaches Leader: Wynand Steyn Introduction by Louw Kannemeyer and Fritz Jooste</p>	Venue: To be advised
12:30 - 13:30	Lunch	Venue: Exhibition area
13:30 - 15:30	Parallel Speciality Session 2	
	<p>PSS 2a: Development of human resources, systems and procedures for optimal preservation of road assets Chair: Arthur Taute Tendering for Professional Services: Both sides of the coin – Jaco Liebenberg, GHD Knowledge Management Maturity Assessment in the road engineering environment – Innocent Jumo, SSI Engineers Road management data assimilation and quality control of asphalt and bituminous pavements using GPR – Terence Milne, Aurecon Overview of a pavement management system in a toll road context – Douglas Judd, N3 Concessions and Fritz Jooste, Juno Services</p>	Venue: Monks Cowl
	<p>PSS 2b: Bituminous Binders Chair: Mike Zacharias Adjusting the Standard Rolling Thin Film Oven Procedure to Improve the Prediction of Short Term Ageing – Johan O’Connell, CSIR The use of the Dynamic Shear Rheometer (DSR) to predict the Penetration of Bitumen – Jacques van Heerden, Sasol Technology Fuels Technology The Use of an Extended Rolling Thin Film Ageing Method as an</p>	Venue: Ithaba

	<p>Alternative to Pressurised Ageing Vessel in the determination of bitumen durability – Johan Muller, Sasol Technology Fuels Research</p> <p>Effect of shear rate on bitumen viscosity measurements – Relevance to high temperature processing of bituminous products – George Mturi, CSIR</p>	
	<p>PSS 2c: Response and Damage Models Chair: Fenella Long Revision of damage models for asphalt pavements – Erik Denneman, CSIR The Long-Term Behaviour of Bitumen Stabilised Materials (BSMs) – Dave Collings, Loudon International Performance of Emulsion Treated Base (ETB) Layers in Pavements as determined from Heavy Vehicle Simulator (HVS) testing – Gerrit Jordaan, Tshepega Engineering Flexible stiffness and fatigue properties of warm mix asphalt – Alex Mbaraga, University of Stellenbosch</p>	Venue: Summit
15:30 - 16:00	Break	Venue: Exhibition area
16:00 - 18:00	Parallel Workshop Session 3	
	<p>WS 3a: Design of Hot Mix asphalt Leader: Benoit Verhaeghe Introductory Paper; GB5: Innovative Design of High-Performance Asphalt Mixtures for Long-Life and Cost Effective Pavements by Optimising Aggregate Packing and using SBS modified Bitumens - Francois Olard, EIFFAGE Travaux Publics The Development and Implementation of Cost Effective Coloured Bituminous Surfacing for High Performance Bus lanes: Case Study on Cape Town and other IRT Projects – Ian Bowker, Arcus Gib</p>	Venue: To be advised
	<p>WS 3b: Slurry Seal design – Sabita Manual 28 launch Leader: Kobus Louw Introductory Paper; Establishment of an Appropriate Slurry Seal Design Method for South Africa – Gerrie van Zyl, Mycube</p>	Venue: To be advised
	<p>WS 3c: Road Pavement Design Leader: Wynand Steyn Introductory Papers; Pavement Strength Balance and its Practical Implications - Eduard Kleyn, Consultant Recommendations regarding higher axle mass limits for axles fitted with wide base tyres - Michael Roux, CSIR</p>	Venue: To be advised
	WS 3d: Laboratory Practice	Venue: To be

	<p>Leader: Herman Marais Introductory Paper; Repeated load CBR test: A simple but effective tool for characterizing soils and unbound granular materials - André Molenaar, Delft University of Technology Development of Standard Test Methods for Determining Emulsion Bond Strength using the Bitumen Bond Strength Test – André Greyling, University of Stellenbosch</p>	advised
	<p>WS 3e: Performance Grading of Bitumen Leader: Kim Jenkins Introduction: Workshop leader and Martin van de Ven</p>	Venue: To be advised
19:00 - 23:00	<p>Gala Dinner All delegates and their registered partners are invited to the Gala Dinner which is the climax of the social programme for the Conference. The dress will be smart-casual or traditional</p>	Venue: Sentinel

Wednesday 14th September 2011		
08:00 - 10:00	Parallel Speciality Session 3	
	<p>PSS 3a: Materials Characterisation Chair: Benoit Verhaeghe Transfer of High Modulus Asphalt Technology to South Africa – Erik Denneman, CSIR Prediction of mechanical characteristics of cement treated demolition waste for road bases and subbases - André Molenaar, Delft University of Technology Application of Visco-Elastic Models for Flexible Pavement Analysis – James Maina, CSIR Resilient response characterization of hot-mix asphalt mixes for a new South African pavement design method – Erik Denneman, CSIR</p>	Venue: Sentinel
	<p>PSS 3b: Airport Pavements Chair: Steve Emery Cracking and Staining of an Airport Asphalt – Arno Hefer, Rubicon Solutions Development of optimal runway friction systems for Southern African international airports – Jannie Grobler, Arcus Gibb Novel measures to attenuate aggressive salt migration and crystallization on a Namibian airport runway construction – Emile Horak, Kubu Consultancy The development and performance of new Ultra-Thin Friction Course (UTFC) for OR Tambo International airport in South Africa – Pieter Molenaar, SSI Engineers</p>	Venue: Monks Cowl
10:00 - 10:30	Break	Venue: Exhibiton area
10:30 - 12:30	Parallel Speciality Session 4	
	<p>PSS 4a: Asphalt Mixtures Chair: Herman Marais Roughness as an important parameter in adhesion considerations – Martin van de Ven, Delft University of Technology Innovations on the Asphalt Mix Design for the Rehabilitation of National Route 3 between Mariannhill and Key Ridge - Jaco Liebenberg, GHD Evaluation of Performance of Asphalt Paving Mixes under Harsh Conditions using the MMLS3 – Fred Hugo, University of Stellenbosch Effect of sample geometry on bulk relative density of hot-mix asphalt mixes – Erik Denneman, CSIR</p>	Venue: Sentinel
	PSS 4b: Bitumen Stabilised Materials	Venue: Monks

	<p>Chair: Mike White</p> <p>Impacts of Cement Content on Properties of Foamed Asphalt Cold Recycling Mixtures – Jian Xu, Research Institute of Highways, Ministry of Transport, China</p> <p>6 Years of Foamed Bitumen Stabilisation in New Zealand: A Performance Review and Comparison to Overseas Practice – Allen Browne, Hiway Stabilizers New Zealand</p> <p>The use of Rigden voids and variations of the Ring and Ball test to determine the effect of filler sized material in sand emulsion mixes – Emile Horak, Kubu Consultancy</p> <p>The influence of temperature distribution and void characteristics on durability behaviour of Bitumen stabilized materials – Elias Twagira, University of Stellenbosch/Rwanda Transport Development Agency</p>	Cowl
12:30 - 13:30	Lunch	Venue: Exhibiton area
13:30 - 15:30	Parallel Workshop Session 4	
	<p>WS 4a: High Modulus Asphalt</p> <p>Leader: Benoit Verhaeghe</p> <p>Introduction; Workshop Leader</p>	Venue: To be advised
	<p>WS 4b: Surface Seal Design Options</p> <p>Leader: Kobus Louw</p> <p>Introductory Presentations; Gerrie van Zyl, Mycube and Kym Neaylon, ARRB</p> <p>Introductory papers:</p> <p>Sealing in Adverse Weather – Michael Bouwmeester, WSP Civils</p>	Venue: To be advised
	<p>WS 4c: Quality Systems</p> <p>Leader: Dennis Rossmann</p> <p>Introduction; Workshop Leader</p>	Venue: To be advised
	<p>WS 4d: Bitumen Supply</p> <p>Leader: Rob Vos</p> <p>Introduction; Workshop Leader</p>	Venue: To be advised
	<p>WS 4e: Matrials Characterisation</p> <p>Leader: Wynand Steyn</p> <p>Introductory papers:</p> <p>Evaluation of Resilient Modulus Models for a High Quality Crushed Stone – Wang Jingang, University of Stellenbosch</p> <p>Practical Guidelines used to Assist with the Accurate Characterisation and Modelling of Pavement Materials and Layers – P W de Bruin, Consultant</p>	Venue: To be advised
15:30 - 16:00	Break	

16:00 - 17:30	Closing Plenary Session	Venue: Sentinel
	<p>Chair: Phil Hendricks, CAPSA 11 Chairperson CAPSA07 was structured as an interim conference to address the challenges and provide solutions and a way forward for many of the outstanding industry issues debated and discussed during the Conference.</p> <p>Kim Jenkins and the Technical Coordinator for the Conference, Piet Myburgh will summarise and critically review the outcomes of CAPSA 11 and provide an assessment of whether progress has been made since CAPSA07</p>	
19:00 - 23:00	Social Function	Venue: To be advised
	All delegates and their registered partners are invited to the closing social function.	