

P13: Challenges and Opportunities in Developing Sustainable Asphalt Pavement
Youngsoo Richard Kim, (USA)

P14: Decision Making in an Asset Management Environment: Data and Tools
Omar Smadi, (USA)

Coffee Break

Room: Ballroom Time: 10.50-12.10 Chair: Mohd Rosli Hainin (Malaysia)	Room: Meeting Room1 Time: 10.50-12.10 Chair: Dr. Auckpath Sawangsurriya (Thailand)	Room: Meeting Room2 Time: 10.50-12.10 Chair: Ghim Ping Ong (Singapore)	Room: Auditorium Time: 10.50-12.10 Chair: Nagato Abe (Japan)
A101 Materials	A201 Testing and Evaluation	A301 Design and Analysis	A401 Materials
WMA workability and application Vincent Guwe (India)	The permanent deformation criterion of unbound granular materials (UGMS) layer Komsun Siripun (Australia)	A basic study on interaction between vehicle dynamics and dynamic load taking into account of pavement damage Masakazu Jomoto (Japan)	Thermal susceptibility and low temperature cracking potential of different sources of asphalt binders Mohreh Saleh (New Zealand)
A102 Materials	A202 Testing and Evaluation	A302 Design and Analysis	A402 Materials
Effect of changing theoretical maximum specific gravity on asphalt mixture design Mohamed Elsayed (Egypt)	The unbound granular base course design with ultimate strength concept Komsun Siripun (Australia)	Structural design and sensitivity analysis of semi-rigid pavement of a motorway Piotr Jaskula (Poland)	Comparison of RUT and fatigue resistances of AC mixtures using three types of asphalt binder Tunwin Svadsisant (Thailand)
A103 Materials	A203 Testing and Evaluation	A303 Design and Analysis	A403 Materials
Optimization of mechanical properties of cement treated demolition waste Andre Moleanaar (Netherlands)	Evaluation of IN-SITU subgrade strength for low volume roads Shankar Sabavath (India)	Concrete pavement slabs on bonded and unbonded base - modeling and experimental verification Kitti Manokhoo (Thailand)	Effect of Aggregate size on strength of recycled aggregate concrete pavement Heeralal Mudavath (India)
A104 Design and Analysis	A204 Testing and Evaluation	A304 Design and Analysis	A404 Materials
Stress and strain distribution in TAR-Containing antiskid layers of runways Andre Moleanaar (Netherlands)	Non-destructive testing and assessment of an airport pavement in western Australia Srijib Chakrabarti (Australia)	Mechanical analysis of asphalt pavement on bridge deck considering solar radiation Jingyun Chen (China)	Development and application of high durable grout for airport PC pavement Masaki Kitazume (Japan)

12.10-13.20 Lunch

Room: Ballroom Time: 13.20-14.40 Chair: Dr. Chayatan Phromsorn (Thailand)	Room: Meeting Room 1 Time: 13.20-14.40 Chair: Dr. Montri Dechasakulsom (Thailand)	Room: Meeting Room 2 Time: 13.20-14.40 Chair: Mang Tia (USA)	Room: Auditorium Time: 13.20-14.40 Chair: Mujib Rahman (UK)
B101 Construction	B201 Testing and Evaluation	B301 Design and Analysis	B401 Materials
An accurate and efficient quality and better workmanship control of asphalt pavement construction using an innovative profiler Katsura Endo (Japan)	A holistic approach to testing & evaluation hot mix asphalt (HMA) Con Sinadinos (Australia)	3D FEM Modeling of conventional block paving & how mechanically interlocking pavers can be a viable alternative David Yong (Australia)	Characteristics of hydrated cement treated crush rock base (HCTCRB) for Western Australian roads Suphat Chammuneerat (Thailand)
B102 Construction	B202 Testing and Evaluation	B302 Design and Analysis	B402 Materials
Green & Quality rural roads in Malaysia David Daud (Singapore)	Temperature prediction model for flexible pavement of freeways in Taiwan Wei-Hsing Huang Taiwan	Modeling tire-pavement contact pressure distribution under rolling conditions Ghim Ping Ong (Singapore)	DSC constitutive modeling of hydrated cement treated crushed rock base as a road base material for Western Australian roads Pakdee Khobklang (Australia)
B103 Planning and Financing	B203 Testing and Evaluation	B303 Design and Analysis	B403 Materials
Factors influencing decision making process of transportation infrastructure project in natural extreme condition: A case study of Semarang-Solo toll road project Ferry Hermawan (Indonesia)	Study of moisture sensitivity of some aggregates in asphalt mix Animesh Das (India)	Study on effects of nonlinear distribution and slab thickness on thermal stress of airport concrete pavement Yukitomo Tsubokawa (Japan)	Experimental evaluation of recycled asphalt properties JingYun Chen (China)
B104 Planning and Financing	B204 Testing and Evaluation	B304 Design and Analysis	B404 Materials
Introduction of the life cycle costing factor of road infrastructures for the optimization of budgeting and investment decisions Markus Hoffman (Austria)	Basic study on structural evaluation to pavement on jacket type pier use of FWD test Futoshi Kawana (Japan)	Mechanistic method for flexible pavement design in Australia Srijib Chakrabarti (Australia)	The development and the performance of the high stability asphalt mixture Nagato Abe (Japan)

14.40-15.00 Coffee Break

Room: Meeting Room 1 Time: 15.00-16.40 Chair: Hussain Bahia (USA)	Room: Meeting Room 2 Time: 15.00-16.40 Chair: Omar Smadi (USA)	Room: Auditorium Time: 15.00-16.40 Chair: Dr. Boonchai Sangpetngam (Thailand)
C201 Operational Characteristics and Performance	C301 Design and Analysis	C401 Materials
Characteristics of Egyptian rural road roughness Mohamed Elsayed (Egypt)	An overview of recent development of asphalt pavements in Thailand Nawapol Brahmajaree (Thailand)	Performance of asphaltic concrete using steel slag aggregate Mohd Anwar Sahul Hamed (Malaysia)
C202 Operational Characteristics and Performance	C302 Design and Analysis	C402 Materials
Improved winter maintenance in (Austria) salt application recommendations for winter maintenance personal and driving recommendations for road users Markus Hoffman (Austria)	Modeling of flexible pavements with thin bituminous surfacing using linear elastic theory and finite element method Rudi Van Staden (Australia)	Stability of runway grooving under repeated large aircraft loads Naoya Kawamura (Japan)
C203 Operational Characteristics and Performance	C303 Economic and Environmental Issues	C403 Materials
Warm mix asphalt test sections in Thailand Pichit Jamnongpipatkul (Thailand)	Use of recycled concrete aggregate for the construction of aircraft stand rigid pavement at (Singapore) CHANG HI Airport Yang Pin Kelvin Lee (Singapore)	Characterization of asphalt mixture stress-strain behavior on push-pull fatigue tests and visco-elastic analyses Ryota Maekawa (Japan)
C204 Operational Characteristics and Performance	C304 Economic and Environmental Issues	C404 Materials
Truck traffic volume distributions and axle load spectra from weight-in-motion data Yi Jiang (USA)	Highway junction design for energy efficiency Mujib Rahman (UK)	Zycoosil nanotechnology for asphalt road paving Prakash Mehta (India)
C205 Operational Characteristics and Performance	C305 Economic and Environmental Issues	C405 Materials
Evaluation the effectiveness of pavement groove patterns in hydroplaning control Ghim Ping Ong (Singapore)	Investigation of novel methods to harvest solar energy from asphalt pavements Kang-Won Lee (USA)	Mix Design for Cement grouted bituminous mix Animesh Das (India)