**6th International Conference on Transportation Infrastructure and Materials (TIM 2023) & 2nd Workshop on New Technology and Achievements of Road Engineering Material Recycling**

To whom it may concern：

The International Association of Chinese Infrastructure Professionals (IACIP), China Highway and Transportation Society, and Beijing University of Civil Engineering and Architecture will jointly hold the *6th International Conference on Transportation Infrastructure and Materials (TIM 2023) and the 2nd Workshop on New Technology of Road Engineering Material Recycling*. The purpose of this conference is to fully implement the concept of green development, promote the construction and operation of low-carbon road infrastructure, promote low-carbon and comprehensive utilization of solid waste, and strengthen collaborative innovation and integration cooperation of "production, learning, research, and application". The relevant items are as follows:

1. **Time and Place**

Conference Time: July 18 to 20, 2023

Conference Venue: Beijing International Convention Center

Accommodation Hotel: Beijing Wuzhou Hotel

Beijing Asian Games Village

Conference Address: No. 8 Beichen East Road, Chaoyang District, Beijing

1. **The subject of the conference**

New developments in green, low-carbon, sustainable and resilient transportation

1. **Keynote Speech**

**Stage 1: Welcome Remarks**

Moderator: Chuanlei Liu, Secretary-General of China Highway and Transport Society

**Stage 2: Keynote Speech**

1) Research on green and low-carbon materials for highway engineering

Jianlong Zheng, Academician of the Chinese Academy of Engineering and Professor of Changsha University of Science and Technology

2) Development path and thinking of green and low-carbon highway construction

Highway Bureau of the Ministry of Transport of PRC

3) Application and prospect of innovative technology for the construction of ultra-large diameter shield tunnels

Peng Chen, General Manager of China Railway 14th Bureau Group Big Shield Engineering Co., Ltd

4) Some technical cognitions about the recycling of waste asphalt pavement

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

5) Remote diagnosis and decision-making of pavement

Lijun Sun, Professor, National Jieqing, Yangtze River Scholar, Tongji University

6) Exploration of long-life asphalt pavement design principles

Xudong Wang, Chief Researcher, Research Institute of Highway Ministray of Transport

1. **Thematic forums**

**(1) New materials for green and low-carbon roads**

1) Study on the healing mechanism of graphene microcapsule bitumen dual mechanism

Yiqiu Tan, Professor, President of Harbin Institute of Technology at Weihai Campus, Changjiang Scholar, National Jieqing

2) A new generation of zero-emission high-performance cold-mix cold pavement material technology

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

3) Key technologies and evaluation methods for green production of asphalt mixture

Hao Liu, Professor-Level Senior Engineer, Chief engineer of Beijing Municipal Road and Bridge Building Materials Group

4) Systematic design concept and method of green energy for road transportation

Wei Jiang, Professor, National Youqing, Chang'an University

5) Key technology and engineering application of green toughness ultra-thin abrasive layer

Jiangmiao Yu, Professor, South China University of Technology

**(2) New technology for solid waste recycling**

1) Asphalt pavement solid waste fine separation technology and resource utilization

Decheng Feng, Professor, Harbin Institute of Technology

2) Full pavement recycling structure design and solid waste material application

Jinxi Zhang, Professor, Beijing University of Technology

3) Evaluate Performance of Fiber Reinforced Rapid Strength Concrete for Caltrans

Dingxin Cheng, John F. O’Connell Endowed Faculty Chair, California State University

4) Anti-aging asphalt mixture design and evaluation method

Yuhong Wang, Professor, the Hong Kong Polytechic University

5) Research and application status of road solid waste materials in the United States

Zhanping You, Distiguished Professor , Michigan Technological University

6) High-value application technology of cooking waste grease in asphalt pavement recycling engineering

Zhi Suo, Professor, Beijing University of Civil Engineering and Architecture

**(3) Long-term life and resilience enhancement of road facilities**

1) Quality control evaluation system of asphalt pavement materials

Jian Xu, Director of the Road Center, Research Institute of Highway Ministray of Transport

2) Research on macroscopic performance of stable crushed stone with strong and toughened rubber cement and engineering application

Songtao Lv, Professor, National Jieqing, Changsha University of Science and Technology

3) Assessment and improvement of road transport infrastructure resilience: questions and recommendations

Hui Li, Professor, National Qingqian, Tongji University

4) Subgrade intelligent compaction and modulus identification technology

Jinsong Qian, Professor, Tongji University

5) Design and evaluation of durable and resilient roads based on pavement mechanics

Hao Wang, Professor, Rutgers, the State University of New Jersey

**(4) Improve the toughness of bridge and tunnel projects**

1) Durability design and practice of concrete for Shenzhen-Zhongshan Bridge

Shenyou Song, Director and Chief Engineer of Shenzhen-Zhongshan Access Management Center

2) Key technology for rapid detection of bearing capacity of urban viaducts

Tinghua Yi, Professor, Dean of the Science and Technology Development Research Institute, Beijing University of Civil Engineering and Architecture, National Jieqing, Changjiang Scholar

3) Experiment and practice of UHPC to improve the performance of arch bridge

Jianting Zhou, Professor, Vice President of Chongqing Jiaotong University, National Jieqing, Changjiang Scholar

4) Toughness improvement technology for long-term service performance of ballastless track structure of high-speed railway

Xiaopei Cai, Professor, Vice Dean of Institue of Science and Technology, Beijing Jiaotong University, Young Changjiang Scholar

5) Research on toughening and carbon reduction technology of long-life epoxy asphalt pavement

Sang Luo, Professor, Southeast University, Young Changjiang Scholar

**(5) Smart Road and Safety Forum**

1) Exploration and practice of a new generation of smart expressway - case sharing of Wufengshan smart expressway construction

Zhenxiong Jiang, Member of the Leading Party Group of Jiangsu Provincial Department of Transportation, Secretary of the Leading Party Group and Director of Jiangsu Provincial Traffic Engineering Construction Bureau

2) Key technologies for autonomous driving

Daxin Tian, Professor, Vice Dean of School of Transportation Science and Engineering, Beihang University

3) Practice and thinking of smart expressway construction in Shandong

Wei Zhang, Deputy General Manager of Shandong Hi-Speed Information Group

4) Research and practice of key technologies for long tunnel group intelligent operation and safety emergency capability improvement

Juncheng Zeng, General Manager of Fujian Expressway Innovation Research Institute Co., Ltd

5) Enhancing predictive models for imbalanced highway-rail grade crossing accidents using deep learning techniques

Lu Gao, Associate Professor, University of Houston

1. **Special Activities**

**(1) Innovation Salon for Young Talents**

Forum topics: intelligent transportation, energy conservation and emission reduction technology, solid waste recycling, etc

**(2) Round table party for high-quality development of academic journals**

1) Stage 1: Exchange meeting between journal editorial board members and young scholars

Introduction and promotion meeting for *China Journal of Highway and Transport*, *Journal of Traffic and Transportation Engineering (English Edition)*, *Municipal Technology* and other journals

2) Stage 2: Editorial committee working meeting of *China Journal of Highway and Transport*

1. **Exhibition Display**

The conference will set up exhibitions and display tables in specified areas of the conference venue to support or sponsor the corporate image promotion, scientific and technological achievements and core product exhibitions and displays, etc.

1. **Investigation and Observation**

(1) Route 1:

Full-scale pavement accelerated loading test loop road operated by Research Institute of Highway Ministray of Transport, Construction site of super-large diameter shield tunnel in Beijing Municipal Administrative Center.

(2) Route 2:

Field scientific observation and research station, University of Science and Technology Beijing.

The above activities and conferences are organized in a unified manner.

1. **Organizational Unit**

**Organizers**

International Association of Chinese Infrastructure Professionals (IACIP)

China Highway and Transportation Society

Beijing University of Civil Engineering and Architecture (BUCEA)

**Co-organizers**

National Material Service Safety Science Center, University of Science and Technology Beijing

South China University of Technology

Beijing University of Civil Engineering and Architecture Large-scale Multifunctional Shaking Table Laboratory

Beijing Engineering Research Center for Urban Transportation Infrastructure Construction

Municipal Technology Magazine

China Railway 14th Bureau Group Big Shield Engineering Co., Ltd

China Highway and Transportation Society Scientific and Technological Achievements Transformation Center

China Highway Magazine

1. **Organizing Committee**

**（1）International Advisory Board**

**Co-Chairs**

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Dawei Wang Harbin Institute of Technology

Hainian Wang Chang'an University

Jiangfeng Wang Beijing Jiaotong University

Leti Wang The University of Cincinnati, USA

Yuhong Wang The Hong Kong Polytechnic University, Hong Kong, China

Hao Wu Central South University

Weimin Song Central South University

Shaopeng Wu Wuhan University of Technology

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Feipeng Xiao Tongji University

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Peng Xiao Yangzhou University

Yue Xiao Wuhan University of Technology

Huining Xu Harbin Institute of Technology

Tao Xu Nanjing Forestry University

Kezhen Yan Hunan University

Hui Yao Beijing University of Technology

Yongjie Ding Beijing University of Technology

Wen Yi Central South University of Forestry and Technology

Jiangmiao Yu South China University of Technology

Xinbao Yu The University of Texas at Arlington, USA

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Changjun Zhou Dalian University of Technology

Jianshan Zhou Beihang University

Hongzhou Zhu Chongqing Jiaotong University

1. **Cooperative media**

Journal of China Highway, China Highway, China Expressway, Road Home WeChat public account, China Highway Network.



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1. **Participants and persons to be invited**

(1) Responsible persons of relevant business departments and bureaus of the Ministry of Transport

(2) Transportation departments (committees), highway bureaus (highway service centers), highway administrations, and transportation investment groups of provinces, autonomous regions and municipalities directly under the Central Government

(3) Contractors and technical personnel for relevant road, bridge and tunnel projects

(4) Engineering quality supervision, testing, consulting, and evaluation units, as well as relevant personnel of domestic research institutions and transportation research institutes

(5) Responsible persons of domestic academic societies.

1. **Conference Expenses**

The registration fee for this meeting is 250 USD / person, and the registration fee for students is unified at 140 USD / person. The above fees include meals, materials, experts, conference fees, etc.

1. **Sign Up**

Follow the " Home of Highway " WeChat public account, click the menu "Academic Conference - Conference Registration" to enter the conference registration page, fill in the unit, accommodation, payment and submit the invoice information. Delegates who register one week before the opening of the conference and have successfully paid the fee can reserve a conference hotel room. After submitting the invoice information, the VAT ordinary invoice will be sent directly to the participants' mailbox, and the special VAT invoice will be manually reviewed and a paper version of the invoice will be issued.

1. **Contact**

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Pre-conference exchange and post-conference courseware download QQ group (highway scientific and technological achievements transformation group 1015665426).

China Highway and Transportation Society

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