PIARC International Seminar in New Delhi, India 17-19 February 2011
Strategic Theme A1 - Reducing the Carbon Footprint in Road Construction

Presentation of the Seminar Programme

Theme	Presenter	Title of presentation	Name of ppt. file
Theme 1	**Kamlesh Kumar** - Chief Engineer Government of India	Development of Road Infrastructure in India	Ministry 17.02.11.ppt
Theme 2	**Fei Den & Arnab Bandyopadhyay** - The World Bank	Review of a Toolkit for GHG Emissions Mitigation in Road Construction and Rehabilitation in East Asian Developing Countries	Arnab Bandyopadhyay.pptx
	Simon Price - Chair Technical Committee A1 - Director for Sustainability, Gifford LLP.	A Review of Worldwide Road Construction Carbon Accounting Practices and Outstanding Challenges	Simon Price.ppt
	Sunil Kumar - Road Construction Department, Bihar	IMPACT OF HIGHWAY WIDENING ON CARBON FOOT PRINT	Sumil Kumar Chaudhary.ppt
	Susanna Zammataro, Deputy Director General - IRF Geneva	CHANGER The IRF GHG Calculator for Assessing Emissions in Road Construction	Susanna Zammataro.ppt
Theme 3	**Dr P. K. Nanda** - Intercontinental Consultants and Technocrats Pvt. Ltd.	Carbon Footprint in Road Construction – A Comparative Study	Dr.P.K NandaCarbon footprint in road construction.pptx
	Dr Agnès Jullien - IFSTTAR	Theme 3: Road design for deacreasing the carbon footprint. "Envirnmental assessment of road pavements - the French experience"	Jullien_road_design(theme 3).pdf
	Jean-François Corté - Secretary General - World Road Association	Applying the concept of sustainable development to the construction of new pavements and optimization of subgrade and pavement design	SeminarA1-Delhi-JFCorte'.ppt
	Supriyo Choudhary - Strata Geosystems (India) Pvt.Ltd, Mumbai	“StrataWeb” Geocells – The Product and its Applications	Supriyo Choudhary IRC trataweb Geocells-presentation 170211.ppt
Theme 4	**Dr Sunil Bose, Ambika Behl, Girish Sharma, Gajendra Kumar** - Central Road Research Institute	Warm mix asphalt	Ambika Behl.pptx
	Etienne le Bouteiller, Executive Director & A.S Prabhakar - IBEF	Bitumen Emulsions and the Environment	Bouteiller Bitumen emilsions and the environment.pptx
	Jean Beauverd - Colas Suisse S.A	HT Thermal Solar	J.Beaverd.ppt
	Jacques Bonvallet, Blesson Varghese - FAYAT	Warm mix asphalt - Production of low-energy asphalt with continuous and/or batch mix production plants	JB Delhi FEB2011 Warm mixes.ppt

	Ron Stover - Vice Precident, Asia Pacific Speciality Chemical Devision	INTRODUCTION TO WARM MIX ASPHALT (WMA)	Mr Ron Stover MWV Reducing Carbon Footprint
	Sanjay Deori - Central Road Research Institute	Indian Experiences on Microsurfacing : An Innovative Technology for Reduction of Greenhouse Gas Emissions	Sanjay Deori Microsurfacing.pptx
	Ferhat Hammoum - IFSTTAR	WMA a new coating method to give the same performances as HMA, but with low temperature	WMA Piarc Seminar-IFSTTAE HammoumV2.ppt
Theme 5	**Joyanta Maity, Dr B.C Chattonpadhay** - Meghnad saha Institute of Technology, Kolkata & **Dr S.P Mukhejee** - Jadavpur University, Kolkata	Application of geo-naturals in Highway construction for mitigation of carbon footprint	(Joyanta Maity) Mitigation of carbon foot print in road const. Presentation.ppt
	Dr.S.Gangopadhyay,Prof.Asit Baran Mandal, Prof.Devadas Manoharan, Dr.C.Rose, Dr.U.Mani, C.Kamaraj - CSIR	SUSTAINABLE BLENDED CEMENT FOR REDUCTION OF CARBON FOOT PRINT: DERIVATIVE FROM TANNERY FLESHING AS A CONSTITUENT MATERIAL FOR ROAD CONSTRUCTION	C.Kamraj.pptx
	Dr Agnes Jullien, Adiran Capony, Michel Dauvergne, Tristan Lorino, Bogdan Muresan Paslaru - IFSTTAR	Theme 5: Use of local materials, Earthworks & Environment - a road case study	Capony_JULLIEN_materials(theme5).pdf
	Stephan Bernhard - EGIS	Main road RN7 in La Pacaudière (France) : A high performance treated capping layer at the limit of the specifications	Delhi 2011- BERNHARD-v2.ppt
	Michael Kedam - i-Tech-India	Use of Local Materials Local Soil, Recycled Materials, Reduced Cost, Shorter Project Completion Times	Reducing carbon footprint in road construction 2.ppt
	Shantanoo Bhattacharya, Executive Engineer - PWD, Assam	Application of the Vetiver system: Approach to a green road	Shantanoo bhattacharya Application of the Vetiver system IRC.ppt
	James Pappas - Delaware DOT- AAHSTO	"Use of Local Materials"	themes 5 (Jim pappas).ppt
Theme 6	**Keith Rogers -** ASI solutions PLC	Asphalt Preservation as a Means of Reducing Carbon Footprint in the Road Construction Industry	IRC Conference Feb 2011 final (Keith Rogers).ppt
	Er M C T PAREVA - Public Works Department, Govt of Delhi	Hot-In-Situ Recycling of Bituminous Roads In Delhi A Case Study	Hot-In-Situ Recycling of Bituminous Roads In Delhi A Case Study.pptx
	Jacques Bonvallet, Blesson Varghese - FAYAT	Typology of hot mix and warm mix recycling solutions in batch mix and continuous production plants	JB Delhi FEB2011 Recycling.ppt
	Mike Savonis, FHWA	The Benefits of Reclaimed Materials	Savonis_Reclaimed_Materials presentation.ppt
Panel discussion	**Simon Price,** Chair Technical Committee A1 - Director for Sustainability, Gifford LLP.	Simon Price Green Contracts&.ppt	Simon Price Green Contracts&.ppt
Corresponding Papers			
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Theme 2	Review of a Toolkit for GHG Emissions Mitigation in Road Construction and Rehabilitation in East Asian Developing Countries	2-3.pdf	**Fei Deng, Geoffrey Kungar, Deng Wang** - The World bank
	Green house gas from road project "Improvement of Gomti Beawar section NH 8" - a case study	2-4.pdf	**Dr P.K Nanda, ashutosh Chandwar, B.K Sahu** - IL&FS, TNL & ICT Pvt Ltd
	Determening the carbon footprint on road works with life cycle assessment methodology	2-5.pdf	**Johanne Hammervold and Helge Bratteb -** Norweigan University of Science and Technology
	Impact of Highway widening on carbon foot print	2-6.pdf	**Sunil Kumar Chaudhary** - Road construction deptt, Patna
	Determination of the carbon footprint on road work	2-7.pdf	**Pooja Mistry & Sandrip Mistry** - Dharmsinh Desai University
Theme 3	Carbon footprint in road construction a comparartive study of alternate constructions	3-1.pdf	**Dr.P.K Nanda, Madhava Reddy N** - ICT Pvt Ltd
	Applying the concept of sustainable development to the construction of new pavements and optimization of subgrade and pavement design	3-2.pdf	**Jean-François Corté** - World Road Association
	Envirnmental assessment of road pavements - the French experience	3-3.pdf	**Dr Agnès Jullien -** IFSTTAR
	Imperative of chemical admixtures and mineral additives in pavement construction	3-4.pdf	**Indrase Singh** - NICMAR
	StrataWeb Geocells: A three dimensional cellular confinement system for reduction of carbon footprint in road constructions	3-5.pdf	**Suprio Choudhury -** Strataweb Geosystems Pvt Ltd
Theme 4	Warm mix asphalt - paving towards a greener future	4.1.pdf	**M. von Deviere, R. Junhold** - Aspha-min Gmbtt
	Warm mix asphalt by adding synthetic zeolite	4.2.pdf	**Tejash Gandhi, Everett Crews** - MWV Specialty Chemicals
	Warm mix asphalt - Production of low-energy asphalt with continuous and/or batch mix production plants	4.3.pdf	**Jacques Bonvallet** - FAYAT, **Blesson Varghese** - Marini
	High temerature solar thermal energy for asphalts plants	4.4.pdf	**Pierre Bornet, Marc Maranzana** - Colas suisse
	Indian experiences on microsurfacing: an innovative technology for reduction of green house gas emission	4.5.pdf	**Sanjay Deori, BM Sharma, Yv Rao, S Gangopadhyay** - CRRI
	Warm bituminous mixes: road to sustainable development	4.6.pdf	**Sunil Rose, Ambika Behl, Girish Sharma, Gajendra Kumar** - CRRI
	Economic analysis of Soyaben based asphalt polymer for preventive maintenance of roads	4.7.pdf	**Abhishek Mittal, Dr Sunil Bose, Gajendra Kumar, Girish Sharma** - Central Road Research Institute
	Rewiev of warm mix asphalt	4.8 pdf	**Swapan Kumar Bagui** - Student at the Bengal enineering Science and Technology University
	Utilization of waste foundry sand for eco-friendly road construction	4.9 pdf	**K A Kolekar** - Government Polytechnic
	Chemical warm mix additive for enhanced property	4.10 pdf	**Logaraj Sundaram** - Akzo Nobel
	Reduction of carbon footprint by using WMA in highways sectors	4.11 pdf	**Rakesh Kumar** - Road Construction Deptt
	Utilization of natural fibre in stone matrix asphalt	4.12 pdf	**Arpita Suchismita, Mahabir Panda, Ujjal Chattaraj** - National Institue of Technology

	Development of sustainable roads with emulsion based cold mix high rainfall areas	4.13 pdf	**NKS Pundhir** - CRRI
Theme 5	Main road RN7 between La Pacaudiére and Changy (Loire, France): a high performance treated capping layer at the limit of the specifications	5.1. pdf	**S Bernhard** - Egis Route**, X Fayoux** - DREAL
	Sustainable blended cement for reduction of carbon foot print derived from leather fleshing as constituent material for road construction	5.3. pdf	**S Gangopayay, U Mani, C Kamaraj** - Central research Institute, **Asit Baran Mandal, C Rose** - Central Leather Research Institute**,** **Devadas Manharan** - Anna University of Technology
	Use of local materials - state of practise in USA	5.4.pdf	**Jim Pappas -** Delaware Department of transportation
	An enzyme based solution for reducing the carbon footprint in road construction in India	5.5.pdf	**Alon Globus, Michael Kedam** - I-Tec India
	Application of geo-naturals in highway construction for mitigation of carbon footprint	5.6.pdf	**Joyanta Maity, BC Chattopadhyay** - Meghnad Saha Instutute of Technology, **SP Mukherejee** - Jadavpur University
	Aplication of vetiver grass for erosion control: approach to a green road	5.7.pdf	**Shantanoo Bhattachararyya** - Eastern Vetiver Network India
	Subgrade stabilization through application of lime sludge	5.8.pdf	**AK Raji, V Sudha** - NSS College of Enineering, **KK Babu** - Jawharlal Institute of Technology
	Carbon footprint in road construction- a case study for jute geotextiles	5.9.pdf	**Tapobrata Sanyal** - Ministry of textiles, Gov India
	Use of alternate materials for aggregates in bitumious road construction - a technique for reducing carbon footprint	5.10.pdf	**AK Raji, V Sudha** - NSS College of Enineering, **KK Babu** - Jawharlal Institute of Technology
	Use of innovative soil stabilizer and pavement material for reducing carbon footprint	5.11.pdf	**Anakul Saxen** - Alchemist Technology Ltd, **Satander Kumar** - CRRI
	Construction of embankment using copper slag waste material	5.12.pdf	**VG Havanagi, AK Sinha, S Mathur** - Central Road Research Institute
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	Saving non renewable resources using recycling processes	6.2.pdf	**Etienne Le Bouteiller** - COLAS S.A
	Typology of hot miw and warm mix recycling solutions in batch mix and continous production plants	6.3.pdf	**Jacques Bonvallet** - FAYAT, **Blesson Varghese** - Marini
	Asphalt preservations as a means of reducing carbon footprint on road construction industry	6.4.pdf	**Keith Rogers** - ASI Solution Plc**.**
	Reducing carbon footprint through recycling asphalt pavements	6.5.pdf	**Prtihvi Singh Kandhal** - National Center of Asphalt Technology, Auburn University Alabama
	A technique to dispose waste plastics in an ecofriendly way - application in construction of flexible pavement	6.6.pdf	**R Vasudevan, A Ramalinga, B Sundarakannan, R vekennedy** - Deptt of Chemistry, College of Engineering