



December 9 – 10, 2013
2013 IJP - INTERNATIONAL JOURNAL OF PAVEMENTS CONFERENCE - São Paulo, SP, Brazil

Monday, 9th DECEMBER

8:00 - 9:00				Registration	
9:00 - 10:15				OPENING CEREMONY	
9:00 - 9:10				IJP Presentation	
9:10 - 9:20				ANDIT Presentation	
9:20 - 10:00				Keynote Lecture 1: Preserving The Environment in Extraction and Transportation of Natural Resources for Societal Needs - Roberto Gurgel de Souza - Design Consultant Engineer - Department of Engineering - GUE/MRN – Miner "Rio do Norte" - Brazil	
10:00-10:15				Discussion	
10:15-10:45				Coffee Break	
10:45-11:25				Keynote Lecture 2: Modern Construction and Maintenance Technologies for Durable and Sustainable Asphalt Pavements - Dr. David Woodward - Infrastructure Engineering, University of Ulster, UK	
11:25 - 11:35				Discussion	
11:35 - 12:15				Keynote Lecture 3: Geospatial Technologies for Highway Asset Management and Natural Disaster Risk Reduction Planning - Professor Waheed Uddin, University of Mississippi, USA	
12:15-12:25				Discussion	
12:25-12:30				Announcements	
12:30-14:00				Lunch	
		ROOM 1		ROOM 2	
Session 1		President: Dr. Waheed Uddin - USA		Moderator: Dr. David Woodward - Northern Ireland	
14:00	102-1	Brazil	Performance study over the use of reinforced flexible pavement with steel mesh in overlay on a SP 354 road, São Paulo, Brazil . <i>Rita Moura Fortes et al., Mackenzie Presbyterian University, São Paulo, Brazil</i>	14:00 to 16:00	Workshop: FAA - Federal Aviation Administration PAVEAIR Web-based Pavement Management software for Airports
14:15	103-1	Switzerland	Bond performance and crack development of reinforced asphalt pavements. <i>Christiane Raab; Martin Arralgada ; Manfred N. Partl. Engineering/Sealing Components, Empa, Swiss Federal Laboratories for Material Science and Technology, Duebendorf, Switzerland.</i>		
14:30	108-1	Germany	General requirements for ballastless rail-trackforms. Asphalt and concrete pavement design. <i>Bernhard Lechner. Lecturer and Senior Researcher, Chair and Institute of Road, Railway and Airfield construction.</i>		
14:45	171-1	Brazil	Pavement design of the airplane parking and taxiway areas of Salgado Filho international airport in Porto Alegre. <i>Washington Peres Núñez ; Angela Gaio Graeff; Luiz Carlos Pinto da Silva Filho. Federal University of Rio Grande do Sul, Porto Alegre, Brazil.</i>		
15:00	178-2	Canada	Impacts of using alternative performance indices on road asset value assessment. <i>Li Ningyuan; Susan Tighe; Amin Hamdi . University of Waterloo, Ontario, Canada.</i>		
15:15	154-1	China	Study on structure of PZT piles based transducer for harvesting energy from asphalt pavement. <i>Hongduo Zhao; Luyao Qin; Yujie Tao; Jianming Ling. Tongji University, China.</i>		
15:30	142-2	China	A performance prediction model for airport pavements Based on Bayesian analysis of random effects. <i>Jianming Ling; Zengming Du; Hao Du. Tongji University, Shanghai, China.</i>		
15:45			Discussion		
16:00-16:20		Coffee Break		ROOM 2	
Session 2		President: Dr. Rita Moura Fortes - Brazil		Moderator: Dr. Bernhard Lechner - Germany	
16:20	135-1	Malaysia	Improving road durability using Modified asphalt in malaysia: How its works? <i>Razali, Roziawati; Zakaria, Sufyan. Public Work Department, Kuala Lumpur, Malaysia.</i>	16:20 to 17:30	Workshop: FAA - Federal Aviation Administration PAVEAIR Web-based Pavement Management software for Airports
16:35	147-1	India	Performance characteristics of asphalt concrete mix modified with glass fibres. <i>Manoj Shukla; Devesh Tiwari; K. Sitaramanjeyulu.. Central Road Research Institute New Delhi India.</i>		
16:50	156-1	Brazil	Influence of mineral filler on volumetric properties of hot mix asphalt. <i>Vivian Silveira dos Santos Bardini; José Leomar Fernandes Júnior; Luis Miguel Gutiérrez Klinsky. Universidade de São Paulo, São Carlos and Centro de Pesquisas Rodoviárias – Grupo CCR, Brazil.</i>		
17:05	167-1	USA	Evaluation of a warm mix asphalt additive using direct contact angle measurements. <i>Murat Kac; Rifat Bulut. School of Civil and Environmental Engineering, Oklahoma State University, OK, USA.</i>		
17:20	220-1	Northern Ireland	Use of retained stiffness to predict asphalt durability. <i>Ruth Mitchell; David Woodward; Donal Ryan. University of Ulster, Newtownabbey, Northern Ireland.</i>		
17:35	183-1	Iran	Quantification of parameters affecting moisture resistance of warm mix asphalt using response surface methodology. <i>Amir Kavussi; M. Qorban; A. Khodai; H.F. Haghshenas. Tarbiat Modares University, Amirkabir, University of Technology and Centre for Excellence on Pavements, Tehran, Iran.</i>		
17:50			Discussion		
18:00 - 19:00				"Book Signing Event" for McGraw-Hill, 2013 Public Infrastructure Asset Management book. Waheed Uddin; W. Ronald Hudson and Ralph Haas.	
19:00 - 20:00				Meeting of IJP editorial board members present at conference and invited guests	
20:00-22:00				WELCOME RECEPTION	

ROOM 1				ROOM 2			
Session 3		President: Dr. Jianming Ling - China Moderator: Dr. Meor Othman Hamzah - Malaysia		Session 4		President: Dr. Moshe Livneh - Israel Moderator: Mr. Jeff Gagnon - USA	
8:00	126-3	Canada / USA	Long term sustainability of road networks requires more than being green. <i>Ralph Haas; W. Ronald Hudson; Waheed Uddin; Lynne Cowe Falls. University of Waterloo, Ontario; University of Calgary, Calgary, Canada. Agile Assets, Austin, Texas. The University of Mississippi, Mississippi, USA</i>	159-1	USA		Comparison of contact angle measurements on granite with respect to surface roughness. <i>Anjana Thorappady Kittu; Rifat Bulut; Sandip Harimkar. Oklahoma State University, USA</i>
8:15	161-1	Brazil	The application of the MSCR test on the rheological characterization of asphalt binders modified with EVA and PPA. <i>Mathews David Inocente Domingos; Adalberto Leandro Faxino. University of São Paulo, São Carlos, Brazil.</i>	172-1	USA		Variation of contact angles with various polishing stages on pryor stone limestone. <i>Suryadithya Rayudu; Rifat Bulut. Oklahoma State University, USA.</i>
8:30	163-1	Brazil	Flexible pavements – structural evaluation based on deflection basin parameters. <i>Flaviane Melo Lopes; Rita Moura Fortes; Carlos Yukio Suzuki. University of Campinas, Campinas; Mackenzie University, São Paulo; University of São Paulo, São Paulo, Brazil.</i>	137-1	Poland		Effect of hydrated lime on rheological properties of extracted bitumen and on the rut resistance of SMA. <i>Marekwański; GrzegorzMazurek. Kielce University of Technology, Kielce, Poland.</i>
8:45	118-2	Brazil	Crack pattern characterization in a short experimental continuously reinforced concrete pavement. <i>Lucia Salles de Salles; José Tadeu Balbo, School of Engineering, University of São Paulo, Brazil. Deividi da Silva Pereira, Federal University of Santa Maria, Brazil.</i>	215-2	Brazil		Castor oil: a green additive for hot asphalt mixtures. <i>Leonardo José S. de Souza; John Kennedy G. Rodrigues; Dennyelle A. Gama; Lêda Christiane de F. L. Lucena; José de Arimatéia A. Silva. Universidade Federal de Campina Grande, Campina Grande, Brazil.</i>
9:00	203-1	Switzerland	Investigation of asphalt bridge deck systems. <i>Christiane Raab; Manfred N. Partl. Empa, Duebendorf, Switzerland.</i>	139-1	USA/ India		Asphalt rubber aging properties compared to neat asphalt. <i>George B. Way; Krishna Prapoorna Billigiri. RAF, USA. Indian Institute of Science, Bangalore, INDIA.</i>
9:15	168-1	Brazil	A study of asphalt mixtures reinforced with coconut fibers in Brazil. <i>Camila Nascimento Padilha Silva; Kissyla Ávila Costa; Antônio Carlos Rodrigues Guimarães. IME - Military Institute of Engineering, Rio de Janeiro, Brazil.</i>	140-1	USA/ India/ Brazil/ China		Review of international use and technology of asphalt rubber open graded friction course mixes. <i>George B. Way; Krishna Prapoorna Billigiri; Kamil Kaloush; Jorge Sousa; Angelo Pinto; Rangji Cao. RAF, USA; Indian Institute of Science, Bangalore, INDIA; Arizona State University, Arizona, USA; CEO, Consulpav International, Walnut Creek, California, USA; Rio de Janeiro State, Highway Department; Jiangsu Transportation Research Institute, Nanjing, China</i>
9:30	219-1	Northern Ireland, England	Use of close range photogrammetry to assess the micro-texture of asphalt surfacing aggregate. <i>Grainne McQuaid; Phillip Millar; David Woodward; Shaun Friel. University of Ulster, Newtownabbey, Northern Ireland. Mouché, Sutton Coldfield, England.</i>	227-1	the Netherlands		Study of the variables in laboratory testing of cement stabilized materials. <i>Pengpeng Wu; L.I.M. Houben; Christophe Eyged.</i>
9:45	Discussion			Discussion			
10:00-10:30	Coffee Break						
Session 5		President: Dr. Ralph Haas - Canada Moderator: Dr. Hongduo Zhao - USA		Session 6		President: Dr. W. R. Hudson - USA Moderator: Dr. Christiane Raab - Switzerland	
10:30	114-1	Israel	On the accuracy of laboratory swelling tests and its implication. <i>Noam A. Livneh; Mashe Livneh. Noam Livneh engineering; Technion-Israel Institute of Technology, Haifa, Israel.</i>	125-1	Italy		Predicting tire/pavement noise impact reduction using numerical simulation and experimental data for open graded asphalt mixture. <i>Andrea Umiliaco; Andrea Benedetto; Gaetano Di Mina; Giuseppe Radanò. Roma Tre University, Rome, Italy; University of Palermo, Palermo, Italy</i>
10:45	117-1	Malaysia	Factors influencing strength of foamed bitumen stabilised mix. <i>Mohd Yazip Motori; Dr. Mohd Rosli Hainin. Ikrum Centre for Advanced Materials and Technology (ICAMT); Kajang, Selangor. University Teknologi Malaysia (UTM), MALAYSIA.</i>	209-3	Brazil/ Germany		The use of warm asphalt in Amazon region - A study. <i>João Virgílio Merighi; Rita Moura Fortes; Roberto de Souza Gurgel; Jürgen Hutschenreuther. Mackenzie Presbyterian University; Mineração Rio do Norte - MRN - Porto de Trombetas, PA, Brazil. Bahaus Weimar Univerdity and Dr. Hutschenreuther Ingenieurgesellschaft für bautechnische Prüfung mbH Germany.</i>
11:00	121-1	Canada	Quality assurance testing of asphalt containing waste engine oil. <i>Simon A.M. Hesp; Herbert F. Shurvell. Queen's University, Kingston, Ontario, Canada.</i>	174-1	Brazil		An analysis of the use of a transition slab to bridge approaches in Brazil. <i>Cassio Eduardo Lima de Paiva ; Leandro Cardoso Trentin. Universidade Estadual de Campinas, Campinas, Brazil</i>
11:15	122-2	USA	Use of BBR test data to enhance the accuracy of G* -based Witczak model predictions. <i>Mekdim T. Weldegiorgis; Hasan M. Faisal; Rafiqul A. Tarefder. University of New Mexico, New Mexico, USA.</i>	175-1	Republic of Korea		Effect of pavement design parameters on the behaviour of orthotropic steel bridge decks. <i>Taewoo Kim ; Jongeun Baek; Hyun Jong Lee; Boail Kim; Hee Mun Park; Won Jae Kim. Korea Institute of Construction Technology; Sejong University, Republic of Korea.</i>
11:30	130-1	Malaysia / USA	Binder flow due to gravitational forces in asphalt mixes. <i>M.O. Hamzah; Z. F. Mohamed Jaafar; M. R. Mohd Hasan; S. S. M. Tahir. A. Shingani, and S. H. A. Talib; S. S. M. Tahir. School of Civil Engineering, Universiti Sains Malaysia; University of Mississippi, USA; University of Michigan, USA; Politeknik Sultan Idris Shah, Sabak Bernam, Selangor, Malaysia.</i>	192-1	Colombia		Application of the hypoplasticity theory in the concrete block pavement modeling – use of plaxis. <i>Claudia Yaneth Acero Alvarez; Luis Carlos Leguizamón. nstituto Nacional de Vías - INVIAS, Bogotá. Universidad Pedagógica y Tecnológica de Colombia, Tunja. Universidad Javeriana, Colombia.</i>
11:45	148-1	Brazil	Comparative study between the short and long time effect of Brazilian asphalt binder aging. <i>Kissyla Ávila Costa; Camila Nascimento Padilha Silva; Cloudeyn Simone Alves Santana; Antônio Carlos Rodrigues Guimarães. Instituto Milltar de Engenharia, Rio de Janeiro, Brazil</i>	166-1	Malaysia		In situ, immediate and reliable testing works: challenge in quality control for pavement works in Malaysia. <i>Hamzah Hashim; Hafeza Dzulieonaa Md Puzi. Public Works Department of Malaysia, Kuala Lumpur, Malaysia.</i>
12:00	Discussion			Discussion			
12:15 to 13:00	Lunch						
Session 7		President: Engr. Eduardo Ricci - Brazil Moderator: Dr. Amir Kavussi - Iran		Session 8		President: Dr. Liedi Légi Bariani Bernucci - Brazil Moderator: Dr. José Leomar Jr. - Brazil	
14:00	131-1	Malaysia	Field studies on asphalt mixes incorporating crumb rubber. <i>Aniza Adnan; Mohd Hizam Harun. Public Works Department, Malaysia.</i>	169-3	Italy / South Africa		Re-use of granite by-products for road construction. <i>James Rombi; Valentina Zedda; Alessio Conti; Andreina Etzi; Silvia Portas; Mauro Cani. University of Cagliari, Italy. University of Kwazulu-Natal, Durban, South Africa.</i>
14:15	158-2	India	Vehicle operating cost updation for monetary evaluation of road projects in India. <i>Kunal Jain; S.S.Jain; M.P.S.Chauhan. Indian Institute of Technology, Roorkee. G.B.Pant College of Engineering & Technology, Pauni Garwal, India.</i>	181-3	Australia		Environmental indicators for sustainable road development and operation. <i>Shafiqul Alam; Arun Kumar. Queensland University of Technology, Brisbane, Australia.</i>
14:30	199-1	Canada / Egypt	Wettability, surface tension and surface free energy behavior of short-term aging and liquid antistrips modified HMA binders. <i>Jean-Luc Lambert; Ahmed Shalaby; Mahmoud Enieb. University of Manitoba, Winnipeg, MB R3T 5V6, Canada; Assiut University, faculty of Engineering, Assiut, Egypt.</i>	211-3	USA / Malaysia		Achieving sustainability without compromising long-term pavement performance for road infrastructure assets. <i>Waheed Uddin; Zul Fahmi Mohamed Jaafar. Center for Advanced Infrastructure Technology (CAIT); University of Mississippi, USA. Formerly, USM, Pinang, Malaysia</i>
14:45	182-2	USA	On the durability of asphalt pavements due to excessive permeability. <i>Rafiqul A. Tarefder; Mohiuddin Ahmad. University of New Mexico, New Mexico, USA.</i>	190-3	China		Research on industrial waste boron mud application in road base. <i>Chenglin Shi; Yongbo Tan. JILIN Provincial Communication Scientific Research Institute, Changchun, Jilin, China.</i>
15:00	193-1	China	Study on the frost resistance stability for volcanic ash road subgrade. <i>Zhiguo Chen; Honghe Ren; Shujuan Wang. Jilin Provincial Transport Science and Research Institute, Changchun, Jilin, China.</i>	222-3	Canada		Improved cold-in-place recycling with expanded asphalt mix (CIREAM). <i>Samuel Abiodun; Simon A.M. Hesp; Zac; hary Moore; Stephanie Smith. Queen's University, Kingston, Ontario, Canada.</i>
15:15	226-1	USA	Field measurements of pavement responses under super heavy load. <i>Qiao Dong; Baoshang Huang. University of Tennessee at Knoxville, USA.</i>	189-3	China		Research into classification indexes for use of coal gangue in chinese road engineering. <i>Yongbo Tan; Chenglin Shi. JILIN Provincial Communication Scientific Research Institute, Changchun, Jilin, China.</i>
15:30	Discussion			Discussion			
16:00-16:20	Coffee Break						
Session 9		President: Dr. Roberto Gurgel de Souza - Brazil Moderator: Dr. João Virgílio Merighi - Brazil		Session 10		President: Dr. Simon Hesp - Canadá Moderator: Dr. Antonio Fortunato Marcon - Brazil	
16:20	204-1	Chile	In-situ concrete pavement recycling using resonant breaker technology, rubblizing: experience in Latin-American projects. <i>Guillermo Thenoux; Gonzalo Sandoval; Marcelo González. Universidad Católica, Santiago, Chile .</i>	221-1	Northern Ireland		Predicting the skid resistance of concrete. <i>David Woodward; Sandra Orr; Mathew Dillon. University of Ulster, Newtownabbey, Northern Ireland.</i>
16:35	217-1	China	Application of volcanic ash material in pavement base. <i>Zhiguo Chen; Limei Yu; Chunmei Cao; Jia Ren. Jilin Provincial Transport Science and Research Institute, Changchun, Jilin, China.</i>	160-2	USA / Canada		Pavement design or pavement management? Good design is not enough. <i>Waheed Uddin; Ralph Haas; W. Ronald Hudson. Center for Advanced Infrastructure Technology (CAIT), University of Mississippi, USA. University of Waterloo, Ontario, Canada. AgileAssets, Inc., Austin, Texas, USA.</i>
16:50	200-1	Canada / Egypt	Effect of moisture conditioning on creep compliance and resilient modulus of asphalt concrete. <i>Jean-Luc Lambert; Ahmed Shalaby; Mahmoud Enieb. University of Manitoba, Winnipeg, MB R3T 5V6, Canada; Assiut University, faculty of Engineering, Assiut, Egypt.</i>	210-2	Brazil		The use of calibrated HDM performance models in CCR SPVias for pavement management. <i>Felipe F. Camargo; Octavio de Souza Campos; Santi Ferri; Douglas P. Negrão; Margaret Brandão Ticianelli.Dynatest, São Paulo, Brazil; Agência de Transporte do Estado de São Paulo - Artesp, São Paulo, Brazil; CCR – SPVias, São Paulo, Brazil.</i>
17:05	202-1	Italy	Model for estimating temperatures in concrete pavements. <i>Laura Moretti; Paola Di Mascio. La Sapienza University, Rome, Italy.</i>	218-2	USA		Asset management optimization models: model size reduction in the context of pavement management system. <i>Abhishek Bhargava; Alexander Galenko; Tonya Scheinberg. AgileAssets Inc. (PKA Texas Research and Development Inc.); USA.</i>
17:20	132-1	Malaysia	Asphaltic concrete as road surfacing material in Malaysia: How do we assure quality? <i>Nur Maira Adila binti Othman; Hanani binti Mohamed Radzi; Mohd Hizam bin Harun. Public Works Department, Malaysia.</i>	195-2	China		Safety evaluation criteria and early warning system of road subgrade. <i>Dongfeng Chen; Weijun Qin; Chunyu Zheng; Shujuan Wang; Jianming Ling. Jilin Provincial Transport Science and Research Institute, Changchun, Jilin. Tongji University, Shanghai, China.</i>
17:35	133-1	Malaysia	Quality control on bitumen delivered to road construction sites. <i>Adly Dasril; Nurul Aida Jasni. Public Works Department, Malaysia.</i>	196-2	China		Safety risk determining and data processing of road subgrade. <i>Dongfeng Chen; Weijun Qin; Chunyu Zheng; Shujuan Wang; Jianming Ling. Jilin Provincial Transport Science and Research Institute, Changchun, Jilin. Tongji University, Shanghai, China.</i>
17:50	Discussion			Discussion			
18:05	Discussion			Discussion			
18:30	Closing Session: Announcement of 2015 IJPC venue						
20:00-22:00	Conference Banquet						