

The 3rd IACIP Annual Workshop
**Emerging Issues in Transportation Infrastructure Design, Inspection and
Maintenance**

Sunday January 13, 2013 from 8:30AM to 5:30PM, the Shoreham Hotel, Executive Room

8:00-8:30	Registration
8:30-8:35	Conference Opening by Dr. Xiong (Bill) Yu, Chair of Annual Workshop Introduction of members of the organizing committee Acknowledge the sponsors of the annual workshop
8:35-8:40	Welcome remark by Dr. Doc Zhang, President of IACIP
8:40-8:45	Welcome remark by Dr. Linbing Wang, Incoming President of IACIP
8:45-10:00	Keynote Lectures (Introduction of speakers by Dr. Yingwu Fang) * Wenyang Yang, RIOH, 交通部公路院杨文银书记 <i>Development of China's Roadway Network</i> * Liu Songyu, Professor of Southeast University <i>Application and development of soft soil improvement techniques in highway engineering in China</i> * Zhongkui Han, Director, Qinghai Provincial Highway Construction and Management Bureau, 青海公路建设管理局韩忠奎局长 <i>New Technologies for Construction and Maintenance of Qinghai-Tibet Highway</i>
10:00-10:15	Group Photo Taking (All workshop attendees)
10:15-11:15	Moderator: Dr. Jie Han Kelvin Wang, Chair Professor, Oklahoma State University <i>30KHz 3D Laser Imaging Sensor at True Imm Resolution for Pavement Survey</i> Qingli Dai, Assistant Professor, Department of Civil Engineering, Michigan Technological University <i>Investigation of Internal Frost Damage in Cementitious Materials</i> Xuecheng Bian, Associate Professor, Zhejiang University <i>Full-scale model test on ballastless high-speed railroad with simulated train moving loads</i>
11:15-11:30	Student Poster (Coordinator: Dr. Xiong Zhang; Co-organizers: Drs. Ming Xiao and Mingjiang Tao)
11:30-12:30	Moderator: Dr. Chung Wu Rongji Cao, Vice President, Jiangsu Transportation Institute <i>Pavement Cold Recycling on Highway Rehabilitation Projects</i> Yigong Ji, Pavement Engineer, Indiana Department of Transportation <i>Project Level Pavement Evaluation Using FWD, GPR, and Video Logging and Its Application on MEPDG in Indiana</i> Dr. Shou-Zhong Feng, president of Wuhan Guangyi Engineering Consulting, Co. <i>New Energy-Saving Technologies for Tunnels and Applications in Inner Mongolia</i>

12:30 - 1:30 Lunch + Student Poster Display	
1:30-2:30	<p>Keynote Lectures (Introduction of speakers by Dr. Xiong (Bill) Yu)</p> <p>*Genda Chen, Professor, Missouri University of Science and Technology <i>New Perspectives on Structural Health Monitoring of Transportation Infrastructures</i></p> <p>* Chiwan Wayne Hsieh, Professor, Department of Civil Engineering, Dean, School of continuing & Extension Education, National Pingtung University of Science & Technology <i>Design and Construction of Kinmen Bridge</i></p>
2:30-3:00 Student Poster (Coordinator: Dr. Xiong Zhang; Co-organizers: Drs. Ming Xiao and Mingjiang Tao)	
3:00-4:00	<p>Moderator: Dr. Zhanming Zhang</p> <p>Jennifer G. Duan, Associate Professor, University of Arizona <i>Impacts of Steam Restoration on River Bridges</i></p> <p>Zhen Leng, Assistant Professor, The Hong Kong Polytechnic University, <i>Nondestructive Evaluation of Transportation Infrastructures Using Ground-Penetrating Radar: In-situ Asphalt Mixture Density Prediction and Railroad Ballast Fouling Detection</i></p> <p>Yan-Jun Du, Professor, Institute of Geotechnical Engineering, Southeast University, China <i>Field Performance of Highway Subgrade Soils Stabilized with Calcium Carbide Residues</i></p>
4:00-4:30 Student Poster (Coordinator: Dr. Xiong Zhang; Co-organizers: Drs. Ming Xiao and Mingjiang Tao)	
4:30-5:00	<p>Panel Discussion (Moderator: Dr. Shihui Shen)</p> <p>The panel discussion will engage panelists and workshop attendees to discuss general aspects as well as specific issues related to infrastructure in different geographic regions. We also welcome comments and feedbacks on how IACIP can best positioned to prompt expert-exchange worldwide and address the challenges in infrastructure planning, development and maintenance. List of panelist will be announced at the workshop.</p>

Workshop Adjoin

3rd IACIP Annual Banquet

6:30PM, Tony Cheng's Seafood Restaurant, (中国城海鲜大酒楼), See attached information

List of Student Posters

Supervised by Drs. Ming Xiao, Xiong Zhang and Mingjiang Tao

1. Effect of Amount of Fly Ash on Shear Strength of Reinforced Concrete Beams

Presenter: Mahdi Arezoumandi, Ph.D. student, Missouri University of Science and Technology

Advisors: Jeffery S. Volz, Assistant Professor, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology; John J. Myers, Associate Professor, Department of Civil, Architectural and Environmental Engineering, Missouri University of Science and Technology

2. Experimental Study of Sustainable Asphalt Binder: Influence of Thermochromic Materials

Presenter: Jianying Hu, Ph.D. Student, Case Western Reserve University

Advisor: Xiong (Bill) Yu, Associate Professor, Department of Civil Engineering, Case Western Reserve University

3. Runway Groove Identification and Evaluation Using 1mm 3D Image Data

Presenter: Lin Li, Ph.D. Student, Oklahoma State University

Advisor: Kelvin C. P. Wang, Chair Professor, Joshua Q. Li, Vu Nguyen, School of Civil & Environmental Engineering, Oklahoma State University, Stillwater OK

AL Larkin, and Gordon Hayhoe, NAPTF, FAA Tech Center, Atlantic City, New Jersey, USA

4. Evaluation of Pavement Preservation Treatments Used in Alaska

Presenter: Anthony Mullin, Ph.D. student, University of Alaska Fairbanks

Advisor: Jenny Liu, Associate Professor, Department of Civil and Environmental Engineering, University of Alaska Fairbanks

5. The Need for A New Metrics Systems for Pavement Performance Evaluation Based on 3D Virtual Pavement Surface Model

Presenter: Shi (Sheldon) Qiu, Ph.D. student, Oklahoma State University

Advisor: Kelvin C. P. Wang, Chair Professor and Joshua Qiang Li, Oklahoma State University

6. An Innovative Approach for Asphalt Pavement Compaction Monitoring Using Ground Penetrating Radar

Presenter: Pengcheng Shangguan, Ph.D. Student, University of Illinois at Urbana Champaign

Advisor: Professor Imad Al-Qadi, Department of Civil and Environmental Engineering, University of Illinois at Urbana Champaign

7. Flow and Scour Pattern around Bridge Piers with Different Configurations: Insights from CFD Simulations

Presenter: Junliang Tao, Ph.D. Student, Case Western Reserve University

Advisor: Xiong (Bill) Yu, Associate Professor, Department of Civil Engineering, Case Western Reserve University

8. Open Mode Integrated Transportation System

Liang Wang, Ph.D. Student, Department of Civil Engineering and Engineering Mechanics, Columbia University

Advisor: Huiming Yin, Assistant Professor, Department of Civil Engineering and Engineering Mechanics, Columbia University

9. Thermoelectric Energy Harvesting System Design across Pavement Structure

Presenter: Guangxi Wu, Ph.D. Student, Case Western Reserve University

Advisor: Xiong (Bill) Yu, Associate Professor, Department of Civil Engineering, Case Western Reserve University

Workshop Co-Sponsor



Fahe Railway Technology & Equipment Co. Ltd

(上海法赫桥梁隧道养护工程技术有限公司, <http://www.fahe.com.cn>)

IACIP Annual Banquet, If You Are Would Like to

- Have an escape from tedious technical meetings;
- Expand your social network with recognized peers;
- Enjoy some delicious Chinese food from one of the best Chinese restaurants in the Washington, D.C. area;
- Try your luck of winning a nice raffle draw prize;
- Taste some excellent wine and other drinks;
- Entertain everyone and yourself with your Karaoke skills;

then, come and join us.

- Best of all, thanks to the generous donations from our sponsor, you will pay only a portion of the actual cost; a big portion of it will be covered by IACIP and our sponsor (Fahe Railway Technology & Equipment Co. Ltd for 2013)

Time and Date: 6:30 PM to 11:00 PM on Sunday, January 13rd, 2013

Location: Tony Cheng's Seafood Restaurant: 619 H Street, NW, Washington, DC

Ticket: \$25 each to enjoy food, wine, drinks, raffle draw, entertainment, etc.

Due to the limit on the number of seats, please purchase your banquet ticket at the meeting site of the 3rd IACIP Annual Meeting (Sunday January 13, 2013 from 8:30AM to 5:30PM, the Shoreham Hotel, Executive Room). For detailed directions, please see attached annual banquet flyer.

3rd IACIP Annual Workshop

Organizing Committee

Dr. Xiong (Bill) Yu, P.E., Associate professor, Case Western Reserve University (chair of organizing committee)

Dr. Jie Han, P.E., Vice-President of IACIP, Professor, the University of Kansas (chair of annual activities committee).

Dr. Yingwu Fang, P.E., Vice-President of IACIP, contractor administrator at Virginia Department of Transportation (webmaster)

Dr. Ming Xiao, P.E., Associate Professor, California State University, Fresno (poster competition chair).

Dr. Xiong Zhang, P.E., Associate Professor, University of Alaska-Fairbanks (poster competition co-chair, on-site poster evaluation coordinator)

Dr. Mingjiang Tao, P.E., Assistant professor, Worcester Polytechnic Institute (poster competition co-chair)

Dr. Shihui Shen, Assistant Professor, Washington State University (secretary of finance)

Executive Committee

Dr. Zhongjie (Doc) Zhang, P.E., President of IACIP, Research Administrator of Louisiana Transportation Research Center, USA.

Dr. Linbing Wang, P.E., Vice-President of IACIP, professor of civil engineering, Virginia Tech

Dr. Chung Wu, P.E., Vice-President of IACIP, District Materials Engineer at Virginia Department of Transportation

Dr. Zhanmin Zhang, P.E., Associate Professor and Fellow of the Clyde E. Lee Endowed Professorship in Transportation Engineering

Dr. Guoming Lin, P.E., WPC Inc-Terrocon Company

Dr. Kelvin Wang, P.E., Professor and Gilbert, Cooper, W&W Steel Chair of Civil Engineering, Oklahoma State University

Dr. Baoshan Huang, P.E., Professor, University of Tennessee

Dr. Shin Che Huang, P.E., Western Research Institute

Students Helpers (list to be added)

Zhen Liu, Case Western Reserve University

*Junliang Tao, Case Western Reserve University

*Guangxi Wu, Case Western Reserve University

*Jianying Hu, Case Western Reserve University

Quan Gao, Case Western Reserve University