

# ISSMGE Bulletin

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International Society for Soil Mechanics and Geotechnical Engineering

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[www.issmge.org](http://www.issmge.org)

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## MESSAGE FROM TC302

### FORENSIC GEOTECHNICAL ENGINEERING.

*Chair; Dr. V.V.S. RAO*

Forensic analysis in geotechnical engineering involves scientific and legalistic investigations and deductions to detect the causes as well as the process of distress in a structure, which are attributed to geotechnical origin. Such a critical analysis will provide answers to "what went wrong, when, where, why, how, and by whom". It also gives strong inputs to improve future designs and also assists in identifying the qualifications and expertise required for the staff. As forensic analysis is basically a back analysis based on failure observations, the normally adopted standard procedures of testing, analysis, design and construction are not adequate for the forensic analysis in majority of cases. The forensic geotechnical engineer (who is different than the expert witness) should be able to justify his conclusions in a court of law. Hence he has to be not only fully knowledgeable in his field of specialization including his communication skills, but should also be familiar with legal procedures.



Dr. V.V.S. Rao, Chair of TC302

### ISSMGE launches new website & GeoWorld, a network platform for geoprofessionals

The International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and its President Professor Jean-Louis Briaud are pleased to announce the launch of the new ISSMGE website ([www.issmge.org](http://www.issmge.org)), developed by Geoengineer.org ([www.geoengineer.org](http://www.geoengineer.org)), the International Information Center for Geoprofessionals under the auspices of the Board-level ISSMGE Innovation and Development Committee (IDC) chaired by Professor Dimitrios Zekkos. The new web site has an improved structure and layout and has also improved capabilities to host technical content. In addition, it already makes available at no cost over 8 webinars by leaders of the profession worldwide. ISSMGE, in co-operation with Geoengineer.org, also launched last year GeoWorld ([www.mygeoworld.info](http://www.mygeoworld.info)). GeoWorld is a free online platform that supports professional networking among geoprofessionals. All geoprofessionals can join the more than 2,200 members of GeoWorld at no cost, and with minimum time and effort create a profile and expand their network! For more details, refer to more details in page 10 of this Bulletin.

## MESSAGE FROM TC302 (continued)

### Dr. V.V.S.RAO, Chair of TC302

With the above points in view, ISSMGE, under the presidentship of Prof. Pedro Pinto during his term 2005 - 2009 constituted a technical committee styled as TC 40 under the Chairmanship of Dr. V.V.S.Rao, India. This TC was extended as TC 302: FGE for one more term 2009-2013 by the present president, Prof. J. Briaud. Accordingly, the terms of reference comprised of:-

Prepare a book either as a manual or as an introductory guide on the forensic procedures to be followed in failure investigations pertaining to geotechnical engineering. The book shall contain procedures for systematic scrutiny of every stage of planning, investigations (both field and laboratory), evaluation and selection of design parameters, analysis and design, construction techniques adopted, detailed documentation regarding quality control, problems encountered including meteorological conditions, etc.

To achieve the above objective, the following task forces with their respective Leaders are constituted.

- TF 1: Collection of data - P.W. Day
- TF 2: Characterization of distress. - David Starr
- TF 3: Development of failure hypothesis. - J. Mecsi
- TF 4: Diagnostic tests. - W.F. Lee
- TF 5: Back analysis - Popescu
- TF 6: Observation method of performance evaluation - Y. Iwasaki
- TF 7: Reliability aspects. - GLS Babu
- TF 8: Legal Issues - D.S. Saxena
- TF 9: Case Histories. - Hwang.
- TF 10: Technical Susceptibilities - Rob Jessep

During the past four years, the committee has organized three international seminars: September 24-25, 2010 in Budapest (organized by Prof. Mecsi), December 14-15, 2010 in Mumbai (organized by Prof. Babu) and, July 14-15, 2011 in Osaka (organized by Prof. Iwasaki). Apart from these seminars, separate sessions on FGE were also conducted during ARCs in Hong Kong and I Kolkatta.



TC 302 executives with Prof. Askar, Dr. Suzanne Lacasse and Prof. Bolton during the Bengaluru seminar

## MESSAGE FROM TC302 (continued)

**Dr. V.V.S.RAO, Chair of TC302**

A fourth international seminar was organized in Bengaluru, India, during 10 - 12 January, 2013. Experts from fifteen countries presented special lectures. Prof. Askar Zhussupbekov, Vice President, Asian region of ISSMGE inaugurated the seminar and Dr. Suzanne Lacasse gave the main key note lecture. In all forty one papers were presented in twelve sessions. Over 140 delegates attended the seminar and made it a grand success.

The following is the list of theme lectures, invited lectures and contributed papers presented during the conference.

### INAUGURAL LECTURE

- 1) Forensic Geotechnical Engineering - Theory and Practice by Dr. Suzanne Lacasse-Høeg.

### THEME LECTURES

- 1) Performance-based design in geotechnical engineering by Prof. Malcom Bolton.
- 2) Learning from the past: The ancient Egyptians and geotechnical engineering by Dr. Sheriff Wissa.
- 3) Forensic Geotechnics - some case studies from Singapore by Prof. C. F. Leung.
- 4) Legal aspects regarding management of soil risk by Prof. Katzenbach.
- 5) Caisson failure induced by wave action by Prof. Eduardo Alonso.
- 6) Forensics of pile foundations subjected to earthquake induced by Prof. M. Gopal.
- 7) Stability of landfill capping systems on steep slopes - lessons learned from practice by Prof. Georg Heerten.
- 8) Forensic geotechnics of failing petroleum tanks by Prof. William Van Impe.
- 9) The role of uncertainty in forensic geotechnical engineering by Prof. Robert Gilbert.
- 10) Attempts to protect personal houses from seismic liquefaction by Prof. Ikuo Towhata.
- 11) Analysing Ground - Beyond a Mechanistic Approach by Prof. M. R. Madhav.

### INVITED LECTURES

- 1) The Reasons of Extremely Unusual Occurrence of Full Destroying of a House in the Residential District Besoba in Soil Ground Conditions of Karaganda City by Dr. A. Zhussupbekov.
- 2) Distress in Reinforced soil walls- An appraisal by Prof. G. V. Rao.

### TASK FORCES

- 1) Role of collection of data in Forensic analysis by Dr. P. W. Day.
- 2) Characterisation of failure at a large landslide in SE Queensland by geological mapping, laboratory testing, instrumentation and monitoring by Mr. David Starr.
- 3) Special material properties and circumstances on the serious Geotechnical Disasters by Prof. J. Mecsi.
- 4) Failure Analysis of A Highway Dip Slope Slide by Prof. Wei F. Lee.
- 5) Effects of Vibration by Demolition to nearby Machine Shop Floor - Wave Measurement for Dynamic Property of Ground by Prof. Yoshi Iwasaki.
- 6) Reliability analysis in Forensic Geotechnical Engineering by Prof. G L Sivakumar Babu.
- 7) Forensic Engineering, Legal Considerations, and Property Damage Assessment from Construction Vibrations by Dr. Dharendra S. Saxena.
- 8) Technical shortcomings causing geotechnical failures by Mr. Rob Jessep.
- 9) Guidelines for Forensic Geotechnical Engineering by Dr. V. V. S. Rao.

### CONTRIBUTED PAPERS

- 1) Analyses of Unexpected Settlements of Large Oil Tanks in the Rotterdam Port by J. L. Bijmagne, and H. J. Luger.

## MESSAGE FROM TC302 (continued)

### Dr. V.V.S.RAO, Chair of TC302

- 2) Investigation of Soil Saturation and Compaction Homogeneity in the failed soil nailed wall and fill using Ground Penetrating Radar by P. Anbazhagan, P. S. Naresh Dixit, Deepu Chandran and A. Murali Krishna
- 3) Forensic Geotechnical Investigations for Floor Failure of an Industrial Building near Bhopal, India - A Case Study by S.B. Suri, Nakul Dev, Thomas Joseph & Jancy Mathew.
- 4) Deep Excavations and Managing the Risk of Damages in the Proximate Vicinity by R. Katzenbach, C. Bergmann, F. Clauss and M. Seip.
- 5) Recent Approaches of Back Analysis for Addressing Geotechnical Issues by Dauji Saha, Ranjan Kumar, Kapilesh Bhargava and Sekhar Basu.
- 6) Post-liquefaction data collection and analyses for earthquakes in New Zealand by Md. Mizanur Rahman and T. G. Sitharam.
- 7) Penetration of Mudmats for Fixed Offshore Platforms - Case Studies by Rupam Mahanta and R. K. Ghanekar.
- 8) Need for Forensic Engineering in Earthquake Geotechnics - Case Studies from 2001 Gujarat Earthquake by S. K. Prasad, I. Towhata, G. P. Chandradhara, K. V. Vijayendra, and T. Honda
- 9) Forensic Analysis of Failure of Retaining Wall by G. L. Sivakumar Babu, Raja J, B. M. Basha and Amit Srivastava.
- 10) Performance a Full Raft Foundation Constructed on Soft Clay by I.V. Anirudhan and S.V. Ramaswamy.
- 11) Design and Construction of Diaphragm Walls Embedded in Rock for a Metro project by N. Kumar Pitchumani, Makarand G. Khare, and K. V. Sridhanya

There was a very good interaction between the speakers and delegates throughout the three days of the seminar. A lively banquet along with a grand folk dance program added glamour to the seminar.



Prof. Askar inaugurating the seminar by ringing a bell.  
 From the left, Prof. GLS Babu (Secretary, TC302) Prof. G.N. Gandhi. (President, IGS),  
 Prof. Askar (Vice President, ISSMGE), and Dr. V.V.S. Rao (Chair, TC302)

## MESSAGE FROM TC302 (continued)

*Dr. V.V.S.RAO, Chair of TC302*

### KEY SPEAKERS:



Dr. SUZANNE LACASSE



Prof. MALCOM BOLTON



Dr. SHERIFF WISSA

## ISSMGE President 1185 Days Report

### Professor J-L. Briaud

**Distinguished Colleagues, Dear Friends,**

This is my thirty ninth progress report after 1185 days as your President. Note that previous reports are on the ISSMGE web site (<http://www.issmge.org/>) under “The Society” then under “The President” if you need them. In this report, I will talk to you about our upcoming webinar, the unveiling of our new web site, and an update on your present.

**Webinar.** The topic of the next webinar is “**An Overview of Geosynthetics and Their Major Applications**”. It will be presented by Robert Koerner (USA). **Professor Koerner** is a word expert on this topic and has written a well known book entitled “Designing with Geosynthetics”. The date and time are **22January2013 at 3:00 pm, GMT Time (London, GMT)**. The session number is 952 224 700, no password necessary. To register, go to

<https://issmge.webex.com/issmge/k2/j.php?ED=20116827&UID=112331847&HMAC=44ffeee0697fbd15a76a43d455496a9cbe5f1557&RT=MiMyMQ%3D%3D&FM=1>

If you have problems, please contact my assistant Theresa Taeger at [ttaeger@civilmail.tamu.edu](mailto:ttaeger@civilmail.tamu.edu). Remember not to use your phone but rather your computer by voice over IP when listening to the webinar as explained in my 1155 days progress report.

**New ISSMGE Web Site.** I am very pleased to announce the successful launch of your new ISSMGE website <http://www.issmge.org>. The new website represents a huge amount of work by many people over the last two years. It germinated in our think tank: The Innovation and Development Committee lead by Dimitris Zekkos. The ebullient **Professor Zekkos** and his committee did it again and we now have a modern web site with great potential. It was paid for by your dues and developed by Geoengineer.org (<http://www.geoengineer.org>), based on ISSMGE and Geoengineer.org long term partnership agreement. Geoengineer.org will also be responsible for its maintenance and continued improvement in the future. Here are some key features of the new website:

1. New improved responsive layout and design; the new design and colors resemble the previous website so as to provide some continuity, but its layout is automatically adjusted to different screens and computers. The website also has an improved structure and navigation system.
2. The website now makes available ALL previous ISSMGE webinars as recordings of the slides and presentations by the speakers that you can listen to at your leisure. This is an outstanding collection of lectures that are available to all of you at no cost and we must thank all the outstanding speakers for their generosity. Just visit the website under “resources” and access the webinars.
3. A slider and a block of announcements have been added on the home page to better promote and highlight key announcements of ISSMGE. Please check the website regularly to view updates of the slider and new announcements.
4. An improved database of upcoming geotechnical conferences has been organized.
5. The new website also includes a list of Member Societies and addresses
6. The website better integrates our professional networking platform (GeoWorld) as well as the International Journal of Geoengineering Case Histories with ISSMGE.
7. The website includes a dynamic search button (top right). This button will search only the ISSMGE website and facilitates your search for relevant ISSMGE information.

I am very excited about this new development. Please give us your feedback including things that need to be fixed. Additional improvements and features/content are planned for the website in the near future and I will be announcing these to you in future progress reports.

**Your present.** I have received many requests for the tie or scarf. I am sending them to you at the address you gave me but it will take a bit of time before you receive it as I process all the requests. So please be a bit patient but if you do not receive it by mid February2013, do let me know.

## ISSMGE President 1215 Days Report

### Distinguished Colleagues, Dear Friends,

This is my fortieth progress report after 1215 days as your President. Note that previous reports are on the ISSMGE web site at

<http://www.issmge.org/en/the-society/the-president/progress-reports>

if you need them. In this report, I will talk to you about our upcoming **webinar**, our **last two awards**, the **elections for Vice President and President**, and the **McClelland Honor Lecture videotape**.

Let me start by thanking you for all the good wishes that I received for the new year in the form of cards and emails. There were so many of them that I could not respond individually but I can assure you that each time they were very much appreciated and convinced me that we truly have a strong professional family. Helping each other is really the essence of life. By the way I hope that most of you who asked for one have now received your tie or scarf present. If not let me know.

**Free Webinar.** Our next free webinar will be on the topic of **Ground Improvement** and will be a joint presentation by **Serge Varaksin** (France) and **Noel Huybrechts** (Belgium). Serge and Noel are leaders of the TC on Ground Improvement. They have contributed to many publications on the topic including the State of the Art presentation in Alexandria at the 2009 ICSMGE. The webinar will be on **7March2013 at 3pm UTC**. Don't miss this webinar related to a topic with growing importance for our future. For further information check our web site <http://www.issmge.org/en/conferences-and-events/upcoming-webinars> or contact my assistant, Theresa Taeger, at [ttaeger@civilmail.tamu.edu](mailto:ttaeger@civilmail.tamu.edu). Remember that all previous free webinars have been recorded and are available to you at

<http://www.issmge.org/en/resources/recorded-webinars>

**Awards:** There are two awards left for which you need to send your nominations: they are the **Outstanding Public Relations Award** and the **Outstanding Young Geotechnical Engineer Award** (different from the ISSMGE Young Members Awards). Please go to this site to find more details: <http://www.issmge.org/en/awards/outstanding-achievement-awards>. In essence, the public relations award is to recognize someone or an organization which has done excellent work in promoting our profession. Ideally this award should go to someone outside our profession possibly to a news media person. The young geotechnical engineer award goes to one individual or to a team of young individuals who have made outstanding contributions to practice or research in geotechnical engineering. The **deadline for nominations is 28Feb2013**. All nominations must come through a member society.

**Next President, next Vice Presidents:** The nomination and election process for the next leaders of ISSMGE is alive and well. We now know that there are 3 official nominees for President. In alphabetical order they are **Gabriel Auvinet** (Mexico), **Roger Frank** (France), and **Askar Zhussupbekov** (Kazakhstan). You still have time to declare your candidacy as President if you wish as the closing date is 15Mar2013. On the Vice President side, the deadline for nominations is passed and some are running unopposed. This is the case of Europe (**Antonio Gens** - Spain), North America (**Paul Mayne** - USA), South America (**Jarbas Milititsky** - Brazil), Australasia (**Mark Jaksa** - Australia). However there will be elections for Africa where **Fatma Baligh** (Egypt) and **Carlos Quadros** (Mozambique) are candidates and for Asia where **Charles Ng** (Hong Kong), **Eun Chul Shin** (Korea), and **Ikuo Towhata** (Japan) are candidates. The member societies in Asia and Africa have received a letter from the Secretary General requiring that they **cast their vote before 28Feb2013**. I feel comfortable that the next group of leaders of our society will be stellar.

**McClelland Honor Lecture:** Please note that the First ISSMGE McClelland Lecture given by **Don Murff** in London on 12Sept2012 was videotaped and you can watch the videotape at <http://www.issmge.org/en/resources/videotaped-honor-lectures>. You can also find the power point slides at <http://www.issmge.org/en/technical-committees/applications/154-offshore-geotechnics>.

We owe this to the work of the offshore geotechnics committee and its chair **Philippe Jeanjean** who raised the funds to make this happen. I would like to encourage all TCs that have honor lectures to videotape the lectures and share it with us to upload on the web site. This is now possible thanks to our new web site architecture and the work of **Dimitris Zekkos** of IDC. Unfortunately ISSMGE cannot pay for the videotaping.

## ISSMGE President 1245 Days Report

### Distinguished Colleagues, Dear Friends,

This is my forty first progress report after 1245 days as your President. Note that previous reports are on the ISSMGE web site at

<http://www.issmge.org/en/the-society/the-president/progress-reports> if you need them.

In this report, I will talk to you about the **Paris ICSMGE conference**, the upcoming **webinar**, the **last two awards**, the results of the **VP elections**, the **new rules for the ISSMGE Foundation**, and a **special gift from the Japanese Geotechnical Society**.

**Paris ICSMGE conference: registration open.** The general web site for the Paris conference is <http://www.issmge2013.org> and you can now register on line at

<https://formulaire-lepublicsystemepco.imadiff.net/MECASOL/IP/register.php>.

I really hope to see all of you at the conference. It is going to be a wonderful conference with activities from 31 Aug to 6 Sept 2013. The Young Engineers Conference starts on Saturday and Sunday followed by two days of plenary sessions for the main conference on Monday and Tuesday with the Terzaghi Oration and many of the honor lectures from the Technical Committees. The ISSMGE awards will be given on Monday at lunch time. The gala dinner will be on Tuesday night. The concurrent sessions start on Wednesday morning until Thursday evening and Friday are the technical visits. Many other wonderful events are planned for you. See you all in Paris. This is the time where our professional family gets together, once every 4 years: DO NOT MISS IT!

**Webinars.** We just had another very successful webinar on **Ground Improvement** presented by our colleagues **Serge Varaksin** (France) and **Noel Huybrechts** (Belgium). If you missed it, you can simply access the ISSMGE web site at

<http://www.issmge.org/en/resources/recorded-webinars>

and listen to the recording. Our next free webinar will be on the topic of **Geophysics** and will be presented by **Sebastiano Foti** (Italy) in May2013. For further information check our web site

<http://www.issmge.org/en/conferences-and-events/upcoming-webinars>

or contact my assistant, Theresa Taeger, at [ttaeger@civilmail.tamu.edu](mailto:ttaeger@civilmail.tamu.edu).

**Awards.** As you know we have dramatically increased the number of awards offered by ISSMGE. Two awards are yet to be decided: the **Outstanding Young Geotechnical Engineers Award** and the **Public Relations Award**. The deadline for these two awards has been extended to the end of March 2013. The nominations must come through the member societies. Please see the guidelines at

<http://www.issmge.org/en/awards/outstanding-achievement-awards>

and take the time to nominate a worthy colleague.

**Vice Presidential Election results.** The results of the elections for the 6 regional VPs are in and I wish to thank all those who competed for these very important positions. Your dedication to your profession is very much appreciated. The 2013-2017 Regional Vice Presidents will be

- Africa - Fatma Baligh
- Asia - Ikuo Towhata
- Australasia - Mark Jaksa
- Europe - Antonio Gens
- North America - Paul Mayne
- South America - Jarbas Milititsky

As you may know, we have three candidates for the presidential election which will be decided in Paris at the ISSMGE Council Meeting on 1Sept2013. The deadline for nominations is 14Mar2013 so you still have 4 days if you wish to be a candidate. The three candidates are in alphabetical order:

- Gabriel Auvinet (Mexico)
- Roger Frank (France)

## ISSMGE President 1245 Days Report (Continued)

- Askar Zhussupbekov (Kazakhstan)

**ISSMGE Foundation.** We are receiving a good number of requests for grants to attend the Paris conference and we **need more donations** to sustain the level of funding that we wish to achieve. So please consider contributing to the Foundation. **If you wish to make a gift to the Foundation, simply contact me.** Note that in order to properly handle the increase number of requests we have modified the rules for applications. Please check the rules before you apply for an ISSMGE Foundation grant at <http://www.issmge.org/en/issmge-foundation>.

**Present from the Japanese Geotechnical Society.** JGS has sent me the attached notice of Free Online Access for all of you to the Special Issue of the Soils and Foundations Journal on the topic of **Geotechnical Aspects of the 2011 Off the Pacific Coast of Tohoku Earthquake**, Vol. 52, Issue No.5, 2012. Thank you so much to JGS for your generosity in sharing with the world this extremely important issue of your Journal.

Best wishes,  
Jean-Louis Briaud  
President of ISSMGE

From the Editor:

To benefit the voting decision, the July Issue of ISSMGE Bulletin will present articles on 3 presidential candidates and 3 candidate cities of ICSMGE in 2017.

## ISSMGE launches new website & GeoWorld, a network platform for geoprofessionals

*Prof. Jean-Louis Briaud,  
President of ISSMGE*

The International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and its President Professor Jean-Louis Briaud are pleased to announce the launch of the new ISSMGE website ([www.issmge.org](http://www.issmge.org)). The new website comes from a request of President Briaud and the ISSMGE Board and has been formulated by the Innovation and Development Committee under the leadership of Dr. Dimitris Zekkos. The new web site has an improved structure and layout and has also improved capabilities to host technical content. In addition, it already makes available at no cost over 8 webinars by leaders of the profession worldwide. It also includes an upgraded database of geotechnical conference and events. More resources (videos, webinars and an electronic lexicon) will become available in the near future. The new ISSMGE.org was developed as part of a new long-term partnership between the ISSMGE organization and Geoengineer.org ([www.geoengineer.org](http://www.geoengineer.org)), an International Information Center for Geoprosessionals who share the mission of serving the geoprofession at a global scale. Geoengineer.org will be responsible for maintenance and future upgrades of the ISSMGE website.



### *Snapshot of the new ISSMGE website*

ISSMGE, in co-operation with Geoengineer.org, also launched last year GeoWorld ([www.mygeoworld.info](http://www.mygeoworld.info)). GeoWorld is a free online platform that supports professional networking among geoprofessionals. GeoWorld revolutionizes the way information is generated and circulated in the geotechnical engineering field and features applications specifically suited for geotechnical engineering professionals, such as a geographic database of all geoprofessionals, professional profile pages (with information on work experience and academic history), a publications database, as well as databases of videos, photos and blogs. The Technical Committees of the ISSMGE also have profile pages in GeoWorld that will be used to announce committee activities.

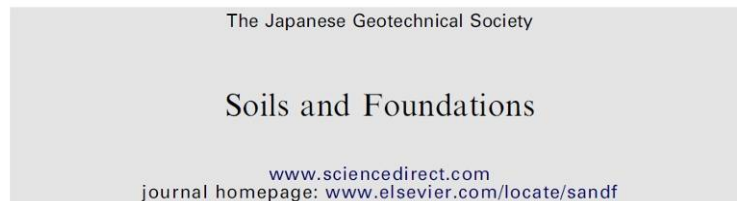
### *Dimitrios Zekkos, Chair of the IDC, Managing Director of Geoengineer.org*

All geoprofessionals can join the more than 2,200 members of GeoWorld at no cost, and with minimum time and effort create a profile and expand their network. Other groups such as alumni, student groups, working groups and committees can also use the platform for collaboration and outreach. New tools, such as a job opportunities section, forums, and a news center are also being developed and will be released in 2013.



## ***Soils and Foundations Journal***

### ***–Free Online Access to the Special Issue***



Japanese Geotechnical Society

Free online access to the Special Issue on Geotechnical Aspects of the 2011 Off the Pacific Coast of Tohoku Earthquake: Volume 52, Number 5, 2012

This special issue collects important articles, including a wide spectrum of case histories, on the disaster due to the Great East Japan Earthquake from geotechnical aspects. We would like to invite you to access all the articles from this Special Issue for free via the following link:

<http://www.sciencedirect.com/science/journal/00380806/52/5>

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Akira Murakami

Professor of Kyoto University

Editor, Soils and Foundations

Some photographs in this special issue



Photo 1 Non-uniformity of dredged and filled soil



Photo 2 Damage in Urayasu City the next day

## Soils and Foundations Journal (Continued)



Photo 3 Damage in Chiba City on the third day after the earthquake

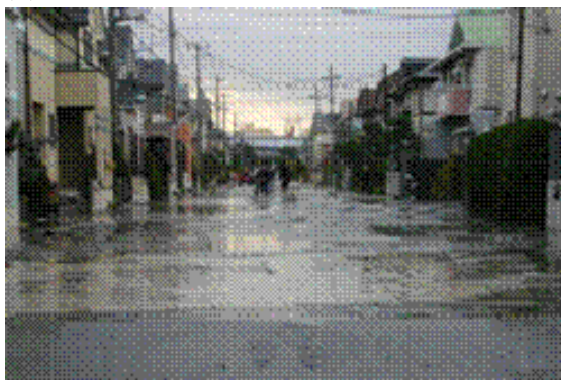
(1) at 15:16 PM



(2) at 15:19 PM



(3) at 15:21 PM



(4) at 15:22 PM



Photo 4 Sequential photos taken in Maihama of Urayasu City (taken by Mr. K. Ogawa)

Note: the main earthquake occurred at 14:46 PM on March 11th, 2011, followed by an aftershock at 15:15PM with  $M=7.6$

## Soils and Foundations Journal (Continued)



Photo 5 Heaving of a footway at Takasu in Urayasu City



Photo 6 Heaving of a footway at Takahama in Ichikawa City

## Soils and Foundations Journal (Continued)



Photo 7 Thick deposit of ejected sand observed in Urayasu City



Photo 8 Large differential settlement in Shin-Urayasu Station

## Soils and Foundations Journal (Continued)



Photo 9 Successful ground improvement in the Tatsumi area in a man-made island of Tokyo

(1) Outside of the house



(2) Inside of the house

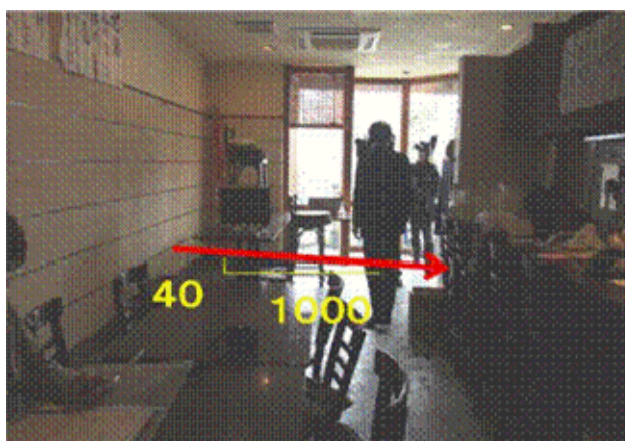


Photo 10 Severe settlement and tilting of a house in Urayasu City

## Soils and Foundations Journal (Continued)



Photo 11 Tilted river wall in Funabashi City

## NEWS FROM MEMBER SOCIETY

### Indian Geotechnical Society (IGS), New Delhi

Indian Geotechnical Society (IGS), New Delhi, India is an active member society of ISSMGE. Recently an election for the position of new office bearers of IGS was conducted in November 2012. Based on the number of votes received by various candidates, the elected committee to serve IGS during the two years term of 2013-2014 is announced as follows,

#### NEW IGS OFFICE BEARERS (2013-2014)

President: Prof. G.N. Gandhi  
Immediate Past President: Prof. K.S. Rao  
Executive Committee Members:  
Prof. G.L. Sivakumar Babu  
Mr. Kaushik Bandyopadhyay  
Prof. A. Boominathan  
Dr. R. Chitra  
Prof. Deepankar Choudhury  
Mr. H.H. Desai  
Dr. Abhay Gupta  
Dr. Anil Joseph  
Dr. A. Murali Krishna  
Mr. R.K. Kulkarni  
Dr. H.K. Mahiyar  
Dr. Satyendra Mittal  
Prof. S.K. Prasad  
Prof. G.V.R. Prasada Raju  
Prof. H.N. Ramesh  
Prof. A. Srirama Rao  
Prof. C.N.V. Satyanarayana Reddy  
Prof. N.K. Samadhiya  
Prof. D.L. Shah  
Mr. Ravikiran Vaidya  
Mr. Amitava Ghosh (Institutional Member, CBRI)  
Dr. J.T. Shahu (Institutional Member, IIT Delhi)  
Mr. M.D. Nair (Associate Member, AIMIL)  
Honorary Secretary: Mr. Jai Bhagwan  
Executive Secretary: Mr. K.K. Govindan

IGS holds a prestigious annual conference known as Indian Geotechnical Conference or IGC every year through one of its 33 Chapters spread across the country. IGC-2012 was held during December 13-15, 2012 at Indian Institute of Technology Delhi, New Delhi, India under the Chairmanship of Prof. K. G. Sharma. A record number of around 700 delegates attended the Conference. Prof. Askar Zussupbekov, Vice President, Asian Region, ISSMGE participated in the Conference besides other invited Speakers from Japan, Korea, Hong Kong, Kazakhstan and Italy. The Conference also hosts every year an Annual Lecture of Indian Geotechnical Society (IGS) which is delivered by an eminent speaker on his/her topic of expertise. The 34th IGS Annual Lecture during IGC-2012 was delivered by Prof. B. R. Srinivasa Murthy, an eminent Emeritus Professor of Indian Institute of Science Bangalore, on the topic "Case Studies in Geotechnical Engineering Constructions". The venue for next year's IGC - 2013 is announced and it will be held during December 22-24, 2013 at Indian Institute of Technology Roorkee, India and IGC-2013 will be organized jointly by IIT Roorkee and CBRI, Roorkee under the banner of IGS Roorkee Chapter. For submission of abstracts/papers and for other relevant information about IGC-2013, a website [www.igc2013roorkee.in](http://www.igc2013roorkee.in) is already launched.

## NEWS FROM MEMBER SOCIETY (Continued)



Newly elected President, Prof. G. N. Gandhi addressing audience during Inauguration of IGC - 2012



Release of Proceedings and Souvenir of IGC - 2012 by dignitaries on dais during Inaugural Ceremony



34th IGS Annual Lecture by Prof. B. R. Srinivasa Murthy at IGC - 2012



Organizing team of IGC - 2012 during Valedictory

As pre and post IGC-2012 events, this conference IGC-2012 witnessed two such events. One day workshop as pre-conference event was held on December 12, 2012 on "Indo-Korean Workshop on Geotechnology for Urban Development (IK-GUD)", which came out as an activity between Indian Geotechnical Society (IGS) and Korean Geotechnical Society (KGS) through the MOU signed between these two societies in 2011. IGS has already signed similar agreements with National Geotechnical Societies of USA and Japan. One-day post-conference workshop was held on December 17, 2012 on "UKIERI International Workshop on Seismic Requalification of Geotechnical Structures". This UKIERI sponsored event was jointly organized by Universities of Surrey & Bristol, UK; IIT Guwahati and IIT Delhi, India in collaboration with partners from IIT Bombay and NDMA, India.

Fourth International Seminar on Forensic Geotechnical Engineering (4ISFGE - 2013) was held at Bengaluru (former name Bangalore), India during January 10-12, 2013 which was organized by ISSMGE Technical Committee TC 302 - Forensic Geotechnical Engineering, in association with IGS. On behalf of TC 302 - Forensic Geotechnical Engineering, the Chairman, Dr. V. V. S. Rao; Vice Chairman, Prof. M. R. Madhav and Secretary, Prof. G. L. Sivakumar Babu were the organizers of this event. Eminent speakers from various parts of the world assembled and shared their experiences. To name a few, Dr. Suzanne Lacasse from Norway, Prof. Malcom Bolton from UK, Prof. Rolf Katzenbach from Germany, Prof. Ikuo Towhata from Japan, Prof. Askar Zhussupbekov from Kazakhstan, Prof. C. F. Leung from Singapore, Prof. Gopal Madabhushi from UK, Prof. Yoshi Yawasaki from Japan, Dr. D. S. Saxena from USA, Prof. William van Impe from Belgium, Prof. Eduardo Alonso from Spain delivered lectures during 4ISFGE 2013, in addition to Indian expert speakers.

## NEWS FROM MEMBER SOCIETY (Continued)



Delegates of 4ISFGE-2013 at Bengaluru, India



Alexander von Humboldt Fellows from India with German delegates at 4ISFGE-2013, Bengaluru, India



Newly elected VP Asia, Prof. Ikuo Towhata in discussion with TC 212 Secretary, Prof. Deepankar Choudhury during lunch session of 4ISFGE-2013

A large number of about thirty delegates from India had attended the International Conference on Ground Improvement and Ground Control (ICGI-2012), which was held at University of Wollongong, NSW, Australia during October 30 to November 2, 2012. Among various invited speakers, Prof. M. R. Madhav and Prof. Deepankar Choudhury from India delivered invited lectures during ICGI-2012.

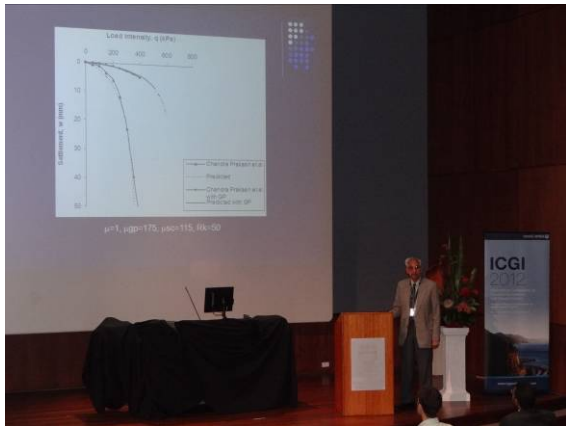


Indian delegates at ICGI - 2012, Wollongong, Australia

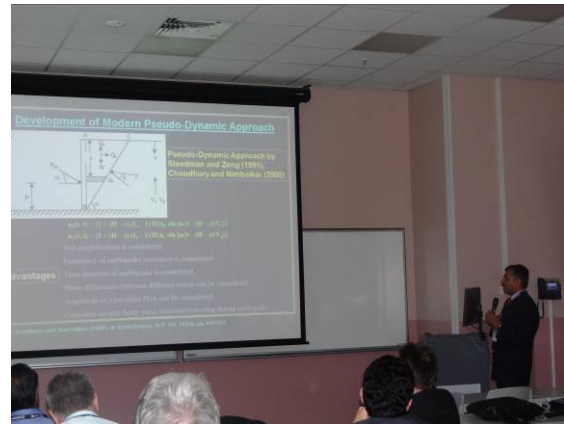


Some of the Indian delegates at Exhibition hall of ICGI-2012, Wollongong, Australia

## NEWS FROM MEMBER SOCIETY (Continued)



Prof. M. R. Madhav delivering his Invited Lecture at ICGI-2012, Wollongong, Australia



Prof. Deepankar Choudhury delivering his Invited Lecture at ICGI-2012, Wollongong, Australia

One day national seminar on the topic 'Embankments: Design and Construction' was organized by IGS Chennai Chapter on March 9, 2013 at IIT Madras, Chennai, India. The event was coordinated by Prof. A. Boominathan, Prof. M. Mutharam, Dr. V. Balakumar and Mr. I. V. Anirudhan. Invited speakers, namely, Prof. G. N. Gandhi, Prof. M. R. Madhav, Prof. K. Rajagopal, Prof. S. R. Gandhi, Prof. S. V. Ramaswamy, Prof. Deepankar Choudhury, Prof. S. K. Prasad, Prof. V. K. Stalin, Prof. J. T. Shahu, Prof. R. G. Robinson, Dr. R. Chitra, Mr. Ughandar talked about various design and construction activities of embankments in India. After the one day event, the newly elected Executive Committee members of IGS had assembled for 194th Executive Committee meeting where various ISSMGE activities and active participation of IGS in those activities including the forthcoming 18ICSMGE Paris 2013 were discussed in length.



194th Executive Committee meeting of newly elected Executive Committee Members of IGS at IIT Madras, Chennai, India on March 9, 2013

Indian Geotechnical Society (IGS) publishes Indian Geotechnical Journal (ISSN: 0971-9555) with M/s Springer publication. IGS has been publishing this quarterly Journal IGJ with one volume in every year and it is in its 43rd volume in 2013. After joining with Springer since 2012, Indian Geotechnical Journal (IGJ) is now able to reach more international audiences/readers and the published papers are now indexed in various publication units like SCOPUS and Web of Science. IGJ invites all researchers to submit their valuable research findings in any area of Geotechnical Engineering through the online submission (<https://www.editorialmanager.com/igtj/>) to IGJ.

Details about various activities of IGS can be viewed at website: <http://www.igs.org.in>

## NEWS ON RECENT CONFERENCE

### **XIXth Károly Széchy Memorial Session, First Young Geotechnical Engineering Meeting, and XXIIInd Geotechnical Evening Forum Budapest, 15th of February, 2013**

The Hungarian National Committee of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) jointly with the Engineering Section of the Hungarian Academy of Sciences and Geotechnical Section of the Hungarian Chamber of Engineers celebrated the XIXth Károly Széchy Memorial Session on the 15th February, 2013 at the Great Lecture Hall of the Hungarian Academy of Sciences, with 200 persons attending the event. In the morning the inaugural meeting of the Association of Young Geotechnics was held at the central building of the Budapest University of Technology and Economics.

The members who have founded the association came from three Hungarian Universities; they were PhD and MSc students. The association is closely related to the ISSMGE HNC, and they plan quarterly meetings to discuss the results of their research, support and inform each other, listen to lectures of guest speakers, and workshop-like meetings are held. In the inaugural meeting 70 young people participated, and listened to Professor John Burland's answers to their question, and then listened to the presentation of three young people.



Participants of the first Hungarian Young Geotechnical Engineering Meeting

## NEWS ON RECENT CONFERENCE (Continued)

### XIXth Károly Széchy Memorial Session

This series of festive gatherings have been highlighted from the beginning by lectures delivered by the most illustrious professors paying tribute to the memory of the Hungarian professor, Károly Széchy. This year, the guest speaker from abroad was Prof. John Burland (Imperial College London, UK). The presentation's title was

“Interaction between Geotechnical and Structural Engineers”.

The speaker from Hungary was Dr. Balázs Kovács, University of Miskolc, and delivered his speech on “Lessons learnt and future challenges of numerical modelling”.

About the event you can see the presentations, photos and an interview with Prof. Burland on the following website:

<http://www.issmge-hungary.net>



Presidium of the opening, -left to right-: L. Kollár (Vice President of Hungarian Academy of Sciences, Engineering Department), J. Mecsi (President of the ISSMGE HNC), Askar Zhussupbekov (ISSMGE Vice President for Asia), Ivan Vaniček (ISSMGE Vice President for Europe), H. Brandl (President of the Austrian Society of Engineers and Architects - first time awarded the Széchy Károly memorial plaque from abroad) and L. Szilvággyi (President, Hungarian Chamber of Engineers Section of Geotechnics.)



Participants of the Memorial Lecture

## NEWS ON RECENT CONFERENCE (Continued)



Prof. Dr. John BURLAND



Dr. Balázs KOVÁCS Hungarian lecturer

Again, as it is traditional in these events, the Károly Széchy memorial plaque and prize was delivered. This year the recipient was Dr. Miklós Müller (Budapest University of Technology and Economics), and Prof. Peter Turček (Slovak Technical University of Bratislava) was awarded the honorary Károly Széchy prize 2013.



Dr. Miklós Müller, recipient of the Széchy Károly plaque and prize 2013.



Prof. Peter Turček awarded the Széchy Károly memorial plaque 2013.

The professional events were concluded with an informal dinner. The joyful spirit of the evening was enhanced by the toasts and the amusing speeches given by the recipients of the awards and the main speakers.

## NEWS ON RECENT CONFERENCE (Continued)



József Mecsi  
President of the HNC ISSMGE

### Széchy Memorial Lecturers 1994-2012:

- 1994 FAZAKAS György (Budapest, Hungary), MISTÉTH Endre (Budapest, Hungary),  
VARGA László (Győr, Hungary), Heinz BRANDL (Wien, Austria), FARKAS József (Budapest, Hungary)
- 1996 KOVÁRI Kálmán (Zürich, Switzerland)
- 1997 VARGA László (Győr, Hungary), LAZÁNYI István (Budapest, Hungary)
- 1998 Heinz DUDDECK (Braunschweig, Germany), GRESCHIK Gyula (Budapest, Hungary)
- 1999 Ulrich SMOLTCZYK (Stuttgart, Germany), SCHARLE Péter (Budapest, Hungary)
- 2000 DULÁCSKA Endre (Budapest, Hungary), Marta DOLEŽALOVÁ (Praha, Czech Rep.)
- 2001 Robert MAIR (Cambridge, United Kingdom), MÜLLER Miklós (Budapest, Hungary)
- 2002 Michele JAMIOŁKOWSKI (Torino, Italy), NAGY János (Budapest, Hungary)
- 2003 Jubilee session  
James K. MITCHELL (Blacksburg, VA USA)  
POSGAY György (Budapest, Hungary), TRÄGER Herbert (Budapest, Hungary)  
MECSI József (Budapest, Hungary),
- 2004 Suzanne LACASSE (Oslo, Norway), SZEPESHÁZI Róbert (Győr, Hungary)
- 2005 Lothar MARTAK (Wien, Austria), SZABÓ Imre (Miskolc, Hungary)
- 2006 SECO E PINTO (Lisbon, Portugal), SZILVÁGYI Imre and SZILVÁGYI László (Budapest, Hungary)
- 2007 Serge VARAKSIN (Paris, France), KLADOS Gusztáv (Budapest and Kuala Lumpur)
- 2008 Roger FRANK (Paris, France), SOÓS Gábor (Budapest, Hungary)
- 2009 Rolf KATZENBACH (Darmstadt, Germany), JUHÁSZ József (Miskolc, Hungary)
- 2010 William VAN IMPE (Ghent, Belgium), BICZÓK Ernő (Budapest and Hamburg)
- 2011 Jean-Louis BRIAUD (USA), ZÁBRÁDI Ernő (Budapest, Hungary)
- 2012 Walter WITTKÉ (Germany), DELI Árpád (Budapest, Hungary)
- 2013 John BURLAND (UK), Balázs KOVÁCS (Miskolc, Hungary)

## NEWS ON RECENT CONFERENCE (Continued)

### Life of Károly Széchy

1903	born in Budapest on 17th December as the son of Ilona Zwerencz and Károly Széchy, MSc in Civ. Eng. chief inspector at the Hungarian Railway and
1922	maturated at the Secondary School "Árpád" in Budapest
1926	MSc Degree in Civil Engineering at the Technical University József in Budapest
1926-27	Assistant Professor at the Water Engineering Department of the same University
1927-28	scholar at the University College London
1928-32	private engineer, construction manager
1930	married, wife Margit Kókai, son Károly Széchy (1930) MSc in Civ. Eng. and Edit Sós (1932) pharmacist
1932-45	various posts at the Bridge Department in the Hungarian Ministry for Transport and Communication
1933	Doctor of Law
1935-37	management the Widening of the Margaret-Bridge
1937-39	leader of the General Planning of the Árpád-Bridge 1938 supervisor for the Modernizing of the Ferenc József-Bridge (today Freedom-Bridge)
1939-43	management the Construction of the Árpád-Bridge
1944	Dr. Techn.
1945-51	Head of the Bridge Department in the Hungarian Ministry for Transport and Communication, administrative leader for the reconstruction of blasted bridges in W. W. II.
1945-46	leader of the Planning and Construction of the Kossuth-Bridge demolished in 1960
1945-46	leader of the Temporary and the Final Repairing of the Ferenc József-Bridge
1945-47	leader of the Reconstruction of the Margaret-Bridge
1947-49	leader of the Renovation of the Chain-Bridge
1946	awarded with Officer's Cross of the Republic-Order
1948	awarded with the Golden Grade Kossuth-Prize
1948	Honorary Professor at the Technical University of Budapest
1948-50	supervisor at the construction of the Árpád-Bridge
1949	started the lectures on Foundation Engineering at the TU Budapest
1950	The Hungarian Academy of Sciences declares to Technical Fellowship
1950-53	General Director for the Underground Railway Investment Co. in Budapest, Leader of the planning and construction of the Metro
1952	The Hungarian Academy of Sciences declares to Corresponding Member Fellowship
1952	published the first edition of the book "Foundation Engineering" Volume I and II in Hungarian
1952	Distinct "Excellent Worker of the Transport"
1953-54	Director of the Underground Railway Construction Co. in Budapest
1953	Ordinary Professor of Foundation Engineering and Tunnelling at the Technical University in Budapest
1956-57	Head of the Technical Board at the Ministry of Transport and Communication
1958	published the first edition of the Book "Foundation failures" in Hungarian
1958	Visiting Professor in Egypt for 2 months
1959-60	contribution to the Planning of the Renovation of the Elisabeth-bridge
1961	published the first edition of the Book "Tunnelling" in Hungarian
1964	Visiting Professor in Egypt for 2 months
1966	awarded with "Excellent Worker in Higher Education" distinction
1966	awarded with Honourable Degree at the Technical University of Helsinki
1968	Invited Lecturer for a semester in Canada
1970	The Hungarian Academy of Sciences declares his Ordinary Member Fellowship
1970	awarded by Budapest Municipality with Distinct "Pro Urbe" for his prominent lifetime activity in the reconstruction of the bridges and the establishment of the Underground Railway network in Budapest
1970	awarded with Honourable Degree at the Technical University of Wroclaw
1972	died on 22nd May in Budapest

## OBITUARY

### Nicolas Neocles Ambraseys 1929-2012

Nicolas (Nick) Ambraseys, famous for his immense contribution to Engineering Seismology, was born on 19th January 1929 in Alexandria (Egypt) of Greek parents. The family came back to Greece when he was about 4 years of age. He died peacefully at his home in London on 28th December 2012 at the age of 83. The worldwide community involved in seismology and earthquake engineering will miss him greatly.

Nick Ambraseys graduated in Rural Engineering from National Technical University of Athens in 1952. After completing his army service in Greek Navy, he came to Imperial College in London to study for his Diploma of Imperial College (DIC) in Soil Mechanics and later his PhD on the subject of seismic stability of earth dams under the supervision of Professor Alan Bishop, which was awarded in 1958. Following a few years at universities in Greece and in Illinois in the United States of America he remained at Imperial College until his death. He became Professor of Engineering Seismology in 1974. In 1968 he established the Engineering Seismology Section in the Department of Civil Engineering and from 1971 to 1994 he led this section. He retired from this position in 1994 and he remained very active as an Emeritus Professor and Senior Research Fellow. Nick could not stop working on his research and even during the last few months of his life he continued working and collaborating on various research topics, including the stability of ancient Greek columns. The number of publications reaches into nearly 300.



His research covered many problems connected with earthquakes and their effects on the ground, structures and populations. His PhD and early articles were concerned with the response of earth dams to earthquakes. He was actively involved in the design of Mangla Dam in Pakistan with Professor Skempton and there, he became fascinated with historical seismicity. Following the Skopje earthquake of 1963, where it did not seem to have any earlier earthquakes, he started looking into the history of seismicity of the region and he became fully involved in this study and pioneered the study of historical seismicity. His greatest and unparalleled contribution was in this field. His meticulous study of historical accounts of past earthquakes in Eastern Mediterranean all the way to Pakistan resulted in several books and articles. His first book on this subject was "A history of Persian earthquakes", published in 1982 co-authored with Charles Melville. His last book "Earthquakes in the Mediterranean and the Middle East" published in 2009 contained nearly 1000 pages. He has studied other regions and published many articles and books on this theme. He has undertaken many field studies after disastrous earthquakes all over the world mainly under the aegis of UNESCO, collecting enormous quantity of data for depicting the first comprehensive picture of the probability of earthquake occurrence worldwide. He considered these regions as huge laboratories providing data for understanding of earthquakes, earthquake engineering involving both soils and structures and earthquake strong motion. His broad experience, not only in the field of Engineering Seismology, but also in the field of soil mechanics was recognized by the 44<sup>th</sup> Rankine Lecture given by him in 2004. These studies were full of wisdom and insight. These studies provided him with many important contacts all over the world. His great ability with languages (fluent in three or four and comprehension of many others) helped all of these works and to sustain contacts with people of many nationalities. As well as conducting research himself he supervised many masters and PhD students and he collaborated with numerous workers worldwide. His vast experience of practical earthquake problems has been put to good use through consultancy for vast large-scale engineering projects in seismically active regions.

## OBITUARY (Continued)

The world community recognised his achievements and has given numerous awards and fellowships. The list is too long to be mentioned here. He was a Fellow of the Academy of Engineering, Fellow of the Institution of Civil Engineers, Fellow of the Geological Society and Fellow of the Royal Geographical Society; he was elected to the Academy of Athens, Member of the European Academy; he was awarded the Busk Medal from the Royal Geographical Society, Harry Fielding Reid Medal of the Seismological Society of America (2006) and many others.

His great scholarship, practical insight and wisdom were best demonstrated during relaxed discussions in small groups. The conversation would be on any topics, he will be cleaning and refilling his pipe, the conversation, filled with interesting and amusing asides, anecdotes and observations. He had a great ability to find simple analogies on the spot quickly to simplify scientific and engineering problems. I remember him telling me about his young nephew who asked him why did two negatives make a positive and his instant reply was “you do not like not going to the cinema”. There are many such analogies and that is why it was so interesting to attend his lectures.

He is survived by his wife, Xeni.

Sarada Sarma - Imperial College, United Kingdom

Michele Maugeri - University of Catania, Italy

Technical Committee 203 on Geotechnical Earthquake Engineering and Associated Problems

## NEWS

### Prof. Shamsheer Prakash is presented BHARAT JYOTI AWARD



Prof Shamsheer Prakash NRI USA, Professor Emeritus, Department of Civil Engineering, Missouri University of Science and Technology Rolla MO, USA, was presented the BHARAT JYOTI AWARD, on January 12, 2013.

Dr. Prakash is an international expert in soil dynamics and geotechnical earthquake engineering, President of Shamsheer Prakash Foundation, USA. Dr. Prakash has developed a unique program of Inner Peace, Happiness, based on Rishi Patanjali's Ashtang Yoga and a (Signature) Workshop on Yoga and Pranayama and Meditation.

He was cited for his exemplifying services to the people of both the countries India, and the USA, and developing scientific programs in Yoga, and Peace of mind, and adopting school children in India for full support in their education based on "PERFORMANCE", and NEED.

The Award was presented by His Excellency B. P. Singh (Governor of Sikkim).

Sincere congratulations.

## NEWS

### Prof. Roger Frank (France) receives the De Beer Award for the period 2009-2013

Late Professor E. De Beer's friends and colleagues took the initiative in 1982 to publish a memorial volume at the occasion of his retirement. The proceeds of that publication were used to establish the "De Beer Fund" and enable the award of the "De Beer Prize" every four years.

The prize is designed to reward an outstanding engineer who has provided significant contributions to the theoretical, experimental, and design aspects of soil mechanics and foundation engineering. The individual must either hold a civil engineering degree delivered by a Belgian institution or have maintained close collaboration with the Belgian Geotechnical Scene.

Recipients of the award since 1986 have been: Prof. Branko Ladanyi (Canada), Ir. Victor Roisin (Belgium), Dr. Alain Holeyman (USA), Prof. Michele Jamiolkowski (Italy), Prof. William Van Impe (Belgium), and Ir. Jan Maertens (Belgium).



The Selection Committee, chaired by the current President of the Belgian Member Society of the ISSMGE, is pleased to announce that the De Beer Prize for the Period 2009-2013 has been bestowed to Prof. Roger Frank (France). The award ceremony is scheduled in Brussels on April 18, 2013, and will be highlighted by the recipient's lecture on "La nouvelle norme française de calcul des fondations profondes" (The new French Standard on the design of deep foundations).

For further information, visit the website of the Belgian Society for Soil Mechanics and Geotechnics, member of the ISSMGE at <http://www.bggg-gbms.be>.

## NEWS ON RECENT CONFERENCE

### The 1st International University of Wisconsin Geological and Geotechnical Engineering Reunion Conference

This conference was held on September 12-15, 2012, in Madison, Wisconsin, USA. Over 130 people participated in this event, representing over a dozen countries (including Senegal, Korea, Turkey, Saudi Arabia, Iran, China, Thailand, Japan, Malaysia, and England). Participants were interdisciplinary, ranging from geological, geotechnical, and mining engineers; sponsors of geological and geoenvironmental research programs; geologists and hydrogeologists; and current graduate students and undergraduates. Five technical tracks highlighted the conference program: Groundwater and Surface Water; Infrastructure; Sustainability and the Environment; Geohazards; and Energy Minerals and Mining. These technical tracks helped to highlight the interdisciplinary nature of the profession and the application of geotechnical and geological engineering principles to solving the grand societal challenges of our world. Technical session presentations included diverse topics ranging from *Hydraulic Fracturing Stress Measurements* to *Monitoring of Lava Dome at Mt. Unzen, Japan, by Ground Based Synthetic Aperture Radar* to *Thermal Energy Potential of Landfills*.



*Figure 1. Participants at the conference banquet that recognized Dr. Tuncer B. Edil's 39-year career at the University of Wisconsin-Madison.*

Of special note, the conference banquet celebrated the careers of recently retired geological engineering professors; Mary Anderson, Tuncer Edil, Bezalel Haimson, Dave Mickelson, Dick Christensen, and Peter Bosscher (in memorial). Their cumulative contributions to the disciplines of hydrogeology, soft ground engineering, rock mechanics, and glacial geology (amongst many other areas) over the past 40 years has been extraordinary and worthy of celebration. Prof. Craig Benson, as President of Geo-Institute (ASCE) and Head of Department of Geological Engineering, College of Engineering at University of Wisconsin-Madison, awarded Emeritus Professors for their great contributions in the geo-engineering area.

The next International Geological and Geotechnical Engineering Reunion will be held on the beautiful campus of the University of Wisconsin-Madison in September of 2016.

## NEWS ON RECENT CONFERENCE (continued)



Craig Benson and Mary Anderson



Bezalel Haimson and Craig Benson



Tuncer Edil and Dick Christensen

Dr. Askar Zhussupbekov (Vice-President of ISSMGE for Asia) visited Madison in December to further honor Dr. Edil's professional achievements and to present a seminar titled "Geotechnical and Structural Issues of Megaprojects on Problematic Soils of Kazakhstan." In the photo below, Dr. Edil was presented the Kazakh national dress, the *chapan*, (i.e., a Kazakh kimono) in recognition of his contributions to soft ground engineering and ISSMGE.



From left to right, Jeff Horsfall, Mike Swenson, James Tinjum, Tuncer Edil, and Askar Zhussupbekov.

Later in March, 2013, Prof. Edil received from ASCE the prestigious Terzaghi Award during the GeoCongress in San Diego. The award itself and his colleagues, who have been close to him and working together, are seen in the photographs presented here.



Terzaghi Award given to Prof. Edil.

## NEWS ON RECENT CONFERENCE (continued)



Left to right: Prof. Patrick Fox (Editor in Chief of ASCE J. Geotech & Geoenviron. Engineering, U. of California-San Diego, his former PhD student); Prof. James Tinjum, U. of Wisconsin-Madison, former PhD student of both Prof. Edil and Prof. Benson; Prof. Edil himself; Prof. Craig Benson, U. of Wisconsin-Madison, President of Geo-Institute.



Left to right: Prof. David Daniel, President of U. of Texas at Dallas; Prof. Craig Benson; and Prof. Edil.



Left to right: Patrick Fox; James Tinjum; Dr. Kord Wissmann, President of Geopier Foundation Company and member of the Board of Governors of Geo Institute; Prof. Edil; Prof. Ahmet Aydilek, University of Maryland, Prof. Edil's former PhD student.

## WORKSHOP REPORT

### UKIERI International Workshop on Seismic Requalification of Geotechnical Structures

Reported by,  
Dr. A. Murali Krishna, Prof. S. Bhattacharya and Prof. D. Choudhury  
Organizers, UKIERI International Workshop  
New Delhi, India.

Indian Geotechnical Society (IGS) in association with IIT Guwahati and IIT Delhi, organized “International Workshop on Seismic Requalification of Geotechnical Structures” on 17th December 2012 at IIT Delhi, New Delhi, India. The workshop was organized as a part of an ongoing UKIERI (UK-India Education & Research Initiative) project between IIT Guwahati (India) and Universities of Bristol and Surrey (UK) as the leading partner institutions. Other collaborators of the project & workshop are NIDM (National Institute of Disaster Management) and IIT Bombay, India. In total about 70 members participated in the workshop. The inaugural address was delivered by Prof. K. S. Rao, Immediate Past President, IGS, New Delhi.

The UKIERI project aims to develop a methodology to re-examine the safety of the existing pile foundations and retaining walls in the light of recent research findings (hopefully better and refined) and of course taking on board the lessons learned from recent earthquake experiences. The workshop delivered talks on diverse topics related to the project theme, covering: ingredients for seismic requalification procedure, latest understandings of piles and retaining walls behavior under seismic conditions, approaches for strengthening and retrofitting, and construction practices. There were 14 invited presentations in the workshop. The details of presentation titles and speakers are given in Table 1.

Proceedings of the workshop were released in a book form titled “Seismic Requalification of Geotechnical Structures (Draft Version)”. Long discussions were held among the participants discussing the challenges in seismic requalification procedures. It was felt that selection of proper ground motion parameters and procedure for ground response are vital in analyzing the seismic capacity of the geotechnical structures. Keeping in view of the discussions raised, the draft version of the book shall be revised and reviewed so that selected papers can be published in a Special Issue of Indian Geotechnical Journal in due course.



Selected participants with speakers of the workshop

## WORKSHOP REPORT (continued)

Table. 1 List of presentations and speakers in the workshop

Sl. No.	Topic of presentation	Speaker
1	Seismic Requalification: Why and How? (About the workshop and draft proceedings. Linking different presentations of the day)	Prof. Subhamoy Bhattacharya, Univ. of Bristol & Surrey, UK
2	Seismic Hazard Assessment and Seismic Microzonation for NCR of Delhi	Prof. K. S. Rao, IIT Delhi, India
3	Selection of appropriate time histories for non linear seismic design of foundations	Dr. Barnali Ghosh, Mott MacDonald Ltd., UK
4	Geotechnical and Geophysical Testing for Seismic Requalification	Dr. P. Anbazhagan, IISc Bangalore, India
5	Liquefaction of Soils - Effects and Assessment	Dr. L. Govinda Raju, Bangalore University, India
6	Seismic behaviour of retaining structures and design issues	Prof. Deepankar Choudhury, IIT Bombay, India
7	A solution to seismic response of cantilever retaining wall with generalized backfill soil	Dr. Indrajit Choudhury, Petrofac, Dubai
8	Soil-structure interaction considerations in the seismic design of Pile foundations	Prof. B. K. Maheshwari, IIT Roorkee, India
9	Lateral dynamic response and stiffness of full scale single piles	Prof. A. Boominathan, IIT Madras, India
10	Design of pile foundations using p-y curves (In Liquefiable Soils)	Dr. Suresh Dash, IIT Bhubaneswar, India
11	Influence of superstructure flexibility on pile behaviour under earthquake load: shake table experiments	Dr. R. Ayothiraman, IIT Delhi, India
12	Issues on construction quality in India with emphasis in Delhi.	Prof. Chandan Ghosh, NIDM, India
13	Methodology for assessment of pile foundations	Prof. Subhamoy Bhattacharya, Univ. of Bristol & Surrey, UK
14	Seismic strengthening and retrofitting	Dr. A. Murali Krishna, IIT Guwahati, India



Release of Proceedings of the Workshop



Audience of the Workshop

## UPCOMING CONFERENCE

### The 1st International Symposium on Transportation Soil Engineering in Cold Regions - A Joint Conference with the 10th SHAHUNIANTS Lecture

Cold regions cover 50% of the world's total land area. Transportation infrastructures in cold regions face great technical challenges due to ground freeze-thaw or permafrost degradation. New transportation infrastructure on embankments, such as high-speed railways on slab tracks or highways, requires high geometry standards. More challenging technical problems will arise as more transportation infrastructure is being planned and/or constructed in Northwest and Northeastern China, Russia as well as North America. The First International Symposium on Transportation Soil Engineering in Cold Regions - a joint conference with the 10th Shahuniants Lecture aims to provide an opportunity for researchers and practitioners in the transportation community to share the latest research advances and experiences in the construction of transportation infrastructure in cold regions. The Shahuniants Lecture has been given regularly among Russian scientists for many years and this is the first time to organize it outside of Russia.

#### Organized by:

Qinghai Research Institute of Transportation (QRIT), Department of Transportation (DOT) of the Qinghai Province, China  
 Beijing Jiaotong University, Beijing, China  
 University of Illinois at Urbana-Champaign, USA  
 Moscow State University of Railway Transportation, Moscow, Russia  
 University of Kansas, USA  
 Siberian State University of Railway Transportation, Novosibirsk, Russia  
 State Key Laboratory of Frozen Soil, Cold & Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences, China  
 National Natural Science Foundation of China, China

#### Main Topics including but not limited to the cold-region aspects of:

Mechanical behavior of soil and aggregate  
 Coupled modeling of mechanical and physical processes of frost heave and thaw weakening of ballasted subgrade and base of slab track and field experiments in roadway embankments  
 Long-term monitoring of subgrade functionality  
 Non-destructive testing of subgrade and aggregate  
 Dynamic/seismic behavior of transportation infrastructure  
 Other topics related to transportation soil engineering in cold regions

#### Co-Chairs of the Organizing Committee:

Prof. Erol Tutumluer, University of Illinois at Urbana-Champaign, USA  
 Prof. Ashpiz E, Moscow State University of Railway Transportation, Russia  
 Prof. Jiankun Liu, School of Civil Engineering, Beijing Jiaotong University, China  
 Dr. Jianhong Fang, Director of the Qinghai Research Institute for Transportation (QRIT), China  
 Prof. Zhaohui Yang, Director of Geotechnical and Frozen Soil Engineering Laboratory, University of Alaska, USA

#### Important dates:

May 15, 2013 Submission of full paper ([zhangyu@mail.lzjtu.edu.cn](mailto:zhangyu@mail.lzjtu.edu.cn))  
 May 30, 2013 Notification of the acceptance of submitted paper  
 June 30, 2013 Deadline for submission of final revised paper ([zhangyu@mail.lzjtu.edu.cn](mailto:zhangyu@mail.lzjtu.edu.cn))

#### Publication of Conference Papers:

All papers accepted by this symposium will be published in the Journal of Sciences in Cold and Arid Regions, Academy of China, or the Journal of Qinghai Science and Technology in Transportation.

## UPCOMING CONFERENCE (Continued)

### Conference Date and Location:

Arrival and Registration: October 9

Conference: October 10-11, 2013. Location: Qinghai Hotel, Xining, China

### Field Trip:

Route A: Qinghai Lake and Ta-Er-Si Temple, October 12.

Route B: Xining-Gulmut-Lhasa (optional, pre-registration required, paid additionally), Oct 13-17.

### Registration fee, to be paid on site:

2000RMB/person, or 320\$US/person (Including 3 days meal, Publication, Coffee breaks, and Trip A)

Website: <http://subgrade.sinaapp.com/>

## ISSMGE EVENTS

Please refer to the specific conference website for full details and latest information.

### 2013

#### **Experimental Micromechanics for Geomaterials**

Date: Thursday 23 May 2013 - Friday 24 May 2013

Location: The University of Hong Kong, China (Hong Kong S.A.R.)

Language: English

Organizer: TC101, TC105, HKGES, HKU

Contact person: Ms Bridget Lam

Address: Department of Civil Engineering, The University of Hong Kong, Pokfulam, Hong Kong, China (Hong Kong SAR)

Phone: (852) 2859 2666

Fax: (852) 2559 5337

E-mail: [owlam@hku.hk](mailto:owlam@hku.hk)

#### **18th Southeast Asian Geotechnical Conference cum Inaugural AGSSEA**

Date: Wednesday 29 May 2013 - Friday 31 May 2013

Location: Singapore

Language: English

Organizer: Geotechnical Society of Singapore

Contact person: Office of Professional Engineering & Executive Education

Address: Faculty of Engineering, National Univ of Singapore, Block E1 #05-15, 3 Engineering Drive 2, 117578 Singapore

Phone: +65 65165113

Fax: +65 68745097

E-mail: [18seagc@nus.edu.sg](mailto:18seagc@nus.edu.sg)

Website: <http://www.18seagc.com>

#### **Second International Symposium on Geotechnical Engineering for the Preservation of Monuments and Historic Sites**

Date: Wednesday 29 May 2013 - Friday 31 May 2013

Location: Conference Centre Federico II, Napoli, Italy

Language: English

Organizer: AGI and TC 301

E-mail: [secretariat@tc301-napoli.org](mailto:secretariat@tc301-napoli.org)

Website: <http://www.tc301-napoli.org/>

#### **International Conference on State of The Art of Pile Foundation and Pile Case Histories "Pile 2013"**

Date: Sunday 02 June 2013 - Tuesday 04 June 2013

Location: Savoy Homann Bidakara Hotel, Bandung, West Java, Indonesia

Language: English

Organizer: Deep Foundation Research Institute - Parahyangan Catholic University

Contact person: Deep Foundation Research Institute - Parahyangan Catholic University

Address: JL. Ciumbuleuit 94, 40142, Bandung, West Java, Indonesia

Fax: +62 22 2060278

E-mail: [pile2013@gmail.com](mailto:pile2013@gmail.com)

Website: <http://www.pile2013.com>

## ISSMGE EVENTS (Continued)

### **The first international conference on Foundation and Soft Ground Engineering Challenges in MeKong Delta**

Date: Wednesday 05 June 2013 - Thursday 06 June 2013  
 Location: Thu Dau Mot University, Binh Duong, Binh Duong, Vietnam  
 Language: English  
 Organizer: Dr. Nguyen Ke Tuong and M. Eng. Nguyen Minh Hai  
 Contact person: Nguyen Minh Hai  
 Address: 06 Tran Van On Street, 650, Binh Duong, Binh Duong, Viet Nam  
 Phone: 84-650-3.822.518.  
 Fax: 84-650-3.837.150  
 E-mail: [haitdmu@gmail.com](mailto:haitdmu@gmail.com)  
 Website: <http://www.ictdmu.com/>

### **TC 215 ISSMGE International Symposium on "Coupled Phenomena in Environmental Geotechnics (CPEG) - from theoretical and experimental research to practical applications"**

Date: Monday 01 July 2013 - Wednesday 03 July 2013  
 Location: Politecnico di Torino, Torino, Italy  
 Language: English  
 Organizer: TC 215 ISSMGE and Italian Geotechnical Association (AGI)  
 Contact person: Guido Musso, Andrea Dominijanni  
 Phone: +39 011 0904837  
 E-mail: [guido.musso@polito.it](mailto:guido.musso@polito.it); [andrea.dominijanni@polito.it](mailto:andrea.dominijanni@polito.it)  
 Website: [www.tc215-cpeg-torino.org](http://www.tc215-cpeg-torino.org)

### **Fifth International Young Geotechnical Engineers' Conference (5iYGEC'13)**

Date: Saturday 31 August 2013 - Sunday 01 September 2013  
 Location: École des Ponts ParisTech, Paris, France  
 Language: English/French  
 Contact person: Prof. Yu-Jun Cui  
 Address: Paris, France  
 E-mail: [yujun.cui@enpc.fr](mailto:yujun.cui@enpc.fr)  
 Website:  
<http://www.lepublicsystemepco.com/EN/events.php?IDManif=696&IDModule=21&PPAGE=&PAGE=&TEMP LATE=&CSS=&IDRub=>

### **18th International Conference on Soil Mechanics and Geotechnical Engineering, Paris,**

Date: Monday 02 September 2013 - Friday 06 September 2013  
 Location: Palais des congrès de Paris, Porte Maillot, Paris, France  
 Language: English, French  
 Organizer: Le Public Système, 38, rue Anatole France-Levallois-Perret Cedex, 92594 France  
 Contact person: Violaine Gauthier, Valérie Méttral  
 Address: 38 rue Anatole France, 92594 Levallois-Perret Cedex, France  
 Phone: +33 1 70 94 65 04  
 Fax: +33 1 70 94 65 01  
 E-mail: [vgauthier@le-public-systeme.fr](mailto:vgauthier@le-public-systeme.fr), [vmettral@le-public-systeme.fr](mailto:vmettral@le-public-systeme.fr),  
 Website: <http://www.issmge2013.org/EN/events.php?IDManif=561&IDModule=71&IDRub=79>  
 More info: Organizer Phone: 33 1 70 94 65 04 Contact persons: Violaine Gauthier: [vgauthier@le-public-systeme.fr](mailto:vgauthier@le-public-systeme.fr) Valérie Méttral: [vmettral@le-public-systeme.fr](mailto:vmettral@le-public-systeme.fr)

## ISSMGE EVENTS (Continued)

### **International Symposium on Design and Practice of Geosynthetic-Reinforced Soil Structures**

Date: Sunday 13 October 2013 - Wednesday 16 October 2013

Location: Faculty of Engineering, Bologna, Italy

Language: English

Organizer: Tatsuoka, Gottardi, Ling, Han

Contact person: Hoe I. Ling

Address: 500 West 120th Street, Columbia University, 10027, New York, NY, USA

Phone: 12128541203

Fax: 12128546267

E-mail: [ling@civil.columbia.edu](mailto:ling@civil.columbia.edu)

Website: <http://www.civil.columbia.edu/bologna2013/>

### **International Conference Geotechnics in Belarus: Science and Practice**

Date: Wednesday 23 October 2013 - Friday 25 October 2013

Location: Belarussian National Technical University, Minsk, Belarus

Language: Russian and English

Organizer: Belorussian Geotechnical Society

Contact person: Ulasik T., Sernov V., Ignatov S.

Address: Republic of Belarus, prospectus Nezavimosti, building 65, 220013 Minsk, Belarus

Phone: +37517 2659769

E-mail: [geotechnika2013@gmail.com](mailto:geotechnika2013@gmail.com) [belgeotech@tut.by](mailto:belgeotech@tut.by)

### **The 19th NZGS Symposium "Hanging by a Thread – Lifelines, Infrastructure and Natural Disasters"**

Date: Wednesday 20 November 2013 - Saturday 23 November 2013

Location: Millennium Hotel, Queenstown, New Zealand

Language: English

Organizer: New Zealand Geotechnical Society

Contact person: Amanda Blakey

Address: Auckland, New Zealand

Phone: +64 9 575 2744 or +64 21 025 11 628

E-mail: [secretary@nzgs.org](mailto:secretary@nzgs.org)

Website: <http://www.nzgs13.co.nz/>

### **10th International Symposium of Structures, Geotechnics and Construction Materials**

Date: Tuesday 26 November 2013 - Friday 29 November 2013

Location: International Convention Center, Santa Clara, Villa Clara, Cuba

Language: English, Spanish

Organizer: Facultad de Construcciones, Universidad Central de Las Villas

Contact person: Dra. Ana Virginia González - Cueto Vila

Address: Facultad Construcciones, UCLV, Carretera a Camajuani, km 5.5, 54830, Santa Clara, Villa Clara, Cuba

Phone: (53) 42 281655, 42 281065, 42 28 1561

Fax: (53) 42 281655

E-mail: [ana@uclv.edu.cu](mailto:ana@uclv.edu.cu) , [quevedo@uclv.edu.cu](mailto:quevedo@uclv.edu.cu)

Website: [www.uclv.edu.cu](http://www.uclv.edu.cu)

## ISSMGE EVENTS (Continued)

### **GEOTEC HANOI 2013 "Geotechnics for Sustainable Development"**

Date: Thursday 28 November 2013 - Friday 29 November 2013

Location: Melia Hotel, 44B Ly Thuong Kiet Street, Hoan Kiem District, Hanoi, Vietnam

Language: English

Organizer: FECON (Vietnam), VSSMGE (Vietnam) and AIT (Thailand)

Contact person: Dr. Le Quang Hanh, Ms Vu Thuy Dung

Address: FECON Foundation Engineering & Underground Construction JSC.15F, CEO Building, HH2-1 Plot, Pham Hung Road, Tu Liem District, Hanoi, Vietnam

Phone (+ 84) 46.269.0481 or 46.269.0482, Ext: 335

Fax: (+ 84) 46.269.0484

E-mail: [secretariat@geotechn2013.vn](mailto:secretariat@geotechn2013.vn)

Website: <http://www.geotechn2013.vn>

## 2014

### **8th International Conference on Physical Modelling in Geotechnics 2014 (ICPMG)**

Date: Tuesday 14 January 2014 - Friday 17 January 2014

Location: University Club, The University of Western Australia, Perth, Western Australia, Australia

Language: English

Organizer: Centre for Offshore Foundation Systems, The University of Western Australia

Contact person: arinex pty limited

Address: GPO Box 316, Belmont WA 6984 Australia,

Phone: +61 2 9265 0890

Fax: + 61 2 9265 0880

E-mail: [icpmg2014@arinex.com.au](mailto:icpmg2014@arinex.com.au)

Website: <http://icpmg2014.com.au/>

### **GeoShanghai 2014**

Date: Monday 26 May 2014 - Wednesday 28 May 2014

Location: Shanghai, China

Language: English

Organizer:: Tongji University

Contact person: Xiong Zhang

Address: Department of Civil & Environmental Engineering, University of Alaska Fairbanks, 99775, Fairbanks, AK, United States

Phone: +1(907)474-6172

Fax: +1(907)474-6030

E-mail: [xzhang11@alaska.edu](mailto:xzhang11@alaska.edu)

Website: [www.geoshanghai2014.org](http://www.geoshanghai2014.org)

### **TC204 ISSMGE International Symposium on "Geotechnical Aspects of Underground Construction in Soft Ground" - IS-Seoul 2014**

Date: Monday 25 August 2014 - Wednesday 27 August 2014

Location: Sheraton Grande Walkerhill, Seoul, Korea

Language: English

Organizer: TC204 of ISSMGE and Korean Geotechnical Society

Contact person: Prof. Chungsik Yoo

Address: 300 Chun-Chun Dong, Jang-An Gu, 440-746, Suwon, Kyoung-Gi Do, Korea

Phone: +82-32-290-7518

Fax: +82-32-290-7549

E-mail: [csyoo@skku.edu](mailto:csyoo@skku.edu)

## ISSMGE EVENTS (Continued)

### **International Symposium on Geomechanics from Micro to Macro (TC105)**

Date: Monday 01 September 2014 - Wednesday 03 September 2014

Location: Cambridge University, Cambridge, United Kingdom

Language: English

Organizer: TC105

Contact person: Professor Kenichi Soga

Address: University of Cambridge, Department of Engineering, Trumpington Street, CB2 1PZ, Cambridge, UK

Phone: +44-1223-332713

Fax: +44-1223-339713

E-mail: [ks207@cam.ac.uk](mailto:ks207@cam.ac.uk)

### **XV Danube-European Conference on Geotechnical Engineering**

Date: Tuesday 09 September 2014 - Thursday 11 September 2014

Location: Vienna University of Technology, Vienna, Austria

Language: English and German

Organizer: ASSMGE & Vienna University of Technology, Institute of Geotechnics

Contact person: Armin Steurer, Gerda Pfleger

Address: Vienna University of Technology, Institute of Geotechnics, Karlsplatz 13/220-2, A-1040, Vienna, Austria

Phone: +43 1 58801 22101

Fax: +43 1 58801 22199

E-mail: [igb@tuwien.ac.at](mailto:igb@tuwien.ac.at)

Website: <http://www.decge2014.at>

### **Geohubei International Conference 2014**

Date: Sunday 20 July 2014 - Tuesday 22 July 2014

Location: Three Georges Dam, Hubei, China

Language: English

Organizer: Geohubei International Conference 2014

Contact person: Dr. Guodong Zhang

Address: Three Gorges University

E-mail: [GEOHUBEI.ADM@GMAIL.COM](mailto:GEOHUBEI.ADM@GMAIL.COM)

Website: <http://geohubei2014.geoconf.org>

## 2015

### **ISFOG 2015**

Date: Wednesday 10 June 2015 - Friday 12 June 2015

Location: Holmenkollen Park Hotel Rica, Oslo, Norway

Language: English

Organizer: NGI

Contact person: Vaughan Meyer - NGI

Address: PO Box 3930 Ullevaal Stadion, N-0806, Oslo, Norway

Phone: +47 22 02 30 00

Fax: +47 22 23 04 48

E-mail: [isfog2015@ngi.no](mailto:isfog2015@ngi.no)

Website: [www.isfog2015.no](http://www.isfog2015.no)

## ISSMGE EVENTS (Continued)

### **XVI European Conference on Soil Mechanics and Geotechnical Engineering**

Date: Sunday 13 September 2015 - Thursday 17 September 2015

Location: Edinburgh International Conference Centre, Edinburgh, Scotland, United Kingdom

Language: English

Organizer: British Geotechnical Association

Contact person: Derek Smith

Address: Coffey Geotechnics Limited, The Malthouse, 1 Northfield Road, Reading, Berkshire, RG1 8AH, Reading, UK

Phone: +44 1189566066

Fax: +44 1189576066

E-mail: [derek\\_smith@coffey.com](mailto:derek_smith@coffey.com)

Website: <http://www.xvi-ecsmge-2015.org.uk/>

## 2016

### **NGM 2016, The Nordic Geotechnical Meeting**

Date: Wednesday 25 May 2016 - Saturday 28 May 2016

Location: Harpan Conference Centre, Reykjavik, Iceland

Language: English

Organizer: The Icelandic Geotechnical Society

Contact person: Haraldur Sigursteinsson

Address: Vegagerdin, Borgartún 7, IS-109, Reykjavik, Iceland

Phone: +354 522 1236

Fax: +354 522 1259

E-mail: [has@vegagerdin.is](mailto:has@vegagerdin.is)

## NON-ISSMGE SPONSORED EVENTS

**2013**

### **EURO:TUN2013**

Date: Wednesday 17 April 2013 - Friday 19 April 2013

Location: Ruhr-Universität Bochum, Bochum, Germany,

Language: English

Organizer: Günther Meschke, Josef Eberhardsteiner, Tom Schanz ([tom.schanz@rub.de](mailto:tom.schanz@rub.de)), Kenichi Soga, and Markus Thewes

Website: <http://www.eurotun2013.ruhr-uni-bochum.de/>

### **First International Conference-Seminar on Deep Foundations in Bolivia**

Date: Tuesday 23 April 2013 - Wednesday 24 April 2013

Location: Economic Sciences Auditorium - UAGRM Campus, Santa Cruz de la Sierra, Santa Cruz, Bolivia

Language: English - Spanish with simultaneous translation

Organizer: UAGRM- INCOTEC SRL- Chamber Of Construction- Engineers Society- Dr. Bengt H. Fellenius - Dr. K. Rainer Massarsch

Contact person: Ricardo Soliz

Address: Av. 5o Anillo esq. Radial 27 - PO Box 868, Santa Cruz de la Sierra, Santa Cruz, Bolivia

Phone: +591 3 3429522 (ext 112)

Fax: 342 9525

E-mail: [congreso@cfpbolivia.com](mailto:congreso@cfpbolivia.com)

Website: [www.cfpbolivia.com](http://www.cfpbolivia.com)

### **Seventh International Conference on Case Histories in Geotechnical Engineering**

Date: Sunday 28 April 2013 - Saturday 04 May 2013

Location: The Westin Chicago North Shore, Wheeling, Illinois, United States

Language: English

Organizer: Missouri S&T

Contact person: Kay Tillman

Address: Missouri S&T, Distance & Continuing Ed., 216 Centennial Hall, 300 W. 12th St., 65409, Rolla, MO, United States

Phone: 573-341-6222

Fax: 573-341-4992

E-mail: [7icchge@mst.edu](mailto:7icchge@mst.edu)

Website: <http://7icchge.mst.edu/>

### **The 1st International Symposium on Transportation Soil Engineering in Cold Regions**

Date: Thursday 10 October 2013 - Saturday 12 October 2013

Location: Qinghai Hotel, Xining, Qinghai Province, China

Language: English

Organizer: Beijing Jiaotong University, Qinghai Research Institute of Transportation

Contact person: Prof. Jiankun LIU

Address: School of Civil Engineering, Beijing Jiaotong University, 100044, Beijing, China

Phone: 86-13581986007

Fax: 86-10-51684096

E-mail: [jkliu@bjtu.edu.cn](mailto:jkliu@bjtu.edu.cn)

Website: <http://subgrade.sinaapp.com/>

## NON-ISSMGE SPONSORED EVENTS (Continued)

### **The Mediterranean Workshop on Landslides (MWL) - "Landslides in hard soils and weak rocks - an open problem for Mediterranean countries"**

Date: Monday 21 October 2013 - Tuesday 22 October 2013

Location: Partenope Conference Centre, Naples, Italy

Language: English

Organizer: Seconda Università di Napoli, Università di Napoli Federico II, Universitat Politècnica de Catalunya

Contact person: Emilia Damiano

Address: Dipartimento di Ingegneria Civile, Design, Edilizia e Ambiente - Via Roma 29, 81031, Aversa (CE), Italy

Phone: +39 081 5010207

Fax: +39 081 5037370

E-mail: [info@iwl.unina2.it](mailto:info@iwl.unina2.it)

Website: <http://www.mwl.unina2.it>

### **International Symposium on Advances in Foundation Engineering**

Date: Thursday 05 December 2013 - Friday 06 December 2013

Location: Furama Riverfront Hotel, Singapore

Language: English

Organizer: Geotechnical Society of Singapore

Contact person: Phoon Kok Kwang (Chair)

Address: Block E1A, #07-03, 1 Engineering Drive 2, Singapore 117576, Singapore

Phone: 65-65166783

Fax: 65-67791635

E-mail: [kkphoon@nus.edu.sg](mailto:kkphoon@nus.edu.sg)

Website: <http://rpsonline.com.sg/isafe2013/>

## 2014

### **8th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE14)**

Date: Tuesday 17 June 2014 - Friday 20 June 2014

Location: Delft University of Technology, Delft, The Netherlands

Language: English

Organizer: Prof. Michael Hicks

Contact person: Mrs. Hannie Zwiers

Address: Delft University of Technology, Faculty of Civil Engineering & Geosciences. Stevinweg 1, 2628, CN Delft, The Netherlands

Phone: +31 15 2788100

E-mail: [info@numge2014.org](mailto:info@numge2014.org)

Website: <http://www.numge2014.org>

FOR FURTHER DETAILS, PLEASE REFER TO THE WEBSITE OF THE SPECIFIC CONFERENCE

## NAUE COMPANY PROFILE (Corporate Associate)

NAUE is an ISO 9001 certified company and manufactures a full range of geosynthetics used in various applications and is present worldwide.

Within the hydraulic engineering and groundwater protection sector, Bentofix® geosynthetic clay liners, Terrafix® needle-punched staple fibre nonwoven geotextiles and Terrafix Soft Rock® sand containers are used. For landfill bases and caps, NAUE provides Carbofol® HDPE geomembranes, Bentofix® geosynthetic clay liners, Secutex® protection geotextiles and Secudrain® geosynthetic drainage systems.

In the civil engineering sector, Secutex® geotextiles, Secugrid® reinforcement geogrids and Combigrid® composite reinforcement geogrids are used to ensure soil stability and reduce the construction costs of roads and railways.

As well as manufacturing the full range of geosynthetics NAUE can also provide a full engineering design service by BBG - Bauberatung Geokunststoffe - to provide a confirmation that the appropriate materials will be used for any particular project.

For further information regarding our product portfolio, please visit our website [www.naue.com](http://www.naue.com), watch movies about projects of different engineering fields, read references about realised projects with geosynthetics, order your own information, chose from different brochures and leaflets and find contact details of our partners all over the world.

Landfills



Groundwater protection



Civil engineering



Tunneling



Waterproofing



Hydraulic engineering



NAUE GmbH & Co. KG  
Gewerbestr. 2  
D-32339 Espelkamp-Fiestel  
Germany  
Tel.: +49 5743 41 0  
Fax.: +49 5743 41 240  
e-mail: [info@naue.com](mailto:info@naue.com)  
website: [www.naue.com](http://www.naue.com)



## CORPORATE ASSOCIATE'S PAGE

### User-friendly click-on modules for A.P. van den Berg's digital cone (Icône)



**a.p. van den berg**  
*The CPT factory*

For already 45 years A.P. van den Berg has been active in the design and supply of advanced equipment for onshore, nearshore and offshore in-situ soil investigation. A.P. van den Berg can provide complete or partial systems including the pushing equipment, tools and data acquisition systems. A.P. van den Berg is recognized for its innovative strength and supplies proven technology with renowned brand names like Track-Truck, HYSON, Optocone, WISON-APB, ROSON and Icône. The head office is based in Heerenveen, The Netherlands. An extensive web of professional agents and representatives all over the world, market the knowledge and expertise of A.P. van den Berg.

To obtain detailed and accurate information about the subsoil, A.P. van den Berg developed the Icône; a digital cone, and Icontrol; a digital data logger. Nowadays, a complete picture of the soil is more and more required and different parameters must be measured. For example, it may be required to derive both the in-situ soil properties like porosity and density as the location of any unexploded explosives; or both the saltwater-carrying layers as the dynamic properties like electrical conductivity and stress. A.P. van den Berg responds to this trend with development of user-friendly click-on modules for the Icône to measure additional parameters.

#### The Icône and Icontrol

The Icône measures the four standard parameters: cone tip resistance ( $q_c$ ), sleeve friction ( $f_s$ ), pore water pressure ( $u$ ) and inclination ( $I_x/y$ ). Thanks to the entirely digital data transfer, the influence of cables or connectors on the measured data is a thing of the past. The unique Icône concept combines strength and reliability and provides excellent value for money. The Icône is mechanically 40% stronger than its predecessor, the analogue cone, and at the same time more accurate, more reliable and easier to maintain. Calibration data is stored in the cone itself, so USB sticks are no longer necessary. With a minimal investment, this high quality data acquisition system can also be integrated in existing CPT rigs.

#### Icône now extendable with click-on modules

Unlike the analogue system, the digital system has no limits to the amount of data transfer. This property is creating room for additional parameters, without changing cable or control box/data logger. The Icône is easily extendable with click-on modules to measure other than the four standard parameters. A click-on module is automatically recognized by the data logger so it's a true plug & play system. The following modules are already available:

	<p><u>Seismic</u></p> <ul style="list-style-type: none"> <li>- shear wave left, shear wave right and compression wave</li> <li>- elasticity modulus</li> <li>- poisson's ratio</li> </ul>		<p><u>Vane</u></p> <ul style="list-style-type: none"> <li>- soil investigation in very soft soils</li> <li>- undrained shear strength</li> <li>- remoulded shear strength</li> </ul>
	<p><u>Conductance</u></p> <ul style="list-style-type: none"> <li>- detection of sand/clay layers</li> <li>- tracking of saltwater-carrying layers</li> <li>- detection of contamination</li> </ul>		<p><u>Magnetometer</u></p> <ul style="list-style-type: none"> <li>- 3-dimensional detection of the magnetic field</li> <li>- detection of sheet piling, ground anchors and unexploded explosives</li> </ul>

For more information please contact us: [www.apvandenberq.com](http://www.apvandenberq.com) / [info@apvandenberq.com](mailto:info@apvandenberq.com) / +31 513 631355.

## Corporate Associates



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## Foundation Donors

The Foundation of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) was created to provide financial help to geo-engineers throughout the world who wish to further their geo-engineering knowledge and enhance their practice through various activities which they could not otherwise afford. These activities include attending conferences, participating in continuing education events, purchasing geotechnical reference books and manuals.

- Diamond: \$50,000 and above
  - a. ISSMGE-2010 <http://www.issmge.org/>



- Platinum: \$25,000 to \$49,999
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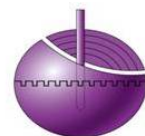
- b. Geo-Institute of ASCE  
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- c. Japanese Geotechnical Society  
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- k. TC 211 of ISSMGE for Ground Improvement  
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- l. TC302 of ISSMGE for Forensic Geotechnical Engineering  
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- m. Prof. Yoshinori Iwasaki [yoshi-iw@geor.or.jp](mailto:yoshi-iw@geor.or.jp) [www.geor.or.jp](http://www.geor.or.jp)



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## The ISSMGE Foundation Award Scheme

### INFORMATION FOR APPLICANTS

Dear Colleagues,

Please note that the Guidelines and Application Form for a bursary from the ISSMGE Foundation have recently been revised. The new Guidelines and Application Form are available from the website at: <http://www.issmge.org/en/issmge-foundation>, and should be used for all future applications. For your information, the new guidelines are reproduced in what follows.

#### BACKGROUND

The ISSMGE Foundation was created to aid individual ISSMGE members throughout the world to enhance their geotechnical engineering knowledge and practice by providing financial support for participation in technical and professional activities approved by the ISSMGE Foundation. There is no prescriptive list of admissible events and the Chair of the ISSMGE Membership, Practitioner, and Academicians Committee (MPAC) will consider all reasonable applications while taking into account the relevance to ISSMGE, and active rather than passive participation by the applicant.

#### GUIDELINES

1. Applications must be received at least 3 months before the date of intended travel or conference or other educational event for which an award is sought.
2. The deadlines for applications to be received by the ISSMGE Secretariat are:
  - 1 February
  - 1 May
  - 1 August
  - 1 November
3. Funds are awarded on a competitive basis at the discretion of the ISSMGE Foundation Award Panel which is a subcommittee of the ISSMGE MPAC.
4. Applicants are expected to demonstrate on their application form the professional benefit to be gained by participation in the ISSMGE related activity.
5. The maximum award is USD2000 though usually much smaller awards will be made. It is expected that the applicant will be able to cover some of the costs of the ISSMGE activity from other sources such as grants from their educational institution or from their employer or from their ISSMGE Member Society. The magnitude of any award will take into account the relative wealth of applicant's ISSMGE Member Society.
6. A successful applicant will not be eligible for another award until a minimum of two years has lapsed.
7. Awards will be paid after the event and upon receipt of proof of expenses. Payments will be made by bank transfer to an account specified by the applicant. It is the applicant's responsibility to ensure that arrangements are in place for receipt of the award.
8. The applicant should take all reasonable steps to collect receipts etc. and provide evidence to the ISSMGE Secretariat that the award was used for the purpose originally specified on the application.

## The ISSMGE Foundation Award Scheme

### INFORMATION FOR APPLICANTS (Continued)

#### PROCESS

##### *Applying for an ISSMGE Foundation Award:*

Applicants should first read carefully the guidelines for applying to the ISSMGE Foundation Award Scheme. The criteria for evaluating an application will be:

- a. Demonstration of a need
- b. Quality of the activity
- c. Cost sharing
- d. Broad impact
- e. The amount requested

The application form should be completed in full, taking particular care to provide evidence of why an award is needed, what is special about the conference or other event being attended what technical or professional benefit is likely to accrue from attendance, and what other sources of funding have been explored.

##### *After submission of the application:*

The ISSMGE Secretariat will forward to the ISSMGE Foundation Award Panel the application received by the dates given in the Criteria above. These dates will be strictly adhered to. The ISSMGE Foundation Award Panel will report its decisions on awards to the ISSMGE Secretariat within one month of their receipt of applications.

##### *Notification of outcome:*

The ISSMGE Secretariat will pass on the decisions to applicants. Thus an applicant can expect to receive a decision within a maximum of 2 months after the date at which their application is forwarded to the ISSMGE Foundation Award Panel.

##### *Payment of the Award:*

Awards will be paid after the event and upon receipt of proof of expenses. Payments will be made by bank transfer to an account specified by the applicant. It is the applicant's responsibility to ensure that arrangements are in place for receipt of the award.

##### *Reporting on the benefits to the applicant of receiving the Award:*

Foundation grant beneficiaries are required to submit a report to the MPAC. This will include a short 500-word article suitable for publication on the ISSMGE website and Bulletin, and should demonstrate the technical and professional benefits gained.

## REPORT TO ISSMGE FOUNDATION ON CONFERENCE ATTENDANCE

Abdolreza (Reza) Osouli, Southern Illinois University Edwardsville, USA

Conference title: 2013 GeoCongress "Stability and Performance of Slopes and Embankments III"  
San Diego, CA, March 3-7, 2013

This conference built upon the past ASCE Geo-Congresses in 1966 and 1992 conferences focusing on the stability and performance of slopes and embankments. This conference addressed important issues and advances in the design and analyses of slopes and embankments. It had fewer concurrent technical sessions to allow participants to benefit more from lectures.

The conference started on Sunday March 3rd with offering courses which were followed by the Welcome Session and H. Bolton Seed Lecture. This lecture was provided by Prof. Stephen Wright where he reviewed four slope stability examples and he emphasized understanding basic soil mechanics principles. On Monday March 4th, Opening Plenary was presented by Prof. Michael Duncan where he compared the current and past practices in slope stability analyses and emphasized appropriate shear strength selection. The Ralph B. Peck award lecture was presented by Prof. Jonathan Bray which was followed by two panel and technical sessions. In the afternoon the GeoWall, GeoPrediction, and GeoPoster student competitions were held concurrently with honorary symposia for Prof. Robert Holtz and Prof. Kulhawy. On Tuesday and Wednesday two concurrent Plenary Sessions were followed by panel and technical session until evening. Terzaghi Lecture was presented by Prof. Skip Hendron on Tuesday evening where he reviewed lessons learned from case histories. The Hero and Awards Luncheon was held on Tuesday and Prof. C. Ladd was selected Hero due to his contribution in the last decades.

There were several networking breaks during the conference that conference attendees could meet and exchange ideas and continue discussions related to the technical sessions. The exhibit hall was full during the lunch times as attendees were dining and visiting the expansive array of vendor exhibits.

More than 228 papers were presented at the GeoCongress 2013 related to liquefaction analysis for slopes and embankments, soil slope modelling, unsaturated soil mechanics, slope stabilization, design, analysis and performance of soil slopes, laboratory characterization of fully softened shear strength, risk assessment, desiccation cracking and tensile strength, field characterization of soil and rock, seepage and slope stability, ground improvement, monitoring and remote sensing.

This conference provided me an excellent opportunity to meet leaders of academia and industry in the field of geoenvironmental engineering. I was able to talk to many potential research collaborators. I also participated in the committee meetings to be closely in touch with other researchers and contribute to the research and educational goals of Geo-Institute in the years to come.

I would like to thank ISSMGE foundation for their sponsorship.

## REPORT TO ISSMGE FOUNDATION ON CONFERENCE ATTENDANCE (Continued)



Photo 1 - H. Bolton Seed Lecture by Prof. Stephen Wright



Photo 2 Entrance to Exhibit Hall

## REPORT TO ISSMGE FOUNDATION ON CONFERENCE ATTENDANCE (Continued)



Photo 3 - Conference attendees in the Exhibit Hall



Photo 4 From left to right: Prof. Robert Holtz, Prof. Abdolreza (Reza) Osouli, Prof. Jean-Louis Briaud during the Welcome Reception in the Exhibit Hall



## ISSMGE's International Journal of Geoengineering Case Histories

### CALL FOR PAPERS for the ISSMGE Case History Journal

The International Journal of Geoengineering Case Histories (IJGCH) is an official journal of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and Geoengineer.org, focusing on the publication of well- documented case histories. The journal is the ONLY refereed journal focusing exclusively on geoengineering practice and has many unique features.

#### Topics of Interest

The IJGCH covers the broad area of practice in geoengineering. Researchers and practitioners worldwide are invited to submit their paper related to Soil Mechanics, Engineering Geology, Geotechnical Earthquake Engineering, Soil Dynamics, Geoenvironmental Engineering, Deep and Shallow foundations, Retaining structures, Deep Excavations, Rock Mechanics, Tunneling, Underground structures, Applications of Geosynthetics, Landslides and Slope Stabilization, Dam engineering and embankments, Special Geotechnical Structures, Forensic engineering, Applications of Constitutive Modelling, Landfill engineering, Reconnaissance of Natural Disasters, Geotechnical Aspects of Monuments and Historic Sites.

#### 5 top reasons to submit a case history paper for publication in the Case Histories Journal:

1. Expedited Review and Publication. High quality submittals may be reviewed and published within only 3 months!
2. Wide circulation. All published papers are widely circulated to thousands of readers and available online for digital download at no cost.
3. All case histories papers are also positioned in GeoMap ([www.mygeoworld.info/pg/map](http://www.mygeoworld.info/pg/map))
4. Colored figures and electronic data are included in all papers.
5. Your paper will be eligible for the "Outstanding Paper in the International Journal of Geo-Engineering Case Histories Award" awarded by ISSMGE. This is a new award to recognize the best paper in this ISSMGE Journal on a bi-annual basis and the first will be presented at the 18th International Conference for Soil Mechanics and Geotechnical Engineering in Paris, France, 2-5 September 2013.

*The Case Histories journal is funded by our sponsors GEI Consultants, Inc. & Zetaş Zemin Teknolojisi A.Ş..*

To learn more about ISSMGE's Case Histories Journal and submission guidelines, visit:

<http://casehistories.geoengineer.org>.

#### From the editor of ISSMGE Bulletin

There is some confusion about case-history articles in this fantastic journal and those in Bulletin. As the editor of Bulletin, I would clarify the differences between them. Bulletin is something like a magazine that emphasizes simplicity, clarity, and speed. Hence, there is no peer review and I do my best to improve the submitted draft quickly so that the readers may get the latest information from the article. The articles are usually short and nice photographs are considered important. In contrast, the International Journal of Geoengineering Case Histories seeks for high quality as an academic journal with good peer reviews. Thus, the two publications of ISSMGE are different but work together as evidenced by many Bulletin articles that are invited to be re-submitted to the journal after their quality is improved and more information is added.

## FROM THE EDITOR

### NEW TIMES OF PUBLICATION FROM 2013

Dear colleagues,

The Bulletin has made a minor change in the time of publication. It was formerly published at the end of months of even numbers such as February, April, etc. Considering the difficulty in publishing it at the end of December, the Bulletin is now going to be published at the end of odd-number months such as January, March, etc. Because the December Issue of 2012 was distributed in early January, 2013, the first issue of 2013 was decided to be published at the end of March after some reasonable time span as a combination of January and March Issues. Thus, this is Number 1-2 of the Bulletin in 2013. Because of some time difficulties, I could not prepare a technical article. I apologize for your disappointment.

### Invitation to submission of article to ISSMGE Bulletin

ISSMGE Bulletin always welcomes contribution from readers who are interested in submitting technical and event articles. The number of subscribers in the world is more or less 19,000.

Bulletin is not an academic journal. It aims to increase the interest of readers in what are going on at the earth's surface as an interaction between human and our planet. Examples of desired type of articles in recent issues have addressed "*Soil Improvement under New Levees in New Orleans*," "*Development of New Cone Penetrometer*," "*Harbour Construction in Australia*" and "*Preliminary Understanding of the 1255 Seti River Debris-Flood in Pokhara, Nepal*" as well as "*Development of Small-Scale Exciter for Condition Rating of Retaining Structures*" among many others. For more idea, you can freely download past issues of the bulletin from the website of ISSMGE:

<http://www.issmge.org/web/page.aspx?refid=430>

In particular, the editor is waiting for submission on recent great technical achievements such as foundation of big buildings under difficult natural conditions and tunneling through Alps, for instance.

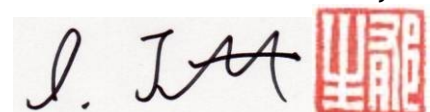
Because the Bulletin is an electronic publication, there is no page limitation. Color photographs and illustrations are highly welcome. Moreover, you can submit draft by a WORD file and there is no fixed format; the editing team will take care of formatting.

There is no fixed due date of submission. Submission is certainly free of charge. There is no peer review because the bulletin is not an academic journal but a newsletter. Only one request to authors is that the article has to be clear and easily understandable for practitioners. It is very advisable to use nice photographs and illustrations.

I am happy to acknowledge the support provided by the editorial board member, Dr. Marcelo Gonzalez to bring out this issue of the Bulletin.




I would like to express my sincere thanks for you to consider this invitation in a positive manner and send me a reply at your earliest convenience. Please take this good opportunity to demonstrate to the world THAT YOU ARE VERY GOOD.

Yours sincerely



Ikuo Towhata

## NEW BOOKS from Institution of Civil Engineers

	<p>Title: Partial Saturation in Compacted Soils (Geotechnique Symposium in Print 2011)          Publication Date: 2013/2/22          Edited by Gallipoli, Domenico          Price: £60.00          Number of pages: 210          Geotechnique Symposium in Print 2011: The theme of this symposium blends together two areas of research which relate to the effects of suction and partial saturation on soil behaviour and the study of compaction as a method of soil improvement.</p>
	<p>Title: Effective Site Investigation; Site Investigation in Construction Series, 2nd edition          Publication Date: 2013/2/13 Authors: Site Investigation Steering Group          Price: £37.50 Number of pages: 94          Effective Site Investigation provides an introductory guide to accepted best practice for site investigations, both for construction professionals such as civil and structural engineers, builders and architects, and for their clients. The second edition represents a major revision and extension of the series with the aim of bringing together the whole site investigation industry and is intended for general application to all ground investigation work.</p>
	<p>Title: ICE Manual of Project Management          Publication Date: 2013/5/27 Authors: ICE          Price: £150.00 Number of pages: 444          Offering clear and accessible guidance on how practitioners can apply the key principles and standards in practice, the ICE Manual of Project Management provides a thorough introduction to the key processes involved in civil projects. It discusses the range of skills and techniques that project managers working in a construction context will need to employ in order to plan and deliver projects successfully in accordance with prevailing international standards.</p>
	<p>Title: Guidance for Safe Investigation of Potentially Contaminated Land (Site Investigation in Construction Series, 2nd edition)          Publication Date: 2013/6/8          Authors: Site Investigation Steering Group Price: £30.00          Number of pages: 64          This new edition is up-to-date with the many advances and regulatory changes affecting ground investigation, particularly in respect of contaminated ground, dealing with waste materials and different investigatory techniques, since the publication of the first edition.</p>
	<p>Title: Environmental Geotechnics, Second edition          Publication Date: 2013/7/3 Authors: Sarsby, Robert W.          Price: £100.00 Number of pages: 496          Environmental Geotechnics, 2nd edition provides engineers with an overview of the key aspects of the environmental interface with the construction industry and discusses a variety of geotechnical topics. It includes new coverage of geothermal energy and material on the use of natural/renewable materials in construction, e.g. timber, geosynthetics, vegetable fibres.</p>

## MESSAGE from Géotechnique Letters

Géotechnique Letters is committed to the rapid international dissemination of the latest and most innovative geotechnical research and practice. As a benefit to the community, the Advisory Panel of the journal is making the best paper from each quarter of the journal's first two years free to all.

To read these eight best-papers click here:

<http://www.icevirtuallibrary.com/info/EditorsPickGeoletters>

### Best papers from Volume 1, 2011

- A compression line for soils with evolving particle and pore size distributions due to particle crushing, by A R Russell
- The use of adaptive finite-element limit analysis to reveal slip-line fields, by C M Martin
- A simplified mechanically based model for predicting partially drained behaviour of penetrometers and shallow foundations, by G T Houlsby and M J Cassidy
- Open-mode discontinuities in soils, by H Shin and J C Santamarina

### Best papers from Volume 2, 2012

- Laboratory measurement of strength mobilisation in kaolin: link to stress history, by P J Vardanega, B H. Lau, S Y Lam, S K Haigh, S P G Madabhushi and M D Bolton
- Linking cone penetration resistances measured in calibration chambers and the field, by M Pournaghiazar, A R Russell and N Khalili
- 3D assessment of fracture of sand particles using discrete element method, by M B Cil and K A Alshibli
- Simulating pressure-induced compaction by grain rearrangement, by C M Sands and H W Chandler

Best wishes

Ben Ramster, on behalf of the Editor - Professor Matthew Coop, City University of Hong Kong