

EATA 2017 Draft Program

Monday, June 12th, 2017

| | |
|---|---|
| | Opening Session and Key Note Lecture |
| Welcome address of Dr. Thijs Defraeye Empa | Directors of Empa, EATA, ASTRA Chief Engineer of Canton Zürich 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* *) presented by Breixo Gómez Meijide |
| | 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., Grönninger 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 |
| Tabatabaeef, 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) |

EATA 2017 Draft Program

Tuesday, June 13th, 2017

| | |
|---|--|
| | 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* * Withdrawel due to earlier publication in another journal |
| Babadopoulos, 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.; Loría-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 |

| EATA 2017 Draft Program | |
|--|--|
| Wednesday, June 14th, 2017 | |
| | 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 |