

The 9th ISEV 2024 to be held in Sapporo, Japan on March 6-8, 2024 under the auspices of ISSMGE TC202

Invitation

The 9th International Symposium on Environmental Vibration and Transportation Geodynamics (formerly named as “International Symposium on Environmental Vibration”) will be held at the Hokkaido University (HU) located in Sapporo, Japan on March 6-8, 2024. Sapporo is Japan's 5th largest city with a population of 2.0 million, and the prefectural capital of Hokkaido, northern island of Japan. Despite being a large metropolis, a short trip out to the suburbs reveals abundant natural scenery, where outdoor leisure activities such as hiking, canoeing, camping, and winter sport can be enjoyed. Each of the four seasons bring their own delights, and every year many tourists from both home and abroad visit the region, which is famous for being one of Japan's leading producers of delicious foodstuff. The city also ranks number one among the places Japanese people would like to live. Hokkaido University is a leading comprehensive university started out in 1876, and during its long history, the college was promoted to an Imperial University and then flourished followed by being ahead as one of the National University Corporation.

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 seven 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), Zhejiang University, China (2016), and Central South University, China (2018), 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 9th International Symposium on Environmental Vibration and Transportation

Geodynamics 2024 (ISEV 2024) 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 and plenary and breakout sessions as well as a technical exhibition for dissemination of research findings and engineering best practices. The ISEV 2024 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, in liaison with ISSMGE TC101 Laboratory Testing and TC 214 Soft Soils. 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 (road and airfield pavements and track structures for rail and transit, and bridges); (ii) soil-structure dynamic interaction problems in transportation; (iii) wave propagation and monitoring, evaluation and control of traffic induced structural and ground vibrations; (iv) cyclic deformation of soils and transportation foundation settlement; (v) dynamic characteristics of soils and transportation infrastructure; (vi) analyses and testing of environmental vibrations induced by vehicle, machine and human; (vii) environmental vibration issues in urban subway and metro lines; (viii) structural safety and serviceability of transportation infrastructure; (ix) advances in geomaterial characterization, laboratory and field evaluation, and full scale testing; (x) monitoring, evaluation and control of traffic induced vibrations of roads, railways and airfields; (xi) application of geosynthetics in transportation infrastructure; (xii) stabilization/reinforcement of foundation geomaterials of transportation infrastructure; (xiii) climatic change effects on performance of foundation geomaterials in transportation infrastructure (road, airfield, railway and transit).

High-quality papers relevant to Transportation Geotechnics and addressing the above themes are invited. Interested participants should submit abstracts (containing up to 200

words, authors, their affiliations, detail of contact person and the relevant number of specific themes) through the following conference website or via the conference secretariat in accordance with the following schedule.

Important dates

Submission of abstracts	30th, November, 2023
Notification of acceptance of abstracts	15th, December, 2023
Notification of acceptance of presentation in conf	20th, December, 2023
Registration of this conference	31st, December, 2023
Submission of papers in prescribed format	31st, December, 2023
Submission of final camera-ready papers	15th, February, 2024
Notification of final acceptance of papers	29th, February, 2024

All the full-length papers accepted after a rigorous peer-review process will be included in the conference proceedings to be indexed by Web of Science. Please note that each accepted full-length paper requires a registering author, and one author can only register for one paper.

In parallel with the ISEV 2024 event, the Elsevier journal of Transportation Engineering is publishing full-length papers submitted under symposium themes in a Special Issue on “Geomaterials and transportation structures under dynamic and environmental loads (tentative).” “Transportation Engineering” 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 **March 31, 2024**, 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.sciencedirect.com/journal/transportation-engineering>

<https://www.sciencedirect.com/journal/transportation-engineering/about/call-for-papers#geomaterials-and-transportation-structures-under-dynamic-and-environmental-loads>

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

- Professor Tatsuya Ishikawa (t-ishika@eng.hokudai.ac.jp); and
- Professor Erol Tutumluer (tutumlue@illinois.edu); and
- Professor Geert Degrande (geert.degrande@kuleuven.be)

Contact

E-mail: isev2024@eng.hokudai.ac.jp (Conference Secretariat)

Website: <https://www.ec-mice.com/isev2024/>

International Scientific Committee of ISEV 2024:

Chair of ISEV 2024:

Prof. Tatsuya Ishikawa (t-ishika@eng.hokudai.ac.jp), Chair of ISSMGE TC202, and Chair of TC202 Japanese Domestic Committee of JGS; Professor, Faculty of Engineering, Hokkaido University, Japan

Co-Chair of ISEV 2024: Prof. Erol Tutumluer (tutumlue@illinois.edu), ex 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

Local Organizing Committee of ISEV 2024:

Chair:

Prof. Tatsuya Ishikawa (Chair), Faculty of Engineering, Hokkaido University;

Secretary:

Prof. Shintaro Miyamoto (Secretary General), Graduate School of Science and Engineering, National Defense Academy (miyamoto@nda.ac.jp);

Members:

Members of TC202 Japanese Domestic Committee of JGS.