CEW2020 conference program

Dear Colleagues and Friends,

It is our pleasure to welcome you to the 6th Chinese-European Workshop (CEW) on Functional Pavement Design hosted by Southeast University, in Nanjing, China, on October 18-21, 2020. Wish you enjoy this online event and have a fruitful exchange! For more info, please visit: https://tc.seu.edu.cn/cew2020/main.htm.

CEW2020 Meeting information

Date and Time (GMT+8)	Venues	Zoom Meeting ID	Password	Link
Oct. 18, 08:30-12:30	Fellow's Forum			
Oct. 18, 14:30-15:00	Opening session	639 242 82209	889311	https://zoom.com.cn/j/63924282209
Oct. 18, 15:00-18:30	Invited Keynote Speech			
	CN-NL special session: Innovative Sustainable Pavement Technologies	622 323 01582	384281	https://zoom.com.cn/j/62232301582
Oct. 19, 15:00-18:30	Parallel session 1: Functional Asphalt/cementitious Materials and Pavement	663 187 11049	579276	https://zoom.com.cn/j/66318711049
Oct. 20, 15:00-18:30	CN-DE special session: Simulation and Environmental effects of pavements	665 418 78549,	328758	https://zoom.com.cn/j/66541878549
	Parallel session 2: Simulation and Environmental effects of pavements, Pavement Surface Properties	636 115 43224	910585	https://zoom.com.cn/j/63611543224
Oct. 21, 15:00-18:30	CN-UK-SA special session: Pavement Acceleration Tests big data and Specification of Mobile Load Simulators	642 425 38210	413726	https://zoom.com.cn/j/64242538210
Oct. 21, 15:00-18:30	Parallel session 3: Intelligent Pavement construction and maintenance, Innovative binders for flexible pavements	653 552 48489	848956	https://zoom.com.cn/j/65355248489
Oct. 21, 18:30-19:00	Close session	642 425 38210	413726	https://zoom.com.cn/j/64242538210

Sunday October 18, 2020 8:30-18:30 Beijing Time

Zoom ID: 639 242 82209, Password: 889311 Meeting Link: https://zoom.com/j/63924282209

08:30-12:30	Fellow's Forum
	Coordinator: Prof. Tao Ma, Southeast University
	Introduction speech by Prof. Pan LIU , the vice Rector of
	Southeast University
	Prof. Susan Tighe, McMaster University, Canada
	Pavement Risk Assessment for Future Extreme Precipitation
	Events Under Climate Change (8:40-9:55)
	Prof. Linbing Wang, Virginia Tech, United States
	Multiscale Simulative Testing of Asphalt Pavements and
	Materials (9:55-11:10)
	Prof. Wynand Steyn, University of Pretoria, South Africa
	Digital Twinning of pavement infrastructure for improved
	modelling and analysis(11:10-12:25)
	Summary of the forum
Break	
14:30-18:30	Invited Keynote Speech
	Coordinator: Prof. Xianhua CHEN, Southeast University,
	Xingyu GU, Prof. Southeast University
	Opening of CEW2020 (14:30-14:50)
	Prof. Jun CHEN, dean of Transportation School, Southeast
	University
	Prof. Jun Yang, Southeast University
	Prof. Bernhard Steinauer, RWTH-AACHEN University
	Prof. Airey Gordon, Nottingham University
	Quantifying Moisture Susceptibility through Adhesion,
	Cohesion and Diffusion(14:50-15:30)
	Prof. Yiqiu Tan, Harbin Institute of Technology
	Skid resistance and preservation of the snow/iced
	pavement, (15:30-16:10)
	Prof. Markus Oeser, RWTH Aachen University
	Study of Asphalt Compaction and Asphalt Performance based
	on Numerical Simulation and Intellectual Measurement
	(16:10-16:50)
	Prof. Michael Kaliske, Technische Universität Dresden
	Multi-scale and Multi-physical Numerical Modelling of the
	Tire-Pavement System(16:50-17:40)
	Mr. Laurent Porot, Kraton Corporation
	Rheology addressing bitumen complexity for functional
	pavement(17:40-18:30)

Monday October 19, 2020 15:00-18:30 Beijing time

CN-NL special session (Zoom ID: 622 323 01582, Password: 384281)

Meeting Link: https://zoom.com.cn/j/62232301582

15:00-16:25	Theme: Innovative Sustainable Pavement Technologies		
	Chair: Dineke van der Burg (RWS, NL) & Xueyan Liu (TUD, NL)		
	Opening speech by Dineke van der Burg (RWS, NL)		
	Invited subsession I, Chair: Dineke van der Burg (RWS, NL)		
	Inge van Vilsteren (RWS, NL)		
	Dutch Way to Stimulate Innovations for Sustainability in Asphalt Mixes		
	Dr. Mingliang Li (RIOH, China)		
	Contribution for Environmental Noise Reduction of Porous Asphalt Combination		
	Dr. Xueyan Liu (TUD, NL)		
	Rejuvenator for High-Quality Recycling of Polymer Modified Asphalt		
16:25-17:45	Invited subsession II, Chair: Dr. Mingliang Li (RIOH, China)		
	Bert Jan Lommerts (XiYueFa, China)		
	Advanced Materials for Sustainable Pavements		
	Prof. Yue Xiao (Wuhan University of Technology, China)		
	Fundamental Understanding of Volatile Organic Compounds(VOCs) from Asphalt		
	Materials		
	Panos Apostolidis (TUD, NL)		
	Title: Use of epoxy asphalt as aging resistant binder for flexible pavements		
17:45-18:00	Questions and Discussion		

Monday October 19, 2020 15:00-18:30 Beijing time

Parallel session 1 (Zoom ID: 663 187 11049, Password: 579276)

Meeting Link: https://zoom.com.cn/j/66318711049

15:00-17:00	Theme: Functional Asphalt Materials and Pavement Chair: Prof. Chao WANG, Beijing University of Technology, Prof. Yue Xiao, Wuhan University of Technology
	Invited: Prof. Huining Xu, Harbin Institute of Technology
	Thermal-economic modeling and analysis of snow melting system for airfield
	runway using low temperature heating fluid
	Invited: Dr. Z Leng, The Hong Kong Polytechnic University
	Relationship between the Self-healing Behavior of Asphalt Mixture and the
	Thickness Distribution Characteristics of Asphalt Mortar
	Yong Lu, chief engineer, in Road Research Institute of Traffic Science, JSTI Group
	A017. Effect of graphene on synthesized pavement performance of rubber asphalt
	mixture.
	Pusheng Liu, Central South University
	A042.Improving rutting and fatigue performances of phase change asphalt mastic.
	Chenchen Miao, Chongqing Jiaotong University
	Study on synergistic cooling mechanism of phase change waterborne polyurethane
	heat reflective coating
	Ning Xie, PhD candidate, Tongji University
	A063. Evaluation and optimization on the reflection and durability of reflective
	coatings for cool pavement.
Break	
17:00-18:30	Theme: Functional Concrete Pavement & Cementious materials
	Chair: Prof. Feng LI, Beihang University
	Invited: Prof. Hongduo Zhao, Tongji University
	Vibration driven mode for precast smart concrete pavement
	Dr. Junfeng Su, Tiangong University
	A007.Smart micro-containers for multi-functional asphalt pavement.
	Xuqiu Teng, Lanzhou Jiaotong University
	A079. Study on Aggregate Strengthening Performance and Principle of Recycled
	Concrete Based on Macro and Micro Tests.
	Mingjun Hu, PhD candidate, Tongji University
	A056. Interlayer Shear Resistance and Anti-Skidding Durability of Asphalt Wearing
	Course Overlay on Tunnel Cement Pavement.
	Dr. Ping Jiang, Shaoxing University
	A081. Unconfined compressive strength and prediction model of fiber / cement
	modified slurry.

Tuesday, October 20, 2020 15:00-18:30 Beijing time

CN-DE special session (Zoom ID.: 665 418 78549, Password: 328758)

Meeting Link: https://zoom.com.cn/j/66541878549

15:00-16:45	Theme: Simulation and Environmental effects of pavements	
	Chair: Prof. Dawei Wang, Harbin Institute of Technology, Dr. Pengfei LIU, RWTH	
	Aachen University	
	Dr. Ronny Behnke, TU Dresden	
	Multiscale and multiphysical tire-pavement analysis	
	Cong Du, M.Sc, RWTH Aachen University	
	Meso-mechanical assessment of composite materials based on the finite element method	
	Dr. Stefan Alber; Barbara Schuck, M.Sc., University of Stuttgart	
	Importance of pavement drainge and different approaches of modelling	
break		
16:45-18:30	Chair: Dr. Pengfei LIU, RWTH Aachen University	
	Prof. Hainian WANG, Chang'an University	
	Characterization of morphology for coarse aggregates and its effect on mixture	
	performances	
	Mrinali Rochlani, M.Sc.; Gustavo Adolfo Canon Falla, M.Sc, TU Dresden	
	Influence of the Source on the performance of bitumen using a DSR	
	Jan Friederichs, M.Sc., RWTH Aachen University	
	Enhanced prediction of the tire-road-interaction by considering the surface texture	

Tuesday, October 20, 2020 15:00-18:30 Beijing time

Parallel session 2 (Zoom ID.: 636 115 43224, Password: 910585)

Link: https://zoom.com.cn/j/63611543224

15:00-16:30	Theme: Simulation and Environmental effects of pavements
	Chair: Prof. Yingjun Mei, Chongqing Jiaotong University
	Invited: Prof. Yuqing ZHANG, Aston University
	Trilogy of Binder Fatigue Cracking: Quantification, Initiation and Propagation
	Kairen Shen, PhD candidate, Southeast University
	A082. Creep Analysis of Viscoelastic Beam by Semi-Analytical Finite Element
	Method.
	Dr. Yaning Qiao, China University of Mining and Technology
	A052.Comparing the environmental impacts of conventional and perpetual flexible
	pavements based on Life Cycle Assessment.
	Xiaoxu ZHU, PhD candidate, The Hong Kong Polytechnic University
	A066. Morphology and size analysis of polymer phase in PMA based on 3D reconstruction
	Junpeng Wang, MSc student, Hohai University
	A058. Investigation into the effect of pavement albedo and environmental factors
	on urban heat island effect using CFD simulation.
	Xiwen Chang, PhD candidate, Wuhan University of Technology
	A038. A Method for Quantitative Characterization of Bitumen VOCs using
	Fingerprints Information.
Break	
L6:30-18:30	Theme: Pavement Surface Properties
	Chair: Prof. Ping LI, Changsha University of Science and Technology
	Invited: Prof. Xingyi Zhu, Tongji University
	Effects of surface texture deterioration and wet surface conditions on asphalt
	runway skid resistance
	Zhifei Tan, PhD candidate, The Hong Kong Polytechnic University
	A080. 3D Numerical Modeling of the Aggregate Contact Effect on the Complex
	Modulus of Asphalt Concrete
	Dr. Jie Gao, East China Jiaotong University
	A051.Cycling comfort on asphalt pavement: effect of asphalt pavement macro-
	texture on vibration.
	Ruoyu Zhou, MSc student, Hohai University
	A057.3D reconstruction of pavement texture using single camera close-range
	photogrammetry.
	Dr. Wanyan Ren, Beijing University of Civil Engineering and Architecture
	A069. Research on the texture orientation characteristics of pavement surface.
	Bailin Shan, PhD candidate, Chongqing Jiaotong University
	A061.Preparation of high luminescent long afterglow luminescent materials and it
	application in road engineering.
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	Xin Wei, Dalian University of Technology
	Xin Wei, Dalian University of Technology. Analysis of mechanical behavior of asphalt pavement using a random aggregate

generation-based concurrent multiscale method

Wednesday October 21, 2020 15:00-19:30 Beijing time

CN-UK-SA special session (Zoom ID.: 642 425 38210, Password: 413726)

Link: https://zoom.com.cn/j/64242538210

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15:00-18:30	Theme: Accelerated Pavement Testing Big Data and Specifications of Mobile Load
	Simulators(MLS)
	Chair: Yuchen WANG, South Africa-China Transport Co-operation Center (SACTCC),
	Pretoria, South Africa
	Co-Chair: Prof. Jiangmiao YU, South China University of Technology (SCUT), China
	Prof. Fred Hugo/Prof. Wynand Steyn, SA
	Accelerated Pavement Testing(APT) and Global Mobile Load Simulators
	Fabio Antoine, International Department Director, PaveTesting, UK
	IO1. Evolution of the Mobile Load Simulators and Site Big Data Collections (tbd)
	Prof. Nanxiang Zheng, Chang'an University
	I02.Small Mobile Load Simulator (MLS11) Testing and ALF Site Loading
	Prof. Lin CONG, Tongji University
	IO3.Big Data of both Small Mobile Load Simulators(MLS11) and Full Scale MLS66
	Chuanhai Wu, Guangdong Hualu Research Group
	I04.Skidding Experiment by the Small MLS11 in Guangdong Province
	Prof. James Maina/Yuchen Wang, SA
	Measurement on Sites and Testing Specifications/Standards
	Dr. Chunying WU, Jingsu Transport Institute
	105. Testing Data of the Small MLS11 and the Full Scale MLS66 in Jiangsu and Guangxi
	Prof. Duanyi Wang, South China University of Technology
	106. Indoor Small Accelerated Pavement Testing in Guangzhou
	Prof. Zhigang Zhou, Changsha University of Science and Technology
	107. Data of Three Site Tests Were Implemented by Small MLS11
	Wayne Zhang, Technical Manage Director, PaveTesting, UK
	IO8. MLS Testing Specifications/Standards and Users Group(tbd)
	Questions and Discussion
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Wednesday October 21, 2020 15:00-19:30 Beijing time

Parallel session 3 (Zoom ID.: 653 552 48489, Password: 848956)

Link: https://zoom.com.cn/j/65355248489

Theme: Intelligent Pavement construction and maintenance Chair: Prof. Yuhong WANG, The Hong Kong Polytechnic University
Chair: Prof. Yuhong WANG. The Hong Kong Polytechnic University
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Invited: Prof. Xudong Wang, RIOH
RIOHTrack in China
Moxuan Duan, Beijing University of Civil Engineering and Architecture
A059. Study of the optimum compaction time for PU mixture based on impact
penetration equipment.
Prof. Bo Li, Lanzhou Jiaotong University
A077.Study on PAC clogging and cleaning mechanism based on numerical
simulation.
Prof. Lei Zhang, Southeast University
A076. Study on the Long-life Pavement Scheme of the Reconstruction and Extension
Project of Highway.
Dr. Song Liu, Nanjing Forestry University
A055. Opportunities and challenges for the application of asphalt supporting layer in
the slab track system
Theme: Innovative binders for flexible pavements
Chair: Prof. Zhen Leng, The Hong Kong Polytechnic University
Invited: Prof. Shifeng WANG, Shanghai Jiaotong University
Light pyrolysis tire rubber towards to durable porous pavement
Shisong Ren, PhD candidate, Delft University of Technology
A003. Use of waste oil/styrene-butadiene-rubber blends as rejuvenators for aged
bitumen.
WU Bangwei, Yangzhou University
A048. Evaluation of the effects of different modifiers on the rheological properties
of bitumen
Yi Zhang, PhD candidate, Delft University of Technology; Chang'an University
A023.Effect of Bio-oil on Low-Intermediate Temperature Properties of Organosolv
Lignin-Bitumen.
Tong Lu, Tongji University
A024. Evaluation on Aging Characteristic of Bio-asphalt Containing High Percentage
of Waste Cooking Oil Residues with Various Aging Methods.
Xiaoshan Zhang, PhD candidate, Wuhan University of Science and Technology
A044. Morphology characteristics of SBS modifier in the asphalt mixture
Ruiqie Jiang, Wuhan University of Science and Technology
A031. Application of Infrared Spectroscopy in Prediction of Asphalt Aging Time and

Close session(18:30-19:00) (Zoom ID.: 642 425 38210, Password: 413726)