



TRC, The Think Tank for Transportation Innovations

# TRANSPORTATION RESEARCH CONGRESS 2025

Sustainability · Resilience · Intelligence

July 20-23, 2025

Beijing International Convention Center, Beijing, China

<https://www.trc-c.org/>





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# Welcome

We are pleased to welcome you to the TRC2025.

The Transportation Research Congress (TRC) aims to be a “Think Tank for Transportation Innovations” and provide an international platform for academic exchange. It was established in 2016 and held its first session the same year. The TRC has been successfully held for three sessions so far with support from colleagues worldwide.

The 4th session of TRC is hosted by the National Center for Materials Service Safety, University of Science and Technology Beijing and held at Beijing International Convention Center, Beijing, China. TRC2025 focuses on the sustainability, resilience, and application of artificial intelligence in transportation systems. The topics cover both traditional fields and crosscuttings, involving highways, railways, airports, water transport, traffic management, and intelligent driving. We anticipate that TRC2025 will elucidate systematic perspectives on research frontiers in transportation infrastructure and systems through scholarly exchange.

We deeply appreciate your contributions to collaborations and innovations that advance sustainable, resilient, and intelligent transportation systems, fostering globally integrated connectivity.

The Organizing Committee of TRC2025

## **Distinguished Guests (in alphabetical order)**

- ✧ David Cebon, University of Cambridge, Professor, Fellow of the Royal Academy of Engineering
- ✧ Jianguo Nie, Tsinghua University, Professor, Academician of the Chinese Academy of Engineering, International Fellow of the Engineering Academy of Japan
- ✧ Wei Wang, Southeast University, Professor
- ✧ Jianlong Zheng, Changsha University of Science and Technology, Professor, Academician of the Chinese Academy of Engineering
- ✧ Hehua Zhu, Tongji University, Professor, Academician of the Chinese Academy of Engineering

## **Keynote Speakers (in alphabetical order)**

- ✧ Chunsheng Cai, Southeast University, Professor
- ✧ David Cebon, University of Cambridge, Professor, Fellow of the Royal Academy of Engineering
- ✧ Baoshan Huang, The University of Tennessee, Knoxville, Edwin G. Burdette Professor
- ✧ Jianming Ling, Tongji University, Professor, Dean of the College of Transportation
- ✧ Guowei Ma, Hebei University of Technology, Professor, Vice President
- ✧ Lijun Sun, Tongji University, Professor
- ✧ Yiqiu Tan, Harbin Institute of Technology, Professor, President of HIT, Weihai
- ✧ Linbing Wang, University of Georgia, Professor
- ✧ Hehua Zhu, Tongji University, Professor, Academician of the Chinese Academy of Engineering

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- ✧ Chao Wang, Beijing University of Technology, Professor
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- ✧ De Zhao, Southeast University, Associate Professor
- ✧ Guanyi Zhao, University of Science and Technology Beijing, Engineer
- ✧ Kang Zhao, Liaoning University of Technology, Assistant Professor
- ✧ Qian Zhao, China Railway Design Corporation, Postdoctoral Research Fellow
- ✧ Zhengfeng Zhou, Southwest Jiaotong University, Professor

## Program at a Glance

July 20, 2025	
8:30-22:00	Registration
July 21, 2025	
8:30-9:00	Opening Ceremony
9:00-10:10	Plenary Session 1: Keynote Speech
10:10-10:30	Coffee Break
10:30-12:15	Plenary Session 2: Keynote Speech
12:15-13:30	Lunch
13:30-15:20	Parallel Sessions (10 Tracks)
15:20-15:40	Coffee Break
15:40-17:30	Parallel Sessions (10 Tracks)
17:30	Dinner
July 22, 2025	
8:30-9:40	Plenary Session 3: Keynote Speech
9:40-10:00	Coffee Break
10:00-11:10	Plenary Session 4: Keynote Speech
11:10-12:00	Plenary Session 5: Lifetime Achievement Award Ceremony and Panel Discussion
12:00-12:15	Plenary Session 6: Welcom from the Next TRC
12:15-13:30	Lunch
13:30-15:20	Parallel Sessions (10 Tracks)
15:20-15:40	Coffee Break
15:40-17:30	Parallel Sessions (10 Tracks)
17:30	Dinner
July 23, 2025	
8:30-11:00	Visit the National Center for Materials Service Safety

# Main Venue Arrangements

<b>Opening Ceremony</b> July 21, 2025, 8:30-9:00, Convention Hall No. 3 <b>Moderator: Yinghao Miao, Professor, University of Science and Technology Beijing</b>		
Date	Time	Speech
July 21, 2025	8:30-8:40	<b>Welcome Speech</b> Renshu Yang, Professor, President, University of Science and Technology Beijing
	8:40-8:50	<b>Introduction of the National Center for Materials Service Safety (NCMS)</b> Xiaolu Pang, Professor, Director of NCMS, University of Science and Technology Beijing
	8:50-9:00	<b>Introduction of TRC</b> Linbing Wang, Professor, University of Georgia
<b>Plenary Session 1</b> July 21, 2025, 9:00-10:10, Convention Hall No. 3 <b>Moderator: Baoshan Huang, Edwin G. Burdette Professor, The University of Tennessee, Knoxville</b> <b>Ya Wei, Professor, Tsinghua University</b>		
Date	Time	Speech
July 21, 2025	9:00-9:35	<b>Keynote Speech: Heavy Goods Vehicle Safety, Productivity and Environmental Impact</b> David Cebon, Professor, Fellow of the Royal Academy of Engineering, University of Cambridge
	9:35-10:10	<b>Keynote Speech: New Concept of Long-Life Pavement Design</b> Lijun Sun, Professor, Tongji University
<b>Plenary Session 2</b> July 21, 2025, 10:30-12:15, Convention Hall No. 3 <b>Moderator: Chunsheng Cai, Professor, Southeast University</b> <b>Danhui Dan, Professor, Tongji University</b>		
Date	Time	Speech
July 21, 2025	10:30-11:05	<b>Keynote Speech: 3D Printing Oriented New Construction Technology, Material, and Structure</b> Guowei Ma, Professor, Vice President, Hebei University of Technology
	11:05-11:40	<b>Keynote Speech: Dynamics of Airport Runway System and Its Application</b> Jianming Ling, Professor, Dean of the College of Transportation, Tongji University
	11:40-12:15	<b>Keynote Speech: Road Ice/Snow Disaster Prevention and Mitigation</b> Yiqiu Tan, Professor, President of Harbin Institute of Technology, Weihai, Harbin Institute of Technology

# Main Venue Arrangements

<b>Plenary Session 3</b> July 22, 2025, 8:30-9:40, Convention Hall No. 3 <b>Moderator: Yanjun Qiu, Professor, Southwest Jiaotong University</b> <b>Yuhong Wang, Professor, The Hong Kong Polytechnic University</b>		
Date	Time	Speech
July 22, 2025	8:30-9:05	<b>Keynote Speech: Discussion and Practice on Several Issues in Intelligent Construction of Tunnel Engineering</b> Hehua Zhu, Professor, Academician of the Chinese Academy of Engineering, Tongji University
	9:05-9:40	<b>Keynote Speech: Recycling Applications in Asphalt Pavements</b> Baoshan Huang, Edwin G. Burdette Professor, The University of Tennessee, Knoxville
<b>Plenary Session 4</b> July 22, 2025, 10:00-11:10, Convention Hall No. 3 <b>Moderator: Wenqi Ding, Professor, Tongji University</b> <b>Xueyan Liu, Delft University of Technology, Associate Professor</b>		
Date	Time	Speech
July 22, 2025	10:00-10:35	<b>Keynote Speech: Research Prospects and Reflections toward Intelligent Bridges</b> Chunsheng Cai, Professor, Southeast University
	10:35-11:10	<b>Keynote Speech: Multiscale Simulative Testing for Performance and Fundamental Properties of Asphalt Pavements and Materials</b> Linbing Wang, Professor, University of Georgia
<b>Plenary Session 5</b> July 22, 2025, 11:10-12:00, Convention Hall No. 3 <b>Moderator: Linbing Wang, Professor, University of Georgia</b> <b>Yiqiu Tan, Professor, President of Harbin Institute of Technology, Weihai, Harbin Institute of Technology</b>		
Date	Time	Lifetime Achievement Award Ceremony and Panel Discussion
July 22, 2025	11:10-11:25	<b>Lifetime Achievement Award Ceremony</b>
	11:25-12:00	<b>Panel Discussion: Future Transportation</b>
<b>Plenary Session 6</b> July 22, 2025, 12:00-12:15, Convention Hall No. 3 <b>Moderator: Linbing Wang, Professor, University of Georgia</b>		
Date	Time	Welcome from the Next TRC
July 22, 2025	12:00-12:15	<b>Welcome from the Next TRC</b>

## Parallel Session Arrangements

<b>Parallel Session A1</b> July 21, 2025, 13:30-15:20, Room 303 <b>Topic: High-Performance Materials and Innovative Structural Technologies for Underground Engineering Applications</b>		
<b>Chair: Peng Feng, Professor, Tsinghua University; Wenqi Ding, Professor, Tongji University; Xinmiao Meng, lecturer, Beijing Forestry University; Qing Chen, Professor, Tongji University</b>		
Date	Time	Speech
21-Jul	13:30-13:47	<b>Progress in Technology and Application of Fiber-Reinforced Polymer Composite Materials for Underground Engineering Structures</b> Peng Feng, Professor, Tsinghua University
	13:47-14:04	<b>Enhancing Load-Bearing Capacity of Shield Tunnels with Fiber-Reinforced Polymers</b> Hai Fang, Professor, Nanjing Tech University
	14:04-14:21	<b>New Supporting Technology, Theory and Computational Method of Corrugated Steel for Tunnels</b> Wenqi Ding, Professor, Tongji University
	14:21-14:38	<b>Multi-scale Simulation and Regulation of UHPC Material Properties</b> Qing Chen, Professor, Tongji University
	14:38-14:55	<b>Experimental Investigation of Coal Gangue Aggregate Concrete Confined by FRP</b> Jiaqi Yang, Associate Professor, China University of Mining and Technology (Beijing)
	14:55-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session A2</b> July 21, 2025, 15:40-17:30, Room 303 <b>Topic: Basic Theory of Resilience of Deep Underground Space in Mega-Cities</b>		
<b>Chair: Dong Su, Professor, Shenzhen University; Yafei Qiao, Associate Professor, Tongji University; Chao Zhang, Professor, Hunan University; Mingyang Wang, Professor, Tsinghua University</b>		
Date	Time	Speech
21-Jul	15:40-15:57	<b>Interaction Mechanisms and Control Strategies for Soil-Bentonite-Water Systems in Subaqueous Large-Diameter Shield Tunnels</b> Dalong Jin, Associate Professor, Beijing Jiaotong University
	15:57-16:14	<b>Evolution of Dynamic Axial Compression Ratio and Seismic Behavior of Central Columns in Subway Stations</b> Peng Deng, Professor, Hunan University
	16:14-16:31	<b>Mechanics/Resilience- Intelligence-Carbon study of Prefabricated Underground Structures</b> Tong Qiu, Distinguished researcher, Shenzhen University
	16:31-16:48	<b>Mechanical Response of Cross-Fault Tunnels under Faulting</b> Yafei Qiao, Professor, Tongji University
	16:48-17:05	<b>Damage Assessment of Tunnel Segmental Linings under Internal Explosion Scenarios: A Simplified Approach</b> Omer Javaid, Postdoc, Shenzhen University
	17:05-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session B1</b> July 21, 2025, 13:30-15:20, Room 305A <b>Topic: Key Technologies for Emergency Repair and Rapid Traffic Resumption in Railway Infrastructure</b>		
<b>Chair: Xianfeng Liu, Professor, Southwest Jiaotong University</b> <b>Cochair: Hui Li, Professor/Changjiang Scholar, Tongji University</b>		
Date	Time	Speech
21-Jul	13:30-13:43	<b>Geological Hazards: Data, Mechanisms, Technologies, and Applications</b> Chong Xu, National Institute of Natural Hazards, Ministry of Emergency Management of China
	13:43-13:56	<b>Key Technologies for Digital Intelligence-Empowered Resilience Enhancement of Highways</b> Ning Xie, Professor, China Academy of Information and Communications Technology
	13:56-14:09	<b>Tornado-induced Risk Analysis of Railway System Considering the Correlation of Parameters</b> Cheng Yang, Associate Professor, College of Civil Engineering, Southwest Jiaotong University
	14:09-14:22	<b>Research on the Mechanism of Landslide Disasters on In-service Highway Embankments Induced by Extreme Rainfall Based on Large-scale Geotechnical Centrifuge Tests</b> Chongqiang Zhu, Professor, Tongji University
	14:22-14:35	<b>Key Technologies for Emergency Repair and Rapid Restoration of Road Infrastructure</b> Hui Li, Professor, Tongji University
	14:35-14:48	<b>Design Methods for Key Materials Improving Resilience of Transportation Infrastructure</b> Cong Ma, Associate professor, Shenzhen University
	14:48-15:01	<b>Principles and Methods for Geological Disaster Emergency Rescue</b> Yonggang Cheng, Professor-Level Senior Engineer, Sichuan Urban and Rural Development Design Company
	15:01-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session B2</b> July 21, 2025, 15:40-17:30, Room 305A <b>Topic: Artificial Intelligence for Smart Construction and Maintenance</b>		
<b>Chair: Danhui Dan, Professor, Tongji University</b> <b>Cochair: Liangfu Ge, Research Assistant Professor, The Hong Kong Polytechnic University;</b> <b>Qianqing Wang, Postdoctoral Fellow, École polytechnique fédérale de Lausanne (EPFL);</b> <b>Xuwen Yu, Postdoctoral Fellow, Nanyang Technological University</b>		
Date	Time	Speech
21-Jul	15:40-15:57	<b>Exploration Application of AI Technology in the Analysis of Bridge Structure Health Monitoring Data</b> Zhang Yufeng, Chief Engineer, JSTI Group
	15:57-16:14	<b>AI-Empowered Intelligent Bridge Construction and Maintenance: R&amp;D and Practice of the "Qiaotoubao" Platform</b> Jiwei Zhong, Deputy director, State Key Laboratory of Bridge Intelligent and Green Construction
	16:14-16:31	<b>Development of Noncontact Sensing Technologies for Construction Quality Inspection of Bridges</b> Yongding Tian, Associate Professor, Southwest Jiaotong University
21-Jul	16:31-16:48	<b>Construction of Bridge Cluster Monitoring and Governance Platform with Cross-Platform Multi-Tier Networking Technology</b> Xin Yan, Professor, Highway Research Institute of the Ministry of Transport
	16:48-17:05	<b>Smart and Real-time Urban Built-Environment Scanning Framework via Fusion of Mobile Robotic Sensing and Deep learning</b> Liangfu Ge, Associate Professor, The Hong Kong Polytechnic University
	17:05-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session C1</b> July 21, 2025, 13:30-15:20, Room 305B <b>Topic: Artificial Intelligence Empowered Theory and Methods in Bridge Engineering</b>		
<b>Chair: Bin Xu, Lecturer, Zhengzhou University</b> <b>Cochair: Fei Han, Associate Professor, Northwestern Polytechnical University;</b> <b>Liangfu Ge, Research Assistant Professor, The Hong Kong Polytechnic University;</b> <b>Xuewen Yu, Postdoctoral Fellow, Nanyang Technological University;</b> <b>Danhui Dan, Professor, Tongji University</b>		
Date	Time	Speech
21-Jul	13:30-13:50	<b>AI- Driven Structural Operation Status and Service Performance Monitoring Method</b> Jun-Qing Lei, Professor, Beijing Jiaotong University
	13:50-14:10	<b>Application of 3D Laser Scanning Technology in Bridge Construction</b> Dong Liang, Professor, Hebei University of Technology
	14:10-14:30	<b>Fatigue Crack Detection and Localization in Steel Box Girder using Point Cloud and Image Fusion Machine Vision</b> Yufei Liu, Associate Research Professor, Tsinghua University.
	14:30-14:50	<b>On-Line Damage Detection in Cables of Cable-Stayed Bridges from Ambient Acceleration</b> Bin Xu , Lecturer, Zhengzhou University
	14:50-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session C2</b> July 21, 2025, 15:40-17:30, Room 305B <b>Topic: Bridge Health Monitoring and Intelligent Operation and Maintenance</b>		
<b>Chair: Xiaodong Song, Associate Professor, Southeast University</b> <b>Cochair: Shizhi Chen, Associate Professor, Chang'an University</b>		
Date	Time	Speech
21-Jul	15:40-16:00	<b>Computer Vision Based Bridge Surface Damage Recognition Under Limited Supervision</b> Yang Xu, Associate Professor, Harbin Institute of Technology
	16:00-16:20	<b>Eliminating the Effects of Temperature and Vehicle Interference on Modal Frequency Identification Based on Autoencoders with Particle Swarm Optimization Backpropagation</b> Xiaodong Song, Associate Professor, Southeast University
	16:20-16:40	<b>Bridge Operational Modal Analysis Considering Excitation Variations</b> Yichen Zhu, Associate Professor, Southeast University
	16:40-17:00	<b>Dynamic Characterization Model of Lateral Coordination Performance for Prefabricated Beam Bridges Based on Vehicle-induced Response Mapping Analysis</b> Gan Yang, Lecturer, Chang'an University; Shizhi Chen, Associate Professor, Chang'an University
	17:00-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session D1</b> July 21, 2025, 13:30-15:20, Room 305C <b>Topic: Intelligent Transportation and Smart Highway</b>		
<b>Chair: Songtao Lv, Professor, Changsha University of Science and Technology</b> <b>Cochair: Wei Hao, Professor, Changsha University of Science and Technology</b>		
Date	Time	Speech
21-Jul	13:30-13:45	<b>New Advances in Digital Simulation Technology for Urban Transportation Systems: Development of the TranStar Traffic Large Model</b> Wei Wang, Professor, Southeast University
	13:45-14:00	<b>Intelligent Road Markings for Radar Perception and Structure Monitoring</b> Dawei Wang, Professor, Harbin Institute of Technology
	14:00-14:15	<b>Conductive and Wave-absorptive Asphalt Pavement Based on Nano-Carbon Coating of Aggregate</b> Zhen Leng, Professor, The Hong Kong Polytechnic University
	14:15-14:30	<b>Digital-Driven and AI-Powered: Key Technologies and Practical Explorations in the Operational Transformation of Capital Highways</b> Hao Sun, Deputy General Manager, Yunxingyu Traffic Technology LTD., Beijing, China
	14:30-14:45	<b>Key Technologies for Smart Road Construction, Operation and Maintenance</b> Dongdong Ge, Professor, Changsha University of Science and Technology
	14:45-15:00	<b>Low-Cost and High-Performance Digital Twin Technology for Highways</b> Wei Hao & Kefu Yi, Changsha University of Science and Technology
	15:00-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session D2</b> July 21, 2025, 15:40-17:30, Room 305C <b>Topic: Autonomous Driving and Vehicle-Infrastructure Cooperation</b>		
<b>Chair: Daxin Tian, Professor, Beihang University</b> <b>Cochair: Chunmian Lin, Assistant Professor, Beihang University</b>		
Date	Time	Speech
21-Jul	15:40-15:55	<b>The Vehicle-Road-Cloud Integrated Sensing, Communication, and Control System (VRC-ISCC)</b> Jianshan Zhou, Associate Professor, Beihang University
	15:55-16:10	<b>Building World Models for Autonomous Driving from the Perspective of Reducing Uncertainty</b> Chen Min, Research Assistant, Institute of Computing Technology, Chinese Academy of Sciences
	16:10-16:25	<b>Research and Application of Key Technologies for Intelligent Perception in Urban Rail Trains</b> Zhangyu Wang, Associate Professor, Beihang University
	16:25-16:40	<b>Intellicise Machine Network for Vehicle-Road Collaboration</b> Guiyang Luo, Associate Professor, Beijing University of Posts and Telecommunications
	16:40-16:55	<b>Research on 3D Perception Technologies Driven by Representation Decoupling</b> Xiaoyan Li, Assistant Professor, Beijing University of Technology
	16:55-17:10	<b>Multi-sensor Fused Perception for Networked Autonomous Driving</b> Chunmian Lin, Assistant Professor, Beihang University
	17:10-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session E1</b> July 21, 2025, 13:30-15:20, Room 305D <b>Topic: Intelligent Pavement Condition Inspection &amp; Maintenance</b>		
<b>Chair: You Zhan, Associate Professor, Southwest Jiaotong University</b> <b>Cochair: Aonan Zhang, Professor, Southwest Jiaotong University</b>		
Date	Time	Speech
21-Jul	13:30-13:47	<b>Automated Pavement Distress Detection using an Anchor-free Vision Transformer</b> Hongren Gong, Professor, Tongji University
	13:47-14:04	<b>High-Precision Real-Time Intelligent Detection of Pavement Distresses</b> Aonan Zhang, Professor, Southwest Jiaotong University
	14:04-14:21	<b>Stress Controlled Release Capsules for Asphalt Self-healing</b> Quantao Liu, Professor, Wuhan University of Technology
	14:21-14:38	<b>Intelligent Recognition of GPR Road Hidden Defect and Pipeline Images Based on Feature Fusion and Attention Mechanism</b> Zepeng Fan, Associate Professor, Harbin Institute of Technology
	14:38-14:55	<b>Intelligent Computational Methods for Pavement Performance Evaluation and Maintenance Decision-Making</b> You Zhan, Associate Professor, Southwest Jiaotong University
	14:55-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session E2</b> July 21, 2025, 15:40-17:30, Room 305D <b>Topic: Pavement Skid Resistance Monitoring and Enhancement Technologies</b>		
<b>Chair: Dawei Wang, Professor, Harbin Institute of Technology</b> <b>Cochair: Hongzhou Zhu, Professor, Chongqing Jiaotong University</b>		
Date	Time	Speech
21-Jul	15:40-15:57	<b>Theoretical Methods and Applications for Characterizing Asphalt Pavement Surface Texture</b> Xinglin Zhou, Professor, Wuhan University of Science and Technology
	15:57-16:14	<b>Macroscopic Analysis of the Contributions of Asphalt and Aggregates to Pavement Skid Resistance</b> Lingyun Kong, Professor, Chongqing Jiaotong University
	16:14-16:31	<b>Investigation of Pavement Skid Resistance Contact Characteristics Using Pressure-Sensitive Film Technology</b> Zhi Li, Associate Professor, South China University of Technology
	16:31-16:48	<b>Key Technologies for Pavement Icing Monitoring, Early Warning, and Proactive Response Assurance</b> Tao Wen, Professorate Senior Engineer, Research Institute of Highway Ministry of Transport
	16:48-17:05	<b>Research and Application Development of High-Precision 3D Pavement Texture Super-Resolution Reconstruction and Skid Resistance Evaluation Methods</b> You Zhan, Associate Professor, Southwest Jiaotong University
	17:05-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session F1</b> July 21, 2025, 13:30-15:20, Room 305E <b>Topic: New Technologies in Cement Concrete Pavement</b>		
<b>Chair: Ya Wei, Professor, Tsinghua University;</b> <b>Co-Chair: Yalin Liu, University of Science and Technology Beijing</b>		
Date	Time	Speech
21-Jul	13:30-13:47	<b>Intelligent Construction of Cement Concrete Pavement----Integrating Modern Slipform Machinery with Advanced Cement Concrete Material Science</b> Zhi Fu, Research Professor, Research Institute of Highway, Ministry of Transport
	13:47-14:04	<b>Weak Form Quadrature Element Analysis of Cracked Thin Plates</b> Hongzhi ZHONG, Professor, Tsinghua University
	14:04-14:21	<b>Multi-objective Optimization, Enhancement Mechanism and Engineering Applications of High Performance Porous Concrete</b> Mulian Zheng, Professor, Chang'an University
	14:21-14:38	<b>A Preliminary Exploration of Several Technical Issues in Road Maintenance</b> Qun Yang, Professor, Tongji University
	14:38-14:55	<b>Experimental and Numerical Simulation Studies of Electrical Resistance of Cementitious Materials under Varying Temperature History</b> Siming Liang, Associate Professor, Sun Yat-Sen University
	14:55-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session F2</b> July 21, 2025, 15:40-17:30, Room 305E <b>Topic: Deterioration Behavior and Durability Enhancement Technologies of Cement Concrete Pavement</b>		
<b>Chair: Zhengfeng Zhou, Associate Professor, Southwest Jiaotong University</b>		
Date	Time	Speech
21-Jul	15:40-15:57	<b>Dynamic Mechanical Response of Full-Scale Pavement Structures under Heavy Loading</b> Qinglong You, Associate Professor, Chang'an University
	15:57-16:14	<b>Damage-Fracture Model for Cement Concrete</b> Zhengfeng Zhou, Professor, Southwest Jiaotong University
	16:14-16:31	<b>Evaluation and Improvement Directions for ACR-PCR of Airport Cement Pavement Bearing Capacity</b> Lukuan Ma, Associate Professor, Civil Aviation University of China
	16:31-16:48	<b>Extension and Conversion of Technical Condition Evaluation System for Road Structures</b> Cong Li , Professor, Guilin University of Electronic Technology
	16:48-17:05	<b>Yield Criterion of High-Performance Porous Concrete</b> Guanglei Qu, Chang'an University
	17:05-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session G1</b> July 21, 2025, 13:30-15:20, Room 310 <b>Topic: Sustainability and Resilience for Road Infrastructure-1</b>		
<b>Chair: Hui Li, Professor, Tongji University;</b> <b>Co-Chair: Cong Ma, Professor, Tongji University</b>		
Date	Time	Speech
21-Jul	13:30-13:47	<b>Trenchless Resilient Rehabilitation Technology for Deep-Seated Road Defects</b> Yanhui Zhong, Professor, Zhengzhou University
	13:47-14:04	<b>China Communications Construction Company's exploration and practice of green and low-carbon development</b> Fan Zhang, Professor-level Senior Engineer/Deputy Director of the Green and Low-carbon Development Research Center, China Communications Construction Company
	14:04-14:21	<b>Construction, practice, development and prospects of green transportation standard system</b> Ji Wang, Associate Researcher, Standard and Metrology Research Center, Institute of Science and Technology of the Ministry of Transport
	14:21-14:38	<b>The impact of high-impact weather on transportation under the background of climate change</b> Hongbin Wang, Professor-level Senior Engineer, Nanjing Innovation Institute for Atmospheric Sciences
	14:38-14:55	<b>Research and Practice on Green and Low-Carbon Preventive Maintenance Technology for Asphalt Pavements of Shanxi Expressways</b> Hengji Zhang, Senior Engineer/Senior Specialist, STHG Technology Transformation Co.,Ltd.
	14:55-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session G2</b> July 21, 2025, 15:40-17:30, Room 310 <b>Topic: Sustainability and Resilience for Road Infrastructure-2</b>		
<b>Chair: Hui Li, Professor, Tongji University;</b> <b>Co-Chair: Cong Ma, Professor, Tongji University</b>		
Date	Time	Speech
21-Jul	15:40-16:00	<b>Large-scale model-driven disaster warning of transportation infrastructure</b> Bowen Du , Professor, Beihang University
	16:00-16:20	<b>Exploration of Integrated Space-Air-Ground Monitoring and Early Warning Technology for Transportation Infrastructure Safety</b> Zhongqi Shi, National Science and Technology Institute of Urban Safety Development
	16:20-16:40	<b>Perception and Practice of Highway Abnormal Event Detection and Early Warning</b> Yandong Zhao, Associate research fellow, Intelligent Road Cloud Transportation Science & Technology Company
	16:40-17:00	<b>Ecology and resilience of transportation infrastructure: theory and practice</b> Hui Li, Professor, Tongji University
	17:00-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session H1</b> July 21, 2025, 13:30-15:20, Room 311A <b>Topic: Low-carbon and Durable Polyurethane-based Paving Materials and Technology</b>		
<b>Chair: Shifa Xu, Professor, Beijing University of Civil Engineering and Architecture</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
21-Jul	13:30-13:50	<b>Noise-Reducing Polyurethane Porous Elastic Mixture: Development, Water Stability, and Aging Resistance</b> Bingye Han, Associate Proferssor, Beijing University of Civil Engineering and Architecture
	13:50-14:10	<b>Effect of the Thermal-Oxidative Aging on the Road Performance and Noise Reduction Ability of Polyurethane Porous Elastic Road Surface</b> Hongjiu Liu, Southeast University Research Institute Of Highway Ministry Of Transport
	14:10-14:30	<b>The Performance and Application Prospect of Polyurethane Modified Asphalt Reclaimed Pavement with 100% RAP</b> Bin Hong, Professor, Hohai University
	14:30-14:50	<b>Development and Typical Application of Polyurthane Based Paving Material</b> Zhanghui Li, Ph.D., Beijing University Of Civil Engineering And Architecture
	14:50-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session H2</b> July 21, 2025, 15:40-17:30, Room 311A <b>Topic: Challenges of Multi-physics Service Environments on Asphalt Pavement</b>		
<b>Chair: Wentao Wang, Assistant Professor, University of Science and Technology Beijing</b> <b>Cochair: Kang Zhao, Assistant Professor, Liaoning University of Technology</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
21-Jul	15:40-15:55	<b>Functional Degradation Prevention of Pavement in Extreme Conditions: Engineering Practices of Cold Paving Technology</b> Peng Xing, Senior engineer, CCCC Infrastructure Maintenance Group Co., Ltd
	15:55-16:10	<b>Application of Asphalt Mixture Recycling Technology Based on Fine Stripping and Screening</b> Xiangyang Fan, Jiangxi Communications Investment Maintenance Technology Group Co., Ltd
	16:10-16:25	<b>Demonstration Project for Comprehensive Application of Recycled Solid Waste Materials in Full-Depth Road Structure</b> Jianfeng Li, Ph.D., Deputy General Manager, Shanxi Road & Bridge Group Test and Detection Center Co., Ltd
	16:25-16:40	<b>Complete Technology for Natural Aging Mechanism and Durability Improvement of Asphalt Pavement in Typical Climatic Regions of Northwest China</b> Shanglin Song , Senior Engineer, Gansu Provincial Highway Development Group Co., Ltd
	16:40-16:55	<b>Effects of Fine RAP Content and Mixing Procedure on Recycled Asphalt Mixture Performance</b> Sudi Wang, Research Assistant, Research Institute of Highway Ministry of Transport, PRC
	16:55-17:10	<b>Influence of Service Environment Concerning Dynamic Water Pressure on Asphalt Pavement</b> Wentao Wang, Assistant Professor, University of Science and Technology Beijing
	17:10-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session I1</b> July 21, 2025, 13:30-15:20, Room 311B <b>Topic: Next-Generation Resilient Airport Infrastructure: Key Technologies and Future Outlook</b>		
<b>Chair: Jianming Ling, Professor, Tongji University</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
21-Jul	13:30-13:50	<b>Technology for Enhancing Durability and Airworthiness of Airport Runways in Harsh Conditions</b> Jianming Ling, Professor, Tongji University
	13:50-14:10	<b>To Be Available</b> Xinyan Ma, Senior Engineer, Civil Aviation Administration of China Research Base
	14:10-14:30	<b>Construction of a Full-Scale Accelerated Loading Test Platform for Civil Aviation Airport Pavements</b> Lin Qi, Professor, Civil Aviation University of China
	14:30-14:50	<b>Technological Innovation Facilitating Airport Operation Safety Assurance</b> Yubin Xu, Director, China Academy of Civil Aviation Science and Technology
	14:50-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session I2</b> July 21, 2025, 15:40-17:30, Room 311B <b>Topic: Smart Low-Altitude Transportation Systems: Development Pathways and Frontier Innovations</b>		
<b>Chair: Yu Tian, Professor, Tongji University</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
21-Jul	15:40-16:00	<b>Development of Intelligent Civil Aviation in the New Generation AI Era</b> Yi Liu, Professor, Civil Aviation Management Institute of China
	16:00-16:20	<b>Innovative Development of Air Transport and Low-Altitude Economy Research</b> Yu Tian, Professor, Tongji University
	16:20-16:40	<b>Challenges and Countermeasure Technologies for Low-Altitude Flight Operations</b> Xianlong Tan, Professor, The Second Research Institute of Civil Aviation Administration of China
	16:40-17:00	<b>To Be Available</b> Yilong Ren, Associate Professor, Beihang University
	17:00-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session J1</b> July 21, 2025, 13:30-15:20, Room 311C <b>Topic: Highway Geotechnical Engineering Theory and Technology</b>		
<b>Chair: Sheqiang Cui, Professor, Shandong University</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
21-Jul	13:30-13:47	<b>Cyclic Behaviour of Unsaturated Subgrade Soil Considering Principal Stress Rotation</b> Chao Zhou, Professor, The Hong Kong Polytechnic University
	13:47-14:04	<b>A Data Augmentation and Intelligent Detection Method for Road Diseases Based on 3D Ground Penetrating Radar and Deep Learning</b> Jiong Zhang, Professor, Shandong University
	14:04-14:21	<b>Void Detection between Track Structure and Supporting Layers: Theoretical and Equipment Developmen</b> Bowen Hou, Professor, Beijing Jiaotong University
	14:21-14:38	<b>Recycling of construction waste in earthen cover system for slope stability</b> Haowen Guo, Professor, Harbin Institute of Technology, Shenzhen
	14:38-14:55	<b>Soil Water Migrating under Freezing-Thawing Cycles and Reinforcing-Wicking Integrated Treatment</b> Chuang Lin, Associate Professor, Harbin Institute of Technology
	14:55-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session J2</b> July 21, 2025, 15:40-17:30, Room 311C <b>Topic: Multi-Scale Performance Enhancement Technologies for Transport Infrastructure</b>		
<b>Chair: Xianhua Chen, Professor, Southeast University</b> <b>Cochair: Bo Li, Professor, Lanzhou Jiaotong University</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
21-Jul	15:40-15:57	<b>Multi-Index Evaluation of Low-Temperature Performance for Devulcanized Rubber Powder Modified Asphalt and Its Mixtures</b> Bo Li, Professor, Lanzhou Jiaotong University
	15:57-16:14	<b>Asphalt Layers for CRTS of Highspeed Railway</b> Xianhua Chen, Professor, Southeast University
	16:14-16:31	<b>The Real-Time Pavement Distress Detection System Based on Edge-Cloud Collaborative Computing</b> Yucheng Huang, Associate Professor, Soochow University
	16:31-16:48	<b>Design, Preparation, and Performance Study of High-Performance EPS Concrete</b> Ji Yuan, Associate Professor, Taizhou University
	16:48-17:05	<b>Vehicle Load Identification and Pavement Response Monitoring Using Roadside MEMS Accelerometers and Embedded Piezoelectric Sensors</b> Qian Zhao, Post Doctor, China Railway Design Corporation
	17:05-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session A3</b> July 22, 2025, 13:30-15:20, Room 303 <b>Topic: AI-Powered Smart Roads: Next-Gen Infrastructure and Collaborative Vehicle-Road Ecosystems</b>		
<b>Chair: Xinyi Zhu, Professor, Tongji University</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
22-Jul	13:30-13:47	<b>AI-empowered Smart Sensing Road for Vehicle-Road Collaboration</b> Xinyi Zhu, Professor, Tongji University
	13:47-14:04	<b>Surface Texture Optimization of Prefabricated Pavement</b> Yuhong Wang, Professor, The Hong Kong Polytechnic University
	14:04-14:21	<b>Vehicle Assisted Positioning Method Utilizing Road Signs in Complex Urban Road Environment</b> Zhiguo Zhao, Professor, Tongji University
	14:21-14:38	<b>The Intelligent Traffic Guidance Based on Novel Pavement Markers for The Diversion Areas of Expressways</b> Bo Yu, Associate Professor, Tongji University
	14:38-14:55	<b>Engineering-adaptive Pavement Maintenance Decision-making Model: a Reinforcement Learning Approach from Expert Feedback</b> Wenyuan Cai, Professor, Tongji University
	14:55-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session A4</b> July 22, 2025, 15:40-17:30, Room 303 <b>Topic: Driver Behavior Characteristics Analysis and Innovative Applications</b>		
<b>Chair: Xiaohua Zhao, Professor, Beijing University of Technology</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
22-Jul	15:40-15:57	<b>Application of Driving Simulation Clusters in Traffic Safety</b> Qingfeng Lin, Associate Professor, Beihang University
	15:57-16:14	<b>Driver Supervisory Attention Management for Automated Vehicle</b> Penghui Li, Associate Professor, Beijing Jiaotong University
	16:14-16:31	<b>Driver-Automation Trust and Cooperative Driving Strategies for Intelligent Vehicles</b> Qingkun Li, Assistant Professor, Institute of Software Chinese Academy of Science
	16:31-16:48	<b>PODAR: A Generalized Vehicle Collision Risk Modeling Framework for Multi-Scenario Applications</b> Chen Chen, Assistant Professor, Beijing University of Technology
	16:48-17:05	<b>Study on the Critical Rollover Conditions of Trucks on Curved Highway Segments Under Sand-Accumulated Road Conditions Based on LSTM</b> Liyi Sun, Master's Candidate, Ningxia University
	17:05-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session B3</b> July 22, 2025, 13:30-15:20, Room 305A <b>Topic: Intermodal Transport and Smart Logistics</b>		
<b>Chair: Cheng Cheng, Associate Professor, Southeast University</b> <b>Cochair: Yong Zhang, Professor, Southeast University</b>		
Date	Time	Speech
22-Jul	13:30-13:50	<b>From Nodes to Network: Advancing Integrated Modern Logistics through Intermodal Transport</b> Yongcun Wei, Chief Engineer, Research Institute of Transport Planning, Ministry of Transport
	13:50-14:10	<b>Development Trajectory of Smart Ports: Current Status and Future Prospects</b> Hankun Shi, Senior Engineer, Water Transport Research Institute, Ministry of Transport
	14:10-14:30	<b>Toward Greener Freight: Assessing the Policy Impact of "Modal Shift from Road to Railway"</b> Huiyu Zhou, Professor, Beijing Jiaotong University
	14:30-14:50	<b>A Bilevel Model for Robust Network Design and Biomass Pricing Under Farmers' Risk Attitudes and Supply Uncertainty</b> Qiaofeng Li, Doctor, Beijing Jiaotong University
	14:50-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session B4</b> July 22, 2025, 15:40-17:30, Room 305A <b>Topic: Advances in Smart Urban Mobility Technologies</b>		
<b>Chair: De Zhao, Associate Professor, Southeast University</b> <b>Cochair: Yu Zhou, Professor, Beihang University</b>		
Date	Time	Speech
22-Jul	15:40-15:57	<b>Passenger Flow Sensing and Collaborative Scheduling for Rail Transit Efficiency</b> Lishan Sun, Professor/Dean, Beijing University of Technology
	15:57-16:14	<b>Collaborative Perception for Intelligent Connected Vehicles in Complex Traffic Scenarios</b> Mingfang Zhang, Associate Professor, North China University of Technology
	16:14-16:31	<b>Microscopic Traffic Simulation and Vehicle Motion Optimization Technology in New Mixed Traffic Environments</b> Miaomiao Liu, Associate Professor, Beihang University
	16:31-16:48	<b>Multi-Objective Optimization Design of Transit Network and Operating Frequency - Considering Passengers' Choice Behaviors under Station Congestion</b> Mingzhang Liang, Assistant Professor, Southeast University
	16:48-17:05	<b>Research on Home Autonomous Driving Travel Itinerary Planning and Application Exploration</b> Xiaojing Han, Master's Candidate, Beijing University of Technology
	17:05-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session C3</b> July 22, 2025, 13:30-15:20, Room 305B <b>Topic: Digital Twin Modelling of Autonomous Road Infrastructures and Environment</b>		
<b>Chair: Yuqing Zhang, Professor, Southeast University</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
22-Jul	13:30-13:47	<b>Digital Twin Enabling Technologies for Advancing Road Engineering and Lifecycle Applications</b> Yu Yan, Professor, Tongji University
	13:47-14:04	<b>Electrical Characteristics and Damage-Monitoring Performance of Self-Sensing Asphalt Concrete</b> Yangming Gao, Senior Lecturer, Liverpool John Mores University, UK
	14:04-14:21	<b>How to Update the Digital Twin? —A Fault Tree Risk Analysis for Pavement Infrastructure</b> Qiao Dong, Professor, Southeast University
	14:21-14:38	<b>Intelligent Inspection and Digital Management of Airport Pavement</b> Xu Yang, Professor, Chang'an University
	14:38-14:55	<b>Exploring the Application of Digital Twins in Infrastructure Engineering-improving Asphalt Pavement Construction</b> Chonghui Wang, Lecturer, Aston University, UK.
	14:55-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		

<b>Parallel Session C4</b> July 22, 2025, 15:40-17:30, Room 305B <b>Topic: Expert Commentary</b>		
Graduate students presentations (8min/presentation)		
Date	Time	Speech
22-Jul	15:40-16:12	<b>Development of an Intelligent Detection System for Crown Voids and Air Bubbles in Tunnel Linings Based on Multi-Directional Ultrasonic Sensing</b> Linghui Kong, Tsinghua University
		<b>Research On Structural Design Of Shield Tunnels Under Deep Burial Depth And High Water Pressure</b> Siqi Yang, Hunan University
		<b>Multiscale Fracture Mechanics Corrosion Prediction Model of Concrete Based on Nano- and Microscale Parameters from SEM and AFM PF-QNM</b> Huifang Liu, University of Science and Technology Beijing
		<b>Research On Experimental Study And Analytical Theory Of Stress Evolution Around A Tunnel In Reclaimed Unconsolidated Layers</b> Xinxin Yang, Hunan University
	16:12-16:44	<b>Preparation of Low Temperature Rapid Curing Self-Healing Microcapsules Based on Polythiol</b> Jiajia Sheng, University of Science and Technology Beijing
		<b>Reinforcement Mechanism and Design Method for Cracked Tunnels Based on Sprayed UHPC Technology</b> Tao Chen, Hunan University
		<b>A Physics-Informed Fuzzy Clustering Prediction Method: A Case Study on Vehicle Weight Identification Based on Pavement Vibration Signals</b> Songli Yang, University of Science and Technology Beijing
		<b>Study on Mechanical Behavior of Ultra High Performance Concrete (UHPC) Filled GFRP Tubular Arch</b> Zhenyuan Yang, Nanjing Tech University
22-Jul	16:44-17:16	<b>Considering the Influence of the Constitutive Model for Asphalt Concrete and Thermal Expansion Property of Base Material on Pavement Response</b> Longqi Yan, Beijing University of Technology
		<b>Study on Creep Behavior and Prediction Models of Internal Curing UHPC</b> Weichen Fan, University of Science and Technology Beijing
		<b>Acoustic Emission-Based Statistical Modeling of Low-Temperature Damage in Steel Slag and Crumb Rubber Modified Asphalt Mixture</b> Tao Li, Inner Mongolia University of Technology
		<b>Experimental Testing and Analysis of Long-term Time-dependent Deformation of Prestressed Ultra-high Performance Concrete Beams</b> Changliang Sun, University of Science and Technology Beijing
	17:16-17:32	<b>Multiscale Modeling and Temperature Field Analysis of Asphalt Pavement</b> Jiahao Bai, University of Science and Technology Beijing
		<b>Data-Driven Inverse Analysis of Axle Loads and Surface Modulus in Asphalt Pavements Using Vibration Measurements</b> Fei Yang, University of Science and Technology Beijing

<b>Parallel Session D3</b> July 22, 2025, 13:30-15:20, Room 305C <b>Topic: Performance-Related Material Properties of Asphalt Mixture Components</b>		
<b>Chair: Haibo Ding, Associate Professor, Southwest Jiaotong University</b> <b>Cochair: Lei Lyu, Lecturer, Chang'an University</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
22-Jul	13:30-13:45	<b>Optimized Asphalt Mix Design Method Based on Viscoelastic Properties</b> Meng Ling, Professor, Beijing University of Civil Engineering and Architecture
	13:45-14:00	<b>Upscaling Prediction of Dynamic Compression Viscoelastic Properties of Asphalt Mortar from Asphalt Mastic</b> Derun Zhang, Associate Professor, Huazhong University Of Science And Technology
	14:00-14:15	<b>Evaluation of Degradation and Cracking Behavior in Hot In-Place Recycled Asphalt Mixtures and Fine</b> Yao Zhang, Associate Professor, Yangzhou University
	14:15-14:30	<b>Application of Corn Straw Biochar in Pavement Asphalt: Suppression of Hazardous Fume Emissions and Maintenance of Rheological Properties</b> Yiming Li, Associate Professor, Northeast Forestry University
	14:30-14:45	<b>Exploring the Enhancement Mechanisms of Bio-Oils and Crumb Rubber in Asphalt Binders</b> Lei Lyu, Lecturer, Chang'an University
	14:45-15:00	<b>Precipitation and Prediction of Crystalline Components in Asphalt</b> Haibo Ding, Associate Professor, Southwest Jiaotong University
	15:00-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session D4</b> July 22, 2025, 15:40-17:30, Room 305C <b>Topic: Environmental-Friendly Pavement Materials</b>		
<b>Chair: Yue Xiao, Professor, Chang'an University</b> <b>Cochair: Quantao Liu, Professor, Wuhan University of Technology; Jiuguang Geng, Associate Professor, Chang'an University</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
22-Jul	15:40-15:57	<b>Mechanisms of Antioxidant Intercalated LDHs on Enhancement Oof Thermal Oxidative and UV Aging Resistances of Asphalt Binder</b> Quantao Liu, Professor, Wuhan University of Technology
	15:57-16:14	<b>Quantification and Deodorization of Emissions from High Content Rubber Modified Asphalt</b> Naipeng Tang, Associate Professor, Chongqing Jiaotong University
	16:14-16:31	<b>Mechanism of Zinc Stearate on the Sulfidation Gases from Crumb Rubber Modified Asphalt</b> Jiuguang Geng, Associate Professor, Chang'An University
	16:31-16:48	<b>Research on Data-Driven Decision-Making Technology for Green Pavement Maintenance and Quantitative Assessment of Carbon Emissions</b> Mingwei Yi, Doctor R&D Supervisor, RoadmainT Co., Ltd.
	16:48-17:05	<b>Micro-Mesoporous Design and Surface Metal Loading of Zeolites for Asphalt VOCs Emission Reduction</b> Xiwen Chang, Lecturer, Chang'An University
	17:05-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session E3</b> July 22, 2025, 13:30-15:20, Room 305D <b>Topic: Sustainable Cement Materials for Transportation Infrastructure</b>		
<b>Chair: Qiao Dong, Professor, Southeast University</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
22-Jul	13:30-13:45	<b>Fracture Investigation and Acoustic Emission Characteristics of Semi-Flexible Pavement Materials Under Different Temperatures</b> Weiming Song, Associate Professor, Central South University
	13:45-14:00	<b>Study on the Synergistic Stabilization Effect of Solid Waste-Based Cement on Environmental Pollutants</b> Yongjie Ding, Professor, Beijing University of Technology
	14:00-14:15	<b>Magnesium Phosphate Cement Mortar for Rapid Repair on Concrete Pavement in Seasonal Frozen Areas</b> Changjun Zhou, Associate Professor, Dalian University of Technology
	14:15-14:30	<b>Properties of Phosphogypsum-Modified Slope Substrates</b> Shanshan Jin, Associate Professor, Beijing University of Civil Engineering and Architecture
	14:30-14:45	<b>Fluidized Solidification of Red Clay using Multiphase Phosphogypsum-Based Cementitious Material</b> Hao Wu, Professor, Central South University
	14:45-15:00	<b>Nondestructive Evaluation of Concrete Permeability and Enhanced Corrosion Resistance via Surface Treatment</b> Qiao Dong, Professor, Southeast University
	15:00-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session E4</b> July 22, 2025, 15:40-17:30, Room 305D <b>Topic: 3D Printing Materials Innovation and Technical Research for Civil Transportation Infrastructure</b>		
<b>Chair: Jie Xu, Professor, Tianjin University</b>		
<b>Cochair: Xue Luo, Professor, Zhejiang University; Wen Xu, Postdoc, Taizhou University</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
22-Jul	15:40-15:57	<b>Research on the Printing Process and Filament Shape of 3D Printing Concrete in Low Gravity</b> Song Han, Professor, Beijing Jiaotong University
	15:57-16:14	<b>Research on the Mechanical Behavior of 3D Printed Geopolymer concrete Containing Waste Ceramic</b> Jie Xu, Professor, Tianjin University
	16:14-16:31	<b>High-Value Utilization and Integration of Structural and Functional Properties of Bulk Solid Waste in 3D Printed Cement-Based Components</b> Yaoyu Wang, Associate Professor, Dalian University
	16:31-16:48	<b>Performance and Design Method of the 3D Printed Concrete Truss Structures</b> Qiang Wang, Lecturer, Hebei University of Technology
	16:48-17:05	<b>Research on Pore Characteristics of 3D Printing Carbon Fiber Reinforced Green Concrete</b> Wen Xu, Lecturer, Taizhou University
	17:05-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session F3</b> July 22, 2025, 13:30-15:20, Room 305E		
<b>Topic: Automated solutions for infrastructures</b>		
<b>Chair: Hui Yao, Professor, Beijing University of Technology</b> <b>Cochair: Hailu Yang, Associate Professor, University of Science and Technology Beijing</b>		
Date	Time	Speech
22-Jul	13:30-13:47	<b>Infrastructure - Artificial Intelligence</b> Yue Liu, Professor, University of Science and Technology Beijing
	13:47-14:04	<b>Moon Road - Artificial Intelligence</b> Feng Li, Professor, Beihang University
	14:04-14:21	<b>Hydraulic Engineering - Artificial Intelligence</b> Xiao Sun, Professor, Hohai University
	14:21-14:38	<b>Railway Engineering - Artificial Intelligence</b> Xuhao Cui, Professor, Beijing University of Technology
	14:38-14:55	<b>Image Processing - Artificial Intelligence</b> Huyan Ju, Professor, Chang'an University
	14:55-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		

<b>Parallel Session F4</b> July 22, 2025, 15:40-17:30, Room 305E		
Topic: Expert Commentary		
Graduate students presentations (8min/presentation)		
Date	Time	Speech
22-Jul	15:40-16:14	<b>Effects of Freeze-Thaw Cycles on Fatigue Performance of Asphalt Mixture and a Fatigue-Freeze-Thaw Damage Evolution Model</b> Xin Li, Inner Mongolia University Of Technology
		<b>Effects of Hazardous Spills by Road Accidents on Pavement Texture and its Deterioration Mechanism</b> Zhenlong Gong, University of Science and Technology Beijing
		<b>Long-Chain Alkyl Emulsifiers Induced Asphalt Particle Dispersion: Lipophilicity-Enhancement Effect</b> Songxiang Zhu, Chongqing Jiaotong University
		<b>Investigation of the Topological Characteristics of Force Chain Network in Aggregate Blend Using Discrete Element Method and Complex Network Theory</b> Weixiao Yu, University of Science and Technology Beijing
	16:14-16:48	<b>Cracking Characteristics of Warm-Mix Recycled Fiber Asphalt Mixture under Mode I, Mode III, and Mixed-Mode I/III Based on Acoustic Emission Technology</b> ZhiQiang Liu, Inner Mongolia University of Technology
		<b>Research on Rutting Prediction Model and Characteristics of Full-scale Asphalt Concrete Pavement Based on Data-Driven Method</b> Pengpeng Li, University of Science and Technology Beijing
		<b>Study on the Low-Temperature Cracking Characteristics of Warm-Mix Steel Slag and Rubber Powder Modified Asphalt Mixtures Based on Acoustic Emission Technology</b> Die Hu, Inner Mongolia University of Technology
		<b>Application of Explicit Analysis Methods in Dynamic Response Analysis of Asphalt Pavements under Traffic Loading</b> Xiangrui Han, University of Science and Technology Beijing
22-Jul	16:48-17:30	<b>Quantitative Characterization and Stochastic Generation Methods for Three-Dimensional Morphology of Aggregates</b> Yawen Shang, University of Science and Technology Beijing
		<b>A Study on the Microscopic Contact Characteristics of Tire–Pavement Interaction Considering Multiple Factors</b> Yiting Liu, University of Science and Technology Beijing
		<b>Multi-source Data Processing and Analysis for Intelligent Compaction of Asphalt Pavements</b> Yingjun Bao, University of Science and Technology Beijing
		<b>Research on Maintenance Decision-making Method Based on Evaluation Index of Longitudinal Crackson Expressways and Road Surface Material Tests</b> Zhisheng Han, University of Science and Technology Beijing

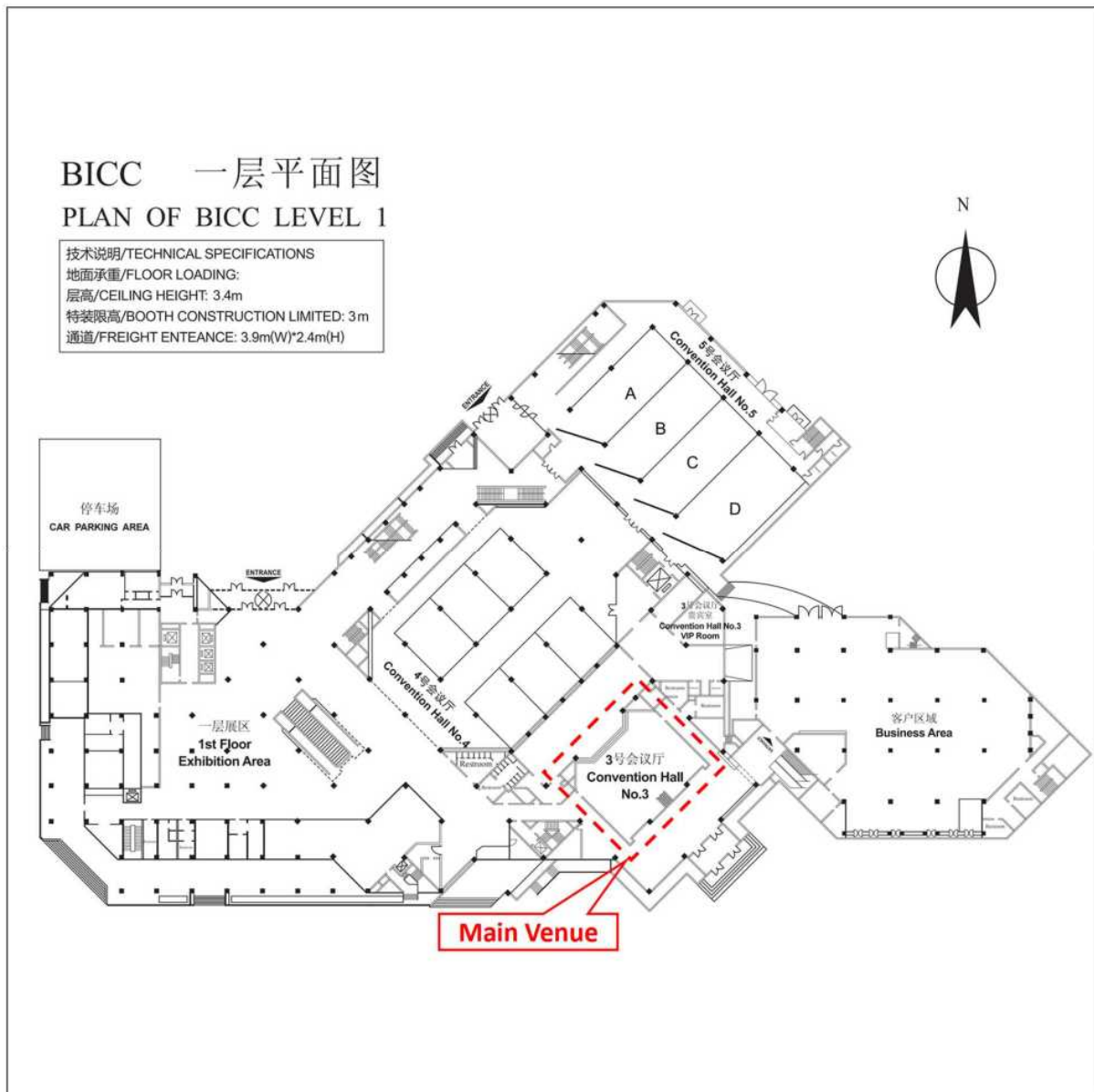
<b>Parallel Session G3</b> July 22, 2025, 13:30-15:20, Room 310 <b>Topic: Enhancing the Resilience of Bridge Structures to Extreme Events</b>		
<b>Chair: Xiaoyi Zhou, Professor, Southeast University</b> <b>Cochair: Kang Gao , Professor, Southeast University; Rujin Ma, Professor, Tongji University</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
待定	13:30-13:47	<b>A Material-Structure Integrated Design Method for Textile Composite Fire-Resistant Protection of Bridge Structural Cables Subjected to Vehicle-Induced Fires</b> Xiaoyi Zhou, Professor, Southeast University
	13:47-14:04	<b>Numerical Investigation into Assessment of Post-Blast Damage to Steel Box Girder Under Vehicle Fire</b> Rujin Ma, Professor, Tongji University
	14:04-14:21	<b>Finite Element Method-Based Data-Driven Multi-Damage Detection Methods for 1D and 2D Bridge Models: Theoretical and Experimental Studies</b> Kang Gao, Professor, Southeast University
	14:21-14:38	<b>Study on Optimal Seismic-Resistant System and Seismic Resilience Enhancement Strategies for Long-Span Self-Anchored Suspension Bridges with Twin Towers and Spatial Cable Planes</b> Hui Qu, Senior Engineer, Tongji Architecture (Design (Group) Co. Ltd.
	14:38-14:55	<b>Effect of Fire Insulation on Fire Performance of the Concrete Beams Strengthened With the CFRP Sheets Pasted by Magnesium Phosphate Inorganic Adhesive</b> Pengfei Ren, Associate Professor, Shandong Jianzhu University
	14:55-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session G4</b> July 22, 2025, 15:40-17:30, Room 310 <b>Topic: Constructing Green Technology Systems for Road Engineering</b>		
<b>Chair: Jiangmiao Yu, Professor, South China University of Technology</b> <b>Cochair: Wanqiu Liu, Professor, Hainan University</b>		
<b>Date</b>	<b>Time</b>	<b>Speech</b>
22-Jul	13:30-13:50	<b>Application and Assessment of Eco-Friendly Materials in Tropical Island Road Engineering</b> Wanqiu Liu, Professor, Hainan University
	13:50-14:10	<b>Development on Low-Noise Friction Course with New Thinking &amp; Application</b> Jiangmiao Yu, Professor, South China University of Technology
	14:10-14:30	<b>Synergistic Utilization of Steel Slag Coarse and Fine Aggregates in Asphalt Concrete: Durability and Life-Cycle Carbon Emission Evaluation</b> Zongwu Chen, Associate Professor, China University of Geosciences
	14:30-14:50	<b>Analysis of Anti-aging properties of Reactive rejuvenated SBS Modified Bitumen</b> Chengwei Xing, Associate Professor, Chang'an University
	14:50-15:20	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session H3</b> July 22, 2025, 13:30-15:20, Room 311A <b>Topic: Workshop of Interdisciplinary Research on Transportation Infrastructure</b>		
<b>Chair: Xue Luo, Professor, Zhejiang University</b> <b>Cochair: Zhen Leng, Professor, The Hong Kong Polytechnic University</b>		
Date	Time	Speech
22-Jul	13:30-13:45	<b>Temperature Correction for Traffic Speed Deflectometer Measurements on Flexible Pavement Using ANN Models</b> Kairen Shen, Ph.D. Candidate, Rutgers University
	13:45-14:00	<b>Research on Internal Structure Image Analysis of Asphalt Mixture and Method of Crack Resistance Performance Design</b> Jiaying Du, South China University of Technology
	14:00-14:15	<b>Field Measurement and Monitoring of Oxygen Concentration in Asphalt Pavements</b> Xingyu Chen, Postdoc, The Hong Kong Polytechnic University
	14:15-14:30	<b>Research on Void Clogging Characteristics and Automated Clogging Level Identification Method for Porous Asphalt Pavements</b> Ke Pei, South China University of Technology
	14:30-14:45	<b>Research on Multi-Parameter Errors Model of Backcalculated Modulus Using Abaqus Finite Element Batch Modeling Based on Python Language</b> Chunlong Xiong, , Guangzhou Maritime University
	14:45-15:00	<b>Influence of Bio-oil Molecular Characteristics on Rheological Behavior and Interfacial Adhesion of Rejuvenated Asphalt: A 3D Rendering-assisted Quantitative Evaluation</b> Yefei Wang, South China University of Technology
	15:00-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session H4</b> July 22, 2025, 15:40-17:30, Room 311A <b>Topic: Multiscale Mechanics and Data-driven Modelling for Climate Resilient Road Infrastructure and Materials</b>		
<b>Chair: Yangming Gao, Senior Lecturer, Liverpool John Moores University</b> <b>Cochair: Fan Gu, Professor, Changsha University of Science &amp; Technology</b>		
Date	Time	Speech
22-Jul	15:40-15:55	<b>Porous Road Structure for Urban Flooding Mitigation</b> Yuhong Wang, Professor, The Hong Kong Polytechnic University
	15:55-16:10	<b>Paving Sustainability Under Climate Change: A Systems Perspective</b> Zhi Cao, Professor, Tianjin University
	16:10-16:25	<b>Impacts of Climate Change on Asphalt Pavement Infrastructure</b> Shu Yang, Associate Professor, Hunan University
	16:25-16:40	<b>Urban Road Flood Resilience and Management</b> Yaning Qiao, Associate Professor, China University of Mining and Technology
	16:40-16:55	<b>Preparation of A High Stability-Viscosity-Elasticity Composite Modified Asphalt with Bio-Devulcanized Rubber Powder</b> Derun Zhang, Associate Professor, Huazhong University of Science and Technology
	16:55-17:10	<b>Effect of Coordination Number of Particle Contact Force on Rutting Resistance of Asphalt Mixture under High Temperature Conditions</b> Dongyu Niu, Associate Professor, Chang'An University
	17:10-17:30	<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session I3</b> July 22, 2025, 13:30-15:20, Room 311B <b>Topic: Cutting-Edge AI Techniques for the Future of Civil Engineering</b>		
<b>Chair: Fangyu Liu, Professor, Tongji University</b> <b>Cochair: Xiaojun Li, Professor, Tongji University; Zhoujing Ye, Associate Professor, University of Science and Technology Beijing</b>		
Date	Time	Speech
22-Jul	13:30-13:47	<b>Infrared Thermography and Deep Learning for Pavement Distress Detection</b> Fangyu Liu, Professor, Tongji University
	13:47-14:04	<b>Machine Learning and Deep Reinforcement Learning for Asphalt Concrete Mix Design</b> Jian Liu, Assistant Professor, University of Georgia
	14:04-14:21	<b>Exploration and Practice of AI Empowering the Construction Industry</b> Ruifeng Luo, East China Architectural Design & Research Institute Co., Ltd., Huajian Grou
	14:21-14:38	<b>Geological Digital Twin of Tunnel Construction Based on Multi-Source Information Fusion</b> Huaiyuan Sun, Phd student, Tongji University
	14:38-14:55	<b>Research on Trajectory Optimization of Intelligent Arch Trolley Based on Particle Swarm Optimization</b> Ruijia Li, Phd student, Tongji University
	14:55-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		
<b>Parallel Session I4</b> July 22, 2025, 15:40-17:30, Room 311B <b>Topic: Round-Table Forum (Future Underground Space: Resilience, Intelligence and Sustainability )</b>		
<b>Chair: Qing Chen, Professor, Tongji University</b> <b>Cochair: Yafei Qiao, Associate Professor, Tongji University</b>		
Date	Time	Guests
22-Jul	15:40-17:30	Wenqi Ding, Professor, Tongji University
		Ruifeng Luo, Engineer, East China Architectural Design & Research Institute Co., Ltd., China State Construction Engineering Corporation
		To be available...
		<b>Welcome to the Round-Table Discussion!</b>
		<b>Questions &amp; Answers, Discussion</b>

<b>Parallel Session J3</b>  July 22, 2025, 13:30-15:20, Room 311C		
<b>Topic: Sustainable Solutions for Road Infrastructure Resilience</b>		
<b>Chair: Feng Ma, Professor, Chang'An University</b> <b>Co-chair: Fang Wang, Professor, Ningxia University</b>		
Date	Time	Speech
22-Jul	13:30-13:47	<b>Study on Long-Term Performance Evolution Patterns and In-Place Hot Recycling Key Technologies for Drainage Asphalt Pavement</b> MingliangLi, Professor, Research Institute of Highway, Ministry of Transport
	13:47-14:04	<b>Study on the Stability of Emulsified Asphalt with High Asphalt Content and Optimization of its Influencing Factors</b> Lingyun Kong, Professor, Chongqing Jiaotong University
	14:04-14:21	<b>Risk Assessment and Early Warning for Highway Traffic Safety in Sandstorm Environments Based on Multi-Source Data</b> Fang Wang, Professor, Ningxia University
	14:21-14:38	<b>Research on Runway Life Based on the Size Effect of Slabs</b> Chunxiang Qi, Associate Professor, Civil Aviation University of China
	14:38-14:55	<b>Activation Energy Balanced Design Approach for Recycled Asphalt Binder Blends</b> Jingxian Xu, Ph.D., Zhejiang University
	14:55-15:20	<b>Questions &amp; Answers, Discussion</b>
<b>15:20-15:40 Coffee Break</b>		

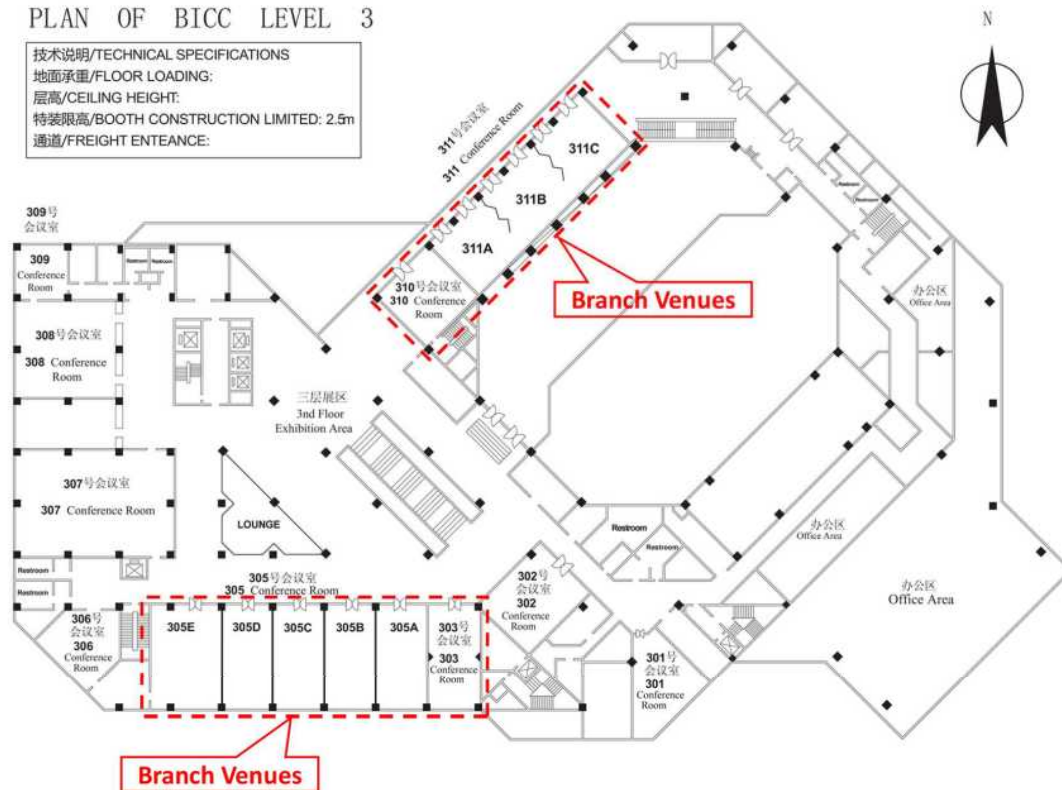
## Maps



# BICC 三层平面图

## PLAN OF BICC LEVEL 3

技术说明/TECHNICAL SPECIFICATIONS  
 地面承重/FLOOR LOADING:  
 层高/CEILING HEIGHT:  
 特装限高/BOOTH CONSTRUCTION LIMITED: 2.5m  
 通道/FREIGHT ENTENANCE:



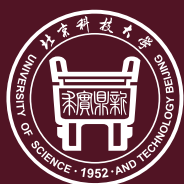
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## NOTE

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Sponsor: Related Universities and Institutes  
Organizer: University of Science and Technology Beijing  
(National Center for Materials Service Safety)