

EATA 2017 Draft Program

Monday, June 12th, 2017

	Opening Session and Key Note Lecture
Welcome address of	Directors of Empa, EATA, ASTRA Chief Engineer of Canton Zürich
Dr. Thijs Defraeye Empa	Key Note Lecture
	Session 1: Field Issues
Kawakami, A.; Ishigaki, T.; Shirai, Y.; Terada, M.; Kubo, K.	Evaluation Method of Pavement Surface Characteristics for Rolling Resistance
Ferrotti G.; Graziani, A.; Canestrari, F.; Cardone, F.	Time-temperature superposition principle for interlayer shear strength of bituminous pavements
Ghafoori Roozbahany, E.; Partl, M.N.; Guarin, A.	Introducing a new method for studying the field compaction
Aboufoul, M.; Garcia, A.	Influence of air voids characteristics on the Hydraulic conductivity of asphalt mixture
	Session 2: Recycling of Asphalt Mixtures
Makowska, M.; Aromaa, K.; Pellinen, T.	The rheological transformation of bitumen during the recycling of repetitively aged asphalt pavement
Porot L., Broere D., Wistuba M., Grönniger J.	Asphalt and binder evaluation of asphalt mix with 70 % Reclaimed Asphalt
Hugener, M.; Kawakami, A.	Simulating repeated recycling of hot mix asphalt
Sánchez, D.B.; Grenfell, J.; Airey, G.; Caro, S.	Evaluation of the degradation of fine asphalt-aggregate mixtures containing high Reclaimed Asphalt Pavement (RAP) contents
	Session 3: Binder Properties
Hofko, B.; Cannone Falchetto, A.; Grenfell, J.; Huber, L.; Lu, X.; Porot, L.; Poulikakos, L.; You, Z.	Effect of short-term ageing temperature on bitumen properties
Dasek, O.; Stoklasek, S.; Coufalik, P.; Hyzl, P.; Varaus, M.	Thermooxidative Properties of Bituminous Binders in Relation to Their Inner Chemical Compatibility Determined by Single Point Precipitation Titration
Tabatabaee, H.A.; Kurth, T.L.	Analytical Investigation of the impact of a novel bio-based recycling agent on the colloidal stability of aged bitumen
	Poster Session and Reception (NEST)

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	Session 4: Cyclic Loading & Healing
Ahmed, T.M.; Green, P.L.; Khalid, H.A.	Predicting Fatigue Performance of Hot Mix Asphalt using Artificial Neural Networks
Riahi, E.; Allou, F.; Botella, R.; Fakhari Tehrani, F.; Dubois, F.; Absi, J.; Petit, Ch.; Pérez-Jiménez, F.E.	Modeling self-heating and thixotropy phenomena under the cyclic loading of asphalt
Norambuena-Contreras, J.; Garcia, A.	Crack-healing evaluation of fibre-reinforced asphalt mixtures using microwave and induction heating
Babadopulos, L.F.A.L.; Sauzéat, C.; Di Benedetto, H.	Softening and Local Self-heating of Bituminous Mixtures During Cyclic Loading
	Session 5: Bitumen Testing
Autelitano, F.; Garilli, E.; Pinalli, R.; Montepara, A.; Giuliani, F.	The odour fingerprint of bitumen
Abd, D.M.; Al-Khalid, H.; Akhtar, R.	Nano-scale Properties of Warm-Modified Bituminous Binders Determined with Atomic Force Microscopy
Aguiar-Moya, J.P.; Salazar-Delgado, J.; García, A.; Baldi-Sevilla, A.; Bonilla-Mora, V.; Loria-Salazar, L.G.	Effect of aging on micromechanical properties of bitumen by means of atomic force microscopy
Mikhailenko, P.; Kadhim, H.; Baaj, H.	Observation of Bitumen Microstructure Oxidation and Blending with ESEM
	Session 6: Mechanics of Mixtures
Cannone Falchetto, A.; Ki Hoon Moon, K.H.; Michael P. Wistuba, M.P.	An alternative method for computing thermal stress in asphalt mixture: the Laplace transformation
Jiménez del Barco Carrión, A.; Lo Presti, D.; Pouget, S.; Airey, G.; Chailleux, E.	Linear viscoelastic properties of high reclaimed asphalt content mixes with biobinders
Remya Varma K., R.; Padmarekha, A.; Ravindran, P.; Bahia, H.U.; Krishnan, M.J.	Evolution of energy dissipation during four point bending of bituminous mixtures
Haselbauer, M.; Manhart, M.	Flow conditions in porous asphalt layers
	Session 7: Industry Session
Demarmels, A.; Fierz, R.; Boesiger, L.	Mixing Plant Design for High RAP Processing
Takahashi, S.	Field Survey Project to Identify the Important Key Factors for Long Term Durability of Asphalt Pavement on the Expressways in Japan
Abd El Halim, O.A.H.; Pinder, F.; Bashir, I.; Tayyeb, H.	Improving the Quality of Bridge Asphalt Lanes with the Use of Asphalt Multi-Integrated Roller
	Banquet Dinner

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	Session 8: Damage Issues
Riccardi, Ch.; Jimenez del Barco Carrion, A.; Lo Presti, D.; Losa, M.	Reclaimed Asphalt Binders and Mortars Fatigue Behaviour
Moreno-Navarro, F.; Ayar, P.; Sol-Sánchez, M.; Rubio-Gámez, M.C.	Exploring the recovery of fatigue damage in bituminous mixtures at macro-crack level: the influence of temperature, time, and external loads
Baldi-Sevilla, A.; Montero, M.L.; Aguiar-Moya, J.P.; Loria-Salazar, L.G.; Bhasin, A.	Influence of bitumen and aggregate polarity on interfacial adhesion
Baldi-Sevilla, A.; Aguiar-Moya, J.P.; Vargas-Nordbeck, A.; Loria-Salazar, L.G.	Effect of aggregate-bitumen compatibility on moisture susceptibility of asphalt mixtures
	Session 9 Low Temperature Behavior
Cannone Falchetto, A.; Moon, K.H.; Lee, C.B.; Michael P. Wistuba, M.P.	Correlation of low temperature fracture and strength properties between SCB and IDT tests using a simple 2D FEM approach
Cannone Falchetto, A.; Moon, K.H.; Wistuba, M.P.	Development of a simple correlation between BBR and TSRST low temperature properties based on a simplified size effect approach
Mihai Marasteanu, M.; Debaroti Ghosh, D.; Cannone Falchetto, A.; Turos, M.	Testing protocol to obtain failure properties of asphalt binders at low temperature using creep compliance and stress controlled strength test
	Closing Session