

Bulletin 2

Bangladesh Geotechnical Conference 2010
4-5 November, 2010
Dhaka, Bangladesh

Natural Hazards and Countermeasures in Geotechnical Engineering

Announcement of Conference and Call for Papers



Organized by

Bangladesh Society for Geotechnical Engineering

with support of

International Society for Soil Mechanics and Geotechnical Engineering



CONFERENCE THEMES

- >> Scouring
- >> Landslide
- >> Embankment and Dam
- >> Problematic soils
- >> River/Bank erosion
- >> Geo-Environmental problems
- >> Earthquake and Liquefaction
- >> Landfill
- >> Ground improvement
- >> Earthen structures

CONFERENCE DATE AND VENUE

The conference will be held on 4-5 November (Thursday- Friday), 2010. There will be two days of Technical Sessions (Thursday- Friday) and one day of Sight-seeing Tour (Wednesday, 3rd November)

Venue--Dhaka Sheraton Hotel, 2 Minto Road, Dhaka-1000, Bangladesh

ABSTRACT

>> The abstract should be within 250 words and should state the purpose, methodology, results and conclusion to be described in the final full length paper. Abstract should also contain the list of author (s), their affiliation (s) and e-mail address (es). The abstract should be sent via e-mail to bgc2010dhaka@gmail.com. The acceptance of the abstract will be notified by e-mail.

REVISED FINAL DEADLINE

- | | |
|-----------------------------|----------------------|
| >> Submission of Abstract | : September 15, 2010 |
| >> Acceptance of Abstract | : September 20, 2010 |
| >> Submission of Full Paper | : September 30, 2010 |
| >> Acceptance of Full paper | : October 15, 2010 |

SUBMISSION

The abstracts and full-length paper should be submitted in MS-word. The full paper should also be sent in pdf format. The official language of the conference will be English. The abstract and full length paper will be reviewed before acceptance.

OFFICIAL LANGUAGE

>> The official language of the conference will be English.

CONFERENCE PROGRAMME SCHEDULE

Day -1 : Nov 04, 2010 (Thursday)

Inaugural – 9.30- 10:30

Tea – 10.30 – 11:00

Plenary session 1 - 11:00 to 13:00

Lunch : 13:00 to 14:00

Technical Session 1 & 2 - 14:00 to 15:30

Tea – 15:30 to 15:45

Plenary session 2 - 15:45 – 17:45

Conference Banquet – 19:00

Day -2 : Nov 05, 2010 (Friday)

Plenary session 3 - 9:00 to 11:00

Tea – 11:00 to 11:15

Technical Session 3 & 4 : 11:15 – 12:30

Lunch : 12:30 to 14:00

Technical Session 5 & 6 - 14:00 to 15:30

Tea – 15:30 to 15:45

Technical Session 7 & 8 - 15:45 – 17:15

TOUR PROGRAMME (OPTIONAL)

Date : Nov 03 (Wednesday)

>> Time: 9:00 am – 5 :00 pm

>> In and around Dhaka city

>> Separate registration for Tour program will be required which can be done at the venue.

REGISTRATION FEE

Bangladeshi Delegate

- >> BSGE Members--BDT 2,000
- >> Other Participants--BDT 2,500

Foreign Delegate

- >> SAARC Countries--USD 200
- >> Companions from SAARC Countries--USD 150
- >> Other Countries--USD 350
- >> Companions from other countries-- USD 250

>> Registration fee includes registration kit, conference proceedings, lunch and refreshments and banquet.

>> Registration Fee for companions includes the same except registration kit and conference proceedings.

>> Participants must register by 31st August 2010 in order to have their papers included in the proceedings.

Delegates may pay the registration fee by

>> Bank Draft in favour of--

Bangladesh Society for Geotechnical Engineering (BSGE)
Sonali Bank, BUET Branch, Dhaka

>> Swift Transfer to--

Account no: 34061597
Sonali Bank, BUET Branch, Dhaka
SWIFT Code: BSONBDDH

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- Prof. Kenji Ishihara (Japan)
- Prof. Pedro S. Seco e Pinto (Portugal)
- Prof. Zuyu Chen (China)
- Prof. A M M Safiullah (Bangladesh)
- Prof. M R Madhav (India)
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- Prof. Wei F. Lee (Taiwan)
- Prof. Georg Heerten (Germany)
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Mr. Md. Abdul Awal

KEYNOTE SPEAKER

- Prof. Jean-Louis Briaud (USA)
- Prof. Pedro S. Sêco e Pinto (Portugal)
- Prof. Askar Zhussupbekov (Kazakhstan)
- Prof. A M M Safiullah (Bangladesh)
- Prof. Fumio Tatsuoka (Japan)
- Prof. Wei F. Lee (Taiwan)
- Prof. Chu Jian (Singapore)
- Dr. C.F. Leung (Singapore)
- Prof. Misko Cubrinovski (New Zealand)
- Prof. Masyhur Irsyam (Indonesia)

REGISTRATION INFORMATION

Name :

Affiliations :

Address :

.....

Country :

Telephone :

Fax :

e-mail :

- I Plan to attend the conference
- I plan to present a paper

Tentative title of the paper

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e-mail or fax the information to
Honorary General Secretary, BSGE
bgc2010dhaka@gmail.com
or bsgc.hgs@gmail.com
Fax : 880-2-9665639

CONTACT

Prof. Sarwar J M Yasin
Honorary General Secretary, BSGE
and Organizing Secretary
Bangladesh Geotechnical Conference 2010
Address : Professor, Dept. of Civil Engg.
BUET, Dhaka 1000
e-mail : bsgc.hgs@gmail.com

KEYNOTE SPEAKER AND ADVISORY COMMITTEE MEMBER

Jean-Louis BRIAUD, PhD, PE, D.GE
President of ISSMGE (2009-2013)
Professor and Holder of the Buchanan Chair
Zachry Department of Civil Engineering
Texas A&M University, USA



Keynote Abstract

Bridge Scour and Levee Overtopping

This lecture addresses two topics related to soil erosion by flowing water: bridge scour and levee erosion by overtopping. In a first part, some basic concepts of soil erosion are described and numerical simulation movies are used to better communicate the phenomenon; results of laboratory tests to measure the erosion resistance of soils are presented and soil erosion categories are proposed. In a second part, the results of many years of research to develop reliable prediction of scour depth at bridges is presented including design guidelines for pier scour, contraction scour, and abutment scour. Comparison between measured and predicted scour depth give the engineer the reliability of the method. Case histories are presented to illustrate the results of the calculations. In a third part, erosion of levees by overtopping is discussed including fundamental processes and prediction calculations. The overtopping of levees during the 2005 Hurricane Katrina and during the 2008 Mississippi flood is presented and analyzed. Design charts are proposed as well as best practice techniques.

KEYNOTE SPEAKER AND ADVISORY COMMITTEE MEMBER

Pedro Simão Sêco e PINTO, PhD
President of ISSMGE (2005-2009)
Professor of Geotechnical Engineering
University of Coimbra, Portugal
Specialist Engineer in Geotechnique
National Laboratory of Civil Engg. (LNEC)



Keynote Abstract

Lessons Learned from Two Landslides Case Histories

In this paper a introduction to hazards is presented. Two case histories are addressed. The first case history describes the Castro Daire landslide. The geological and geotechnical characteristics, the excavations issues and the slope stability are presented. The slope failure and the slope stability analysis by different methodologies are discussed. The second case history deals with the stabilization works of Vila Franca school landslide in Portugal. The lessons arising from technical and non technical factors related with slides are analysed, and the anchored retaining walls to stabilize the slopes are described. The field and laboratory tests are referred, as well as the geological-geotechnical model. For both case histories the design analyses of slopes and retaining walls were based in Eurocode 7. Some results of the global stability analyses are presented. The seismic design was based in Eurocode 8. The results of anchorages tests to calibrate the design values are presented.

ADVISORY COMMITTEE MEMBER

Kenji ISHIHARA, PhD
President of ISSMGE (1997-2001)
Formerly Professor,
Department of Civil Engineering,
University of Tokyo
Tokyo University of Science
and Chuo University
Japan



KEYNOTE SPEAKER AND ADVISORY COMMITTEE MEMBER

Fumio TATSUOKA, PhD
President, International Geosynthetics Society (2006-2010)
Professor, Department of Civil Engineering
Tokyo University of Science, Japan
Formerly Professor, Department of Civil Engineering,
University of Tokyo



Keynote Abstract

Recent practice and research of geosynthetic-reinforced earth structures in Japan

The construction of permanent geosynthetic-reinforced soil (GRS) retaining walls (RWs) with a staged-constructed full-height rigid facing for railways, including high-speed train lines, and also highways started about twenty years ago in Japan. The total length of this type of GRS RW is now more than 120 km, replacing traditional cantilever reinforced concrete RWs and steel-reinforced soil Rws. Although most of this new type GRS RWs that have been constructed are new walls, many were also constructed replacing traditional type RWs and embankments that collapsed during recent earthquakes, heavy rainfalls and wave actions during a typhoon. Several case histories typical of the newly constructed GRS RWs and those constructed to replace collapsed traditional type RWs and embankments are presented. By taking advantages of this technology, a number of bridge abutments with geosynthetic-reinforced backfill were constructed. The latest version, called the GRS integral bridge, comprises a continuous girder integrated to a pair of full-height rigid RC facing, not using shoes, with the backfill reinforced with geosynthetic reinforcement layers firmly connected to the back of the facing. A number of advantages in cost, constructability, maintenance, and performance of GRS integral bridges over conventional type bridges comprising a single or multiple girder(s) supported by a pair of independent abutments via fixed and movable shoes with unreinforced backfill are described. Results from static and dynamic model tests that show advantages of the GRS integral bridge are presented.

ADVISORY COMMITTEE MEMBER

Prof. M.R.MADHAV
Professor Emeritus, JNT University
Advisor/ Consultant, Central Road Research Institute, New Delhi
Formerly Professor of Civil Engineering, IIT, Kanpur, India
ISSMGE Vice-President for Asia (2005 – 2009)



KEYNOTE SPEAKER AND ADVISORY COMMITTEE MEMBER

Chu JIAN
Vice-President, Geotechnical Society of Singapore
Director of the Centre for Infrastructure Systems
School of Civil and Environmental Engineering,
Nanyang Technological University, Singapore



Keynote Abstract

Methods for construction of coastal protection structures

In recent years, global warming has caused the sea level to rise. The river or coastal related disasters such as tsunamis, cyclone and flood have also become higher in frequency and stronger in intensity. As one of the counter measures, some of the existing coastal protection structures need to be rehabilitated and new, stronger or taller coastal structures have to be built. How to construct coastal protection structures in a quicker and yet cost-effective way becomes a challenge to geotechnical engineers. In this presentation, various coastal protection structures will be introduced using examples. A classification system for coastal protection structures will be given. Several new construction methods for coastal protection structures will be presented. These include the use of geo-tubes, geo-bags, geo-mattresses, geo-containers, precast concrete segments, suction caissons, assembly structures, and grouted, jetted precast concrete sheetpiles. The applications of some of these new techniques will be illustrated using case histories. The advantages of the new construction methods will also be discussed.

ADVISORY COMMITTEE MEMBER

Georg HEERTEN, Dr.-Ing.
CEO of the German geosynthetics company NAUE
GmbH & Co. KG
Vice Chairman of the German IGS Chapter (since 1994)
Vice Chairman of the German Geotechnical Society (since 2002)
Honorary professor, Technical University in Aix-la-Chapelle,
Germany (since 2004)

