

The 8th ISEV 2018 to be held in Changsha, China on October 27-28, 2018 under the auspices of ISSMGE TC202

Invitation

The 8th International Symposium on Environmental Vibration and Transportation Geodynamics (formerly named as the International Symposium on Environmental Vibration) will be held at the Central South University (CSU) located in Changsha, the capital city of Hunan Province, China on October 27-28, 2018. Hunan Province, being at the crossroads of China's transportation networks, is a logical location for this symposium, and the CSU is in a unique position to host it with its highly ranked School of Civil Engineering, its prominent transportation/railroad centers and programs, and a long-standing reputation of cutting-edge research on railroad engineering and transportation infrastructure.

The first ISEV symposium was initiated by H. Takemiya of Okayama University, Japan and Yunmin Chen of Zhejiang University, China, and held in Zhejiang University, Hangzhou, China in 2003. The subsequent six symposia were successfully convened in Okayama University, Japan (2005), National Taiwan University, Taipei (2007), Beijing Jiaotong University, China (2009), Southwest Jiaotong University, China (2011), Tongji University, China (2013), and Zhejiang University, China (2016), respectively. With the increasing impact over academia and industry, the symposia have attracted much attention from government officials, scientific and research communities, and engineering professionals. Geotechnical challenges associated with dynamic loads on railroad track and road pavements often require scientific and technological breakthroughs for design innovations. To effectively reflect such frontiers, this symposium was renamed as International Symposium on Environmental Vibration and Transportation Geodynamics in 2016 and held under the auspices of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) TC202 Transportation Geotechnics Committee.

The scope of the 8th International Symposium on Environmental Vibration and Transportation Geodynamics 2018 (ISEV 2018) will continue to cover environmental vibrations induced by industrial, civilian and transportation activities, problems associated with dynamic vehicular loading on road foundations, and sustainability challenges of transportation infrastructures and the built environment. The symposium will consist of workshops (including one dedicated to Young Transportation Geotechnics Engineers) and plenary and breakout sessions as well as a technical

exhibition for dissemination of research findings and engineering best practices. The ISEV 2018 event will serve as a platform for academic exploration, experience exchange, and thought inspiration amongst the practitioners engaged in management, design and construction of large-scale civil and transportation infrastructure, researchers, academics and students. Engineers from planning, design construction and management engineering companies, decision makers, transport infrastructures managers and owners, and governmental bodies are especially encouraged to attend this symposium.

Call for Papers

The Symposium will primarily include aspects of transportation geotechnics focusing on railways, roads, and airfields. Topics will include but not limited to the following: (i) dynamic interaction of vehicle and transportation infrastructure (highway and airfield pavements and track structures for rail and transit); (ii) soil-structure dynamic interaction problems in transportation; (iii) wave propagation and traffic induced structural and ground vibrations; (iv) analyses and testing of environmental vibrations; (v) vehicle, machine and human induced vibrations; (vi) monitoring, evaluation and control of traffic induced vibrations; (vii) environmental vibration issues in urban subway and metro lines; (viii) cyclic deformation of soils and transportation foundation settlement; (ix) structural safety and serviceability of railway, metro, roadway and bridges; (x) application of geosynthetics in transportation infrastructure; (xi) advances in materials characterization, laboratory and field evaluation, and full scale testing (ALF, HVS) and monitoring of roads, railways and airfields; and finally, (xii) stabilization/treatment of foundation geomaterials of transportation infrastructure (road, airfield, railway and transit).

As of April 2018, the organizing committee of ISEV 2018 has received nearly 150 abstract submissions from all around the world. **Interested participants who missed the deadline of abstract submission are still invited to submit high-quality full-length papers through the conference website (www.isev2018.cn) or via the conference secretariat (isev2018@yahoo.com) by May 31, 2018 and can expect to be notified of paper acceptances by August 31, 2018.** Full-length papers submitted to the conference and accepted after a rigorous peer-review process will be included in the conference proceedings to be indexed by Web of Science.

In parallel with the ISEV 2018 event, the Elsevier journal of Transportation Geotechnics is

publishing full-length papers submitted under symposium themes in a Special Issue on “Geomaterials and transportation structures under dynamic and environmental loads.” The Transportation Geotechnics journal publishes high quality and original research in all aspects of geotechnics for transportation infrastructure. It is currently indexed by Scopus, Engineering Village, SCImago Journal Rank (SJR), and Emerging Sources Citation Index. Full manuscripts for this Special Issue, should be submitted to the journal no later than **June 3, 2018**, will go through the same rigorous review process as all original submissions to the journal. For further details on this special issue, please go to the Journal’s home page at:

<https://www.journals.elsevier.com/transportation-geotechnics/call-for-papers/special-issue-on-geomaterials-and-transportation-structures>

Any further question can be directed to the Special Issue Guest Editors:

- Professor Daichao Sheng (Daichao.Sheng@newcastle.edu.au);
- Professor Xiaobin Chen (chen_xiaobin@csu.edu.cn); and
- Professor Yuanjie Xiao (yjxiao@csu.edu.cn).

Contact

E-mail: isev2018@yahoo.com (Conference Secretariat)

Website: <http://www.isev2018.cn>

Chair of 8th ISEV 2018: Prof. Erol Tutumluer (tutumlue@illinois.edu), Chair of ISSMGE TC202; Professor and Paul F. Kent Endowed Faculty Scholar and Director of International Programs, Department of Civil & Environmental Engineering, University of Illinois at Urbana-Champaign, USA; also Changjiang Chaired Professor, School of Civil Engineering, Central South University, China.

Co-Chair of 8th ISEV 2018: Prof. Zhiwu Yu, Director, National Engineering Laboratory for High-speed Railway Construction, Central South University, China

Local Organizing Committee of 8th ISEV 2018: Prof. Chunyang Chen (Chair), Vice President of Central South University (CSU); Prof. Youjun Xie (Co-Chair), Dean of School of Civil Engineering, CSU; Prof. Shifan Qiao (Vice Chair), Vice Dean of School of Civil Engineering, CSU; Prof. Xiaobin Chen (Vice Chair), School of Civil Engineering, CSU; Prof. Yuanjie Xiao (Secretary General), School of Civil Engineering, CSU.