

Fifth International Symposium on Deformation Characteristics of Geomaterials (IS-Seoul 2011)

Aug. 31 ~ Sep. 3, Seoul, Korea



Supported by:
TC29, ISSMGE
and Korean Geotechnical Society

Conference Chairman:
Hong-Taek Kim (President of KGS)
General Secretary:
Dong-Soo Kim (Professor, KAIST)

Organized by: ISSMGE and KGS



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First Announcement
and Call for papers

Introduction

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 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.

Goals of the Symposium

- 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

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Important Dates:

Abstract Submission: February, 2010
Abstract Approval Notification: April, 2010
S&F Journal Full Papers Due: July, 2010
Some of submitted papers, after a peer-review, will be published in a special issue of the Soils and Foundations (SCIE Journal).
Draft Papers Due (Proceedings): December, 2010
Final Papers Due (Proceedings): February, 2011