

# **The 1<sup>st</sup> International Symposium on Transportation Soil Engineering in Cold Regions - A Joint Conference with the 10th SHAHUNIANTS Lecture**

**October 10-11, 2013**

**Xining, China**

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<http://www.issmge.org/en/conferences-and-events/conferences-other/eventdetail/489/-/the-1st-international-symposium-on-transportation-soil-engineering-in-cold-regions>

Cold regions cover 50% of the world's total land area. All transportation infrastructures in cold regions face great technical challenges due to ground freeze-thaw or permafrost degradation. New transportation infrastructure on embankments, such as high-speed railways on slab tracks or highways, requires high geometry standards. In China, the Qinghai-Tibet Railway has been in operation for more than 6 years but now faces issues due to permafrost degradation. More challenging technical problems will arise as more transportation infrastructure, such as highways, is being planned and/or constructed in Northwest and Northeastern China, Russia as well as the North America.

The First International Symposium on Transportation Soil Engineering in Cold Regions - a joint conference with the 10th Shahuniants Lecture aims to provide an opportunity for researchers and practitioners in the transportation community to share the latest research advances and experiences in the construction of transportation infrastructure in cold regions. The Shahuniants Lecture has been given regularly among Russian scientists for many years and this is the first time to have its abroad section outside of Russia.

Xining City is the capital of the Qinghai province, and it is the beginning of the Qinghai-Tibet railway and the National Highway 109. The operation headquarter of the Qinghai-Tibet railway is also located in this city.

## **Organized by:**

Qinghai Research Institute of Transportation (QRIT), Department of Transportation (DOT) of the Qinghai province, China

Beijing Jiaotong University, China

University of Illinois at Urbana-Champaign, USA

Moscow State University of Railway Transportation, Moscow, Russia  
University of Kansas, USA  
Siberian State University of Railway Transportation, Novosibirsk, Russia  
State Key Laboratory of Frozen Soil, Cold & Arid Regions Environmental and Engineering  
Research Institute, Chinese Academy of Sciences, China  
National Natural Science Foundation of China, China  
International Society for Soil Mechanics and Geotechnical Engineering(ISSMGE), Asia

**Sponsored by:**

Far-east State University of Railway Transportation, Habarovsk, Russia  
Zabaikal State University, Chita, Russia  
Korea University , Republic of Korea  
Korean Institute of Construction, Republic of Korea  
( to be continued, call for sponsors )

**Main Topics including but not limited to the cold regions aspects of:**

Mechanical behavior of soil and aggregate  
Coupled modeling of mechanical and physical processes  
Frost heave and thaw weakening of ballasted subgrade and base of slab track  
Field experiments in roadway embankments  
Long-term monitoring of subgrade functionality  
Non destructive testing of subgrade and aggregate  
Dynamic/seismic behavior of transportation infrastructure  
Other related topics related to transportation soil engineering in cold regions

**Honorary Chair:**

Prof. Yuanming Lai, Academician of Science  
Prof. Wei Ma, Director of Cold and Arid Regions Environmental and Engineering Research  
Institute, Chinese Academy of Sciences  
Prof. Askar Zhussupbekov, Vice President for Asia of ISSMGE

**The Organizing Committee:**

**Co-Chairs:**

Prof. Erol Tutumluer, University of Illinois at Urbana-Champaign, USA  
Prof. Ashpiz E, Moscow State University of Railway Transportation, Russia  
Prof. Jiankun Liu, School of civil Engineering, Beijing Jiaotong University, China  
Dr. Jianhong Fang, Director of the Qinghai Research Institute for Transportation(QRIT), China  
Prof. Zhaohui Yang, Director of Geotechnical and Frozen Soil Engineering Laboratory, School  
of Engineering, University of Alaska, Anchorage, USA

**Committee Members(in Alphabetic order):**

Prof. E. Ashpiz, Moscow State University of Railway Transportation, Moscow, Russia  
Prof. Broushkov Moscow State University, Russia  
Senior Engineer, Dongfeng Chen, Jilin Transportation Research Institute, China

Dr. Xi, Chen, Beijing Jiaotong University, China  
Prof. Jiangping Gao, Chang'an University, China  
Prof. Jianhong Fang, Director of the Qinghai Research Institute for Transportation, China  
Prof. Jie Han, University of Kansas, USA  
Prof. A. Isakov, Siberian State University of Railway Transportation, Novosibirsk, Russia  
Prof. C. H. Juang, Clemson University, USA, Co-Editor in Chief, Engineering Geology  
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Prof. Jong-Sub Lee, Korea University, Republic of Korea  
Prof. Xianchang Ling, Harbin Institute of Technology, China  
Prof. Hoe Ling, Columbia University, USA  
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Prof. Biao Ma, Chang'an University, China  
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Dr. Tianliang Wang, Shijiazhuang Railway University, China  
Dr. Vlasov A, Institute of Geo-ecology, Academy of Russia  
Dr. Junhua Xiao, Nanjing University of Technology, China  
Senior Engineer, Zhiwen Xiong, North-west Academy of Railway Science  
Prof. Zhaohui Yang, Director of Geotechnical and Frozen Soil Engineering Laboratory, School of Engineering, University of Alaska, Anchorage, USA  
Dr. Xiong Yu, Associate Professor, Case Western Reserve University  
Prof. Zurun Yue, Shijiazhuang Railway University, China  
Dr. Xiong Zhang, University of Alaska at Fairbanks, USA

Prof. Luxin Zhang, North-west Academy of Railway Science  
Prof. Qianli Zhang, China Academy of Railway Sciences, China  
Prof. Guoqing ZHOU, China University of Mining and Technology, China  
Prof. Hannele Zubeck, University of Alaska, Anchorage, USA

**Secretary:**

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Dr. Yahu Tian, Beijing Jiaotong University, E-mail: [yhtian@bjtu.edu.cn](mailto:yhtian@bjtu.edu.cn)

**Conference Language:** English.

**Important dates:**

May 15, 2013 Submission of full paper([zhangyu@mail.lzjtu.edu.cn](mailto:zhangyu@mail.lzjtu.edu.cn))  
May 30, 2013 Notification of the acceptance of submitted paper  
June 30, 2013 Deadline for submission of final revised paper ([zhangyu@mail.lzjtu.edu.cn](mailto:zhangyu@mail.lzjtu.edu.cn))

**Keynote speakers(to be confirmed):**

Shahunians Lecture: Distinguished expert from Russia  
Prof. Wei MA, about the current situation of the Qinghai-Tibet railway  
Prof. Yuanming Lai, Academician of Science, About the constitutive modeling of frozen soil  
Prof. Ashpiz, Monitoring system for railroad in cold regions  
Prof. Tutumluer, about aggregate study in North America, UIUC  
Prof. Zhaohui Yang, about piling in cold region, University of Alaska, Anchorage  
Prof. Jie Han, Geotechnical Engineering in Transportation, University of Kansas, USA  
Prof. Kondratiev, Subgrade problems in permafrost region and mitigation, Zabaikal State University, Chita, Russia  
Prof. Hoe Ling, Columbia University, USA  
Dr. Jianhong Fang, Construction of express highway in Qinghai  
Prof. Jiankun LIU, Frost Problems of High Speed Railway in Cold Region  
Dr. Vlasov A, On the fundamental problems in frozen soil mechanics, Institute of Geo-ecology, Academy of Russia

**Publication of Conference Papers:**

All papers accepted by this symposium will be published in the Journal of Sciences in Cold and Arid Regions, Academy of China(<http://www.scar.ac.cn/hhkxen/ch/index.aspx>), or the Journal of Qinghai Science and Technology in Transportation. Manuscript will be peer reviewed.

**Conference Date and Location**

Arrival and Registration: October 9  
Conference: October 10-11, 2013. Location: Qinghai Hotel, Xining, China

**Field Trip:**

Route A: Qinghai Lake and Ta-Er-Si Temple, October 12.  
Route B: Xining-Gulmut-Lhasa (optional, pre-registration required), October 13-16

**Pre-Registration Form**, send to [jkliu@bjtu.edu.cn](mailto:jkliu@bjtu.edu.cn), or the secretary

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Name, Initial		Gender		Title, Position
Affiliation				
Address				
E-mail				
Paper				
Presentation Form		Oral	Poster	None
Accom. Person		*Trip Selection	A	B
Room request				
Planned Arrival Time				
Other				

Register fee, pay on site:

2000RMB/person, or 320\$US/person (Including 3 days meal, Publication, Coffee breaks, Trip A)

\*Trip:

Route A: Qinghai Lake and Ta-Er-Si Temple, October 12. (Included in Symposium Program)

Route B: Xining-Gulmut-Lhasa (optional, **pre-registration** required, pay additionally), October 13-17 .