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iFRAE-W2: ICPP 2018



会议网站

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iFRAE-W2: ICPP 2018



透水铺装国际研讨会

International Conference on Permeable Pavement

会议时间: 2018 年 10 月 24-26 日 24-26, October, 2018

会议地点: 同济大学嘉定校区 (上海市嘉定区曹安公路 4800 号)

Jiading Campus, Tongji University (No.4800, Cao 'an Road, Shanghai, China)

主办单位 Host by:

同济大学 Tongji University

协办单位 Co-host by:

加州大学路面研究中心

Pavement Research Center, University of California, Davis.

德国亚琛工业大学

RWTH Aachen University

荷兰代尔夫特理工大学

Delft University of Technology

迪拜哈利法大学

Khalifa University

支持单位 Supporter:

中华人民共和国科学技术部

Ministry of Science and Technology of the People's Republic of China

上海科学技术委员会

Science and Technology Commission Shanghai Municipalit

承办单位 Organizer:

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同济大学
TONGJI UNIVERSITY



交通运输工程学院
COLLEGE OF TRANSPORTATION ENGINEERING





会议背景 | Background

我国城镇化快速发展过程中普遍存在开发强度高、地表铺装硬化等诸多问题。在城市地表未开发前 70–80% 的雨水可以自然而然地渗入地下，涵养本地生态和环境，但城市地表硬化导致只有 20–30% 的雨水能够就地渗入，多余的降雨只能通过城市雨洪排水设施进行引流排除，增加了排水设施排水负担的同时也极易引发城市雨洪风险，再加上我国近几年城市快速大规模扩张建设，已有的城市雨洪排水设施难以匹配城市扩张建设的速度，当暴雨来临超过排水设施的最大设计流量，便引发了 2017 年夏季的“城市看海”模式。针对这一状况，美国、英国、德国、新西兰等国在上世纪七八十年代就开始了雨水问题研究。如美国提出的最佳管理实践、低影响开发等理念、措施，在源头开展雨水就地入地的生态实践。我国也在 2014 年提出“海绵城市”的城镇化发展战略。道路铺装面积占到城市地表总面积的 20%–30%，海绵城市透水铺装采用多孔隙路面作为面层，配以多孔隙基层，可以使降雨迅速渗透进入基层，并可以选择性的引流排出道路结构外部或自然渗透到地基补充地下水，从而有效的避免地表径流和城市内涝。本次国际学术会议旨在对城市雨洪管理和透水铺装技术开展全面深入探讨和交流。

In the process of rapid development of urbanization in China, there are many problems such as high development intensity and surface pavement hardening. Before the development of road surface, 70-80% of the rainwater can naturally penetrate into the ground to conserve the local ecology and environment, but the hardening urban surface causes only 20-30% of the rainwater to infiltrate in situ, and the excess rainfall can only pass through the urban drainage facilities. This phenomenon increases the drainage burden of drainage facilities and are also likely to cause urban rain and flood risks. Coupled with the rapid and large-scale expansion of cities in recent years in China, the existing urban stormwater drainage facilities are difficult to match urban expansion and construction. When the storm came over the maximum design flow of the drainage facilities, triggered the “sea view” in China.



会议背景 | Background

International Frontier of Road and Airport Engineering (iFRAE) 系列会议由同济大学交通运输工程学院于 2011 年创办，包括每两年举办一次的国际学术研讨会，以及不定期的小型学术研讨会（iFRAE-W）和研究生论坛（iFRAE-S）。iFRAE 系列会议旨在为国内外道路与机场领域的学术交流提供平台，并为该领域科学技术进步提供发展思路。本次会议为 iFRAE-W 的第二期研讨会，以透水铺装为主题 (iFRAE-W2: ICPP 2018)。透水铺装国际研讨会（International Workshop on Permeable Pavement）目的在于就海绵城市整体设计、透水铺装建设、管理、养护、城市地表径流水污染处理等各种问题进行全面深入的探讨和交流。本次学术研讨会在关注城市雨洪管理和透水铺装的最新进展和已有突破点的同时，挖掘本研究领域的不足之处。学术研讨会大组讨论的形式也将给与会者提供一个交流新想法、讨论可能国际合作的平台。

International Frontier of Road and Airport Engineering (iFRAE) series of conferences was founded by the school of transportation Engineering of Tongji University, including international academic seminars held every two years, as well as irregular small academic seminars (iFRAE-W) and graduate students forum (iFRAE-S). The iFRAE conference series aims to provide a platform for academic exchanges in the field of roads and airports. This conference is the second session of the iFRAE-W with the theme of permeable pavement. (iFRAE-W2: ICPP 2018) The International Workshop on Permeable Pavement aims to conduct comprehensive and in-depth discussions and exchanges on various issues such as the overall design of the sponge city, permeable pavement construction, management, maintenance, and urban surface runoff water pollution treatment. This symposium focuses on the shortcomings of this research field while paying attention to the latest developments and breakthroughs in urban stormwater management and permeable pavement. The panel discussion will also provide participants with a platform to exchange new ideas and discuss possible international cooperation.



会议背景 | Background

研讨会主题为：透水路面与城市雨洪管理，其目的在于展示透水路面新技术与应用，推进透水铺装与城市雨洪管理。

主题：

- 针对多孔隙透水路面的功能性提高及评估手段
- 透水路面创新材料开发及透水特征描述
- 提高透水路面的实地试验和实验室测试方法
- 先进的分析技术，如透水路面结构的多尺度分析
- 透水路面力学响应分析
- 多孔性路面的生态功能分析
- 设计、建造、维护、修复透水路面方面的研究进展
- 针对透水路面寿命周期评估（LCA）软件，以及生命周期成本分析（LCCA）
- 其他管理雨水径流的方法，如雨水花园、生态滞留池等

The theme of the conference is: permeable pavement and urban stormwater management, with the aim of demonstrating new technologies and applications of permeable pavements, promoting permeable pavement and urban stormwater management.

- Enhancement and evaluation of functional performance and functional properties of porous pavement, such as durability, skid resistance, noise reduction, drainage, texture, snow-melting, temperature control, water pollution removal, etc.
- Innovative material development and characterization of porous pavement
- Improving the field test and laboratory test methods of porous pavement.
- Advanced analysis techniques, such as multiscale analysis of porous pavement structure
- Simulation of the mechanical responses of porous pavement, such as Finite Element Method (FEM), Discrete Element Method (DEM), etc.
- Simulation of the ecological functions of the porous pavement, such as hydraulics simulation, thermal transmission analysis, etc.
- Development in design, construction, maintenance, rehabilitation of porous pavement.
- Developing software for Life cycle assessment (LCA) and life cycle cost analysis (LCCA) of the porous pavements.
- Other methods to manage stormwater runoff, such as rainwater garden, ecological detention basin, etc.

会议总体日程
Conference Agenda

2018 年 10 月 24 日 星期三 Wednesday, 24 October, 2018

会议注册及科技部项目进度会	Registration and Project Meeting
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2018 年 10 月 25 日 星期四 Thursday, 25 October, 2018

会议开幕	Opening Session
主题演讲	Keynote Speeches
邀请报告	Invited Speeches
晚宴	Banquet

2018 年 10 月 26 日 星期五 Friday, 26 October, 2018

主题演讲	Keynote Speeches
邀请报告	Invited Speeches
会议闭幕	Closing Session



Welcome to TJ

2018 年 10 月 25 日 星期四

同济大学嘉定校区 同心楼 124

时间	演讲人	单位 / 职务	报告题目
08:30-09:00	会议开幕 致辞、合影		
分会 1：雨洪管理与透水铺装：国际视角 主持人：孙立军 同济大学交通运输工程学院 教授			
09:00-09:30	John Harvey	加州大学戴维斯校区 (美国) 教授	美国透水铺装技术的发展方向
09:30-10:00	Tom Skarpas	哈利法大学 (阿联酋) 教授	荷兰多孔沥青混合料再生研究
10:00-10:20	林炳章	南京信息工程大学应用水文气象研究院 教授	基于水文气象大数据分析的网络城市设计暴雨系统
10:20-10:40	茶 歇		
10:40-11:00	曹东伟	交通运输部公路科学研究院 / 中路高科 (北京) 公路技术有限公司 总经理	排水沥青路面在中国高速公路的研究与实践
11:00-11:20	Sandra Erkens	代尔夫特理工大学 (荷兰) 教授	多孔沥青混合料路面—荷兰 30 年经验
11:20-11:40	车 伍	北京建筑大学环境工程系教授	中国海绵城市系统工程对技术、装备和材料的需求
11:40-12:00	王大为	亚琛工业大学 (德国) 教授	德国透水铺装新型高分子透水混合料设计理论与工程应用
12:00-13:30	午 餐		

Thursday, 25 October, 2018

Rm 124, Tongxin Building.
Jiading Campus, Tongji University

Time	Speaker	Affiliation/Title	Speech Title
08:30–09:00	Opening Session: Opening Speech & Group Photo		
Session 1 Urban Stormwater Management and Permeable Pavement: International Perspective Moderator: Lijun Sun, Tongji University, Professor			
09:00–09:30	John Harvey	University of California, Davis, Professor	Road Map for Development and Implementation of Permeable Pavement
09:30–10:00	Tom Skarpas	Khalifa University, Professor & Head	Rejuvenation of Porous Asphalt Mixes in Netherland
10:00–10:20	Bingzhang Lin	Nanjing University of Information Science & Technology, Professor	Hydrome Big Data Analysis and Web-based Urban Design Storm Platform
10:20–10:40	Coffee Break		
10:40–11:00	Dongwei Cao	Research Institute of Highway Ministry of Transport	Permeable Pavement for Heavy Load: Research and Application
11:00–11:20	Sandra Erkens	CiTG, TU Delft, Professor	30 years Experience with Porous Asphalt on Dutch Highways
11:20–11:40	Wu Che	Beijing Architecture University. Professor	Sponge City Systems Engineering Requirements for Technology, Equipment and Materials
11:40–12:00	Dawei Wang	RWTH Aachen University, Institute of Highway Engineering, Professor	Mechanical and Mesoscopic Properties of New Polymer Composite Permeable Mixture in Germany
12:00–13:30	Lunch		

分会 2：透水铺装应用研究及实践案例			
主持人：冯伟 贵州交通厅规划处 副处长			
13:30–14:00	Masoud Kayhanian	加州大学戴维斯校区（美国）教授	透水铺装在高速公路雨洪管理中的应用：以加州研究经验为例
14:00–14:20	赵文忠	河北曲港高速公路开发有限公司董事长	绿色智慧 曲港先行：高速公路透水铺装技术示范应用
14:20–14:40	肖建庄	同济大学土木工程学院教授	再生水泥混凝土在海绵城市中的应用
14:40–15:00	茅 荃	江苏高速公路工程养护技术有限公司副总经理	排水沥青路面在大中修罩面工程中的应用及其养护技术
15:00–15:20	李彦伟	河北省交通规划设计院教授级高工	透水沥青路面在北方地区的应用及发展规划
15:20–15:40 茶 歇			
15:40–16:00	Shadi Saadeh	加州州立大学长滩校区（美国）教授	减缓城市暴雨径流的可持续技术—全渗透路面
16:00–16:20	凌天清	重庆交通大学教授	重庆两江新区悦来新城海绵城市生态保水降温路面技术实践
16:20–16:40	刘 杨	中国生态城市研究院有限公司 总裁助理	国家海绵试点城市中透水材料的实践与思考
16:40–17:00	张恒基	同济大学交通运输工程学院 博士研究生	固体废弃物填料在透水沥青路面中的再利用
18:00–20:00 晚 宴			

Session 2 Application Practice of Permeable Pavement			
Moderator: Wei Feng, Transport Department in Guizhou, China. Deputy Director			
13:30–14:00	Masoud Kayhanian	University of California, Davis, Professor	Role of Permeable Pavement in Highway Stormwater Runoff Management: California Research Experience
14:00–14:20	Wenzhong Zhao	Hebei Qugang Expressway Co., Ltd. Chairman	Green and Intelligent Application of Permeable Pavement in Qugang, Hebei Province
14:20–14:40	Jianzhuang Xiao	School of Civil Engineering,Tongji University. Professor	Application of Recycled Concrete in Sponge City
14:40–15:00	Quan Mao	Jiangsu Highway Engineering Maintenance Technology Co. LTD. Vice General Manager	Application of Porous Asphalt Overlay on Expressway Pavement and its Maintenance
15:00–15:20	Yanwei Li	Traffic Planning and Design Institute in Hebei Province, Professor Level Senior Engineer	Application and Development Plan of Porous Asphalt Pavement in Northern China
15:20–15:40 Coffee Break			
15:40–16:00	Shadi Saadeh	California State University Long Beach, Professor	Fully Permeable Pavements as a Sustainable Approach for Mitigation of Stormwater Runoff
16:00–16:20	Tianqing Ling	Chongqing Jiaotong University, Professor	Road Surface Technical Practice for Sponge City Ecological Water Conservation in Chongqing Liangjiang New District in Yuelai
16:20–16:40	Yang Liu	China Eco–City Academy Co., Ltd. Assistant President	Practice and Thoughts on Permeable Materials in National Sponge Pilot Cities
16:40–17:00	Hengji Zhang	Tongji University, Ph.D. Student	Reuse of Solid Waste as Alternative Filler in Porous Asphalt Pavement
18:00–20:00 Dinner			

2018 年 10 月 26 日 星期五

同济大学嘉定校区 同心楼 124

时间	演讲人	单位 / 职务	报告题目
<div>分会 3：透水铺装新材料研究与应用</div> <div>主持人：李辉 同济大学交通运输工程学院 教授</div>			
08:30–09:00	高桂波	中国建筑科学研究院外加剂技术研究中心主任	聚羧酸系高性能减水剂在透水混凝土中的应用
09:00–09:20	孙大权	同济大学交通运输工程学院教授	多孔水泥混凝土孔隙结构特征与透水模拟
09:20–09:40	严 军	上海同济检测技术有限公司副总经理	透水沥青路面改性沥青的选择
09:40–10:00	黄卫东	同济大学交通运输工程学院教授	小粒径排水路面技术的研究与应用
10:00–10:20	茶 歇		
10:20–10:40	Stefan Alber	斯图加特大学 (德国) 高级研究员	孔隙堵塞对多孔沥青吸声和排水的影响
10:40–11:00	张海燕	中路高科 (北京) 公路技术有限公司 副研究员	透水沥青路面高粘沥青研究与应用
11:00–11:20	王乃泰	上海东泽水务有限公司 工程技术总监	水系 – 海绵城市的生命线
11:20–11:40	李 辉	同济大学交通运输工程学院 教授	高频重载透水铺装技术研究与应用
11:40–11:50	闭幕式		
11:50–13:30	午 餐		

Friday, 26 October, 2018

Rm 124, Tongxin Building.
Jiading Campus, Tongji University

Time	Speaker	Affiliation/Title	Speech Title
<div>Session 3 New Materials for Permeable Pavement</div> <div>Moderator: Hui Li, Tongji University, Professor</div>			
08:30–09:00	Guibo Gao	China Academy of Building Research Admixture technology research center, Director	Application of High Performance Polycarboxylic Acid Water Reducing Agent in Pervious Concrete
09:00–09:20	Daquan Sun	College of Transportation Engineering, Tongji University. Professor	Study on the Pores Characteristics and Permeability Simulation of Pervious Concrete Based on 2D/3D CT Images
09:20–09:40	Jun Yan	Shanghai Tongji Testing Technology Co. Ltd, Vice General Manager	Modified Asphalt Selection for Permeable Asphalt Pavement
09:40–10:00	Weidong Huang	College of Transportation Engineering, Tongji University, Professor	Small Particle Size Porous Pavement Technology: Research and Application
10:00–10:20	Coffee Break		
10:20–10:40	Stefan Alber	University of Stuttgart, Senior Researcher	Artificial Soling Tests of Porous Asphalt Samples – Dirt Trapping and Effects on Sound Absorption and Drainage
10:40–11:00	Haiyan Zhang	Research Institute of Highway Ministry of Transport. Associated Researcher	Research and Application of High Viscosity Asphalt for Porous Asphalt Pavement
11:00–11:20	Naitai Wang	DongZe Water Technology Co.,. Ltd. Engineering Technology Director	Water System – the Lifeline of Sponge City
11:20–11:40	Hui Li	College of Transportation Engineering, Tongji University, Professor	Permeable Pavement for Heavy Load: Research and Application
11:40–11:50	Closing Session		
11:50–13:30	Lunch		

致辞嘉宾简介 / Invited Guests Introduction			
高玉魁	中国	同济大学先进技术研究院	副院长
Yukui Gao	China	Tongji University	Associate Dean
凌建明	中国	同济大学交通运输工程学院	院长
Jianming Ling	China	Tongji University	Dean
主持人简介 / Moderators Introduction			
孙立军	中国	同济大学	教授
Lijun Sun	China	Tongji University	Professor
冯 伟	中国	贵州交通厅规划处	副处长
Wei Feng	China	Transport Department in Guizhou, China	Deputy Director
李 辉	中国	同济大学	教授
Hui Li	China	Tongji University	Professor
报告人简介 / Speakers Introduction *按姓名首字母排序 (Sort by last name in alphabetical order)			
Stefan Alber	德国	斯图加特大学	高级工程师
Stefan Alber	Germany	University of Stuttgart	Senior Engineer
曹东伟	中国	交通运输部公路科学研究院	研究员
Dongwei Cao	China	Research Institute of Highway Ministry of Transport	Researcher
车 伍	中国	北京建筑大学	教授
Wu Che	China	Beijing University of Civil Engineering and Architecture	Professor
Sandra Erkens	荷兰	代尔夫特理工大学	教授
Sandra Erkens	Netherlands	TU Delft	Professor
高桂波	中国	中国建筑科学研究院建材所	主任
Guibo Gao	China	China Academy of Building Research	Director
John Harvey	美国	加州大学戴维斯	教授
John Harvey	United States	University of California, Davis	Professor
黄卫东	中国	同济大学	教授
Weidong Huang	China	Tongji University	Professor
Masoud Kayhanian	美国	加州大学戴维斯	教授
Masoud Kayhanian	United States	University of California, Davis	Professor
李 辉	中国	同济大学	教授
Hui Li	China	Tongji University	Professor

李彦伟	中国	河北省交通规划设计院	教授级高工
Yanwei Li	China	Transportation Planning and Design Institute	Professor Level Senior Engineer
林炳章	中国	南京信息工程大学	教授
Bingzhang Lin	China	Nanjing University of Information Science & Technology	Professor
凌天清	中国	重庆交通大学	教授
Tianqing Ling	China	Chongqing Jiaotong University	Professor
刘 杨	中国	中国生态城市研究院有限公司	总裁助理
Yang Liu	China	China Eco-city Academy Co. Ltd	Assistant President
茅 荃	中国	江苏高速公路工程养护技术有限公司	副总经理
Quan Mao	China	Jiangsu Highway Engineering Maintenance Technology Co. LTD	Vice General Manager
Shadi Saadeh	美国	加州州立大学长滩校区	教授
Shadi Saadeh	United States	California State University, Long Beach	Professor
Tom Skarpas	阿联酋	哈利法大学	教授
Tom Skarpas	United Arab Emirates	Khalifa University	Professor
孙大权	中国	同济大学	教授
Daquan Sun	China	Tongji University	Professor
王大为	德国	亚琛工业大学	教授
Dawei Wang	Germany	RWTH Aachen University	Professor
王乃泰	中国	上海东泽水务科技股份有限公司	技术总监
Naitai Wang	China	DongZe Water Technology Co.,Ltd.	Technical Director
肖建庄	中国	同济大学	教授
Jianzhuang Xiao	China	Tongji University	Professor
严 军	中国	上海同济检测技术有限公司	副总经理
Jun Yan	China	Shanghai Tongji Testing Technology Co. Ltd	Vice General Manager
张海燕	中国	交通运输部公路科学研究院	副研究员
Haiyan Zhang	China	Highway Research Institute of the Ministry of Transport	Vice Researcher
张恒基	中国	同济大学	博士研究生
Hengji Zhang	China	Tongji University	Ph.D. Candidate
赵文忠	中国	河北曲港高速发展有限公司	处长
Wenzhong Zhao	China	Hebei Qugang Expressway Co., Ltd.	Chairman



高玉魁 中国 同济大学先进技术研究院 副院长

高玉魁，同济大学先进技术研究院副院长，同济大学航空航天与力学学院教授。兼任国家标准委员会委员、中国工程院咨询项目专家等职务。主要从事航空航天先进材料表层改性及疲劳断裂研究。发表学术论文 50 余篇，获批国家发明专利 2 项。

Yukui Gao, China. Tongji University Advanced Technology Research Institute, Associate Dean

Yukui Gao, Associate Dean of Advanced Technology Research Institute, Tongji University. Professor of Aerospace and Mechanics College, Tongji University. He is also a member of the National Standards Committee and a consultant of the Chinese Academy of Engineering. Mainly engaged in aerospace advanced materials surface modification and fatigue fracture research. He has published more than 50 academic papers and obtained 2 national invention patents.



凌建明 中国 同济大学交通运输工程学院 院长

凌建明教授，同济大学交通运输工程学院院长。学科方向为道路与机场工程；入选上海领军人才、交通部交通青年科技英才、上海市优秀学术带头人；现任中国公路学会理事、青年专家委员会委员；中国土木工程学会市政工程分会常务理事等，担任国内外 7 部期刊编委；荣获国家二等奖 3 项，省部级特等和一等奖 13 项；主编标准 3 部。

Jianming Ling, China. College of Transportation Engineering, Tongji University.

Jianming Ling, Dean of School of Transportation Engineering, Tongji University. The subject direction is road and airport engineering; he is selected as a leading talent in Shanghai, a young talent in transportation, and an outstanding academic leader in Shanghai; he is currently a member of the China Highway and Transportation Society and a member of the Youth Expert Committee; and the executive director of the Municipal Engineering Branch of the China Civil Engineering Society. He served as 7 journal editors at home and abroad; won 3 national second prizes, 13 provincial and ministerial special and first prizes; and has compiled 3 editorial standards.



孙立军 中国 同济大学 教授

孙立军教授，学科方向为道路与机场工程；首届教育部长江学者奖励计划特聘教授、国家杰青基金获得者；现担任中国公路学会理事、青年专家委员会委员，上海市公路学会学术委员会主任，上海市建委科技委路桥专业委员会主任；发表论文 400 余篇，出版专著 3 部，获国家奖 2 项，省部级奖 13 项。

Lijun Sun, China. Tongji University, Professor

Professor Sun, Distinguished professor of the first Yangtze River Scholar Award Scheme of Ministry of Education, winner of The National Science Fund for Distinguished Young Scholars, now the director of the China Highway and Transportation Society, member of the youth expert committee, director of the academic committee of Shanghai Highway and Transportation Society. His research direction is road and airport engineering.



冯伟 中国 贵州交通厅规划处 副处长

冯伟，贵州省交通运输厅规划处副处长、财政部专家库专家，长期从事交通规划、投融资政策和 PPP 等领域研究。参与编制了《贵州省省道网规划》、《贵州省高速公路前景与投资效益分析》、《贵州省高速公路 PPP 模式研究》等多项规划及专题研究工作，完成贵州省 20 多个高速公路 PPP 项目实施方案的制定及招商引资工作，具有丰富的理论知识及实践经验。

Wei Feng, China. Planning Department of the Ministry of Transport in Guizhou Province, Deputy Director.

Wei Feng, deputy director of the Planning Department of the Ministry of Transport of Guizhou Province and expert of the Ministry of Finance, has long been engaged in research in transportation planning, investment and financing policies and PPP. Participated in the compilation of "Provincial Road Network Planning in Guizhou Province ", "Highway Prospects and Investment Benefit Analysis in Guizhou Province ", "Guizhou Provincial Highway PPP Mode Research" and other planning and special research work, completed more than 20 highways project implementation plan and investment promotion work in Guizhou Province, with rich theoretical knowledge and practical experience.



李辉 中国 同济大学 教授

李辉，同济大学交通运输工程学院教授、博士生导师，同济大学交通科学与技术研究院副院长。获得美国加州大学戴维斯校区土木与环境工程博士学位、环境与资源经济学硕士学位。美国加州注册土木工程师。主要从事绿色环保、功能型道路铺装结构与材料研究与教学，促进交通基础设施可持续发展。主持和参与国家重点研发计划项目（中美“政府间国际科技创新合作”重点专项，主持）、中组部国家“千人计划”研究基金项目、国家自然科学基金项目、上海市科学技术委员会重点专项等科研项目十余项（主持6项）。

Hui Li, China. Tongji University, Professor

Dr. Hui Li is a professor in the College of Transportation Engineering at Tongji University, Shanghai, China and a Research Scientist in the Department of Civil and Environmental Engineering at the University of California Davis. His research interests include sustainable and resilient transportation infrastructure, sustainable development in built environment, and life cycle assessment.



Stefan Alber 德国 斯图加特大学 高级工程师

Alber 博士于 2003 年获得斯图加特大学土木工程专业硕士学位，自 2009 年至 2012 年他为 Müller BBM 公司的降噪路面与测试工作。于 2013 年获得斯图加特大学土木工程专业博士学位。现在作为高级研究员在斯图加特大学工作。

Stefan Alber, Germany. University of Stuttgart, Senior Engineer

03/2013: Doctoral degree in Engineering (Dr.-Ing.):

Thesis on „Variation of sound absorption characteristics of porous asphalt due to clogging processes“ (translated title, thesis in German language)

07/2012 – today: Senior researcher at the Institute for Road and Transport Science, Chair for Road Design

and Construction, University of Stuttgart

04/2009 - 06/2012 Advisory/Consulting Engineer Acoustics, Müller-BBM GmbH, Munich/Stuttgart, Germany

06/2003 - 03/2009 Research Assistant at the Institute of Road and Transportation Science, Chair for Road Design and Construction, University of Stuttgart



曹东伟 中国 交通运输部公路科学研究院 研究员

交通运输部公路科学研究院、中路高科（北京）公路技术有限公司总经理，研究员，主要研究方向为沥青路面新材料、新结构、新工艺等。主持国家和省部级科研项目 10 余项，负责重大工程技术咨询、科技示范工程和科技成果转化应用等项目 20 余项，开发了适用重交通道路高模量沥青、大空隙排水路面沥青、温拌与低温施工沥青、废橡塑复合 TPE 沥青、干法环氧沥青、热解生物质沥青、煤基新型沥青、沥青指纹识别技术、改性沥青 SBS 含量测定技术等，开发了排水沥青路面、地毯式预制沥青路面、钢桥面铺装等新结构与施工技术。获得国家“万人”计划、中国青年科技奖、中青年科技创新领军人才等荣誉称号。

Dongwei Cao, China. Research Institute of Highway Ministry of Transport, Researcher

General manager of Zhong Lu Gao Ke (Beijing) Road Technology Co.LTD, Research Institute of Highway Ministry of Transport, Research Fellow. His main research fields include the new material, new structure and new technology of asphalt pavement. He has been in charge of over 10 national, provincial and ministerial level research projects, over 20 projects of major engineering technological consultation, scientific demonstration projects and application of research achievements. He has developed high modulus asphalt for heavy traffic pavement, specific asphalt for porous asphalt pavement, warm mix asphalt and low-temperature construction asphalt, TPE asphalt with waste rubber and plastics, epoxy asphalt with dry process, pyrolysis bio-asphalt, coal based asphalt, fingerprint identification technology of asphalt, SBS content measurement technology of modified asphalt. He has also developed new structure and construction technology including porous asphalt pavement, rollable prefabricated asphalt pavement, steel bridge deck pavement etc. He has been awarded the titles of “Ten Thousand Talent Program”, “China Youth Science and Technology Award and “National Youth Science And Technology Innovation Leader”, etc.



车伍 中国 北京建筑大学 教授

车伍，北京建筑大学 环境工程系、城市雨水系统与水环境教育部重点实验室，教授长期从事城市雨洪控制利用、新型排水系统、海绵城市、水环境保护与生态修复等方面的研究和工程实施。承担国家及地方、企业等研究项目八十余项。多次荣获省部及地方政府科技进步奖，国家发明专利授权多项。《海绵城市建设－低影响开发技术指南》主编之一，参与多个国家和地方规范标准的编制等。

Wu Che, China. Beijing University of Civil Engineering and Architecture, Professor

Wu Che, Professor, Department of Environmental Engineering, Key Laboratory of Urban Rainwater System and Water Environment, Ministry of Education, Beijing Architecture University.

He has long been engaged in research and engineering implementation of urban stormwater control and utilization, new drainage systems, sponge cities, water environmental protection and ecological restoration. He has undertaken more than 80 research projects at the national, local and enterprise levels. He has won many provincial and local government scientific and technological progress awards and many national invention patents. One of the editors of the "Sponge City Construction - Low Impact Development Technical Guide", and has participated in the preparation of a number of national and local normative standards.



Sandra Erkens 荷兰 代尔夫特理工大学 教授

Sandra Erkens 教授是荷兰公路管理局路面材料和结构的主要专家，代尔夫特理工大学的全职教授，担任路面工程实践主席。国际公认的路面材料和结构专家，特别是沥青混凝土专家。作为 FEHRL（欧洲公路研究实验室论坛）执行委员会成员和 InfraQuest 项目组成员，协调了荷兰代尔夫特理工大学和荷兰 TNO 各个研究组织之间的合作。

Sandra Erkens, Netherlands. TU Delft, Professor/Director

Professor Sandra Erkens is the principal specialist in pavement materials and structures at Rijkswaterstaat, the Dutch highway authority. Besides this position, she is a full professor, holding the Chair of Pavement Engineering Practice, at Delft University of Technology. She is an internationally acknowledged expert in pavement materials and structures in general and asphalt concrete in particular. She has coordinated the cooperation of research organizations, among others as a member of the FEHRL (Forum for European Highway Research Laboratories) executive committee and as Program Team member for InfraQuest, the cooperation between Rijkswaterstaat, TU Delft and TNO building in the Netherlands.



高桂波 中国 中国建筑科学研究院建材所 主任

高桂波，博士，高级工程师，中国建筑科学研究院外加剂技术研究中心主任。主要研究方向为混凝土 / 砂浆外加剂的开发应用、高性能水泥基材料、工业固体废弃物的资源化等。主编行业标准《湿拌砂浆稳塑剂》、CCES 标准《透水混凝土胶接剂》、CECS 标准《聚羧酸系高性能减水剂应用技术规程》，参编 GB50119《混凝土外加剂应用技术规范》、GB25181《预拌砂浆》等十余项国家、行业标准。获《预拌砂浆》等十余项国家、行业标准。获国家科技进步二等奖 1 项，省部级科技进步奖 4 项，国家发明专利授权专利 8 项，在国内外学术期刊及国际会议发表论文 30 余篇。

Guibo Gao, China. China Academy of Building Research, Director

Gao Guibo, Ph.D., Senior Engineer, Director of the Admixture Technology Research Center of China Academy of Building Research. The main research direction is the development and application of concrete/mortar admixtures, high-performance cement-based materials, and the recycling of industrial solid waste. Chief editor of the industry standard "wet mixed mortar stabilizer", CCES standard "permeable concrete cement", CECS standard "polycarboxylic acid high performance water reducer application technical regulations", participated in the compilation of GB50119 "concrete admixture application technical specifications". Received more than ten national and industrial standards such as "premixed mortar". He won 1 second prize of National Science and Technology Progress Award, 4 provincial and ministerial level scientific and technological progress awards, 8 national invention patents, and more than 30 papers published in academic journals and international conferences at home and abroad.



John Harvey 美国 加州大学戴维斯 教授

John Harvey 自 2002 年起担任美国加州大学戴维斯分校－加州大学路面研究中心 (UCPRC, UC Davis & Berkeley, 由 Monismith 院士始建于 1952 年) 主任和首席科学家，全面负责中心的研究和运行等工作。该中心由美国联邦公路局和加州交通厅、加州大学 (Davis & Berkeley 校区) 联合建立。负责及参与美国相关科研项目 100 余项 (其中作为首席研究科学家 [PI] 负责 80 余项)，总经费超过 1.5 亿美元。作为 UCPRC 的主任和首席科学家，John Harvey 带领的科研团队承担着整个加州及全美部分道路与机场工程的技术研发任务。

John Harvey, United State. University of California, Davis, Professor

John Harvey has served as Director and Chief Scientist at the University of California, Davis-UCC-UCP, UC Davis & Berkeley (founded in 1952 by Monismith) since 2002, and is responsible for the research and operation of the Center. The center was established by the US Federal Highway Administration and the California Department of Transportation, and the University of California (Davis & Berkeley Campus). Responsible for and participate in more than 100 research projects in the United States (including more than 80 as the chief research scientist [PI]), with a total funding of more than 150 million US dollars. John Harvey's research team undertakes technical research and development tasks for some road and airport projects throughout California and the United States.



黄卫东 中国 同济大学 教授

黄卫东, 1970 年生, 1997 年获得同济大学硕士学位, 2000 年获得同济大学道路与铁道工程专业博士学位, 2000 年 7 月至今, 同济大学交通学院留校任教, 研究员, 博士生导师, 加州大学伯克利分校高级访问学者。长期从事道路工程方面研究, 主要研究方向为沥青路面与沥青混合料, 主持国家自然科学基金项目三项, 发表论文一百多篇, 作为第一作者或通讯作者被 SCI 收录论文二十篇, 出版专著一部, 获得发明专利授权十五项; 获 2008 年、2017 年度上海市科技进步一等奖、2009 年度国家科学技术进步奖二等奖各一项。

Weidong Huang, China. Tongji University, Professor

Weidong Huang was born in Anyue, Sichuan, China, 1970. He received his master degree in highway, urban road and airport engineering at Tongji University in 1997. He received his Ph.D degree in road and railway engineering at Tongji University in 2000. Since July 2000, he has been a teacher at the School of Transportation, Tongji University. And he has been a senior visiting scholar at the University of California at Berkeley. He is a researcher and doctoral tutor. He has been engaged in road engineering research for a long time. His main research direction is asphalt pavement and asphalt mixture, and he has presided over three projects of the National Natural Science Foundation of China. He has published more than 100 papers. Among them, as the first author or correspondent author, 20 papers were included in by SCI. He published a monograph and obtained 15 invention patents. He won the first prize of Shanghai Science and Technology Progress Award in 2008 and 2017, and won the second prize of the 2009 National Science and Technology Progress Award.



Masoud Kayhanian 美国 加州大学戴维斯 教授

Masoud Kayhanian 是加州大学戴维斯分校土木与环境工程系的名誉研究教授, 进行了 25 年的研究和教学。从 1991 年至 1996 年担任加州大学戴维斯分校高固体生物气化项目主任, 并于 2003 年至 2009 年担任环境与水资源工程中心副主任。研究内容包括地表水水质, 创新的雨水径流处理方法, 水的再利用, 环境污染物运输, 以及废物生物转化为能源。他撰写或合著了 190 多种技术出版物, 包括六本书籍, 并发表了 100 多篇技术专题报告。

Masoud Kayhanian, United States. University of California, Davis, Professor

Masoud Kayhanian is Research Professor Emeritus in the Department of Civil and Environmental Engineering at the University of California, Davis, where he performed research and taught for 25 years. He also acted as the Director of UC Davis High-Solid Bio-Gasification Project from 1991-1996 and served the Associate Director of Center for Environmental and Water Resources Engineering from 2003-2009. His research interests are in the areas of surface water quality, innovative stormwater runoff treatment, water reuse, fate and transport of pollutants in the environment, and bioconversion of waste materials into energy. He has authored or co-authored over 190 technical publications including six book chapters and has given more than 100 technical presentations.



李辉 中国 同济大学 教授

李辉, 同济大学交通运输工程学院教授、博士生导师, 同济大学交通科学与技术研究院副院长。获得美国加州大学戴维斯校区土木与环境工程博士学位、环境与资源经济学硕士学位。美国加州注册土木工程师。主要从事绿色环保、功能型道路铺装结构与材料研究与教学, 促进交通基础设施可持续发展。主持和参与国家重点研发计划项目(中美“政府间国际科技创新合作”重点专项, 主持)、中组部国家“千人计划”研究基金项目、国家自然科学基金项目、上海市科学技术委员会重点专项等科研项目十余项(主持 6 项)。

Hui Li, China. Tongji University, Professor

Dr. Hui Li is a professor in the College of Transportation Engineering at Tongji University, Shanghai, China and a Research Scientist in the Department of Civil and Environmental Engineering at the University of California Davis. His research interests include sustainable and resilient transportation infrastructure, sustainable development in built environment, and life cycle assessment.



李彦伟 中国 河北省交通规划设计院 教授级高工

李彦伟, 河北省交通规划设计院 科技产业委员会主任, 博士, 二级教授高工, 享受国务院政府特殊津贴, 近十年来主研了多项科研项目, 完成了“全寿命周期低碳公路关键技术研究”、“环境友好型隧道沥青路面技术研究”等 10 多项省级重点课题, 1 项获省部级一等奖, 3 项获河北省科技进步二等奖, 5 项获省、部科技进步三等奖, 在 SCI/EI 及核心期刊发表论文 40 余篇, 完成专利十余项, 出版《温拌沥青路面施工技术》等论著 6 部, 参与编写团体、地方标准多部。

Yanwei Li, China. Transportation Planning and Design Institute, Professor Level Senior Engineer

Li Yanwei, director of the Science and Technology Industry Committee of Hebei Provincial Transportation Planning and Design Institute, Ph.D., senior professor of the second grade, the special government allowance of the State Council. In the past ten years, he has done a number of scientific research projects and completed the research on key technologies of low-carbon highways in the whole life cycle. "More than 10 provincial key projects such as "Environmentally Friendly Tunnel Asphalt Pavement Technology Research". One project won the first prize of the provincial and ministerial level, 3 projects won the second prize of Hebei Province Science and Technology Progress, and 5 projects won the provincial and ministerial scientific and technological progress. Awarded the third prize, published more than 40 papers in SCI/EI and core journals, completed more than ten patents, published six books including "Wood-mixed asphalt pavement construction technology", and participated in the preparation of groups and local standards.



林炳章 中国 南京信息工程大学 教授

林炳章，南京信息工程大学水文气象教授、博士生导师，“应用水文气象研究院”建院院长、原水文气象学院院长，原美国 NOAA 属下水文气象设计研究中心的首席水文统计学家（Chief-Statistical-Hydrologist, 1997–2009）。1968 年毕业于华东水利学院（现河海大学；1963–1968），1981 年获河海大学（水文）– 南京大学（气象）联合培养的首届水文气象硕士，1984 年获荷兰 Delft 国际水利环境学院（IHE）研究生班优秀毕业文凭（Distinguished Diploma）。在中、欧、美的施工、勘测设计、研究所、高校等单位从事水文气象、工程水文的教学、科研、培养研究生专业工作五十年，专长水文气象途径降雨频率计算、可能最大降水估算、山洪灾害预警预报系统、暴雨灾害气象风险预警平台、基于大数据分析的智能洪涝预警系统研制。目前是住建部海绵城市建设技术指导专家委员会委员。

Bingzhang Lin, China. Nanjing University of Information Science & Technology, Professor

Prof. Bingzhang Lin was the Director of the Applied Hydrometeorological Research Institute (AHMRI) and the Dean of the Hydrometeorology College of the Nanjing University of Information Science & Technology (NUIST). He had served with NOAA as Chief-Statistical-Hydrologist of the Hydrometeorology Design Studies Center for the period of 1997-2009. He graduated in 1968 (1963-1968) from the Hohai University in hydrology and post-graduated in 1981 (1978-1981) from the joint hydrometeorology program of Hohai University (in hydrology) and Nanjing University (in meteorology). He had studied and awarded the Distinguished Diploma in IHE of Netherlands in 1984. He has worked in a variety of organizations/places such as construction bureau, hydro survey & design institute, research institute and university in China and the US for 50 years, specialized in rainfall frequency analysis via hydrometeorology approach, Probable Maximum Precipitation estimation, prewarning system of Flash Flood, meteorological risks of rainstorm hazards as well as web-based flood prewarning system based on hydrometeorology big data analysis. Prof. Lin is currently the member of the experts committee of the Sponge City of the Ministry of Urban and Rural Development.

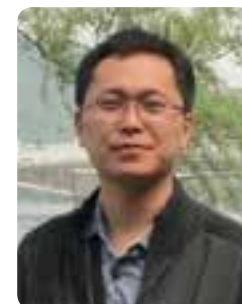


凌天清 中国 重庆交通大学 教授

凌天清教授毕业于同济大学交通运输学院，博士后研究工作合作导师，享受国务院特殊津贴专家、交通部新世纪“十百千人才工程”第一层次人选、交通部优秀青年骨干教师、重庆市学术技术带头人；主要研究道路交通设计、新材料应用、灾害防治等技术领域。完成省部级与国家级科技项目 20 余项，获得省部级科技成果奖励 15 项、国家发明专利 2 项。在核心期刊和国际国内学术会议上公开发表学术论文 100 余篇，公开出版行业教材 2 部、专著 5 部。负责制定交通运输行业技术规范 1 部、交通行业材料产品技术标准 9 项，参与制定国家标准一部。

Tianqing Ling, China. Chongqing Jiaotong University, Professor

Tianqing Ling, graduated from School of Transportation Engineering, Tongji University, post-doctoral research cooperation tutor, experts of special allowances from the State Council, first-level candidates for the “Ten Thousand Talents Project” in the new century of the Ministry of Communications, outstanding young backbone teachers of the Ministry of Communications, and academic and technical leaders in Chongqing; He mainly studies technical fields such as road traffic design, new material application, and disaster prevention. More than 20 provincial and ministerial-level and national-level science and technology projects have been completed, 15 provincial and ministerial-level scientific and technological achievements awards and 2 national invention patents have been obtained. He has published more than 100 academic papers in core journals and international and domestic academic conferences, and published 2 textbooks and 5 monographs in the industry. Responsible for the formulation of 9 technical specifications for the transportation industry and 9 technical standards for materials for the transportation industry, and participated in the formulation of a national standard.



刘杨 中国 中国生态城市研究院有限公司 总裁助理

刘杨，中国生态城市研究院有限公司环境工程所所长、博士、国家注册城市规划师。

主要从事海绵城市、河湖环境整治、城市更新和产业园区规划设计等方面的工作。主持参与了宁波国家海绵城市试点区方案审查及宁波海绵城市第一个 EPC 等环境工程项目；昆山城北地区更新规划、宁波市绿道网建设研究等品质提升和城市更新项目；长春新区产业专题研究等产业方面的研究。

Yang Liu, China. China Eco-city Academy Co. Ltd, Assistant president

Liu Yang, Director of the Environmental Engineering Institute of China Eco-city Academy, Ph.D., National Registered Urban Planner.

Mainly engaged in sponge city, river and lake environmental remediation, urban renewal and industrial park planning and design work. Hosted in the program review of Ningbo National Sponge City Pilot Area and the first EPC and other environmental engineering projects in Ningbo Sponge City; Kunshan Chengbei District Renewal Planning, Ningbo Greenway Network Construction Research and other quality improvement and urban renewal projects; Changchun New District Industrial Special Research And other industry research.



茅荃 中国 江苏高速公路工程养护技术有限公司 副总经理

茅荃，硕士，研究员级高级工程师，江苏省“333 工程”第三层次人选，长期从事高速公路养护工作，现任江苏高速公路工程养护技术有限公司副总经理，发表学术论文 10 余篇，撰写著作 1 本，获中国公路学会科学技术奖一等奖 1 项、三等奖 1 项、江苏省公路学会科学技术奖一等奖 1 项。

Quan Mao, China. Jiangsu Highway Engineering Maintenance Technology Co. LTD, Vice General Manager

Mao Quan got his Master's degree in Road&Railway engineering from Southeast University. He is a professorate senior engineer and a member (3rd level) of the “333 talent project” of Jiangsu Province.

Mr. Mao is the deputy director of Jiangsu Expressway Engineering Maintenance Technology Ltd. Mr. Mao has extensive experience on expressway maintenance and management with 10 peer reviewed academic papers and one monograph published in related areas. He has also been awarded a first-level and a third-level Science and Technology prize from Chinese Highway and Transportation Society as well as a first-level Science and Technology prize for Jiangsu Highway and Transportation Society.



Shadi Saadeh 美国 加州州立大学长滩校区 教授

Shadi Saadeh 博士，1997 年获约旦大学土木工程学士学位，2002 年获华盛顿州立大学土木工程硕士学位，2005 年在德克萨斯农工大学获得土木工程博士学位。2003 年至 2005 年在德克萨斯交通研究所 (TTI) 工作，2006 年至 2007 年在路易斯安那运输研究中心 (LTRC) 工作。2007 年加入加利福尼亚州立大学长滩分校 (CSULB) 土木工程与建筑工程管理系。

个人研究重点集中在颗粒材料，包括沥青混合料及其组分。他的主要研究领域包括高速公路材料的实验特性、微观结构层面的高速公路材料本构模型、高速公路基础设施性能评价、柔性路面设计与分析、基于 X 射线计算机断层扫描的公路材料试验表征、图像分析技术和机械测试。

Shadi Saadeh, United States. California State University, Long Beach, Professor

Dr. Shadi Saadeh joined the CSULB Civil Engineering and Construction Engineering Management Department in 2007. Dr Saadeh worked for the Texas Transportation Institute (TTI) from 2003-2005 and the Louisiana Transportation Research Center (LTRC) from 2006-2007. He received his BSc in civil engineering from University of Jordan (1997), MSc in Civil Engineering from Washington State University (2002), and PhD in Civil Engineering from Texas A & M University (2005).

Dr. Saadeh's research focuses on granular materials, including asphalt mixes and its constituents. His main areas of research are experimental characterization of highway materials, constitutive modeling of highway materials at the microstructural level, performance evaluation of highway infrastructure, flexible pavement design and analysis, and experimental characterization of highway materials using X-ray computed tomography (CT), image analysis techniques, and mechanical testing.



Tom Scarpas 阿联酋迪拜 哈利法大学 教授

Tom Scarpas 教授是哈利法大学土木基础设施与环境工程系主任，荷兰代尔夫特理工大学土木工程和地球科学系路面工程系主任，荷兰路面工程协会主席，意大利基础设施工程学会的荣誉会员。ISAP 沥青材料本构模型技术委员会主席，并担任 RILEM 沥青路面裂缝技术委员会秘书和 FHWA 专家工作组主席。组织了 40 多个国际会议及研讨会，在 16 个国际会议中发表主题演讲，负责国际和欧洲组织资助总额超过 2000 万美元。

Tom Scarpas, Dubai, United Arab Emirates. Professor and Chair, Khalifa University, UAE

Scarpas holds the Chair of the Department of Civil Infrastructure & Environmental Engineering at Khalifa University. Before joining Khalifa he was the Head of the Section of Pavement Engineering in the Faculty of Civil Engineering and Geosciences at Delft University of Technology, in the Netherlands where he still holds the Chair of Pavement Engineering. He is the Chairman of the ISAP Technical Committee on Constitutive Modeling of Asphaltic Materials and has been the Secretary of the RILEM Technical Committee on Cracking in Asphalt Pavements and the Chairman of the FHWA Expert Task Group on Fundamental Properties and Advanced Modeling of Bituminous Materials. He is also a founding member and a member of the Board of Governors of the International Academy of Pavement Science & Engineering. He has organized more than 40 international Conferences, Workshops and Seminars and has been a keynote speaker in 16 international events and has been successful in acquiring research grants as PI from international industry and European institutions totaling more than US\$ 20 million

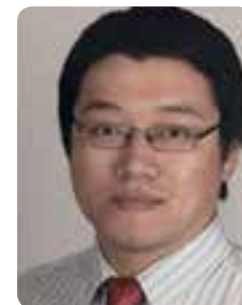


孙大权 中国 同济大学 教授

孙大权，同济大学交通运输工程学院教授、博士生导师。主要从事道路工程材料领域的教学和科研工作。主持完成国家、上海市自然科学基金等科研项目 20 余项，参与上海东海大桥桥面铺装、虹桥机场跑道加铺等重大工程设计与施工。发表论文 100 余篇，其中 SCI 论文 20 余篇，出版论著 3 部（合著），参与 5 部行业及地方规范编写。研究成果获国家科技进步奖二等奖 1 项，省部级奖励 4 项。

Daquan Sun, China. Tongji University, Professor

Dr. Daquan Sun is a professor in the College of Transportation Engineering at Tongji University, Shanghai, China. His research interests include advanced pavement materials, components and microstructure of pavement materials, and paving technology of special engineering.



王大为 德国 亚琛工业大学 教授

王大为，哈尔滨工业大学交通科学与工程学院教授、博士生导师。获得德国亚琛工业大学土木工程博士学位、德国亚琛工业大学土木工程硕士学位、清华大学土木工程学士学位。于 2016 年被德国锡根大学聘任为道路工程 W2 级正教授。长期围绕路面抗滑性能提升、沥青基路面材料多尺度行为及功能性路面理论与技术等道路工程领域内的前沿科学难题进行技术攻关，取得了一系列原创性成果，多项成果已纳入德国行业规范和欧盟标准。

Dawei Wang, Germany. Aachen University, Professor

Prof. Dr.-Ing. Dawei Wang is the professor and doctoral supervisor in the School of Transportation Science and Engineering at Harbin Institute of Technology. He was selected as the BOTAP (Beijing Overseas Talent Aggregation Project) specialists, Beijing University of Technology distinguished experts, visiting professor of Chongqing Jiaotong University. He also serves as the adjunct professor at RWTH Aachen University. He has made technological breakthroughs on the cutting-edge scientific problems in road engineering such as improvement of pavement anti-sliding performance, multi-scale behavior of asphalt base pavement materials, and theory and technology of functional pavement.



王乃泰 中国 上海东泽水务科技股份有限公司 技术总监

王乃泰 (NED WANG) 先生先后就读于同济大学和美国内布拉斯加州立大学，具有岩土工程学士学位，水文地质工程和大地工程双硕士学位。他是一名具有二十多年设计和施工经验的注册大地工程师（美国）。

Naitai Wang, DongZe Water Technology Co.,Ltd. Technical Director

Mr. Ned Wang studied at Tongji University and the University of Nebraska in the United States. He holds a bachelor's degree in geotechnical engineering, a double master's degree in hydrogeology engineering and geotechnical engineering. He is a Registered Land Engineer (USA) with more than 20 years of design and construction experience.



肖建庄 中国 同济大学 教授

肖建庄，现任同济大学土木工程学院建筑工程系主任、教授、博导，国家首批一级注册结构工程师，上海高峰学科讲座教授、德国洪堡学者、国家杰出青年科学基金获得者，教育部新世纪优秀人才支持计划入选者，先后主持国家级、省部级科研项目 30 余项。

长期从事再生混凝土、高性能混凝土材料与结构的基础研究与抗震防灾应用技术推广，建立了“建筑固废资源化与产业化应用”成套技术，攻克一批再生混凝土、高性能混凝土用于结构工程中的设计、施工关键技术，主编国内第一本再生混凝土规范。

Jianzhuang Xiao, China. Tongji University, Professor

Jianzhuang Xiao, director of College of Civil Engineering Department of Structural Engineering of Tongji university, professor, PhD supervisor, German Humboldt scholar, winner of The National Science Fund for Distinguished Young Scholars, has led more than 30 national, provincial and ministerial research projects. His research includes recycled concrete, high-performance concrete materials and structures and the application of anti-earthquake disaster prevention technology.



严军 中国 上海同济检测技术有限公司 副总经理

严军，上海同济检测技术有限公司副总经理，教授级高级工程师。毕业于同济大学交通运输工程学院，先后获得学士、硕士和博士学位。长期致力于道路新产品、新材料、新技术、新工艺及检测技术的研究，研发了重载交通沥青、复合改性沥青、浇注式沥青一系列高性能改性沥青及沥青混凝土，开发了一系列节能减排、环境友好的沥青路面技术，如再生沥青、温拌沥青、橡胶沥青、排水降噪沥青、彩色沥青等。2006 年入选“上海市青年科技启明星”计划，并于 2009 年获得启明星跟踪计划。先后获得上海市科技进步奖 6 项，其中参与的《防滑低噪声沥青路面的研究》于 2004 年获得上海市科技进步奖三等奖。

Jun Yan, China. Shanghai Tongji Testing Technology Co. Ltd, Vice General Manager

Dr. Jun Yan is deputy general manager of Shanghai Tongji Testing Technology Co., Ltd. His research interests include application of special asphalt for heavy load road and steel bridge pavement, sustainable pavement technology, testing and evaluation for asphalt pavement and so on.



张海燕 中国 交通运输部公路科学研究院 副研究员

张海燕，副研究员，高分子化学博士，道路材料博士后经历；硕士研究生导师；公路高科公司材料事业部副部长。长期从事新型沥青材料、改性技术和沥青化学的研究工作。作为主要研究人员参与多项国家及省部级科研项目，主编及参编多部行业标准。成果获得省部级科技进步奖 4 项，申报及授权国家发明专利 53 项，发表科技论文 20 多篇，其中 SCI 论文 4 篇，获交通运输部公路科学研究院第一届青年科技拔尖人才、院青年专家委员会委员、交通运输系统优秀共产党员等称号。

Haiyan Zhang, China. Highway Research Institute of the Ministry of Transport. Vice Researcher

Zhang Haiyan, associate researcher, postgraduate tutor; Doctor of Polymer Chemistry, Postdoctoral Experience in Road Materials; Vice Minister of Materials Department of Highway Technology Corporation. The research concluded in new asphalt materials, modification technology and asphalt chemistry research work. Some of the research results were transformed and industrialized, and the scientific and technological level of the industry was promoted. As a principal researcher, he participated in many national and provincial scientific research projects, edited and edited many industry standards. The achievements were awarded 4 provincial and ministerial scientific and technological progress awards, 53 national invention patents were declared and authorized, and more than 20 scientific and technological papers were published, including 4 SCI papers. The achievements were awarded the title of the first young scientific and technological top talent, member of the Youth Expert Committee of the Academy, and outstanding communist party member of the transportation system of the Highway Science Research Institute of the Ministry of Transportation.



张恒基 中国 同济大学 博士研究生

张恒基，同济大学交通运输工程学院博士研究生。2013 年获得长安大学道路与机场工程材料专业学士学位，2016 年获得吉林大学道路与铁道工程硕士学位。研究领域为：海绵城市透水沥青路面和固体废弃物的再生利用。目前参与国家重点研发计划项目（中美“政府间国际科技创新合作”重点专项）低影响开发海绵城市透水铺装关键技术研究及应用。

Hengji Zhang, China, Tongji University, Ph.D. Candidate

Hengji Zhang is a Ph.D. candidate in the College of Transportation Engineering at Tongji University, Shanghai, China. In 2013, he obtained a bachelor's degree in road and airport engineering materials at Chang'an University. He received a master's degree in road and railway engineering at Jilin University in 2016. His research field are: permeable asphalt pavement in sponge city and recycling of solid waste. At present, he is involved in national key R&D projects (China-US "intergovernmental international science and technology innovation cooperation" key special project) research and implementation of pervious pavement for low impact development sponge city.



赵文忠 中国 河北曲港高速发展有限公司 处长

赵文忠，河北曲港高速公路开发有限公司董事长，河北省“三三三人才”第二层次人才；对路面及钢桥等新技术新材料的推广和工程应用（邢汾高速、曲港高速），作出巨大贡献；曾参与多项行业标准的编写；曾获奖励：橡塑合金沥青改性剂及其路用关键技术－河北省科技进步二等奖；沥青混合料多参数智能碾压技术研究及应用－中国公路学会二等奖；沥青路面绿色安全功能提升关键技术及工程应用－中国公路学会三等奖；2017 年荣获“河北省五一劳动奖章”荣誉称号；河北省政府特殊津贴专家；2018 世界交通运输大会优秀论文。

Wenzhong Zhao, China. Hebei Qu Kong Expressway Development Co. Ltd. Division Chief

Wenzhong Zhao, chairman of Hebei Qugang Highway Development Co., Ltd. He has made great contributions to the promotion and application of new technologies and materials in pavement and steel bridge, participated in the preparation work of several industry standards. He has won the second prize of Hebei Scientific and Technological Progress Award.



【天气信息】

周三（24 日） 多云 23℃ /17℃ 东北风转东风 <3 级



周四（25 日） 小雨 23℃ /18℃ 东风转东南风 3-4 级转 <3 级



周五（26 日） 小雨 23℃ /16℃ 东南风转东风 3-4 级



【交通信息】



1. 虹桥火车站 / 机场至同济大学嘉定校区（曹安公路 4800 号）：

出租车：约 30 分钟，25 公里，费用约 90 元。

公共交通：地铁 2 号线至江苏路换乘地铁 11 号线上海汽车城站，步行至曹安公路安谐路公交车站乘坐北安线（或安亭 4 路）至曹安公路绿苑路（打车约 20 元），总共用时约 120 分钟。

2. 浦东国际机场至同济大学嘉定校区（曹安公路 4800 号）：

出租车：约 70 分钟，70 公里，费用约 270 元。

公共交通：地铁 2 号线（浦东机场至广兰路段）至广兰路站内换乘地铁 2 号线（广兰路至徐泾东方向），江苏路换乘地铁 11 号线（花桥方向）至上海汽车城站，步行至曹安公路安谐路公交车站乘坐北安线（或安亭 4 路）至曹安公路绿苑路下车，总用时约 180 分钟。

3. 上海火车站至同济大学嘉定校区（曹安公路 4800 号）：

出租车：50 分钟，约 30 公里，费用约 100 元。

公共交通：地铁 3 号线 /4 号线至曹杨路站，换乘地铁 11 号线（花桥方向）至上海汽车城站，步行至曹安公路安谐路公交车站乘坐北安线（或安亭 4 路）至曹安公路绿苑路下车，总用时约 60 分钟。

4. 上海西站至同济大学嘉定校区（曹安公路 4800 号）：

出租车：30 分钟，约 22 公里，费用约 75 元。

公共交通：地铁 11 号线地铁 11 号线（花桥方向）至上海汽车城站，步行至曹安公路安谐路公交车站乘坐北安线（或安亭 4 路）至曹安公路绿苑路下车，总用时约 50 分钟。

5. 上海南站至同济大学嘉定校区（曹安公路 4800 号）：

出租车：45 分钟，约 38 公里，费用约 130 元。

公共交通：地铁 1 号线（富锦路方向）至徐家汇站换乘地铁 11 号线至上海汽车城站，步行至曹安公路安谐路公交车站乘坐北安线（或安亭 4 路）至曹安公路绿苑路下车，总用时约 100 分钟。





会议期间交通地图总览



【用餐信息】Catering service

1. 研讨会为报到参会的嘉宾提供餐饮的时间为：
The seminar provides catering service for the participants:

2018 年 10 月 25 日 12:00 至 13:30 12:00~13:30, 25 th October	午餐 Lunch
2018 年 10 月 25 日 18:00 至 20:00 18:00~20:00, 25 th October	晚宴 Dinner
2018 年 10 月 26 日 11:50 至 13:30 11:50~13:30, 26 th October	午餐 Lunch

2. 用餐地点（以所持餐券的用餐地点为准）：
Dining place:

2018 年 10 月 25 日 12:00 至 13:30 午餐 12:00~13:30, 25 th October, Lunch	同济大学秋谷苑二楼 2F, Qiugu Dining Hall, Tongji University
2018 年 10 月 25 日 18:00 至 20:00 晚宴 18:00~20:00, 25 th October, Dinner	普旭永道中餐厅, 黄渡镇绿苑路 488 号 (近同济大学) Puxuyongdao Resteraunt, No. 488 luyuan road, huangdu town (near tongji university)
2018 年 10 月 26 日 11:50 至 13:30 午餐 11:50~13:30, 26 th October, Lunch.	同济大学秋谷苑二楼 2F, Qiugu Dining Hall, Tongji University

3. 会议使用专用餐券, 当次有效, 请嘉宾务必按照餐券标注时间和地点佩戴参会证用餐, 遗失不补。未用的餐券不予退取。
The meeting uses a special meal coupon, which is valid at the schedule time. Please be sure to wear the registration card according to the time and place marked by the meal coupon. Unused meal coupons will not be refundable.

4. 会议统一安排之外的用餐费用请自理。
Please pay your own expenses for meals other than those arranged by the conference.



用餐地图

同心楼至同济大学
秋谷苑餐厅(午餐)



同心楼至普旭永道
中餐厅(晚宴)



【酒店信息】| Hotel information

1. 上海颖奕皇冠假日酒店

Crowne Plaza Shanghai Anting Hotel

地址: 上海市嘉定区博园路 6555 号 No.6555, Boyuan Road, Shanghai, China.





2. 格林豪泰酒店（上海嘉定大众国际汽车城店）

GreenTreeInns Hotel

地址：上海市嘉定区黄渡镇绿苑路 588 号 No. 580-688, Lvyuan Road, Shanghai, China



3. 退房请在各酒店前台办理，其它注意事项请遵循下榻酒店的相关规定。

Please check in at the hotel reception. Please follow the relevant regulations of the hotel for other matters.



INTERNATIONAL JOURNAL OF TRANSPORTATION SCIENCE AND TECHNOLOGY (IJTST) INNOVATIVE RESEARCH WITH BROADER IMPACTS



征稿启事

IJTST (ISSN 2046-0430), 同济大学主办, 为交通运输工程一级学科服务的国际学术期刊。2012 年创刊, 季刊, 刊发交通运输系统规划、设计、建设、运行、管理、服务、决策和维护等科学与技术相关文章, 早期由英国 Multi-Science 出版发行 (online 在线和 print 纸版); 2016 年版权归属同济大学和同济大学出版社, 并转到 Elsevier 平台国际化在线出版发行; 在线阅读开放获取 (Open Access)。截至 2018 年 10 月共已出版 7 卷、27 期、171 篇学术论文。由美国德克萨斯大学丘瑞龙教授和同济大学郭忠印教授担任主编。副主编由美国加州大学戴维斯分校 John Harvey 教授、北卡大学的范围教授、希腊雅典国家技术大学 Eleni Vlahogianni 教授, 同济大学凌建明教授、李辉教授、谢驰教授担任。43 位来自 14 个国家的国际著名专家学者担任编委。

随着城市化、机动化的快速发展以及经济社会活动的日益增加, 交通系统面临交通拥挤、安全和环境的严峻挑战。在此背景下, IJTST 期刊重点探讨基础设施的扩建、改善和管理等的解决方法和技术创新, 为研究人员提供发布与运输安全、效率、可靠性和环境友好等相关的创新研究的平台, 将科学研究的智力优势与更广泛的影响联系起来, 并讨论实施问题, 供研究人员、实践者和决策者以及广泛的交通创新团体参考。现面向国内外征稿, 欢迎与交通运输系统规划、设计、建设、运行、管理、服务、决策和维护等科学与技术相关的文章。

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4、特刊征稿:

国际交通科学与技术杂志特刊主题为: 透水路面与城市雨洪管理, 其目的在于展示透水路面新技术与应用, 推进透水铺装与城市雨洪管理。



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INTERNATIONAL JOURNAL OF TRANSPORTATION SCIENCE AND TECHNOLOGY (IJTST)

INNOVATIVE RESEARCH WITH BROADER IMPACTS

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CALL FOR PAPER

IJTST (ISSN 2046-0430) is an international academic journal, which is hosted by Tongji University to serve the first level discipline of transportation engineering. The articles about transportation technology progress on transportation facilities planning, design, construction, maintenance and operation are published quarterly in the journal since 2012. The journal was published by the British Multi-Science early (online and print), and since 2016 it change to the Elsevier platform for international online publishing with online open access. By October, it has published 7 volumes, 27 issues, 171 articles.

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Editor Board: 41 internationally renowned experts and scholars from the 14 countries.

Aim and Scope:

IJTST is a forum for researchers to disseminate innovative research that enhances the safety, efficiency, reliability, and environmental friendliness of all modes of person and freight transportation. IJTST welcomes technical articles that contribute to the advancement of transportation science and technology in all modes of transportation. While science and technology is the main theme of this journal, articles submitted for possible publication should also address the impacts of the new science and technology on the planning, design, construction, maintenance and operations of transportation facilities. The ability to link the intellectual merit of scientific research with broader impacts, and discuss implementation issues makes IJTST of interest to not only researchers, but also policy makers, practitioners, innovators and entrepreneurs.

1. Authors Submission: This journal must be registered online for submission at <http://www.journals.elsevier.com/international-journal-of-transportation-science-and-technology>. Please submit the manuscripts according to the manuscript submission format of the website. This journal is completely free, open, and does not charge any fees in any way, including layout fee and review fee.

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4. Special Issue on Porous Pavement and Stormwater Runoff Management

The aim of this special issue in International Journal of Transportation Science and Technology (IJTST) is to present new methodologies and applications to promote porous pavement and stormwater runoff management.



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公司简介

中设设计集团是一家综合性工程咨询集团，前身为始建于1966年的江苏省交通规划设计院，集团先后荣获300多项国家、部、省级科技进步奖、优秀工程勘察设计奖和咨询成果奖以及多项国际大奖，自2008年起成为中国勘察设计行业“五十强设计院”，自2014年起成为“中国工程咨询企业四十强”。集团系ISO9001认证企业和江苏省高新技术企业。2014年，公司在上海证券交易所整体上市（中设集团，603018）。2015年，中设设计集团成立。

历经五十多年的发展，集团形成了以综合规划、交通、水运、城建、铁道、环保和智能、工程管理和检测等七大业务板块为引领的全行业、多领域融合发展的战略格局，可提供从战略规划、工程咨询、勘察设计到科研开发、检测监测、项目管理、专业施工、后期运营等全生命周期的一体化解决方案。

未来，中设设计集团将在“走出去”和“卓越、极致”两大战略的指引下，秉承“博观约取、厚积薄发、锐意创新、偕作偕行”的企业价值观，以“成为领先的全国性工程设计咨询集团”为愿景，以“设计+”为核心，以交通、城市、创新创意、资本、互联网五大战略发展方向为引领，进一步提升在全球范围内整合资源的能力，致力于成为一家以资本和创新驱动的国际化的、多元化发展的平台型工程咨询集团。



COMPANY INTRODUCTION

China Design Group Co., Ltd (China Design Group) is a general engineering consultation group which comes from former Jiangsu Province Transportation Planning & Design Institute founded in 1966. China Design Group has been awarded over 300 Prizes for Progress in Science and Technology at state, ministerial and provincial level, Excellence Prizes in Engineering Survey and Design, Excellence Prizes in Consultation Results as well as several international prizes. It has been enlisted among Top 50 Design Institutes in China survey and design industry since 2008 and among Top 40 China Engineering Consultation Enterprises since 2014. The Group has been certified by ISO9001 and as Jiangsu Province High-Tech Enterprise. In 2014, the Group went public at Shanghai Stock Exchange (China Design Group, 603018). In 2015, China Design Group Co., Ltd was founded.

After over half-a-century of development, the Group has formulated a strategic layout of all-industries and multi-areas development which consists of such 7 business units as General Planning, Transportation, Water Transport, Urban Construction, Railway, Environmental Protection and Intelligence and Engineering Management and Testing, and is able to provide whole-life-cycle all-in-one solutions which covers from strategic planning, engineering consultation, survey and design to scientific R&D, testing and supervising, project management, professional construction and operation. In the future, guided by 2 major strategies “going out” and “excellence & perfection”, China Design Group Co., Ltd follows the corporate value of “Well-rounded, Profound, Accumulated, Enterprising, Innovative, Cooperative”, holds the vision of “Becoming a leading national engineering design and consultation group”, sets “Design +” as the core, orients its path to transportation, city, innovation & creativity, capital and internet, further upgrades its abilities of integrating resources around the globe, and aspires to become an international, multi-development engineering consultation platform group driven and inspired by capital and innovation.



让道路更生态，让城乡更文明

同路达（上海）生态科技有限公司

1

公司简介

同路达（上海）生态科技有限公司是一家以生态环保功能材料与装备的研发、生产和技术咨询为一体的科技型创新企业，专业从事海绵城市透水铺装相应技术的研发与推广业务。

地址：上海市嘉定区曹安公路4801号B区南楼406

联系方式：021-69581567 18116268644（张冲）

2

生态景观铺装

多孔材料



透水+净水

采用透水路面可有效减少路面雨水，从而减少行车水雾，保障驾驶安全。此外，透水路面还能起到净化水质，减少扬尘，补充地下水的作用。



高强改性剂



高强+耐久

采用高频重载增强剂，可以极大地提高路面的强度、耐久性性能，从而可以应用于交通量大、荷载等级高的路段。



发光反射涂层



美化+景观

在白天，彩色路面可以结合当地特色，打造特色路面景观，起到美化环境、提示行人的作用。在夜晚，采用发光路面可以保证夜间也有同样的效果。



3

典型案例

京襄城遗址公园



公园以京襄城遗址为背景，以文物保护和生态建设为主旨，通过采用全透水彩色混凝土路面，极大地优化了公园的景观，实现了路面与景观的协调统一，也保证了良好的生态环保性能。

安国生态服务区



该服务区是我国首个高速公路生态海绵服务区，透水铺装建设面积约2万平方米，分别用于服务区广场、小车停车场、客车停车。此外，部分大（重）车停车场采用了高频重载透水铺装技术，在保证高强、耐久性能的同时，实现了铺装的环境友好发展。

上海透泽环境科技有限公司

上海透泽环境科技有限公司致力于海绵城市透水铺装技术，我司研发的“高强度无机透水混凝土彩色整体路面”2018年9月已通过住建部《海绵城市建设先进适用技术与产品应用指南》专家评审，是《上海市海绵城市建设技术标准图集》参编单位（在编）。

公司主要从事混凝土透水路面工程设计施工、无机透水混凝土增强剂研发生产、生产和销售高强度无机混凝土透水砖。我司在上海松江国际商务区建成的城市透水路（试点段）2017年9月成功通过第三方验收，已安全运行一年多。由同济大学李辉教授课题组技术主导的河北曲港高速安国服务区透水停车场及透水广场，我司于2018年10月完成了近2万平米的施工。

无机透水保水混凝土增强剂是我司的核心产品，该产品借鉴吸收了日本同行顶尖技术并结合我国道路实际情况独特配方。采用该增强剂建造的无机透水保水混凝土道路具有强度高、透水保水性能好、不易老化等特点。我司还和国内著名的制砖企业合作，联合打造海绵城市专用无机透水砖。

附部分项目案例及图片：

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2	上海松江 * 环河景观道	上海绿建集团
3	上海临港海绵示范区 * 卢茂路人行步道	上海市政总院
4	上海芦潮港 * 景观非机动车道	上海水利集团
5	河北曲港高速安国服务区停车场	同济大学 / 中建路桥



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