

## INTRODUCTION

Construction of infrastructure and transport structures in complicated geological conditions and to be safe under natural disasters is a very challenging task and demands cooperating efforts from scientists, designers and contractors. Complicated geotechnical problems are confronted under conditions of high probability of earthquakes, landslides, mud flows, snow avalanches, flooding and other hazardous phenomena such as break of dams, underground mountain row collapsing, a large-scale and intensive oil and gas leakage, industrial and terrorist explosions and other techno/antropogenic impacts. The International Technical Committee 203 of Earthquake Geotechnical Engineering and Associated Problems (TC203); International Technical Committee №216 ISSMGE Frozen soils. The Asian Technical Committee №3 (ATC-3) of Geotechnology for Natural Hazards, The Commission on Earthquake Engineering and Mitigating Industrial & Natural Disasters (CoMIND), Centre on EQE&NDR (Cender), The Russia Society for Soil Mechanics, Geotechnics and Foundation Engineering (ISSMGE) and Kazakhstan Geotechnical society are planning to organize the International Geotechnical Symposium on 04-07 July, 2018 in Yuzhno-Sakhalinsk (Russia) with special technical tours to lake island Sakhalin (Russia).

Experts from the CIS countries (especially from Russia and Kazakhstan), Japan, the USA, Canada, Finland, Belgium, Holland, Poland, Australia and India are expected to take part in the Symposium.

## THE PURPOSE OF THE SYMPOSIUM

The main attention is given to sharing knowledge on reliable preventive geotechnical measures directed towards damage minimization when the available information is either incomplete or inconsistent.

Experts are invited to take part in the Symposium, to present special lectures, oral and poster reports, to exhibit the equipments and devices, to introduce various achievements in the geotechnical engineering field and also to discuss the lessons learned from recent disasters and to share the modern knowledge & technologies implemented into practice for damage mitigation. As a result it is expected to receive papers dealing with the improved practical approaches and engineering solutions, unified new construction, codes and regulations to prevent and reduce the disasters before they strike again.

## EXHIBITION

The exhibition of the scientific and technical achievements, literature and advertising - prospectuses will be organized during the Symposium.

Because the available space for exhibition is limited, early request are kindly appreciated.

## TECHNICAL TOUR

Technical tours are planned to lake island Sakhalin (Russia) after a Symposium. Detailed information will be given in the Bulletin №2

## THEMES

The Symposium themes are geo-monitoring; modeling and prognosis of natural and emergency situations; preventive geotechnical measures for disaster reduction.

1. Use geomaterials for construction and reconstruction transportation objects
2. Geomonitoring, modeling of geodynamic processes, prognoses of natural phenomena:
  - earthquakes, tsunamis, typhoons;
  - landslides, mud flows, volcanic eruptions, floodings;
  - soil liquefaction, scuffing, swelling, freezing of the soil bases.
3. Geotechnical measures for natural disaster reduction of:
  - marine engineering;
  - railways and highways, pipelines;
  - bridges, tunnels, aerodrome;
  - civil engineering structures
4. Geotechnical engineering in special environments:
  - geotechnical engineering in cold climate regions;
  - geotechnical engineering in high-mountainous regions;
  - geotechnical engineering in zones of fluctuation of a sea level.
5. Geoecology of extreme situations:
  - geotechnics of embankments, waste and tailing's storages;
  - geotechnics of industrial, radioactive waste products;
  - pollution of river and sea bottoms;
  - geoecology of oil & gas deposits
  - the use of mineral resources to reduce the negative impact on the environment

## DATE AND LOCATION

The Russia Federation will hold the International Geotechnical Symposium in the City of Yuzhno-Sakhalinsk (Russia) during 04-07 July 2018. Information on registration fees, venue, accommodations and transportation will be given in Bulletin № 2, which will be sent to participants, who have completed and submitted the preliminary registration form (included in this brochure) to the Organizing Committee.

## OFFICIAL LANGUAGE OF THE SYMPOSIUM

Official language of the Symposium is **English and Russian**

## THE IMPORTANT DATES

Deadline for abstracts (under 300 words in English): **31 March 2018**.  
Preliminary registration: **on or before 31 March 2018**.  
Abstract notification: **on or before 31 March 2018**.  
Deadline for papers (*up to 6 pages*): **15 May 2018**.  
Distribution of Bulletin №2: **28 February 2018**.  
Notification on acceptance of papers: **15 May 2018**.  
Registration of participants (preferential): **on or before 01 May 2018**.  
Final date of reception of paper after author's revision: **15 May 2018**.

*Government Sakhalin Region  
Far Eastern Railway  
The Russian Academy of Architecture and  
Construction Sciences  
International Geosyntetical Society  
International Technical Committee №4  
of Earthquake Geotechnical Engineering and  
Associated Problems (TC203)  
International Technical Committee №216 ISSMGE  
Frozen soils  
The Asian Technical Committee №3  
of Geotechnology for Natural Hazards (ATC-3)  
The Commission on Earthquake Engineering  
and Mitigating Industrial & Natural  
Disasters (CoMIND)  
of Intergovernmental Council for Cooperation  
in Construction Activity in the CIS  
The Russia Society for Soil Mechanics  
Geotechnics and Foundation Engineering  
The Kazakhstan Geotechnical Society  
Far Eastern State Transport University*

**International  
Geotechnical Symposium**

**GEOTECHNICAL CONSTRUCTION  
OF CIVIL ENGINEERING &  
TRANSPORT STRUCTURES  
OF THE ASIAN-PACIFIC REGION**

**The bulletin № 1**

*July 04-07, 2018  
Yuzhno-Sakhalinsk, Russia*

## THE INSTRUCTION ON PAPERS PREPARATION

Articles of no more than 6 pages should be prepared in **English and Russian** language strictly according to the instructions. For editing send articles in electronic and hard variants.

Proceedings of the Symposium will be printed in **English or Russian**.

## STEERING COMMITTEE

1. Far Eastern State Transport University;
2. Sakhalin Institute Railway transport – branch of Far Eastern State Transport University;
3. Government Sakhalin Region;
4. Legislative Assembly of the Sakhalin Region;
5. Far Eastern Rail Road;
6. The Russian Academy of Architecture and Construction Sciences;
7. International Geosyntetical Society;
8. International Technical Committee 203 of Earthquake Geotechnical Engineering and Associated Problems;
9. International Technical Committee 216 of Frozen Soils;
10. The Asian Technical Committee №3 of Geotechnical for Natural Hazards;
11. The Russian Society for Soil Mechanics, Geotechnics and Foundation Engineering;
12. The Kazakhstan Geotechnical Society.

## SPONSORS AND THE SUPPORTING ORGANIZATIONS

**Special privileges and assistance in advertising in Russia, Kazakhstan, in other CIS and Asia - pacific countries will be given to the enterprises and the organizations sponsoring the Symposium, and to the enterprises rendering professional support (such as participation in an exhibition, representations not less than three reports / participants, etc.) under a special agreement with the Organizing Committee.**

**Organizations willing to sponsor and/or support the Symposium are invited to contact the Organizing Committee to discuss about the aforesaid mutual benefits!**

## THE ORGANIZING COMMITTEE

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**V.A. Zalozny** – Minister of Construction of Sakhalin Territory, South-Sakhalin, Russia

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## The preliminary registration form (application): convictive request to send in Organizing committee till 31 march 2018

Sex: M/F

Surname: \_\_\_\_\_

Name: \_\_\_\_\_

The organization: \_\_\_\_\_

Position: \_\_\_\_\_

Title:  - Dr.  - Prof.  - Associate Prof.

The address for the correspondence: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

E-mail: \_\_\_\_\_

Tel: \_\_\_\_\_

Fax: \_\_\_\_\_

Mobil phone.: \_\_\_\_\_

- To publish the report;
- To participate in a Symposium;
- To act with the report on section (number of section) \_\_\_\_\_
- To use projective technical equipment: \_\_\_\_\_
- To reserve a hotel;
- To take part in an exhibition;
- To participate in Post Technical Tour 1 (Kamchatka, Russia);
- To participation in Post Technical Tour 2 (Lake Baikal, Russia)