# Invitation

The 5th International Symposium on Deformation Characteristics of Geomaterials — IS-Seoul2011 provides a unique forum to discuss the knowledge of the complex deformation response in geomaterials. IS-Seoul 2011 is prepared under the success of previous symposia: IS-Hokkaido 1994, IS-Torino 1999, IS-Lyon 2003, and IS-Atlanta 2008. This symposium focuses on the understanding of the deformation properties of geomaterials before failure, and especially on pointing out the small-strain shear modulus as a fundamental characteristic of geomaterials.

The IS-Seoul 2011 will be an ideal place where you can exchange your ideas with colleagues via the discussions in the session, and the conference papers. The IS-Seoul 2011 will host the first Bishop Lecture sponsored by the International Society of Soil Mechanics and Geotechnical Engineering (TC29) and provide an opportunity to publish peer-reviewed journal papers in "Soils and Foundations". A one-day short course will be held in combination with IS-Seoul 2011 on Tuesday, August 30, 2011.



Fifth International Symposium on Deformation Characteristics of Geomaterials

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Organized by International Society of Soil Mechanics and Geotechnical Engineering (TC29) and Korean Geotechnical Society



Official IS-Seoul 2011 website www.isseoul2011.org Korean Geotechnical Society www.kgshome.or.kr

#### Goals

- Research and developments in advanced laboratory geotechnical testing, including apparatus, techniques, data acquisition and interpretation.
- Applications of advanced laboratory and field testing to integrated site characterization and ground modelling.
- Demonstrating the value of practical engineering applications. This involves reporting collaborative studies on laboratory and field testing, sampling, theoretical and numerical analysis, project engineering and full scale observation.

#### Themes

- I. Experimental Investigations from very small strains to beyond failure
  - 1) Advances in laboratory and field methods
  - 2) Data interpretation and geotechnical imaging
  - 3) Multi-scale problems in geomechanics micro-to-macro strain
  - 4) Advanced sampling
  - 5) Behaviour at geotechnical interfaces

#### II. Behaviour, characterisation and modelling of various geomaterials

- 6) Physical and numerical modeling
- 7) Anisotropy and localization
- 8) Time dependent responses ageing, viscous and cycling effects
- 9) Special characteristics of particular geomaterials: -Unsaturated soils. -Cemented and stabilized soils,
- -Frozen soils including hydrates,
- -Mixtures soils with inclusions

#### III. Practical prediction and interpretation of ground response: field observation and case histories

- 10) Integrated site characterization
- 11) Performance evaluation of geotechnical structures 12) New field methods of ground deformation measurement



# **Abstract Submission & Paper Format**

Prospective authors of technical papers are invited to submit a 300-500 word abstract in English. A significant proportion of each paper must be related to major themes of this conference.

Authors may wish to propose either (i) a "Journal type" paper that, after rigorous review, may be published in a special issue of "Soils and Foundations" or (ii) a conventional "Conference type" paper of up to 8 pages in length. The proceedings of the symposium will include the special issue of "Soils and Foundations," the proceeding vol. 1 and a post conference proceeding vol. 2 covering keynote lectures, panel presentations and written discussions.

### Important Dates

- Abstract Due: January 15, 2010
- Acceptance of Abstract: March 15, 2010
- Full Paper Due (Soils and Foundations): June 15, 2010
- Full Paper Due (Proceedings): January 15, 2011 • Acceptance of Journal Paper (Soils and Foundations):
- January 15, 2011 • Final Paper Due (Proceedings): March 15, 2011

# **Conference Program**

The program will include plenary sessions with keynote lectures by international experts, parallel sessions with general report, oral presentations, and discussions on the relevant theme, and poster sessions. A one-day short course will be held in combination with IS-Seoul 2011 on Tuesday, August 30, 2011. More detailed information will be announced at the conference website.

### Local Organizing Committee

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# Seoul: Soul of Asia

Seoul is the largest city of South Korea. With a population of over 10 million, it is one of the world's largest cities and the second largest mega city in the world. Seoul has been an important settlement for over two thousand years, with its history dating back to 18 BC. The Seoul National Capital Area includes many UNESCO World Heritage Sites. Seoul's historical attractions and the Korean wave phenomenon are making the city a popular tourist destination; it received nearly 5 million tourists in 2007.

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### For more information, visit:

- Official IS-Seoul 2011 website www.isseoul2011.org
- Korean Geotechnical Society www.kgshome.or.kr