

Conference reports

The 3rd International Symposium on Transportation Soil Engineering in Cold Regions (Gui-De, Qinghai, China)

The 3rd International Symposium on Transportation Soil Engineering in Cold Regions was held at Gui-De City, China on July 6-7, 2017. The symposium was organized by Qinghai Research Institute of Transportation under the auspices of TC202 of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and AFP50, Committee on Seasonal Climatic Effects on Transportation Infrastructure of Transportation Research Board (TRB), also supported by the Chinese Transportation Geotechnics Committee.

The symposium had 4 plenary sessions including 13 keynote presentations and 8 concurrent sessions with 8 invited lectures and 43 presentations. The symposium had more than 180 attendees from 8 countries including China, Russia, USA, Japan, South Korea, Kazakhstan, Canada and Netherland, and also 52 universities or research institutes.

The General Engineer from DOT of Qinghai Province highlighted the importance of technology and research on transportation infrastructures in cold regions in his presentation. Representatives from Beijing Jiaotong University, Southwest Jiaotong University, Siberian State University of Railway Transportation and Far Eastern State Transport University also made presentations.



Photo 1. The opening of Transoilcold2017



Photo 2. Prof Zhaohui Yang awarding a certificate to Prof. Askar Zhussupbekov

Keynote lectures presented were:

1. Prof. Erol Tutumluer, University of Illinois Urbana-Champaign “Cold Region Effects on Road Pavement and Railroad Track Foundations”
2. Prof. Jean Côté, Laval University, “Heat transfer properties of base-course and coarse rock fill materials”
3. Prof. Yang Zhaohui, University of Alaska, Anchorage, “Progresses in Assessment of Physical, Mechanical and Thermal Properties of Thawing Permafrost”
4. Prof. Tatsuya Ishikawa, Hokkaido University, “Coupled analysis for freeze-thaw of soil and application to transport infrastructures in cold regions”
5. Prof. Zhou Guoqing, China University of Mining and Technology, “Frost heave model and frost force prediction of soil”
6. Prof. Ashpiz E.S, Moscow State University of Railway Engineering, “Study on the Moscow Kazan HSR”
7. Prof. Nekhoroshkov V.P., Siberian State University of Railway Transportation, “Perspectives of international transport corridors in cold regions of Russia”

Conference reports

The 3rd International Symposium on Transportation Soil Engineering in Cold Regions (Gui-De, Qinghai, China) (Con't)



Photo 3. Prof. Erol Tutumluer giving a keynote lecture



Photo 4. Dr Fang Jianhong awarding a certificate to Prof. Jean Cote

8. Dr. Zhang Xiong, Missouri University of Science and Technology, "Mitigation of frost heave by removing capillary water using a wicking fabric"
9. Prof. Askar Zhussupbekov, The L.N. Gulimeyov Eurasian National University "Geotechnical Problems on Freezing Soil Ground in Kazakhstan"
10. Dr. Wei Yong Xing, China Railway Second Survey & Design Institute Group CO., LT, "Anti-frost Designing of the subgrade Moscow-Kazan HSR"
11. Prof. Jong-Sub Lee, Korea University, "Nondestructive method for the evaluation of the active layer in a cold region"
12. Prof. Fang Jianhong, Qinghai Research Institute of Transportation, "Introduction of the Huashixia Permafrost observation Lab"
13. Petriaev Andrey, St. Petersburg State Railway University, "Vibration impact of trains on the thawed soil subgrade"

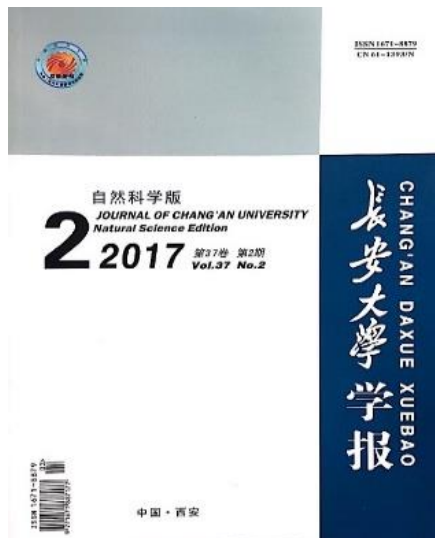
Technical sessions themes:

1. Mechanical behavior of soil and aggregate
2. Diagnosis and Mitigation of Soil Structure Distress in Cold Regions
3. Coupled modeling of mechanical and physical processes
4. Frost heave and thaw weakening of subgrade, ballasted subgrade and base of slab track
5. Field experiments in roadway embankments
6. Dynamic/seismic behavior of transportation infrastructure
7. Soil-structure interaction related to transportation environment and infrastructure
8. Experience in the construction and maintenance of subgrade in cold region

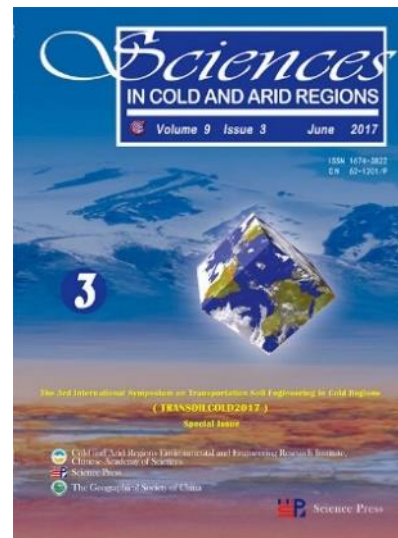
The conference proceedings contain 35 peer-reviewed papers, which have been included in *Journal of Sciences in Cold and Arid Regions* (indexed by ESCI) and *Journal of Chang'an University- Natural Science Edition* (indexed by Scopus).

Conference reports

The 3rd International Symposium on Transportation Soil Engineering in Cold Regions (Gui-De, Qinghai, China) (Con't)



Journal of Chang'an University (Natural Science Edition)



Journal of "Sciences in cold and arid regions"

Following the two days' meeting program, the technical tour to Guide National Geological Park and visiting of Qinghai Research Institute of Transportation in Xining city was held for all conference participants and their accompanying persons. The BBQ and dancing party was held on the second evening.

At the closing ceremony, Prof. Andrey Petriaev and Prof. Yang Zhaohui thanked all the participants and announced that the upcoming "4th International Symposium on Transportation Soil Engineering in Cold Regions" will be held in Saint-Petersburg (Russia) on May 20th-23rd, 2019. Further information regarding the symposium is available via website: <http://conf-geotech.wixsite.com/transoilcold2019>

Prof. Jiankun Liu
Chair of Transoilcold2017