

ACCOMMODATION

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

Songdo Park Hotel : 93-1, Songdo Dong, Yeonsu Gu, Incheon
<http://www.songdoparkhotel.com/common/main.asp>

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

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The Celebration of Hosting City for Green Climate Fund in Incheon

IGS-Incheon 2013

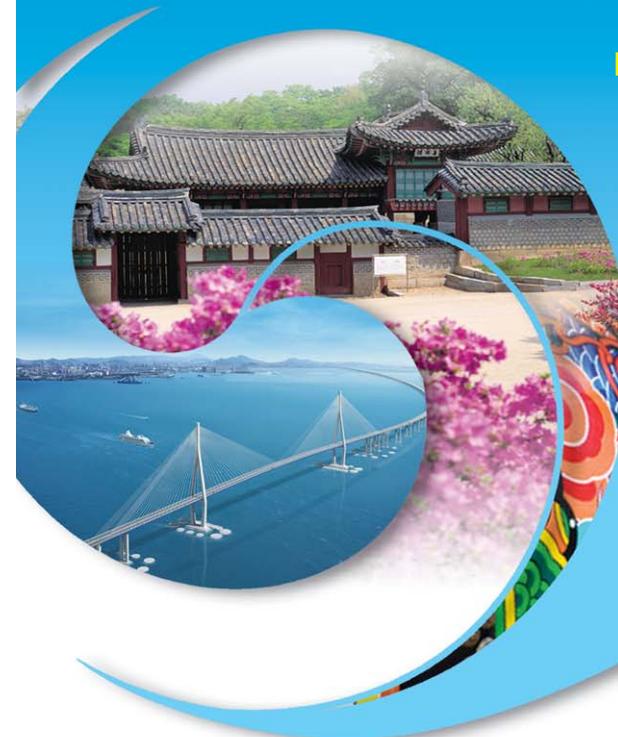
The 5th INTERNATIONAL GEOTECHNICAL SYMPOSIUM

GEOTECHNICAL ENGINEERING FOR DISASTER
 PREVENTION & REDUCTION, ENVIRONMENTALLY
 SUSTAINABLE DEVELOPMENT

IGS5, INCHEON, May 22-24, 2013

Organized by
 Korean Geotechnical Society and
 University of Incheon

With support of
 ISSMGE
 Incheon Green Environment Center
 Incheon Metropolitan City



Organized by



Korean Geotechnical Society



University of Incheon

With the support of



International Society for Soil Mechanics
 and Geotechnical Engineering



Incheon Green Environment Center



Incheon Metropolitan City



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 7 theme lectures, 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.

ORGANIZATION

Korean Geotechnical Society

Korean Geotechnical Society(KGS) has served public benefits with its purpose to advance geotechnical engineering in academic and technical sense since its foundation in 1986. As of August, 2011, the total number of membership comes to 8,000 individual members; KGS has made its rapid growth in Korea to be recognized as the most active and biggest society in the geotechnical engineering field and keeps growing up to be an international-sized society. KGS has 19 affiliated technical committees, research groups, and 6 special regional committees and actively participates in academic and technical co-operation amongst members by providing biannual conferences in spring and fall, and a variety of workshops and seminars by the technical committees.

University of Incheon

The University of Incheon is situated in the harbour city of Incheon, 30km west of Seoul. The number of undergraduate and graduate students is approximately 12,000 and 1,000, respectively. The University of Incheon does have 11 colleges and 7 graduate schools and 3 continuing educational colleges.

According to its unique geographical and regional position, University of Incheon has striven to develop its specialization in the areas of international commerce, Chinese studies, information communication, biological engineering, and international logistics. Through the opening of the new Songdo campus in Songdo Free Economic Zone, its institutional merger, and recent corporatization, we are striving rigorously to make University of Incheon an institution of educational cooperation and progress?one which is cultivating creative, outstanding, and globally competitive scholars, as well as a reputation of international renown.

Since its foundation in 1979, it was reborn as city university in 1994, and the relocation to Songdo Free Economic Zone will bring it momentum into a world-class national university. The new Songdo campus will become a landmark in Northeast Asia.





SUPPORTING ORGANIZATION

International Society for Soil Mechanics and Geotechnical Engineering

The International Society had its origins in the First International Conference on Soil Mechanics and Foundation Engineering held in Harvard in 1936. ISSMGE has experienced a rapid growth in membership, the 32 Member Societies and 2,500 individual members in 1957 increasing to 50/11,500 in 1977 and 71/16,500 in 1998. The growth in membership has been matched by increasing activities, largely through the establishment of many active Technical Committees and Task Forces. The International Society for soil Mechanics and Geotechnical Engineering has a long standing tradition of organizing conferences to provide forums for discussion on a wide range of topics of direct relevance to the geotechnical engineering profession. A large number of conferences are organized under the auspices of the ISSMGE, covering topics such as deep foundations, earthquake engineering, and underground construction.

Incheon Green Environment Center

The Incheon Green Environment Center was founded in the year of 2000 to conduct research in preventing environmental pollution. The center provides information about regional environment issues to the public in Incheon Metropolitan City through education Home Doctor's program, training and exhibitions. Collaborative research is currently ongoing among professionals from universities, research institutes and industry on areas related to environmental policy, investigation and technology. More information can be obtained from the IGEC.

Incheon Metropolitan City

A gateway to Northeast Asia that holds both an international port and an international airport, Incheon is located in the mid-west of the Korean Peninsula, abutting the Yellow Sea. Located 28 km from the nation's capital, Seoul. Incheon was changed to a metropolitan city on January 1, 1995 after promotion to a city under direct government supervision on July 1, 1981. The current administrative unit covers a total area of 1,029.35km², or 1% of South Korea. Incheon is rapidly developing into the third largest city in Korea, following Seoul and Busan, the first and the second largest, respectively.

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.
- Disaster and Prevention by Global Warming



CALL FOR PAPERS

Papers on Geotechnical Engineering for Disaster Prevention and Reduction, Environmentally Sustainable Development are invited. Abstracts of proposed papers are requested by January 31, 2013. 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 e-mail(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, 406-772

Phone : 82-32-835-8466, Fax : 82-32-835-0775, Email : ecshin@incheon.ac.kr

IMPORTANT DATES

Submission of abstracts	31st of January, 2013
Submission of papers in prescribed format	28th of February, 2013
Notification of final acceptance of paper	31st of March, 2013

ORGANIZING COMMITTEE

Chairman :

Shin, Eun Chul (University of Incheon, Korea)

Co-Chairman :

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Choi, Byoung Gil (University of Incheon, Korea)

Conference Secretariat :

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Kang, Jeong Ku (Incheon Green Environment Center, Korea)

Lee, Jong Sub(Korea University, Korea)

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Aykut Senol(Istanbul Technical University, Turkey)

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T. Kozłowski (Kielce University of Technology, Poland)

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Igor Sakharov (GRF, Georeconstruction, Russia)

S.Yasuda (Tokyo Denki University, Japan)

Namir K.S. Al Souudi(University of Technology Baghdad, Iraq)



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A. Ghosh (Central Building Research Institute, India)

Sanjay Kumar Shukla (Edith Cowan University, Australia)

Hemanta Hazarika (Kyushu University, Japan)

Yoshinori Iwasaki (Geo-Research Institute, Osaka, Japan)

Sanjeev Kumar (Southern Illinois University, USA)

P. K. Pradhan (University College of Engineering, Burla Sambalpur, India)

Janendranth Mandal (India Institute of Technology, India)

Chittaranjan Patra (National Institute of Technology, India)

K. S. Rao (Past President of Indian Geotechnical Society, India)

H. Toyota (Nagaoka, Japan)

Hideo Tsuboi (Fudo Tetra Corporation, Japan)

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Choi, Gye Woon (University of Incheon, Korea)

Cho, Gye Chun (KAIST, Korea)

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Lee, Seung Ho (Sangji University, Korea)

Kwon, Hyeok Ki (Korea Infrastructure Safety & Technology Co., Ltd., Korea)

Song, Byung Woong (Dasan Consultant Co., Ltd., Korea)

Hirochika Hayashi (Public Works Research Institute, Japan)

Youn, Heejung (Hongik University, Korea)

Lee, Cheol Ju (Kangwon National University, Korea)

Yune, Chan Young (Gangeung Wonju National University, Korea)

Lee, Chang Seob (Korea Specialty Contractor Financial Corporative, Korea)

Lee, Dong Hyun (C.T.C. Engr. Co., Ltd., Korea)

Lee, Gil Ho (Gyeong In Infrastructure Safety & Technology Co., Ltd.)

Abdullah I. Al-Mhaidib (King Saud University, Saudi Arabia)

Takeshi Katsumi (Kyoto University, Japan)

Hideo Komine (Ibaraki University, Japan)

Khing K. Hock (Sunway Juarasama Sdn Bhd, Singapore)

Lee, Kyu Jin (Incheon Int'l Airport Corp., Korea)

Jung, Min Su (National Disaster Management Institute, Korea)

Syed M. Ali Jawaid (M. M. M. Engineering College, Gorakhpur (U.P.), India)

Yasuyuki Nabeshima (Akashi National College of Technology, Japan)

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Kazuya Yasuhara (Ibaraki University, Japan)

Greg You (GSE Lining Technology Co., Ltd., Thailand)

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Shin, Yun Sup (GS Engineering & Construction, Korea)

Kim, Woon Hyung (Dasan Consultant Co., Ltd., Korea)

Kwon, Young Cheul (Korea Cyber University, Korea)

Baek, Yong (Korea Institute of Construction Technology, Korea)

KEYNOTE LECTURES

1. Braja M. Das (Dean Emeritus, California State University, Sacramento, USA)
2. Vyacheslav Ilchev (President of Russia Geotechnical Society, Russia)
3. Lee, Seung Ho (Korean Geotechnical Society, Korea)
4. Ikuo Towhata(University of Tokyo, Japan)
5. Tadatsugu Tanaka (President of Japanese Society of Dam Engineering, Japan)

THEME LECTURE

1. Jang, Yeon Soo (President of Korean Geotechnical Society, Korea)
2. Askar Zhussupbekov (Eurasian National University, Kazakhstan)
3. Samuel Uche Ejezie(Vice President, Africa)
4. T. Kokusho (Chuo University, Japan)
5. Vijay K. Puri(Southern Illinois University, USA)
6. Hemanta Hazarika (Kyushu University, Japan)
7. Kim, Dong Soo (KAIST, Korea)

TECHNICAL PROGRAMS

	Wednesday	Thursday	Friday
Technical Program (May 22 ~ May 24)	Registration (9:00~10:00)	Keynote lecture IV (10:00~10:50)	Technical Visit (9:00~12:00) I . Incheon Metro Subway Construction Site II . Metropolitan Waste Landfill Site Lunch Time(12:00~13:00) Seoul Metropolitan City Tour (13:00~18:00)
	Opening Ceremony (10:00~10:30)		
	Keynote Lecture I (10:30~11:20)	Coffee Break (10:50~11:00)	
	Coffee Break (11:20~11:30)	Session 3 (11:00~12:20) Theme Lecture VI Theme Lecture V	
	Keynote Lecture II (11:30~12:20)	Lunch Time (12:20~13:30)	
	Lunch Time (12:20~13:30)	Keynote lecture V (13:30~14:10)	
	Keynote Lecture III (13:30~14:20)	Session 4 (14:20~17:00) Theme Lecture VI Theme Lecture VII	
	Session 1 (14:20~15:40) Theme Lecture I	Closing Ceremony (17:00~17:30)	
	Coffee Break (15:40~16:00)	Banquet (19:00~21:00)	
	Session 2 (16:00~17:00) Theme Lecture II Theme Lecture III		

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.

CONFERENCE REGISTRATION FEE

Registration	400 USD
ISSMGE Member	350 USD
Student	200 USD

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.

SPOUSE PROGRAM

The spouse tour program will be arranged during the conference period.

