

# Welcome Speech

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Welcome to Forum on Asphalt Pavement Technology in China and Inaugural Meeting of the International Association of Chinese Infrastructure Professionals

Dear Forum on Asphalt Pavement Technology in China and Inaugural Meeting of the International Association of Chinese Infrastructure Professionals Participant:

It is with great pleasure that I welcome you to Forum on Asphalt Pavement Technology in China and Inaugural Meeting of the International Association of Chinese Infrastructure Professionals (IACIP).

In the past decades, with the rapid development of highway construction in China, we also continue to strengthen international exchanges in this field, introduce new technologies and new ideas from overseas, to enhance the industry's technology strength through constant cooperation and sharing.

We are pleased to see that leaders from business, government, academia, and the research community from both China and America to discuss the collaboration of US and China in research and education of transportation infrastructure as well the sustainability development of asphalt pavement technology in China. Then successfully make the event a best place for the collaboration of US and China in research and education of transportation infrastructure. We believe that the advanced ideas, insights and practical solutions will attract more and more participants.

I wish that I could personally welcome each one to forum on asphalt pavement technology in China and inaugural meeting of IACIP. On behalf of the RIOH, forum staff thank you for being here with us.

Meeting you in Washington DC!

Sincerely,

Zhou Wei

President of RIOH

# Welcome Speech



## Welcome to Forum on Asphalt Pavement Technology in China and Inaugural Meeting of the International Association of Chinese Infrastructure Professionals

Ladies and gentlemen, dear colleagues and friends,

I am very honored to be here with you today as part of this occasion to formally join the International Association of Chinese Infrastructure Professionals, or IACIP. I would like to take this opportunity to welcome and salute our friends, colleagues, and counterparts from US, China, and other parts of the world to attend this inauguration ceremony of IACIP and the first US-China Workshop on Research and Education Collaboration in Transportation Infrastructure. Thank you for the opportunity to be a part of such a passionate organization focused on Civil Infrastructure and Systems development, education, and other related issues. This organization started with the vision of being one of the leading professional organizations in Civil Infrastructural Engineering. Because of this vision, we come together to work under the banner of IACIP. This organization, through its members, will gather and disseminate information for Civil Infrastructure professionals and will aim to facilitate the advancement of knowledge and technology in the areas of Civil Infrastructure and Systems through education, technology transfer, and research at an international level. Therefore, this organization will provide such a forum and platform that each participant can have a better opportunity to share and collaborate with others in his or her corresponding professional areas. As one example of such opportunity, today, our guests from China will bring us the Legacy, Opportunities, and Sustainable Future in the development of China's highway infrastructure system and recall this glorious and challenging history together. On behalf of IACIP, I look forward to collaborating and corresponding with all of you and our professional peers worldwide to fulfill our dream. Thank you again for this opportunity.

Sincerely,  
Zhongjie Zhang  
President of IACIP



Through decades of exploration and efforts of several generations, China's highway system has entered a new era that is full of great accomplishments. Let's gather and recall this glorious and challenging history!

The Forum on Asphalt Pavement Technology in China, in conjunction with the Inaugural Meeting of the International Association of Chinese Infrastructure Professionals, to be held during the Transportation Research Board (TRB) annual meeting, has the following objectives:

To review the history and showcase the great strides in the development of China's highway system during the last three decades;

To depict the future trends of China's highway networks; and

To foster US-China collaborations on highway research and education.

This forum is jointly organized by Research Institute of Highway, Ministry of Transportation, PRC and the International Association of Chinese Infrastructure Professionals (IACIP). Renowned Chinese experts in pavement technology will be invited to deliver the conference keynote speeches.



**Research Institute of Highway, Ministry of Transportation, PRC** is the sole national level research institute in the transportation area. The mission of this institute is to lead the research and development in the areas of pavements, bridges, transportation engineering, intelligent transportation system, highway transportation, public transportation, transportation environment preservation, freight transportation, etc. The institute owns and oversees the operation of one of the best experimental facilities in Asia for comprehensive transportation-related experiments. In the past few decades, the Institute has been leading the design and research on asphalt pavement technologies in China, including the development of relevant pavement design specifications. The accomplishments of the Institute are remarkable.



**The International Association of Chinese Infrastructure Professionals (IACIP)** is a registered non-profit professional organization with its members working or studying in the fields of Civil Infrastructure and Systems (CIS) and related areas who are interested in CIS development and related issues. The vision of IACIP is to be a leading professional organization in Civil Infrastructural Engineering worldwide. IACIP aims to facilitate the advancement of knowledge and technology in the areas of Civil Infrastructure and Systems through education, research, and technology transfer at an international level. IACIP promotes the cooperation among members and professional organizations by hosting, sponsoring, and supporting activities and events that meet organization goals and objectives.



**Organizing Committee Co-chairs:** Kaiming Niu, Xudong Wang, Linbing Wang and Yingwu Fang

**Members:** Shuanfa Chen, Zhongyin Guo, Jie Han, Baoshan Huang, Xiaoming Huang, Aimin Sha, Shihui Shen, Yiqiu Tan, Kelvin Wang, Haifan Wen, Chung Wu, Zhifeng Yang, Xiong Yu, Lei Zhang, Zhanmin Zhang, Zhongjie Zhang, Ruihua Guo

# **Agenda**

## **January 23, 2011 1:00~6:30 PM**

### **Calvert Room, Omni Shoreham, Washington DC**

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13:00-13:10 Opening Session

Linbing Wang, Xudong Wang and Jie Han

13:10-13:30 Welcome Speech :

Dr. Zhongjie Zhang

Dr. Zhifeng Yang

13:30-16:00 Keynote Speech :

13:30-14:00 Wang Zheren : *The development of the freeway asphalt pavement structure in East-North region in china*

14:00-14:30 Zhou Wei : *Development and Prospect of Transportation during the period of The 12th Five-year Plan(2010~2015)*

14:30-15:00 Niu Kaimin : *The development of the cement pavement technology in china freeway*

15:00-15:30 Wang Xudong : *The development of semi-rigid base asphalt pavement in china*

**Break (10 Minutes)**

15:40-15:50 G. P. Jayaprakash "The national Academies"

15:50-16:20 Presentation Session I (90minutes/3, Chairs, Xiong Yu, Haifan Wen)

16:20~16:50 Shuanfa Chen : *Performance of asphalt mixture with Ice and Snow inhibitor*

16:50~17:20 Zhongyin Guo : *The prediction model of permanent deformation of asphalt pavement*

17:20-17:50 Zhendong Qian : *Investigation of using condition of epoxy asphalt concrete pavement on Nanjing Second Yangtze River Bridge — — Ten Years Review*

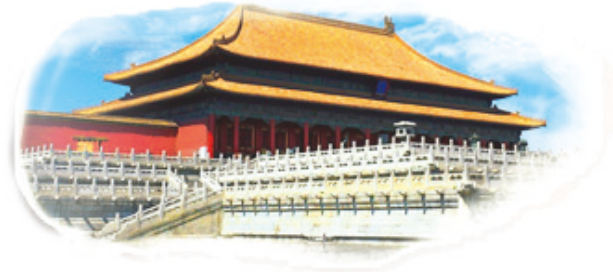
**Break (10 Minutes)**

18:00-18:40 Panel Discussion (40 minutes, Chairs, Zhanmin Zhang and Zhanping You)

18:40-18:50 Concluding Remarks

10 minutes, Kevin Wang

Adjourns, Banquet (19:00 PM)



# Brief Introduction of Speakers



**Dr. Zhou Wei**

President, Research Institute of Highway, Ministry of Transportation,

**Major Research Direction:** Traffic engineering, traffic economy

**Title of presentation:** Development and Prospect of Transportation during the period of The 12th Five-year Plan(2010~2015)

**Pro. Wang Zheren**

Professor of Harbin Institute of Technology.

**Major Research Direction:** Material and pavement structure of highway engineering, especially asphalt pavement technology in cold region.

**Title of presentation:** The development of the freeway asphalt pavement structure in East-North region in china



**Dr. Yang Zhifeng**

Director of traffic road research center, Research Institute of Highway, Ministry of Transportation,

**Major Research Direction:** Road engineering, engineering material, traffic security

**Dr. Niu Kaimin**

Division Chief, science technology & Education Division, Research Institute of Highway, Ministry of Transportation,

**Major Research Direction:** Material and pavement structure of highway engineering, especially cement concrete pavement

**Title of presentation:** The development of the cement pavement technology in china freeway



**Dr. Wang Xudong**

Doctoral supervisor , Research fellow,  
Research institute of highway, Ministry of transportation,

**Major Research Direction:** Road engineering and road constructional materials, especially the design and process of semi-rigid base asphalt concrete pavement

**Title of presentation:** The development of semi-rigid base asphalt pavement in china

**Pro. Shuanfa Chen.**

Doctoral Supervisor, director of School of Material Science and Engineering of Chang' an University and Engineering Research Center og Transportation Material, Ministry of Education.

**Major Research Direction:** Pavement structure and material

**Title of presentation:** Performance of asphalt mixture with Ice and Snow inhibitor



**Pro. Zhongyin Guo.**

Doctoral Supervisor, School of Transportation Engineering of Tongji University.

**Major Research Direction:** Road secure engineering, subgrade-pavement engineering and material

**Title of presentation:** The prediction model of permanent deformation of asphalt pavemtor.

**Pro. Zhendong Qian.**

Doctoral Supervisor, Associate director of ITS center of East south University.

**Major Research Direction:** Crack development mechanism of Steel Deck Pavement, health supervise and crack treatment, new pavement structure and material, complex structure calculation et.

**Title of presentation:** Investigation of using condition of epoxy asphalt concrete pavement on Nanjing Second Yangtze River Bridge——Ten Years Review



# Chairs of IACIP



**Dr. Zhongjie Zhang**, President of IACIP, is a registered professional engineer and the Research Administrator of Louisiana Transportation Research Center, USA. He managed and supervised more than 60 research programs and projects with more than 25 years of experience in the highway infrastructure area that include its design, construction, operation, and maintenance. He served as a member in many national committees and expert panels in those areas and also served as an executive production editor for the International Journal of Pavement Research and Technology. He received his B.S., M.S., and Ph.D. from Chang An University, Tongji University, and Louisiana State University, respectively.

**Dr. Yinwu Fang**, Vice-President of IACIP, is a professional engineer and contractor administrator for Virginia Department of Transportation. He has extensive research and work experience on many subjects in pavement, highway, airport, land development, work zone safety, transportation planning, etc. In addition, Dr. Fang is also an expert on relational database with four Oracle Certified Professional certificates. Over the years, Dr. Fang has been serving on various professional organizations and technical committees as journal editor, peer paper reviewer, committee member, and consulting expert for private industry, government agencies, and academic area.



**Dr. Jie Han**, Vice-President of IACIP, is a professional engineer and professor in civil engineering at the University of Kansas. He has served as technical co-chairs for major international geotechnical engineering conferences including ASCE GeoFrontiers 2011 and GeoShanghai 2006, an editor, associate editor, or editorial board member for seven international and Chinese journals, a member for several international technical committees. Prof. Han's research and practical experiences have dealt with geosynthetics-reinforced earth structures, ground improvement, pile foundations, and pavement applications. He has published nearly 200 peer-reviewed journal and conference papers.

**Dr. Linbing Wang**, Vice-President of IACIP, is a professional engineer and professor in civil engineering at Virginia Tech. He is the Director for the Center for Smart Infrastructure and Sensing Technology at Virginia Tech Transportation Institute. Dr. Wang is the founding chair for the Committee for Mechanics of Pavements of the Engineering Mechanics Institute of ASCE and is involved in many research activities of FHWA, NSF, and the national Academies. Dr. Wang's research areas include smart and sustainable technologies, energy harvest, health monitoring, innovative infrastructure assessment and performance predictions; high performance materials; multiple-scale characterization, modeling and simulation; pavement testing and mechanistic pavement design, infrastructure preservation and management; and application of remote sensing and imaging techniques. Dr. Wang has organized several symposiums and workshops sponsored by NSF.

