INTRODUCTION

The Fifth International Geotechnical Symposium on Geotechnical Engineering for Disaster Prevention & Reduction, Environmentally Sustainable Development is organized by Korean Geotechnical Society (KGS) under the auspices of ISSMGE. Incheon, a gateway to Northeast Asia with both international port and international airport in its hand, Incheon is located in the mid-west Korean Peninsula abutting the Yellow Sea. A city located 28km from the nation’s capital, Seoul. A total of 2 billion people or 32 percent of world’s population lives within three and half hour distance by flight from Incheon. Historically, this is the first region Korea opened to the outside world and the region has played a leading role in modernizing the country’s politics, diplomacy, military and economy. Incheon is currently a center of international trade and manufacturing and huge mega construction project.

The conference will take place over three days from the 22nd to the 24th May 2013. The Symposium themes is classified major four disciplines such as Geo-monitoring, Geotechnical engineering, Geoenvironmental engineering, Climate change. The conference program consists of the five keynote lectures, four technical themed sessions including theme lecture, a dedicated poster exhibition, two technical visiting. Each of the four sessions will include 5-6 presentation of independent paper on the session theme, which will be discussed and validated by a session chair and co-chair. Delegates will also be invited to discuss the issues raised by the submitted papers and session chair within each technical session. Also we will organize some social programs for delegates and interesting social programs are available for accompanying persons in the forms of local tours.

We sincerely invite you to take part in the IGS-Incheon 2013 and hoping to see you in May 2013 in Incheon, Korea.

Prof. Eun Chul Shin
IGS-Incheon 2013 Organizing Committee Chairman
University of Incheon, Republic of Korea.
CONFERENCE OBJECTIVES

The 5th International Geotechnical Symposium on Geotechnical Engineering for Disaster Prevention and Reduction, Environmentally Sustainable Development with the aim of bringing together scientists, engineers, practitioners, and researchers to exchange knowledge and discuss the disaster prevention and reduction in the field of geoenvironmental and geotechnical engineering.

CONFERENCE THEMES

The main theme for the Incheon symposium is Innovative Geotechnical Technology for Disaster Prevention, Reduction and Sustainable Environmental Engineering in terms of reference of Technical Committee ATC-3

1. Geo-Monitoring
   Advances of In-situ Testing Technologies in Geotechnical Engineering
   Shear Wave Velocity Measurements using Surface Wave Methods
   Advances in Sensing/Monitoring Techniques during Geoconstruction

2. Geotechnical Engineering in Special Environment
   Advances in Geotechnical Earthquake Engineering
   Soil Improvement Solutions for Seismic Hazards
   Numerical Modeling of Liquefaction in Dams and Levees
   Recent Advances in Foundation Engineering
   Stability of Manmade and Natural Slopes and Embankments
   Research Advances and Case Histories of Deep Excavations
   Underground Space for Resilient Infrastructure

3. Geo-Environmental Technology
   Recent Advances in Geoenvironmental Site Characterization
   Hydraulic Properties and Hydrology of Waste Containment Systems
   Geoenvironmental Case Histories: Challenges and Innovation
   Reuse of Waste and Recycled Materials
   Advances in Heavy Metal Soil Treatment
   Geotechnics of Sediment Remediation
   Landfill Settlement

4. Climate Change
   Effects on Water by Global Warming
   Water Resource Management and Policy
   Flood, Drought, and Desertification
   Polar and Frozen Soil Engineering
   Estuary, Dams, and Coastal Erosion.
CALL FOR PAPERS

Papers on Geotechnical Engineering for Disaster Prevention and Reduction, Environmentally Sustainable Development are invited. Abstracts of proposed papers are requested by 31 August, 2012. Each abstract should be in English and contain about 200-250 words, with a title not exceeding 80 characters and the name and the affiliation of the author(s). Abstracts can be submitted by email (preferred), mail or fax. We encourage authors to send their abstracts and manuscripts as soon as possible to help us in making the proceedings available at the conference.

SUBMISSION OF ABSTRACT

Abstracts and manuscripts should be sent to:
Prof. Eun Chul Shin
IGS-Incheon 2013 Organizing Committee Chair
5th International Geotechnical Symposium on Geotechnical Engineering for Disaster Prevention and Reduction, Environmentally Sustainable Development
Address:
Department of Civil and Environmental Engineering, University of Incheon, 12-1, Songdo-Dong, Yeonsu-Gu, Incheon, Republic of Korea, 406-840
Phone: 82-32-835-8460, Fax: 82-32-835-0775, Email: ecshin@incheon.ac.kr

IMPORTANT DATES

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submission of abstracts</td>
<td>31st of August, 2012</td>
</tr>
<tr>
<td>Notification of acceptance of abstracts</td>
<td>30th of September, 2012</td>
</tr>
<tr>
<td>Submission of papers in prescribed format</td>
<td>31st of December, 2012</td>
</tr>
<tr>
<td>Notification of final acceptance of paper</td>
<td>28th of February, 2013</td>
</tr>
</tbody>
</table>

ORGANIZING COMMITTEE

Chairman:
Shin, Eun Chul (University of Incheon, Korea)

Co-Chairman:
Jang, Yeon Soo (President of Korean Geotechnical Society, Korea)
Ahn, Sang Ro (Korea Infrastructure Safety & Technology Corporation, Korea)
Conference Secretariat:
Oh, Young In (Korea Rural Community & Agriculture Corporation, Korea)
Kang, Jeong Ku (University of Incheon, Korea)
Choi, Changho (Korea Institute of Construction Technology, Korea)

Treasurer:
Park, Jeong Jun (University of Incheon, Korea)

Scientific and Program:
Kim, Duhwan (Samsung C&T Engineering & Construction, Korea)
Ju, Jae Woo (Sunchon National University, Korea)

General Affairs:
Choi, Byoung Gil (University of Incheon, Korea)
Choi, Chan Yong (Korea Railroad Research Institute, Korea)
Kim, Gihan (OCI Company Ltd., Korea)
Ahn, Min Hye (AM E&C, Korea)
Kim, Jong In (Jeongbang Engr., Korea)
Cheong, Sam Yong (Isan Corporation, Korea)
Lee, Yong Soo (Korea Institute of Construction Technology, Korea)

INTERNATIONAL ADVISORY COMMITTEE

Chairman:
Askar Zhussupbekov (L. N. Gumilyov Eurasian National University, Kazakhstan)

Co-Chairman:
Ikuo Towhata (University of Tokyo, Japan)
Kim, Dong Soo (KAIST, Korea)

Member:
K. Ishihara (Past-president of ISSMGE, Chuo University, Japan)
A. Hasegawa (Hachinohe Institute of Technology, Japan)
Z. Maocai (Harbin, China)
T. Kokusho (Chuo University, Japan)
T. Kozlowski (Kielce University of Technology, Poland)
Mamoru Mimura (Kyoto University, Japan)
M. Okamura (Ehime, Japan)
V. N. Paramonov (St. Petersburg State Transport University, Russia)
Igor Sakharov (GRF, Georeconstruction, Russia)
S. Yasuda (Tokyo Denki University, Japan)
INTERNATIONAL PROMOTION COMMITTEE

Chairman:
Braja M. Das (California State University, USA)

Co-Chairman:
Yoo, Chungsik (Sungkyunkwan University, Korea)
Tadatsugu Tanaka (University of Tokyo, Japan)
Ahn, Kwangkuk (Chungbuk National University, Korea)

Member:
Cavit Atalar (Near East University, North Cyprus)
Mikhail Bogdanov (Director of Russian Geological Society, Russia)
Hemanta Hazarika (Kyushu University, Japan)
Yoshinori Iwasaki (Geo-Research Institute, Osaka, Japan)
Bigman M. Hutapea (President of Indonesian Geotechnical Society, Indonesia)
Janendranth Mandal (India Institute of Technology, India)
Askar Khasanov (President of Uzbekistan Geotechnical Society, Uzbekistan)
Sergey A. Kudryavtsev (Far Eastern State Transport University, Russia)
P. K. Pradhan (University College of Engineering, Burla Sambalpur, India)
Chittaranjan Patra (National Institute of Technology, India)
K. S. Rao (President of Indian Geotechnical Society, India)
Abbas Soroush (President of Iranian Geotechnical Society, Iran)
H. Toyota (Nagaoka, Japan)
Nguyen Truong Tien (President of Vietnam Geotechnical Society, Vietnam)
Hideo Tsuboi (Fudo Tetra Corporation, Japan)

TECHNICAL PROGRAMS

<table>
<thead>
<tr>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration (9:00~10:00)</td>
<td>Keynote lecture IV (10:00~10:50)</td>
<td>Technical Visit (9:00~12:00)</td>
</tr>
<tr>
<td>Opening Ceremony (10:00~10:30)</td>
<td>Coffee Break (10:50~11:00)</td>
<td>I. Incheon Metro Subway Construction Site</td>
</tr>
<tr>
<td>Keynote lecture I (10:30~11:20)</td>
<td>Session 3 (11:00~12:20)</td>
<td>II. Metropolitan Waste Landfill Site</td>
</tr>
<tr>
<td>Coffee Break (11:20~11:30)</td>
<td>Lunch Time (12:20~13:30)</td>
<td>Lunch Time (12:00~13:00)</td>
</tr>
<tr>
<td>Keynote lecture II (11:30~12:20)</td>
<td>Keynote lecture V (13:30~14:20)</td>
<td>Seoul Metropolitan City Tour (13:00~18:00)</td>
</tr>
<tr>
<td>Lunch Time (12:20~13:30)</td>
<td>Session 4 (14:20~16:30)</td>
<td>(13:00~18:00)</td>
</tr>
<tr>
<td>Keynote lecture III (13:30~14:20)</td>
<td>Closing Ceremony (16:30~17:00)</td>
<td></td>
</tr>
<tr>
<td>Session 1 (14:20~15:40)</td>
<td>Banquet (19:00~21:00)</td>
<td></td>
</tr>
<tr>
<td>Coffee Break (15:40~16:00)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Session 2 (16:00~17:00)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CONFERENCE VENUE

The conference will be held at the International Conference Hall at the University of Incheon, Incheon, Republic of Korea.

CONFERENCE LANGUAGE

The official conference language will be English and papers shall be written and presented in English.

REGISTRATION FEE

<table>
<thead>
<tr>
<th>Category</th>
<th>By 28 February</th>
<th>After 28 February</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration</td>
<td>400 USD</td>
<td>450 USD</td>
</tr>
<tr>
<td>ISSMGE Member</td>
<td>350 USD</td>
<td>400 USD</td>
</tr>
<tr>
<td>Student</td>
<td>200 USD</td>
<td>250 USD</td>
</tr>
</tbody>
</table>

TECHNICAL SITE VISIT

A half day technical tour will be arranged on Friday, May 24, 2013 to visit Metropolitan landfill and Incheon Metro Subway Construction Site.
A half day tour will be arranged on Friday, May 24, 2013 to visit Seoul Metropolitan Area.
**ACCOMMODATION**

Sheraton Hotel : 6-9, Songdo Dong, Yeonsu Gu, Incheon  
http://www.sheratonincheon.com

Songdo Park Hotel : 93-1, Songdo Dong, Yeonsu Gu, Incheon  

Songdo Bridge Hotel : 10-2, Songdo Dong, Yeonsu Gu, Incheon  
http://www.songdobridgehotel.com/

Songdo Ramada Hotel : 812, Dongchun Dong, Yeonsu Gu, Incheon  
http://www.ramada-songdo.co.kr/

Guest House at the University of Incheon  
http://www.incheon.ac.kr/eng/

**CORRESPONDING ADDRESS**

Prof. Eun Chul Shin  
IGS-Incheon 2013 Organizing Committee,  
Department of Civil and Environmental Engineering, University of Incheon  
12-1, Songdo-Dong, Yeonsu-Gu, Incheon, Republic of Korea, 406-840  
Phone : 82-32-835-8460, Fax : 82-32-835-0775, Email : ecshin@incheon.ac.kr