

IACIP NEWSLETTER ISSUE 4

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IACIP's Public Relations Committee, Zhanping You, Chair

President's Note

Looking Towards Future

Earlier this year, IACIP Board of Directors reviewed and approved the association's first "5-year Strategic Plan." Established in 2010, IACIP has achieved many accomplishments in the past seven (7) years. Among many others, we have successfully organized our 7th Annual Workshop in January 2017 and our 2nd International Conference in June 2017.

Under the leadership of past and current officers and board members, the association has been growing and improving steadily. However, it is also important for the association to step back to collectively review our past and think where we should go in the next phase of IACIP. The goal of the plan is to provide a map for the association for the next five years (2017 – 2021). This document will be reviewed annually.

Goals for the next five years are:

- Standardization and improvement of the Annual Workshop
- Establishment of a sustainable fundraising mechanism
- Improvement and diversification of the membership
- Website management
- Enhancements on student activities
- Strengthening and managing we-chat platform
- Review of legal status

Specifically, the following are goals for 2017:

- Develop written guidelines for the annual workshop and banquet
- Develop written guidelines for the international conference
- Develop young member committee/student we-chat group
- Review of IACIP legal status

I appreciate your support and participation in our past activities and look forward to your continuing support to IACIP.

Best Regards,

Chung Wu, Ph. D., PE
President of IACIP



NCHRP Project by IACIP Member



Dr. Shihui Shen at Asphalt Mixture ETG meeting, Iowa State Univ. Aims, Iowa, May 1st.

- IACIP members Dr. Shihui Shen (associate professor of Penn State Altoona, IACIP board member), Dr. Shenghua Wu (senior sustainability researcher engineer of University of Illinois Urbana-Champaign, IACIP fundraising committee member), Dr. Weiguang Zhang (post-doctoral researcher of Purdue University, IACIP public relation committee member) recently authored NCHRP report 843, titled Long-Term Field Performance of Warm Mix Asphalt Technologies. This report was published by NAE based on a five-year one-million dollar national NCHRP 9-49A project. Other authors of the report include professor Louay Mohammad from Louisiana State University, and professor Balasingam Muthunathan from Washington State University. Based on field performance and material properties collected from 23 projects across the United States, the researchers concluded that pavements containing various WMA technologies exhibited long-term field performance comparable with that of the companion HMA pavement in terms of transverse cracking, wheel-path longitudinal cracking, and rutting.



IACIP Member Academic Activities

- IACIP members enthusiastically participated in academic activities in China, such as World Transport Convention (WTC), Transportation Research Congress (TRC), International Conference on Transportation Infrastructure and Materials (ICTIM), Top Forum of Bridge Innovation and Development, and Jiangsu Highway Maintenance Technologies Forum, etc.



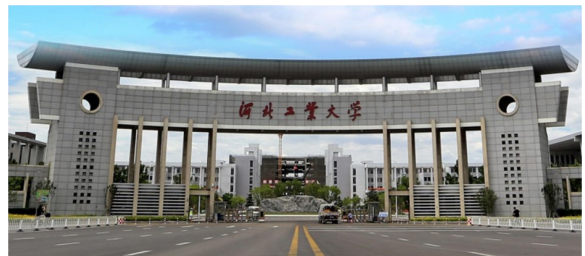
IACIP Upcoming Activities

IACIP 2018 (3RD) ICTIM Conference

The 2018 (3rd) International Conference on Transportation Infrastructure and Materials (ICTIM) Conference will be held in Tianjin, China from June 1 to 4, 2018. The conference will be jointly organized by IACIP and the Hebei University of Technology (HEBUT) and co-sponsored by TRB and ASCE. The theme for the conference will be Smart and Sustainable Transportation Infrastructure.

Topics of the conference will include but are not limited to the following:

- Intelligent Urban Transportation Systems
- Unmanned Driving Systems
- Sustainable Development of Civil Infrastructure
- Advanced Engineering Materials
- Intelligent Structural Health Assessment
- Resilient Systems for Disaster Prevention & Mitigation
- Underground Structures
- Geotechnical Engineering
- Other Related Topics



IACIP Completed Activities

The 2nd International Conference on Transportation Infrastructure and Materials (ICTIM)



The second International Conference on Transportation Infrastructure and Materials (ICTIM 2017) was successfully held in Qingdao, China from June 9 to 12, 2017. This conference was jointly organized by Qingdao University of Technology and IACIP with cooperation from ASCE, TRB, etc., which attracted more than 200 attendees from nine different countries including China and USA.

With the focus on the latest advances in research and practice of transportation infrastructure and materials, this conference received approximately 150 papers worldwide. About 100 podium presentations in 20 technical sessions were delivered, covering topics on rigid and flexible pavements, bituminous material testing and evaluation, concrete materials, bridge structures, tunneling techniques, soil improvement, soil dynamics, geosynthetics, slope stability, and other innovative materials. In addition, one keynote address and four keynote speeches were delivered by renowned scholars from USA and Europe, which disseminated the recent development in bio-geotechnical engineering, soil testing, applications of sensor technology in civil engineering, and asphalt materials.

On the last day of the conference, a field trip was organized to visit completed transportation infrastructures as well as a construction site in Qingdao.

In addition to its regular program, this conference organized the Intelligent Compaction Workshop and the expert forum on June 9, both of which were held on the campus of Qingdao University of Technology. The expert forum included one material session and one geotechnical session in Chinese. Thirteen experts shared their research outcomes and visions of the future development in the field of transportation infrastructure and materials with the audience and addressed their questions.



IACIP Completed Activities

IACIP Webinar

Dr. Linbing Wang, gave a webinar on “Global Warming and Its Impact on Transportation” on April 8th (Beijing time). This webinar focused on the phenomenon of global warming, its evidences, causes, and consequences. The active discussions and feedback on the implications of global warming to the change of transportation technology during and after the webinar is an indication of the success of this webinar.



Dr. Wang is professor in civil engineering materials and pavement at Virginia Tech, and an adjunct professor at the National Center for Materials Service Safety (NCMS) of China. He is the founding chair of the Mechanics of Pavement Committee, and the Vice Chair of the Nanomechanics and Micromechanics committee of the Engineering Mechanics Institute (EMI) of ASCE.

IACIP We-Chat Webinar

A We-Chat Webinar was successfully organized by IACIP members on May 14th (Beijing Time). The topic of this We-Chat Webinar was “Performance-Based Asphalt Mixture Design Methods.” Experts and ICAIP members had an active discussion on related topics, such as balanced mix design (BMD) method, commonly used tests, and theory and field applications, as well as research priorities, difficulties, and directions. Possible collaborations among scholars in China and abroad were also of interests.

The Webinar was co-chaired by professor Huining Xu (Harbin Institute of Technology), Dr. Shenghua Wu (University of Illinois Urbana-Champaign), and Dr. Weiguang Zhang (Purdue University). Dr. Yilong Liu (Louisiana Transportation Research Center) and Dr. Jianping Xiong (Guangxi Transportation Research & Consulting Co., Ltd.) provided technical support.



Balanced Mix Design 沥青混合料平衡设计理念

伊利诺伊州关于 Balanced Mix Design 的设计理念是既要满足对车辙的要求，同时也要满足具有良好抗裂性的能力。我们主要通过 IRT 试验和 Hamburg 试验来检验沥青混合料的性能，然后通过第一个文义图，来看沥青混合料性能落在哪个区域内。

