International Seminar on

Resilient Roads and 2018 Climate Change Adaptation

https://www.resilientroads.org







PROGRAM

Holiday Inn Beijing Haidian, Beijing, China October 16th-19th, 2018

Sponsors

- World Road Association (PIARC) TC F.1
- National Center for Materials Service Safety, USTB
- Beijing University of Technology
- Tongji University
- China Academy of Transportation Sciences

Organizer

National Center for Materials Service Safety, USTB

Secretary of the Organizing Committee (contact detail)

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Cooperating Organizations (in alphabetical order)

- Beijing Advanced Innovation Center for Future Urban Design, BUCEA
- Beijing Transport Institute
- Chang' an University
- Changsha University of Science and Technology
- China Highway and Transportation Society
- Chongqing Jiaotong University
- Harbin Institute of Technology
- International Association of Chinese Infrastructure Professionals
- Shangdong Jiaotong University
- Shandong Transportation Institute
- Southeast University
- Texas A&M University
- Virginia Polytechnic Institute & State University

《General Schedule》

Date	Time	Venue	Content
Oct. 16, 2018, Tuesday	8:30-22:00	Imperial Ballroom	Registration
	8:30-9:00		Opening ceremony
	9:00-10:30		Plenary Session 1
	10:30-10:50	Imperial Ballroom	Group picture & Coffee break
	10:50-12:20		Plenary Session 2
0-1 17 2010	12:20-14:00	Imperial Ballroom	Lunch break
Oct. 17, 2018, Wednesday	14:00-15:35	Imperial Ballroom 1	Parallel Session A1
wednesday	14:00-15:35	Imperial Ballroom 2	Parallel Session B1
	15:35-15:55		Coffee break
	15:55-17:30	Imperial Ballroom 1	Parallel Session A2
	15:55-17:30	Imperial Ballroom 2	Parallel Session B2
	18:00-20:00	Imperial Ballroom	Welcome reception
	8:30-10:30		Plenary Session 3
	10:30-10:50	Imporial Ballroom	Coffee break
	10:50-11:35	Imperial Ballroom	Panel discussion 1
	11:35-12:20		Panel discussion 2
Oct. 18, 2018,	12:20-14:00	Imperial Ballroom	Lunch break
Thursday	14:00-15:35	Imperial Ballroom 1	Parallel Session A3
Illursuay	14:00-15:35	Imperial Ballroom 2	Parallel Session B3
	15:35-15:55		Coffee break
	15:55-17:30	Imperial Ballroom 1	Parallel Session A4
	15:55-17:30	Imperial Ballroom 2	Parallel Session B4
	18:00-20:00	Imperial Ballroom	Dinner buffet
Oct 10 2019		Beijing University of	Technical Visit
Oct. 19, 2018, Friday	8:30-12:00	Science and	The National Center for Materials Service Safety, USTE
		Technology	

Keynote Speakers and Panelists

Bjorn Birgisson, Texas A&M University, TEES Eminent Professor

Yaojun Ge, Tongji University, Professor, Chair of the International Association for Bridge and Structural Engineering (IABSE)

Xianglin Gu, Tongji University, Professor, Vice President

Baoshan Huang, University of Tennessee, Edwin G. Burdette Professor

Xiaoming Huang, Southeast University, Professor

Jürgen Krieger, Federal Highway Research Institute (BASt), Germany, Professor, Director, Chair of PIARC TC E.1

Courtney Lowrance, Principal Environment Specialist from AIIB

Guowei Ma, Hebei University of Technology, Professor, Vice President

Gordana Petkovic, Norwegian Public Roads Administration, Principal Engineer; Member and WG Leader of PIARC TC E.1

Yanjun Qiu, Southwest Jiaotong University, Professor

Linbing Wang, Virginia Tech, Professor; University of Science and Technology Beijng, Adjunct Professor

Shuangjie Wang, CCCC First Highway Consultants Co., LTD., Professor, General Manager

Xudong Wang, Research Institute of Highway, MOT, Research Professor, Principal Researcher

Yi Wang, Institutes of Science and Development, Chinese Academy of Sciences, Professor, Vice President

Huaqing Xu, National Center for Climate Change Strategy and International Cooperation, Professor, Director

Xiong Yu, Case Western Reserve University, Professor

Hehua Zhu, Tongji University, Professor

Advisory Committee

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Aimin Sha, Chang'an University, Professor, Vice President

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Xudong Wang, Research Institute of Highway Ministry of Transport, Research Professor, Principal Researcher

Chung Wu, Virginia Department of Transportation

Shifa Xu, Beijing University of Civil Engineering and Architecture, Professor

Technical Committee

Chai

Jürgen Krieger, Federal Highway Research Institute (BASt), Germany, Professor, Director; World Road Association (PIARC), TC E.1, Chair

Co-chair

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Hehua Zhu, Tongji University, Professor

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Jo Sias Daniel, University of New Hampshire, Professor

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(Cerema); World Road Association (PIARC), TC E.1, Committee Member, Work Group Coleader

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Yuhong Wang, Hong Kong Polytechnic University, Associate Professor

 ${\it Jincheng Wei, Shandong Transportation Institute, Research Professor, Director}$

Ya Wei, Tsinghua University, Associate Professor

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 ${\it Jianping Xiong, Guangxi Transportation Research \& Consulting Co., LTD, Professor Level Senior Engineer, \\$

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Sangiang Yang, Heibei University, Associate Dean

Zhengxian Yang, Fuzhou University, Professor

Zhongxuan Yang, Zhejiang University, Professor

Hai Yan, Beijing University of Technology, Associate Professor, Associate Dean

Kezhen Yan, Hunan University, Professor, Director

Tao Yan, Hebei Provincial Communications Planning and Design Institute, Professor Level Senior Engineer, Director

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Jianting Zhou, Chongqing Jiaotong University, Professor, Dean

Hongzhou Zhu, Chongqing Jiaotong University, Professor, Associate Dean

Organizing Committee

Chair

Yinghao Miao, National Center for Materials Service Safety (USTB), Associate Professor; World Road Association (PIARC), TC E.1, Committee Member

Co-Chair

Bin Ouyang, China Academy of Transportation Sciences, Research Professor, Director

Xiong Yu, Case Western Reserve University, Professor

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Hailu Yang, National Center for Materials Service Safety, USTB, Assistant Professor

Bin Yu, Southeast University, Professor

Yinning Zhang, Aalto University, Postdoctoral Researcher

Yuyang Zhou, Beijing University of Technology, Associate Professor

《Conference Schedule》

Date	Time	Venue	Content
Oct. 16, 2018, Tuesday	8:30-22:00	Imperial Ballroom	Registration Holiday Inn Beijing Haidian, Beijing, China
Tuesday	8:30-9:00 8:30-8:35 8:35-8:45 8:45-8:50 8:50-9:00	Imperial Ballroom	Opening ceremony Chair: Linbing Wang, Virginia Tech, Professor; USTB, Adjunct Professor Zhaoping Lv, USTB, Professor, Vice President, Welcome speech Dejin Wu, Administrator of Highway Administration, MOT, China; The PIARC Frist Delegate of China, Welcome speech Weidong Zhang, NCMS, USTB, Professor, Director, Briefly introduce the National Center for Materials Serivce Safety Welcome speech from PIARC and declare the opening Plenary Session 1
	9:00-10:30 9:00-9:30	Imperial	Chair: Xianglin Gu, Tongji University, Professor, Vice President Hehua Zhu, Tongji University, Professor Keynote speech: Yi Wang, Institutes of Science and Development, Chinese Academy of Sciences, Professor, Vice President
	9:30-10:00	Ballroom	Keynote speech: Jürgen Krieger, Federal Highway Research Institute (BASt), Germany, Professor, Director, Chair of PIARC TC E.1
	10:00-10:30		Keynote speech: Guowei Ma, Hebei University of Technology, Professor, Vice President
	10:30-10:50	Ballroom	Group picture & Coffee break
Oct. 17, 2018,	10:50-12:20	Imperial Ballroom	Plenary Session 2 Chair: Xianjin Wang, China Academy of Transportation Sciences, Professor, Vice President Baoshan Huang, University of Tennessee, Edwin G. Burdette Professor
Wednesday	10:50-11:20		Keynote speech: Xianglin Gu, Tongji University, Professor, Vice President
	11:20-11:50		Keynote speech: Hehua Zhu, Tongji University, Professor
	11:50-12:20		Keynote speech: Shuangjie Wang, CCCC First Highway Consultants Co., LTD., Professor, General Manager
	12:20-14:00	Imperial Ballroom	Lunch break
	14:00-15:35	Imperial Ballroom 1	Parallel Session A1(Imperial Ballroom1) Impact of Climate (change) on road infrastructure Moderator :Madeleine M. Flint, Virginia Tech, Assisstant Professor Zhen Leng, The Hong Kong Polytechnic University, Associate Professor
	14:00-14:20		Yuhong Wang, The Hong Kong Polytechnic University, Associate Professor Climate change and its impacts on highway pavement in Hong Kong-a preliminary analysis
	14:20-14:35		Juan Fernando Mendoza Sánchez, Mexican Institute of Trasnsportation, Head of Environment Research Group; Member and Spanish-Speaking Secretary of PIARC TC E.1 Geospatial analysis of climate change in road infrastructure in Mexico: impacts, vulnerability, future climate and risks
	14:35-14:50		Yinghao Miao, University of Science and Technology Beijing, Associate Professor; Member of PIARC TC E.1 Analysis of the changes in climatic conditions affecting highway in China
	14:50-15:05		Martin Klose, Federal Highway Research Institute (BASt), Germany, Ph.D. Climate Impact Assessment for Federal Trunk Roads in Germany
	15:05-15:20		Yaning Qiao, University of New Hampshire, Postdoctoral Research Scientist . A multi-criteria analysis to identify road vulnerability to poor hydrological conditions

	15:20-15:35	Imperial Ballroom 1	Jun Fu, Wuhan University of Technology, Associate Professor Preliminary study on the influence of regional climate change on summer temperature effect of asphalt pavement
			Parallel Session B1
	14:00-15:35	Imperial Ballroom 2	Impact of Climate (change) on road traffic system and countermeasures Moderator: Yanyan Chen, Beijing University of Technology, Professor Jie Guo, China Academy of Transportation Sciences, Associate Research Professor; Member of PIARC TC E.1
	14:00-14:20		Yanyan Chen, Beijing University of Technology, Professor Impact of bad weather on traffic network operation and comprehensive countermeasures
	14:20-14:35		Zhenhua Feng, China Academy of Transportation Sciences, Associate Research Professor Research on the technology demands in transportation industry to adapt climate change
	14:35-14:50		Yifan Qin, Nanjing University, Graduate student The Impact of Adverse Weather Event on Traffic Trips from the Perspective of Accessibility: A Case Study of Nanjing
	14:50-15:05		Yang Wang, Beijing University of Technology, Associate Professor Environmental impacts of urban transportation infrastructures: a case study in Beijing
	15:05-15:20		Jiantao Lu, Tongji University, Graduate student Crash Risk Evaluation Model on Freeways considering Visibility
	15:20-15:35		Shuya Sun, Beijing University of Technology, Ph.D. Candidate Study On Traffic Sign Visual Demand In Highway Foggy Section
Oct. 17, 2018, Wednesday	15:35-15:55		Coffee break
	15:55-17:30	Imperial Ballroom 1	Parallel Session A2 Energy saving and emission reduction construction technology and materials for infrastructur Moderator: Shifa Xu, Beijing University of Civil Engineering and Architechture, Professor
			Yonghui Chen, Hohai University, Professor
	15:55-16:15		Shifa Xu, Beijing University of Civil Engineering and Architechture, Professor . Review of energy saving and emission reduction materials and application in pavement
	16:15-16:30		Zhen Leng, The Hong Kong Polytechnic University, Associate Professor Synthesis of Zeolite LTA Using Sewage Sludge Ash for Application in Warm Mix Asphalt
	16:30-16:45		Yanhong Zhang, Research and Development Center on Highway Pavement Maintenance Technology, CCCC, Senior Engineer Coupling stress analysis for beijing-tianjing-tangshan overlay based on three dimensional crack
	16:45-17:00		Peng Jing, Beijing University of Technology, Assistant Professor Unsaturated mechanical behaviour of a granular material used in low traffic pavement
	17:00-17:15		Jianhuan Du, Southwest Jiaotong University, Ph.D. Candidate Low-Temperature Rheological Properties andMicrostructure of PPA-SBS Modified Asphalt
	17:15-17:30		Ying Xu, Beijing University of Civil Engineering and Architechture, Associate Professor Influence of Miscibility of Virgin and Aged Bitumen on Fatigue Performance of High RAP Recycled Asphalt Mixture
	15:55-17:30	Imperial Ballroom 2	Parallel Session B2 Impact of infrastructure and traffic operation on environment (climate) Moderator :Jian Xu, Research Institure of Highway, Research Professor, MOT Yuhong Wang, The Hong Kong Polytechnic University, Associate Professor

	15:55-16:15		Jian Xu, Research Institure of Highway, Research Professor, MOT Green development concept, policy
Oct. 17, 2018, Wednesday	16:15-16:30	-	Dawei Wang, Harbin Institute of Technology, Professor The environmental impact evaluation of the application of permeable pavement
	16:30-16:45		Bin Yu, Southeast University, Professor Environmental Burden Evaluation of Hot In-place Recycling of Asphalt Pavement Based on Discrete Event Simulation
	16:45-17:00		Huanan Yu, Changsha University of Science and Technology, Professor Effect of Phosphorus Slag Powder on Flame Retardant and Smoke Suppression Performance of Asphalt Under Disaster Conditions
	17:00-17:15		Shuai Tian, University of Science and Technology of Liaoning, Associate Professor The influence of bridge icicle caused by snowy climate on road engineering operation
	17:15-17:30		Wentao Wang, University of Science and Technology Beijing, Ph.D.Candidate, Influence of Intense Rainfall induced by Climate Change on Transportation Infrastructure
	18:00-20:00	Imperial Ballroom	Welcome reception
			Plenary Session 3
			Chair: Guowei Ma, Hebei University of Technology, Professor, Vice
			President
	8:30-10:30		Jürgen Krieger, Federal Highway Research Institute (BASt), Germany, Professor; Chair of PIARC TC E.1
	8:30-9:00	- Imperial Ballroom	Keynote speech: Huaqing Xu, National Center for Climate Change Strategy and International Cooperation, Professor, Director
	9:00-9:30		Keynote speech: Sustainability of Sea-Crossing Fixed Link under Global Climate Change Yaojun Ge, Tongji University, Professor, Chair of IABSE
	9:30-10:00		Keynote speech: Bjorn Birgisson, Texas A&M University, TEES Eminent Professor
	10:00-10:30		Keynote speech: Baoshan Huang, University of Tennessee, Edwin G. Burdette Professor
Oct. 18, 2018,	10:30-10:50	Imperial Ballroom	Coffee break
Thursday			Panel discussion 1
			Opportunities for financing climate resilient road infrastructure in emerging markets: European Bank for Reconstruction and Development and Asian Infrastructure Investment
			Chair: Courtney Lowrance, Principal Environment Specialist from AIIB
	10:50-11:35	Imperial Ballroom	Panelist Gordana Petkovic, Principal Engineer, Norwegian Public Roads Administration; Member and WG Leader of PIARC TC E.1 And other professionals
			Panel discussion 2
			Impact of climate change on road infrastructure and mitigation, adaptation strategies
		Imperial	Chair: Bjorn Birgisson, Texas A&M University, TEES Eminent Professor Xiaoming Huang, Southeast University, Professor
	11:35-12:20	Ballroom	Panelist Linbing Wang, Virginia Tech, Professor; USTB, Adjunct Professor Yanjun Qiu, Southwest Jiaotong University, Professor Xudong Wang, Research Institure of Highway, MOT, Research Professor, Principal Researcher Xiong Yu, Case Western Reserve University, Professor

	12:20-14:00	Imperial Ballroom	Lunch break
			Parallel Session A3
	14:00-15:35	Imperial Ballroom 1	Climate change adaptation framework, policies and practice Moderator :Jürgen Krieger, Federal Highway Research Institute (BASt), Germany, Professor; Chair of PIARC TC E.1 Xiong Yu, Case Western Reserve University, Professor
	14:00-14:20		Jie Guo, China Academy of Transportation Sciences, Associate Research Professor; Member of PIARC TC E.1 China's policies and actions for adapting climate change in transportation industry
	14:20-14:35		To be available
Oct.18, 2018, Thursday	14:35-14:50		Yaning Qiao, University of New Hampshire, Postdoctoral Research Scientist Life-Cycle Cost Analysis of Reclaimed Asphalt Pavement (RAP) under Future Climate: A Case Study
	14:50-15:05		Gordana Petkovic, Norwegian Public Roads Administration, Principal Engineer; Member and WG Leader of PIARC TC E.1 Comparing the Norwegian work on adaptation to climate change to the PIARC Framework.
	15:05-15:20		Feng Chen, Tongji University, Associate Professor Wind data collection and analysis of topographical features along a highway for traffic safety assessment based on mobile mapping technology
	15:20-15:35		Yi Zhang, China Academy of Transportation Sciences, Associate Research Professor Planning and Construction of Green Highway: from the Perspective of Ecology
		20 35 Imperial Ballroom 2 05 20	Parallel Session B3 Resilient road infrastructure: data requirements, assessment and improvement (I)
	14:00-15:35		Moderator: Jinxi Zhang, Beijing University of Technology, Professor Juan Fernando Mendoza Sánchez, Mexican Institute of Trasnsportation, Head of Environment Research Group; Member and Spanish-Speaking Secretary of PIARC TC E.1
	14:00-14:20		Madeleine M. Flint, Virginia Tech, Assisstant Professor Challenges in quantifying the impact of climate change on bridge performance.
	14:20-14:35		Yong Peng, Zhejiang University, Associate Professor Micromechanical Discrete Element Modeling of Influences of Aggregate Gradation and Temperature on Indirect Tensile Strength of Asphalt Mixtures
	14:35-14:50		Jie Ji, Beijing University of Civil Engineering and Architechture, Professor Influence of Moist Aggregate on the Moisture Susceptibility and Crack Propagation of WMA
	14:50-15:05		Tiezhi Zhang, University of Science and Technology of Liaoning, Associate Professor Construction technology and process calculation of cantilever cast-in-place prestressed concrete continuous girder bridge closure section
	15:05-15:20		Qinglin Guo, Hebei University of Engineering, Associate Professor Effects of temperature and hydrodynamic pressure on moisture diffusion of asphalt concrete based on micro perspective
	15:20-15:35		Hengwei Huang, Candidate, Southwest Jiaotong University, Ph.D. Study on bond characteristics of waterproof adhesive material in steel bridge deck pavement structure

	15:35-15:55		Coffee break
			Parallel Session A4
	15:55-17:30		Innovative (smart) technologies and systems Moderator :Hongduo Zhao, Tongji University, Professor
			Dawei Wang, Professor, Harbin Institute of Technology
	15:55-16:15	Imperial	Hongduo Zhao, Tongji University, Professor
	15.55-10.15		Smart thinking about Smart Transportation Infrastructure
	16:15-16:30		Xiong Yu, Case Western Reserve University, Professor Autogenous modulation of the extreme environmental loads with active
	10.13 10.30		pavement
	16:30-16:45		Qian Zhao, University of Science and Technology Beijing, Ph.D. Candidate Multi-source Energy Harvesting and Monitoring System for Pavement
	16.45 17.00		Yu Tian, Tongji University, Assistant Professor
	16:45-17:00		The Connotation and Practice of Smart Roads
			Zhoujing Ye, University of Science and Technology Beijing, Ph.D.
	17:00-17:15		Candidate Vibration Monitoring and Application of Asphalt Pavement under Vehicle Moving Load
	17:15-17:30		Yue Hou, Beijing Univeristy of Technology, Associate Professor
			A multiscale model to investigate the tire-pavement friction Parallel Session B4
Oct. 18, 2018,			Resilient road infrastructure: data requirements, assessment and
Thursday	15:55-17:30		improvement (II)
	13.33 17.30		Moderator : Gordana Petkovic, Norwegian Public Roads Administration,
		Imperial Ballroom 2	Principal Engineer; Member and WG Leader of PIARC TC E.1 Changfa Ai, Professor, Southwest Jiaotong University
	15:55-16:15		Jinxi Zhang, Beijing University of Technology, Professor
			Temperature prediction model of pavement structure based on
			monitoring data Jiong Zhang, Shandong University, Associate Professor
	16:15-16:30		Mechanism of Pore Blockage in Pervious Concrete Pavement
			Matthias Huttenlau, ILF Consulting Engineers Austria GmbH , Group
	16:30-16:45		Leader Mainstreaming Climate Change and Disaster Risk Reduction into
			Planning and Rehabilitation of Road Infrastructures in Austria
			Yanxia Cai, Research and Development Center on Highway Pavement
	16:45-17:00		Maintenance Technology, CCCC, Senior Engineer Dynamic Characteristics of Warm Mix Foamed Asphalt Mixture in
			Dynamic Characteristics of Warm Mix Foamed Asphalt Mixture in seasonal frozen area
	17:00-17:15	1	Hui Yao, Beijing Univeristy of Technology, Associate Professor
	17.00 17.13	4	Properties of the asphalt binder models using molecular dynamics
	17:15-17:30		Xueqian Li, Chan'an University, Ph.D. Candidate Disease Spectrum Analysis and Maintenance Timing Decision for
			Preventive Maintenance of Asphalt Pavement
	18:00-20:00	Imperial Ballroom	Dinner buffet
			Diffiler buffet
	08:30-12:00	Beijing	Tochnical Visit
Oct. 19, 2018, Friday		University of Science and	Technical Visit The National Center for Materials Service Safety, USTB
		Technology	
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