



International Geotechnical Symposium
**Geotechnical Construction of Civil
Engineering & Transport Structures of
the Asian-Pacific Region**

July 04–07, 2018
Yuzhno-Sakhalinsk, Russia



PROCEEDINGS EDITORS:



Sergey Kudryavtsev,
Vice-rector for Science and Research, Far Eastern State Transport
University, Russia



Chungsik Yoo
Vice-President of International Geosynthetics Society, Professor of
Sunkyunkwan University, Suwon, Republic of Korea



Askar Zhussupbekov,
President of Kazakhstan Geotechnical Society, Director of the
Geotechnical Institute at the L.N. Gumilyov Eurasian National
University, Astana, Kazakhstan

ABOUT

The annual International Geotechnical Symposium "Geotechnical Construction of Civil Engineering & Transport Structures of the Asian-Pacific Region" is traditionally an important scientific milestone and meeting place for scientists, researchers, geotechnical engineers, heads of regions, and all parties interested in geotechnical engineering.

The traditional spirit of cooperation fostered by this Symposium contributes to a better understanding of geohazards, a keen and open discussion of problems, the development of new scientific projects and practical solutions.

Such geohazards as earthquake, tsunami, debris flow, floods, avalanches, and other related topics are a hot issue due to the global warming and climate change. At the Symposium, the main attention was given to sharing knowledge on reliable preventive geotechnical measures directed towards damage minimization when the available information is either incomplete or inconsistent.

The organizers are strongly believe that this Symposium has made a great contribution to the development of case studies on the improvement of methods of geotechnical protection against natural disasters, engineering solutions, codes and rules aimed at preventing and reducing the risk of natural disasters before they strike a new blow.

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9. International Technical Committee 216 (ISS(ISSMGE) on MGE) on Frozen Soils
10. International Technical Committee 202 (ISSMGE) on Transportation Geotechnics
11. International Technical Committee 215 (ISSMGE) on Ecological Geotechnics
12. The Asian Technical Committee №3 of Geotechnology for Natural Hazards
13. Russian Chapter of International Geosynthetics Society (IGS) RCIGS
14. The Russian Society for Soil Mechanics, Geotechnics and Foundation Engineering
15. The Kazakhstan Geotechnical Society
16. Technical Committee 305 (ISSMGE) on Geotechnical Infrastructure for Megacities and New Capitals

This Symposium was attended by scientists from 10 countries: Russia, the Republic of Kazakhstan, China, the Republic of Korea, Japan, Indonesia, the Syrian Arab Republic, Great Britain, Germany and Poland.

9 KEY LECTURERS who are the world famous geotechnicians presented special lectures, oral and poster reports at the beginning of each section.

1. Prof. **E.C. Shin** (National University of Incheon, Korea).
Erosion Problems of Shore Line and Counter Measurement by Various Geomaterials
2. Prof. **Askar Zhussupbekov** (President of Kazakhstan Geotechnical Society, Astana).
Investigations of quality of piling foundations by different methods
3. Prof. **Chungsik Yoo** (Sungkyunkwan University, Korea).
Geosynthetics in Tunnel Waterproofing – Fundamental Issues
4. Prof. **Andrey Petriaev** (Saint-Petersburg, Russia).
Using of geosynthetics for roadbed construction on the soft soils and ballast stabilisation
5. Prof. **Igor Sakharov** (Saint-Petersburg, Russia).
Thermal-physical calculations as a basis of design solutions of buildings and structures in the permafrost zone
6. Prof. **Tatsuya Ishikawa** (Hokkaido University, Japan).
Advanced laboratory tests on geomaterials for transportation facilities in cold regions
7. Prof. **Nikolay Kazakov** (Yuzhno-Sakhalinsk, Russia).
Conditions for the formation of seismogenic landslides on the Sakhalin Island
8. Prof. **Jacek Kawalec** (Gliwice, Poland).
Stabilization with geogrids for transport applications
9. Prof. **Kazunori Munehiro** (CERI, Sapporo, Japan).
Variation of Traffic Flow due to Formation of Road Shoulder Snow

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