

# INTERNATIONAL SOCIETY FOR SOIL MECHANICS AND GEOTECHNICAL ENGINEERING



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# TC41. Administrative Report

## Geotechnical Infrastructure for Mega Cities and New Capitals

### COMPOSITION

#### Chairman:

Dr. Arsenio Negro Jr. (Brazil)

#### Core Members:

Prof. Askar Zhusupbekov (Kazakhstan)  
Prof. Eun Chul Shin (Korea)  
Prof. P.H.S.W. Kulatilake (United States)  
Prof. V.A. Ilyichev (Russia)  
Dr. Yoshimichi Tsukamoto (Japan)

#### Members:

Prof. Erxiang Song (China)  
Janos Nagy (Hungary)  
Prof. Hirokazu Akagi (Japan)  
Prof. Eugenisz Dembicki (Poland)  
Yong Kwet Yew (SEAGS)  
Eur Ing Arthur William Cook (United Kingdom)  
Kwok Cheung Law (United Kingdom)  
Dr. Michael Lisyuk (Russia)

### TERMS OF REFERENCE

1. To promote the development of the state of the art and practice in geotechnical infrastructure engineering for Mega cities and associated geotechnical problems from technical and socio-economic viewpoints.
2. To exchange knowledge and information on geotechnical issues at during time of construction and reconstruction of Mega cities and new capitals, like Tokyo, Mumbai, Kolkata, São Paulo, Rio de Janeiro, Mexico, New York, Istanbul, Cairo, Astana, Moscow, Brasilia, Berlin etc.
3. To develop or improve design conception and philosophy of Geotechnical infrastructures of construction of highstore buildings and unique objects on new capitals and Mega cities.
4. To promote compilation and archiving of data and information on developing on geotechnical records on Mega cities. As one of the activities toward this direction, it is planned to publish a case history volume accommodating different geotechnical data of good qualities, so that international geotechnical researchers can refer it as bridge for developing geotechnical engineering on problematic soil ground on Mega cities.

### ACTIVITIES COMPLETED

1. First committee meeting in Madrid (25/9/2007) during the 14th European Conference: start up meeting, activities

- planning and fine tuning for a joint meeting with TC38 in 2008.
2. Joint Meeting TC38 and TC41 in Saint Petersburg (16-19 June 2008) organized by Dr. M. B. Lisyuk, with publication of the Proceedings of the International Geotechnical Conference "Development of Urban Areas and Geotechnical Engineering" in paper format, edited by Prof. V. M. Ulitsky (see TC38 report for additional information).
3. TC 41 Workshop Buzios'2008 in Buzios, Rio de Janeiro, Brazil, on the 25th and 26th of August 2008, parallel to sessions of the 14th Brazilian Congress of Geotechnical Engineering, with publication of the Workshop Proceedings in paper format, edited by A. Negro and F. Falconi (ad hoc Secretary) with assistance of Prof. A. L. Nunes and in electronic (CD) format edited by A. Negro (currently being distributed in this venue).
4. TC 41 Seminar in Astana, Kazakhstan, on the 13th of May 2009, following a Conference dedicated to the 45th Anniversary of the Tselinograd Civil Engineering Institute, both organized by Prof. Askar Zhusupbekov, with publication of the Seminar lecture papers of in the Proceedings of the Conference "Modern Architecture, Construction and Transport: Situation and Perspectives of Development". Technical Visit organized after the Seminar to large projects in construction in the city of Astana.

### ACTIVITIES PROPOSED 2009-2013

Co-organization of the International Conference Geotechnical Challenges in Megacities to take place in Moscow in 2010, jointly organized with TC28, TC32 and TC38.

Organization of another International Seminar has been initiated. It refers to the "Twin Cities Geotechnical Seminar" planned to be held late 2011, simultaneously in some different countries, to sum up the geotechnical knowledge of local soils of two competing/associated cities of these countries. Invited contributions shall deal with typical soil properties and behaviour of these soils, and/or typical performance of geotechnical structures in these environments (foundations, excavations, tunnels and other). Prospective countries are China (Hong Kong/Shanghai), Russia (Moscow/Saint Petersburg), Brazil (Rio de Janeiro/Sao Paulo), Chile (Santiago/Valparaiso), USA (Boston/San Francisco), Italy (Rome/Torino), Korea (Seoul/Incheon), Japan (Tokyo/Osaka), Kazakhstan (Astana/Almaty) and others. Seminars will take place firstly in these countries as to involve local communities on the local subjects and secondly on a selected host country, to cross refer the international data gathered. Invited contributions will be written in English and in a second local language for wider local dissemination, pending on Society Board approval. A single electronic proceeding shall be edited. Three countries have already been informally approached so far and have agreed with the proposed format.