

NEWS ON RECENT CONFERENCES

THE INTERNATIONAL SEMINAR ON CONSTRUCTION ON WEAK ROCKS

Dr. Hussein Elarabi - Secretary of SSSMGE
Eng. Mohamed A. Bagi Mahmoud Taha - Member of SSSMGE

The Sudanese Society for Soil Mechanics and Geotechnical Engineering (SSSMGE) was established in Sudan in 1986 to promote cooperation among engineers and scientists for the advancement of knowledge in the field of soil mechanics and its practical applications.

Sudan has experienced considerable development during the last two decades and several large civil engineering projects have been executed in the country. The projects included dams on the River Nile and its tributaries, thousands of kilometers of highways, bridges across the Niles and industrial projects including oil exploration and export facilities. All these projects required intensive geotechnical investigations, material searches and evaluation and consultancy in the related fields. Local experts were involved in most of these projects and a great deal of experience was gained from these projects. It is interesting to mention



that most of the challenges regarding compliance with scheduled construction time, performance and cost were related to the geotechnics of the mentioned projects. Many of these projects were founded on weak rocks (sandstone, mudstone and calcareous deposits). The challenges of design and construction on these formations is known and realized worldwide.

The idea of organizing this seminar was initiated during the 17th ICSMGE2009 in Alexandria by Prof Pedro Pinto. Then, the idea was given the utmost attention by the Geotechnical Department of Building and Road Research Institute, University of Khartoum and the members of SSSMGE for the sake of resurrecting the SSSMGE and spotlights the importance of the society in solving the major geotechnical problems in Sudan among which is the construction on weak rocks. This seminar is intended to improve our understanding on this topic.

The International Seminar on Construction on Weak Rocks took place at the Presidential Hall in the Friendship Hall that is located in the city of Khartoum from July 29th to July 1st. This event was organized under the auspices of the Soil Mechanics and Geotechnical Engineering (SSSMGE) in conjunction with ISSMGE in which Prof. Pedro S. Pinto played major roles. It was intended to resurrect the Sudanese Society and to spotlight the importance of the society in solving the major geotechnical problems in Sudan. This seminar attracted 184 participants. The event was organized and advised by the following committees:

The ORGANIZING COMMITTEE

Chairman: Dr. El Fatih M. Ali, President of SSSMGE, General Manager of Engineering Service and Design, Khartoum, Sudan

Secretary: Dr. Hussein Elarabi, Secretary of SSSMGE, Head of Geotechnical Engineering Department, BRRI, University of Khartoum, Sudan.

Members: Dr. Ahmed M. Elsharief, Dr. Mohamed A. Osman, Dr. Abdel Kareem M. Zein, Eng. Omer Gurham, Eng. Adil Abdalla, Eng. Rasha Abu Elgasim, Eng. Bashir Osman, Eng. Moh. ElBaiyhagi Elgizoli

NEWS ON RECENT CONFERENCES (Continued)

The ADVISORY COUNCIL

Prof. J.L. Briaud ,ISSMGE President
Prof. Pedro S. Pinto, ISSMGE Past President
Prof Samuel Ejezie, ISSMGE Vice President for Africa
Prof. Fatma Baligh ISSMGE forthcoming Vice President for Africa

The opening ceremony commenced with recitation of few verses from Holy Quran. Afterwards, a speech was given by President Jean. L. Briaud, followed by Prof. Pedro S. Pinto (ISSMGE Immediate Past President) and Prof. Samuel Ejezie (ISSMGE Vice President for Asia). Then a welcoming speech was given by the President of the Sudanese Society, Dr. Eng. Elfatih Mohamed Ali. Also, a speech was given by the representative of the Governor of State of Khartoum - Minister of Physical Planning and Infrastructure Eng., Alrasheed Osman Fageery. Later, his Excellency the Vice - President of Sudan Dr. Eng. Elhaj Adam Yousif gave his speech, in which he mentioned the vital role of soil mechanics and geotechnical engineering in the construction industry. At the end, a speech was given by Prof. Askar Zhussupbekov and his Excellency the Vice - President of Sudan Dr. Eng. Elhaj Adam Yousif exchanged gifts with the foreign experts and posed with them for group photo.

The invited lectures were delivered as what follows;

1. Prof. Jean-Louis Briaud (President of ISSMGE) “Unsaturated soil behavior for the practicing engineer” and “Shrink - swell soils and the design of foundation for light building”
2. Prof. Pedro S. Pinto (Past President of ISSMGE) “Railway old station building: enlargement and underpinning” and “Lessons learned from two landslide case histories”
3. Prof. Samuel Ejezie (Vice President of ISSMGE for Africa) “Behavior of lateritic soils in engineering construction tropical Africa” and “Vibration transmission in lateritic soils of the tropical region of Africa”
4. Prof. Askar Zhussupbekov ISSMGE Vice President for Asia) “Geotechnical construction on weak rock ground of new capital Astana Kazakhstan” and “Analyses of the settlement of pile foundations under weak rock conditions of Astana”
5. Prof. Antonio Bobet (Purdue University, USA) “Deformation and failure of soft rocks: a model for shales” and “Propagation and coalescence of frictional discontinuities”
6. Prof. Fatima Baligh (ISSMGE forthcoming Vice President for Africa) “Deep vibratory compaction method”
7. Dr. Mohamed A. Osman (Past Director of the Building and Road Research Institute, University of Khartoum, Sudan) “Weak rocks in Sudan origin, distribution and some geotechnical properties”
8. Dr. Ahmed M. Elsharief (Treasurer of ISSMGE, Director of Building and Road Research Institute, University of Khartoum) “Design and construction practices of piers in Nubian Sandstone Formation”

A round-table discussion took place on the second day on “Construction on Weak Rocks - Challenges and solutions.” The third day offered the guests a field visit sponsored by the Dams Implementation Unit (DIU) to the Dam Complex of Upper Atbara and Setit which is currently under construction. All site visitors assembled at Khartoum International Airport where a twin engine Fokker plane was ready to departure. The plane took off from Khartoum with 50 Passengers on board at 7:00am and the flight took about 50 minutes to reach Alshowak airstrip. Many presentations were given to the visitors at site. These followed by a visit to all ongoing construction activities in the site. The visit lasted for three hours where the participants expressed great pleasure and joy to witness a project with such magnitude.

NEWS ON RECENT CONFERENCES (Continued)

Photographs taken during the conference are presented below.



Photo 1 Reception of ISSMGE members



Photo 2 Group photograph of participants

NEWS ON RECENT CONFERENCES (Continued)



Photo 3 Session on-going



Photo 4 Dinner at Al-Saha Restaurant



Photo 5 GALA Dinner at Dar Al-Naft

NEWS ON RECENT CONFERENCES (Continued)



Photo 6 Dinner at Carinthia Hotel



Photo 7 Technical tour

NEWS ON RECENT CONFERENCES (Continued)

2nd International Symposium on Geotechnical Engineering for the Preservation of Monuments and Historic Sites - Napoli, Italy

Emilio Bilotta, Università di Napoli Federico II

The conservation of monuments and historic sites is one of the most challenging tasks of modern civilization. It involves a number of factors belonging to different fields (technical, economical, administrative), intertwining in inextricable patterns. In practice an acceptable equilibrium is linked to the development of a shared vision.

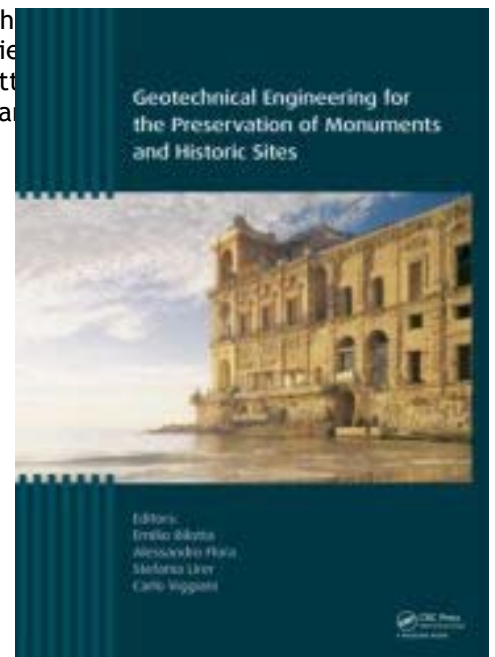
The International Society for Soil Mechanics and Geotechnical Engineering contributed to this development by an ad hoc Committee (former TC 19, now TC301- Preservation of Historic Sites)

The Technical Committee TC301 and the Italian Geotechnical Society (AGI), under the auspices of ISSMGE, have organized in Napoli (Italy) the 2nd International Symposium on Geotechnical Engineering for the Preservation of Monuments and Historic Sites on 30th-31st May 2013.

It was a great opportunity for more than 130 delegates of comparing experiences, presenting important achievements and new ideas, establishing fruitful links.

The [Proceedings Volume](#), with more than 80 papers and 4 Special Lectures, has been published by CRC Press.

Here are a few pictures of the Symposium:



Carlo Viggiani, Stefania Lirer, Emilio Bilotta, Alessandro Flora (Editors of the Proceedings Volume, University of Napoli Federico II)

NEWS ON RECENT CONFERENCES (Continued)



Carlo Viggiani (TC301 chair)



Jean-Louis Briaud (ISSMGE President).
(photo courtesy of Nicoleta Ilies)



Carlo Viggiani, Yoshinori Iwasaki (TC301 co-chair), Mike Jamiolkowski (past ISSMGE President), Stefano Aversa (AGI President) Jean-Louis Briaud (ISSMGE President). *(photo courtesy of Yoshi Iwasaki)*

NEWS ON RECENT CONFERENCES (Continued)

TC 215 CPEG 2013 - COUPLED PHENOMENA IN ENVIRONMENTAL GEOTECHNICS

The International Symposium on Coupled Phenomena in Environmental Geotechnics (CPEG): from theoretical to experimental research to practical applications was held in Torino (Italy) from the 1st to the 3rd of July 2013. The Symposium, organized by the Italian Geotechnical Society (AGI: Associazione Geotecnica Italiana), was part of the activities of Technical Committee TC 215 of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) "Environmental Geotechnics" for the term 2009-2013 and was hosted by Politecnico di Torino.

Environmental Geotechnics deals with a wide variety of applications, such as the characterization of polluted sites and landfill waste, the design of containment systems for subsoil pollutant control, radioactive waste disposals, geo-energy exploitation and bacteria-driven soil modification, among others. In order to obtain reliable and effective predictions of the actual behavior and performance of these very complex systems, theoretical and experimental research and advanced design procedures need to take into account coupled hydro-bio-chemo-mechanical phenomena occurring at very different scales. Further progresses in the scientific state of the art and substantial advancements in the standard practice are then closely related to the development of a shared knowledge among different disciplines. The extension and refinement of theoretical modeling and experimentation capabilities stimulated by geo-environmental applications provide more in general the framework for substantial advancements in the fields of soil and rock mechanics.

The International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) contributes to these developments with the activities of an ad hoc Committee (TC 215 - Environmental Geotechnics - formerly TC 5). The committee was established under the ISSMGE presidency of Prof. M. Jamiolkowski (1994-1997) and it has been very active since then. A number of very lively conferences, symposia and workshops have been organized culminating in the 6th Edition of the International Conference on Environmental Geotechnics (TC 215 - ICEG) held in New Delhi, India (2010).

The conference was conceived as an opportunity for discussion and sharing of knowledge, skills and front edge research activities in the field. By including contributions coming not only from the geotechnical community, but also from related and complementary disciplines, the conference gathered new experimental evidence, contributions to theoretical developments and innovative applications. Kerry Rowe, Antonio Gens and Majid Hassanizadeh presented outstanding keynote lectures. The conference was then organized in 9 sessions devoted to specific topics of Geotechnical Engineering. Four sessions of the symposium dealt with landfills: waste characterization, stability problems, lining and capping systems. Three sessions were devoted to polluted sites and their interaction with aquifers both in terms of characterization and remediation strategies. The remaining two sessions focused on the emerging topics of energy issues and bio-chemical processes. Each session included a general report, a specific lecture and a session report, as well as a lively floor discussion on the contributed papers animated by a discussion leader. A list of the sessions and general reporters is provided below.

The Proceedings, published by CRC Press, collect 21 invited papers and 61 contributed papers, covering a wide range of fundamental and applied research on the topics of geo-environmental engineering.

We wish to thank all the participants for their invaluable contribution and for their enthusiasm, which was undoubtedly the key element for the success of the event.

On Behalf of the Organizing Committee

Mario Manassero, Andrea Dominijanni, Sebastiano Foti, and Guido Musso

NEWS ON RECENT CONFERENCES (Continued)

List of the sessions:

Session	General Reporter
1. Landfill bottom and sides lining systems	C. Shackelford
2. Landfill waste characterization	W. Powrie
3. Stability and settlement analysis of landfills and natural slopes	D. Zekkos
4. Linings for radioactive waste and capping systems for landfills and polluted sites	C. Benson
5. Underground energy issues	L. Laloui
6. Natural and anthropogenic bio-chemical processes within soils and rocks	J.D. DeJong
7. Characterization of polluted sites and related aquifers	P. Delage
8. Degradation, extraction and inerting systems for the reclamation of polluted sites	K.R. Reddy
9. Active and passive barriers for polluted sites	K. Soga and J. Evans



Opening session of CPEG 2013 in the auditorium of Politecnico di Torino



CPEG 2013 Social Dinner at the Circolo dei Lettori of Torino

NEWS ON RECENT CONFERENCES (Continued)

IGS INCHEON 2013 “International Geotechnical Symposium on Geotechnical Engineering for Disaster Prevention & Reduction, Environmentally Sustainable Development”

The fifth international geotechnical symposium (IGS-Incheon 2013) hosted by the Korean Geotechnical Society (KGS) in Korea was held in Incheon, Republic of Korea during May 22nd - 24th, 2013. The symposium had the participation of 83 visitors from 18 different nations and 150 of members of KGS. This symposium took place over three days in Incheon National University under the auspices of ATC 3 (Natural Hazards) and ATC 10 (Urban Geo-Information) of the ISSMGE. It was also dedicated to celebrate the hosting city of office for Green Climate Fund (GCF) in Incheon under the organization of the United Nations.

In the Opening ceremony, Dr. Sungeul Choi (President of Incheon National University), Mr. Myong U Jo (Vice Mayor of Incheon Metropolitan City), Dr. Seungho Lee (President of Korean Geotechnical Society) and Prof. Askar Zhussupbekov (ISSMGE VP for Asia, Kazakhstan) delivered congratulatory addresses. Finally, Prof. Eun Chul Shin (Chairman of the symposium) gave welcome address and introduced Prof. Samuel Uche Ejezie (ISSMGE VP for Africa, Nigeria), Prof. Vyacheslav Ilichev (President of Russian Geotechnical Society, Russia) and other major participants (Photo 1-Photo 6).



Photo 1. Congratulatory Address (Dr. Sungeul Choi, President of Incheon National University)



Photo 2. Congratulatory Address (Mr. Myong U Jo, Vice Mayor of Incheon Metropolitan City)

NEWS ON RECENT CONFERENCES (Continued)



Photo 3. Congratulatory Address (Dr. Seungho Lee, President of Korean Geotechnical Society)



Photo 4. Congratulatory Address (Prof. Askar Zhussupbekov, ISSMGE VP for Asia)



Photo 5. Award Ceremony (Prof. Askar Zhussupbekov and Prof. Eun Chul Shin)



Photo 6. IGS Incheon 2013 Proceeding Book Presenting Ceremony

During the symposium, five keynote lectures and four technical themed sessions including 5 theme lectures were delivered. The symposium presented 89 refereed papers which were classified into four main disciplines such as Geo-monitoring, Geotechnical Engineering, Geoenvironmental Engineering, and Climate Change. Some social programs for accompanying persons also were organized in the form of local tours.

NEWS ON RECENT CONFERENCES (Continued)

At first, two keynote lectures and invited lecture were delivered in the morning time. Keynote lectures were given by Prof. Ikuo Towhata entitled “Protection of underground lifeline from seismic liquefaction problems” and Prof. Vyacheslav Ilichev entitled “The new road tunnel in water-saturated sand under existing road and subway tunnels in Moscow”. The invited lecture on celebration of hosting city for GCF was given by Mr. Tae Il Han (Director of Environment Greenery Bureau, Incheon Metropolitan City). In the afternoon two theme lectures in each session were delivered. Theme lectures were given by Prof. Askar Zhussupbekov entitled “Geotechnical experiences of Chernobyl nuclear power plant disaster and the consequences of disaster in Japan and Kazakhstan” and Prof. Samuel Uche Ejezie entitled “Propagation of vibrations in lateritic soils of the humid tropical region” (Photo 7 - Photo 10).



Photo 7. Keynote Lecture (Prof. Ikuo Towhata, Elected ISSMGE VP for Asia)



Photo 8. Keynote Lecture (Prof. Vyacheslav Ilichev, President of Russian Geotechnical Society)



Photo 9. Invited Lecture (Mr. Tae Il Han, Director of Environment Greenery Bureau, Incheon Metropolitan City)



Photo 10. Theme Lecture (Prof. Samuel Uche Ejezie, ISSMGE VP for Africa)

NEWS ON RECENT CONFERENCES (Continued)

On the second day, three keynote lectures and theme lectures were presented by Prof. Tadatsugu Tanaka (President of Japanese Society of Dam Engineering, Japan), Prof. Yeon Soo Jang (Former President of KGS, Korea), Prof. Roberto Terzariol (ISSMGE VP for South America, Argentina), Prof. Takaji Kokusho (Chuo University, Japan), Prof. Hemanta Hazarika (Kyushu University, Japan), and Prof. Dong Soo Kim (KAIST, Korea) (Photo 11 - Photo 16).



Photo 11. Keynote Lecture (Prof. Tadatsugu Tanaka, President of Japanese Society of Dam Engineering)



Photo 12. Keynote Lecture (Prof. Yeon Soo Jang, Former President of KGS)



Photo 13. Keynote Lecture (Prof. Roberto Terzariol, ISSMGE VP for South America)



Photo 14. Theme Lecture (Prof. Takaji Kokusho, Chuo University)

NEWS ON RECENT CONFERENCES (Continued)



Photo 15. Theme Lecture (Prof. Hemanta Hazarika, Kyushu University)



Photo 16. Theme Lecture (Prof. Dong Soo Kim, Korea Advance Institute of Science).

In the Closing ceremony, Prof. Boominathan Adimoolam (Indian Institute of Technology Madras, India) presented the next venue for the Sixth International Geotechnical Symposium. It will take place in Chennai, Madras India in January 2016 (email, boomi@iitm.ac.in). Finally, Prof. Dong Soo Kim (Chair bidding committee for 19th ICSMGE) delivered a message with regard to bidding to host ICSMGE 2017 Seoul-Korea (website, <http://www.kgshome.org/icsmge2017/invitation.asp>) (Photo 17 - Photo 19).



Photo 17. Next Venue for 6th IGS India 2016 in Chennai (Prof. Boominathan Adimoolam, Indian Institute of Technology Madras, India)



Photo 18. Message for Bidding to Host ICSMGE 2017 (Prof. Dong Soo Kim, Chair Bidding Committee for 19th ICSMGE)

NEWS ON RECENT CONFERENCES (Continued)



Photo 19. Group Photograph taken after the Closing Ceremony

The welcome reception and banquet were held in the faculty office building in Incheon National University with a small music concert played by professional opera singers and performance of Korean traditional music instruments (Nong-ak) which is an instrumental music of peasants (Photo 20 ~ Photo 23).



Photo 20. Opera Songs for IGS Incheon 2013 Banquet



Photo 21. Nong-ak Performance with Traditional Music Instrument

NEWS ON RECENT CONFERENCES (Continued)



Photo 22. Greeting to participants (Prof. E. C. Shin, Chair of IGS Incheon 2013)



Photo 23. Participants (Prof. Tugba Eskisar, Mrs. Atala, Prof. Cavit Atala, Prof. Ivan Alferov, Dr. Sreng, Mr. Kobayashi, Mr. Matsumoto, from left)

On the final day, delegation visited the Compact City which is a public information building of Incheon Free Economic Zone Authority and the Incheon metro construction site (Hanyang Construction Co., Ltd.) for a field trip (Photo 24, Photo 25).

In the afternoon, participants visited Chang Deok Gung which was designated as UNESCO's World Culture Heritage in February 1997 and Cheong Gye Cheon water stream which was restored and flows from west to east into downtown of Seoul (Photos 26 and 27).



Photo 24. Photograph in Field Trip (Hanyang Construction Co., Ltd., Incheon)



Photo 25. Incheon Metro Construction Site by Korean Tunneling Technology, TRcM

NEWS ON RECENT CONFERENCES (Continued)

Photo 26. Photograph in Chang Doek Gung, UNESCO's World Culture Heritage, Downtown of Seoul



Photo 27. Photograph in Cheong Gye Cheon, New Drainage System, Downtown of Seoul

The Korean Geotechnical Society is glad to take a role in promoting friendship between Korea and ISSMGE. We hope to soon attend the next International Geotechnical Symposium 2016 in India. Moreover, the KGS hopes to establish a friendly relationship with other nations and academic societies. We heartily wish you to contact us and visit Korea in the near future.

NEWS ON RECENT CONFERENCES (Continued)

The 1st Taiwan-Kazakhstan Joint Workshop on Geotechnical Engineering

Der-Wen Chang, CTGS Secretary

The 1st Taiwan-Kazakhstan Joint Workshop on Geotechnical Engineering was held in Taipei, Taiwan at Tamkang University (TKU) on May 27, 2013. The theme of the conference was *Advances in Geotechnical Engineering*. With the organization of the Chinese Taipei Geotechnical Society (CTGS) and the supports from the National Science Council of ROC and TKU, one-day plenary sessions consisting of two keynote lectures and seventeen invited lectures were scheduled. ISSMGE VP for Asia, Prof. Askar Zhussupbekov, and Dr. Siu-Mun Woo delivered the keynotes for Kazakhstan Geotechnical Society (KGS) and CTGS, respectively. The delegates from KGS were formed by fourteen people led by Prof. Askar Zhussupbekov. Among them, three renowned scholars (Prof. Tadatsugu Tanaka, Prof. Yoshinori Iwasaki and Prof. Tatsunori Matsumoto) were from Japan. Nine delegates representing for CTGS were led by the CTGS President, Prof. Yung-Show Fang at National Chiao Tung University. Excellent presentations and good discussions were made. Approximately 80 people from CTGS attended the workshop. It was a very successful workshop in exchanging the research experiences and geotechnical technologies used in the societies. More importantly, the workshop initiated a good friendship between CTGS and KGS. On May 28 and 29, the KGS delegates toured to visit the Taipei Metro subway system construction site and the National Center for Research on Earthquake Engineering. The next workshop is scheduled in Astana, Kazakhstan, in 2015. Photos taken during the workshop are shown as follows.



The opening ceremony



Token to Prof. Zhussupbekov by CTGS President Prof. Fang



Lecture delivered by CTGS President Prof. YS Fang on "Double-o-tube shield tunneling in Taoyuan International Airport MRT project"



Lecture "When ground anchors become rusty" delivered by Prof. HJ Liao at NTUST

NEWS ON RECENT CONFERENCES (Continued)



Welcome banquet (1)



Welcome banquet (2)



NCREE laboratory tour



NCREE briefing and discussions



Tour to Taipei MRT construction site

NEWS ON RECENT CONFERENCES (Continued)

PILE-2013 International Conference on STATE OF THE ART OF PILE FOUNDATION AND PILE CASE HISTORIES

The PILE-2013 International Conference on State of the Art of Pile Foundation and Pile Case Histories was successfully held in Bandung, INDONESIA during June 2-4, 2013. This event was hosted by Civil Engineering Department of the Faculty of Engineering, Parahyangan Catholic University - Indonesia and Institute of Rock and Soil Mechanics, Chinese Academy of Science, Wuhan - China, with solid support of Indonesian Geotechnical Society (HATTI) and International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) Technical Committee TC-212 on Deep Foundation. The event has been facilitated through geoengineer.org website. The participants numbered more than 260 from 12 different countries including Australia, China, Germany, Hongkong, India, Indonesia, Japan, Kazakhstan, Korea, Luxemburg, Malaysia, and Singapore. The profile of participants are government officials, geotechnical and structural consultants, contractors, researchers, faculty and students.

Prior to the conference, a pre-conference workshop was held on Sunday, June 2, 2013 with particular theme on 'Pile Testings and Interpretations' in the campus of Post-Graduate Program of Parahyangan Catholic University, which is the second campus located at Merdeka Street. The workshop consists of two sessions, with the first session on Pile Static Testing, led by Prof. Tatsunori Matsumoto of Kanazawa University, Japan (Picture 1) and the second session was dedicated on Pile Dynamic Testing with Prof. Limin Zhang of HKUST, Hong Kong as discussion leader. In each session, the discussion leader delivered the main paper, followed by two selected special papers. The results of the workshop was to be submitted to the Indonesia Ministry of Public Work for input and contribution in the preparation of The Guidance of Pile Static and Dynamic Testing.

During the workshop, the participants are actively engaged in questions, answers and remarks for the content of the materials (Picture 2). Then the workshop was followed by the meeting of ISSMGE Technical Committee TC 212 - Deep Foundations where several members of TC 212 and friends (non-members of TC 212) had participated and discussed various issues related to their committee TC 212 (Pictures 3 and 4). Later a cultural program by performed the students of Parahyangan Catholic University (UNPAR) during the welcome dinner with special Indonesian Menu called 'tumpeng' which looks like a cone of yellow rice and some accompanying menus (Pictures 5, 6 and 7).



Picture 1 Prof T. Matsumoto leads discussion on pile dynamic testings during pre-conference workshop



Picture 2 Participants of the workshop actively engaged in listening and discussions

NEWS ON RECENT CONFERENCES (Continued)



Picture 3 Chairman of ISSMGE TC 212 - Deep Foundations, Prof. Rolf Katzenbach, addressing members during TC 212 meeting and Secretary Prof. Deepankar Choudhury taking note of it



Picture 4 Some of the members and friends of ISSMGE TC 212 - Deep Foundations during the meeting



Picture 5 Students of Parahyangan Catholic University (UNPAR) performing Selama Dance



Picture 6 Peacock Dance by students of UNPAR



Picture 7 Traditional Indonesian music called Gamelan was played by students



Picture 8 Welcome dinner with tumpeng (the cone rice) was enjoyed by (L-R) Prof. Deepankar Choudhury, Prof. R. Katzenbach, Dr. M. Larisch, Prof. Harry Poulos, Prof. Askar Zhussupbekov, Prof. T. Matsumoto and Prof. Paulus Rahardjo



Picture 9 Participants attending Opening Ceremony on June 3rd, 2013

NEWS ON RECENT CONFERENCES (Continued)

The Opening Ceremony started at 9.00 am on June 3, 2013 at the Hotel Savoy Homann Bidakara ballroom with the opening speech by Prof. Paulus Rahardjo, the Chairman of the conference and an address by Dr. Anastasia Caroline Sutandi, the Dean of the Faculty of Engineering and Mr. Da Guo Wang, the Chief representative of the Institute of Rock and Soil Mechanics (IRSM), Chinese Academy of Science, both as the host of the conference. The speech was followed by 2 songs by the UNPAR student choir, who actively performs in Indonesia and overseas. In the previous month, the UNPAR student choir performed at Taman Ismail Marzuki Jakarta and was attended by more than five thousands of people. The next speech was delivered by Prof. Rolf Katzenbach, Chairman of ISSMGE Technical Committee TC 212 (Deep Foundation), Prof Masyhur Irsyam, Chairman of Indonesian Geotechnical Society, and Prof. Askar Zhussupbekov, ISSMGE Vice President for Asia. Then a beautiful dance called Mojang Prawira was performed by UNPAR students who belong to LISTRA (Student Art Performance Clu) to greet all the participants. The last two addresses were delivered by Ir. Jonny Fajar Subrata, M.Sc, representative of Head Research Institute of Human Settlement, Ministry of Public Works and by Dr. Pius Sugeng Prasetyo, Vice Rector for Academic Affairs of UNPAR, who then opened the conference with a 'gong'.



Picture 10 (L-R) Prof. Tatsunori Matsumoto, Mr. Kaustav Chatterjee, Prof. Deepankar Choudhury, Prof. Paulus Rahardjo (Conference Chairman), Prof. Harry Poulos, Prof. Sang Seom Jeong, and Mr. Dilli Rao



Picture 11 (L-R) Prof. Sang Seom Jeong, Prof. Askar Zhussupbekov, Prof. Rolf Katzenbach, Prof. Masyhur Irsyam, Dr. Caroline Sutandi (Dean of Faculty of Engineering), Dr. Pius Sugeng (Vice Rector), Prof. Harry Poulos and Dr. Pintor Situmorang



Picture 12 Students Choir of Parahyangan Catholic University



Picture 13 Mojang Prawira dance performed by UNPAR students of LISTRA (Student Art Performance Club)

NEWS ON RECENT CONFERENCES (Continued)



Picture 14 Prof. Masyhur Irsyam, Chairman of Indonesian Geotechnical Society, delivered speech in Opening Ceremony



Picture 15 Prof. Askar Zhussupbekov, ISSMGE Vice President for Asia, delivered a speech in the Opening Ceremony



Picture 16 Gong for Opening Ceremony by Vice Rector of Parahyangan Catholic University accompanied by Prof Paulus Rahardjo, conference chairman and Mr Da Guo Wang, the representative of IRSM, China.



Picture 17 Mojang Prawira Dance by UNPAR - LISTRA students



Picture 18 Prof. Askar Zhussupbekov and Prof. Paulus Rahardjo took picture with the student dancers

During the main event of the two-day conference, nine Keynote Lectures were delivered by outstanding speakers and 23 selected and special papers were presented in six technical sessions. The Keynote Lectures were delivered as shown below;

1. The First Plenary session (June 3rd, 2013) was Chaired by Prof. Aziz Jayaputera (Bandung Institute of Technology, Indonesia) with two Keynote Speakers, Prof. Dr.-Ing Rolf Katzenbach (Technical University Darmstadt, Germany), on '*Economic Solutions for Geotechnical Challenges like Highrise Buildings and Urban Tunnelling*' and Prof. Harry Poulos (Coffey Geotechnics and University of Sydney, Australia), on '*Pile Design for Ground Movement*'.

NEWS ON RECENT CONFERENCES (Continued)

2. The Second Plenary Session (June 3rd, 2013) was Chaired by Prof. Deepankar Choudhury (IIT Bombay, Mumbai, India) with three Keynote speakers, Prof. Askar Zhussupbekov (Eurasian National University, Astana, Kazakhstan), on "*Piling Foundations on Challenging Ground Conditions : Case Studies of Mega Structures Design and Construction in Kazakhstan*", Prof. Sang Seom Jeong (Yonsei University, Korea), on "*Geotechnical Design of Large Diameter Drilled Shafts for Incheon Grand Cable Stayed Bridge*", and Prof. Tatsunori Matsumoto (Kanazawa University, Japan), on "*A Case Study : Use of Pile Load Test Results in Deformation Analysis of Piled Raft Foundation*".
3. The Third Plenary Session (June 4th, 2013) was Chaired by Prof. Chaidir A. Makarim (Indonesia), with two Keynote speakers, Prof. Deepankar Choudhury (Indian Institute of Technology Bombay, Mumbai, India), on "*Behaviour of Piles in Liquefied Soil Under Seismic Conditions*" and Prof. Limin Zhang (HKUST, Hong Kong), on "*Performance of Bridge Pile Foundations under Vessel Impact*".
4. The conference was closed with two keynote lectures delivered by Prof. Wang Yao Hui (Wuhan Institute of Rock and Soil Mechanics, CAS, China), on "*State of The Art of Pile Testing in China*" and by Prof. Paulus P. Rahardjo (Parahyangan Catholic University, Bandung, Indonesia), on "*The Potential Damage of Buildings and Infrastructures due to Installation in Piles in Soft Ground*". This last plenary session was chaired by Prof. Limin Zhang (HKUST, Hong Kong).



Picture 19 Prof. Rolf Katzenbach delivering keynote lecture



Picture 20 Prof. Harry Poulos answering questions after his keynote lecture



Picture 21 Prof. Askar Zhussupbekov receiving a souvenir after his keynote lecture from Dr Pintor Situmorang



Picture 22 Prof. Sang Seom Jeong delivering his lecture



Picture 23 Prof. Zhang Limin delivering his Keynote Lecture

NEWS ON RECENT CONFERENCES (Continued)



Picture 24 Prof. Tatsunori Matsumoto receiving a souvenir after his keynote lecture from Dr. Pintor Situmorang



Picture 25 Prof. Deepankar Choudhury delivering his keynote lecture



Picture 26 Prof. Limin Zhang and Prof. Deepankar Choudhury receive souvenirs from Prof. Chaidir A. Makarim and Prof. Paulus P. Rahardjo



Picture 27 Dr. Wang Yao Hui receiving souvenir from Prof. Deepankar Choudhury after delivering keynote lecture



Picture 28 Prof. Paulus P. Rahardjo delivering his keynote lecture



Picture 29 Group of Committee taking pictures with keynote speakers

GALA DINNER

Gala dinner was attended by most of the participants. During the dinner, 3 lectures were presented by the representatives of the sponsors, including PT GeoSTAR, the platinum sponsor, PT Bauer Pratama, and PT Wika Beton, both being gold sponsors. All of the participants wore blankon, which is a traditional sundanese hat as shown in the following pictures.

Musical Entertainment and in particular the angklung 'bamboo' music made all participants cheer up and an angklung dance competition was won by Prof. Matsumoto. The participants played angklung together with Indonesian song, Japanese song, Chinese song and Australian song.

NEWS ON RECENT CONFERENCES (Continued)



Picture 30 Participants of the conference enjoy playing Angklung 'bamboo' music in GALA dinner



Picture 31 (L-R) Prof. T. Matsumoto, Prof. Harry Poulos, Prof. Paulus Rahardjo, Prof. Askar Zhussupbekov and Prof. Rolf Katzenbach



Picture 32 Participants of the conference entertained by the 'Hotmix' musical group



Picture 33 Prof. Matsumoto, Prof. Harry Poulos, Mr. Gambiro and Prof. Paulus Rahardjo competed for angklung dance, and the winner was Prof. Matsumoto



Picture 34 (L-R) Dr. Martin Larish (Australia), Dr. Wang Yao Hui (China) and Dr. Wang Yongbo (China)



Picture 35 (L-R) Mr. Muzni, Mr. Freddy Gunawan, Mr. Suryadedi, Mr. Bun Rusandi, Prof. Stefan van Baars, Dr. Larish, Prof. Sang Seom Jeong and Prof. Paulus Rahardjo

NEWS ON RECENT CONFERENCES (Continued)

Picture 36 The organizing committee, the students and 3 keynote speakers

POST CONFERENCE TOUR TO JATIGEDE DAM

On 5th of June, 2013, a number of participants joined a post conference tour to Jatigede Dam located at about 2.5 hours from Bandung. The dam is the highest of its type in West Java with about 110 m high earthfill. The main purpose of the dam is for irrigation and to generation of electric power. The participants were allowed to enter the gate shaft for water.



Picture 37 The participants in front of water gate tunnel



Picture 38 Participants on the highest fill placement (the spill way and core of the dam in the background)

NEWS ON RECENT CONFERENCES (Continued)



Picture 39 Participants inside the tunnel



Picture 40 Participants inside the tunnel



Picture 41 Visit to Tangkuban Perahu Crater, an active volcano in north of Bandung



Picture 42 Close to Tangkuban Perahu Crater; (L-R) Prof. Deepankar Choudhury, Mr. Kaustav Chatterjee, Prof. Askar Zhussupbekov, Prof. Limin Zhang and Mr. Dilli Rao

NEWS ON RECENT CONFERENCES (Continued)

NEWS ON RECENT CONFERENCE

MEETING OF KAZAKHSTAN AND UKRAINIAN SOCIETIES IN KIEV

On July 24-25, 2013, the Vice-President of the International Society for Soil Mechanics and Geotechnical Engineering for Asia, the President of Kazakhstan Geotechnical Society, Director of Geotechnical Institute of the Eurasian National University of LN Gumilyev - Zhussupbekov Askar visited Ukraine (Kiev).

The visit included a meeting with the leadership of the Ukrainian organization "Ukrainian Society for Soil Mechanics, Geotechnical and Foundation engineering" and the State Enterprise "Scientific-Research Institute of Building Structures" (GP NIISK) and a discussion was made of the scientific and technological cooperation between the two organizations.

The representatives of the Ukrainian Geotechnics were P.I. Krivosheev - President of the Ukrainian Society for Soil Mechanics, Geotechnical and Foundation Engineering (USSMGandF); G.G. Farenjuk - Director of GP NIISK; Y.I.-Nemchinov - First Vice-Director of GP NIISK for Research; Y.S. Slyusarenko - Vice-Director of GP NIISK for Research; P.M. Kozeletsky - Technical Director USSMGandF, head of GP NIISK; V.S. Shokarev - Vice-President USSMGandF, general editor of Journal "Svet Geotekhniki", director of Zaporizhskiy branch of GP NIISK; V.N. Senatorov - Head of the Department of GP NIISK.

Professor Askar Zhussupbekov informed the Ukrainian side about the latest developments of the Republic of Kazakhstan in the field of construction and education. In 2012, Kazakhstan has won the right to host the Astana International specialized exhibition "EXPO-2017", which will focus on the "Energy for the future. He also introduced to the audience of structural development of ISSMGE at present time.

History of the World exhibition began with the "Great Exhibition of industrial works of all the nations", held in London in 1851, and continues to the present time. For the regulation of exhibition activity, the International Exhibitions Bureau was established in 1928 in Paris. Today it is one of the oldest and the most prestigious international institutions (it is composed of 166 countries). International Exhibitions Bureau monitors compliance with the principles and objectives of the World Exhibition, in the framework of international cooperation activities carried out in the field of education, in terms of innovation, meeting to exchange views and develop a global dialogue on human problems.

During 2017, in connection with the exhibition, the Republic of Kazakhstan is planning to receive about 5 million visitors. The organization of the exhibition "Expo-2017" in Kazakhstan will require more resources for the construction of exhibition centers in the territory of 90 hectares in the city of Astana, and the entry of new hotel facilities, airport modernization and construction of transport infrastructure.

Ukrainian side noted that today the Confederation of Builders of Ukraine in contact with officials of the Republic of Kazakhstan and the Embassy of Ukraine in the Republic of Kazakhstan initiate the creation of Ukrainian construction consortium to implement the geotechnical design, engineering, construction and installation work on the construction market of the Republic of Kazakhstan.

Prof. Zhussupbekov introduced Ukrainian colleagues the state program "Bolashak" implemented in Kazakhstan in the field of education. For the first time in the history of post-Soviet states, talented young people were given the opportunity to study abroad entirely by the state. Today, many graduates occupy senior positions in the public service, and participate in various national and international projects, thus contributing to the development of the state. Each year 3500 young generation have opportunities to study at leading universities in the world with the international scholarship "Bolashak". The needs to increase the number of specialists are caused by the trend of the time. Under the conditions of established market economy, the state has chosen the path of development based on a model of a competitive economy and sustainable growth of the priority sectors in Kazakhstan, with the ever-growing

NEWS ON RECENT CONFERENCES (Continued)

need for specialists in the field of industrial-innovative development, education and science, management, marketing, logistics, new information technologies, reforming of housing and communal services and others.

Top Ukrainian geotechnical educational institutions, industry institutes may also be recommended for the training and passing the scientific training of the owners of the international scholarship "Bolashak".

Director of the GP NIISK G.G. Farenjuk informed the guest that, in the thirtieth session of the Intergovernmental Council for Cooperation in the construction of the States, participants of the CIS was awarded the relevance of scientific and technical supports in the construction to ensure the effectiveness of decision-making and were encouraged to use the experience of Ukraine on this issue in the CIS countries. In 2013, the Commission on Science and Education in the construction of the Intergovernmental Council for Cooperation was established for the construction of the CIS member states, and the chairman of the commission appointed is Director of the GP NIISK G.G. Farenjuk. In 2013 according to plan of Commission work, International Conference "Building science in the system to ensure the efficiency of the construction industry." is expected in Kiev. Kazakhstan scientists were invited to participate in the conference, and to prepare proposals and reports on topical issues of geoenvironmental science in the Republic of Kazakhstan.

Professor Zhussupbekov was familiarized with the experimental base of the Research Institute of constructions. Special interest was in the development of an innovative institution in the field of geotechnical engineering: compaction of loess soils by presoaking and energy explosion depth charges, strengthening the deep soil mixing, the elimination of excess tilting of buildings and structures, as well as the method for estimating the stress-strain condition of buildings using measuring - information system "GeoMonitoring

Prof. Askar Zhussupbekov gave an invited lecture for the employees of the Institute about "Geotechnical issues of Mega-projects in problematical soil conditions of Kazakhstan", which caused a great practical interest from the audience. After the lecture, the President of the Ukrainian Society of Soil Mechanics, Geotechnical and Foundation Engineering, P.I. Krivosheev, was awarded a commemorative medal of Kazakhstan Geotechnical Society after SH.M. Aytaliev - academic of the National Academy of the Republic of Kazakhstan.

Academician S.M. Aytaliev (1935 - 2007) contributed greatly to the development of Kazakhstan's science. The principal fields of his research were rock mechanics, theory of underground structures, regional geodynamics, mechanical transport and offshore facilities. He created one of the three schools of seismic stability of underground structures in the former Soviet Union, along with Moscow and Tashkent, and is recognized as a leader in research on these scientific fields in Kazakhstan.

In the opening speech, the role of Professor P.I. Krivosheev was noted in the development of Ukrainian Society of Soil Mechanics, Geotechnical and Foundation Engineering, the development of national regulations in the field of the foundations, and training for construction as well as the strengthening of professional relationships between our geotechnical organizations.

In subsequent negotiations, discussion was made of the draft agreement on cooperation between the Ukrainian Society for Soil Mechanics, Geotechnical and Foundation Engineering and Kazakhstan Geotechnical Society, aiming at increasing the exchange of technical, scientific, professional and managerial knowledge and information. It was agreed to sign the instrument after appropriate revisions in September 2013 in Paris as a part of the 18th International Conference for Soil Mechanics and Geotechnical Engineering.

Also discussion was made of the possibility of holding the Ukrainian-Kazakh geotechnical workshops, and hock for scientific and technical conferences on geotechnical and earthquake engineering, which is to be held in Ukraine in 2013 - 2014 in Poltava and Yalta, and the preparation of a special issue of the research journal "Svit geotekhniki" devoted to the practical geotechnical issues in Kazakhstan.

NEWS ON RECENT CONFERENCES (Continued)

During the visit Professor Askar Zhussupbekov got acquainted with a number of construction sites in the Ukraine in the scopes of the Euro 2012. Photographs that were taken during this event are shown below.



Invited Lecture by Professor Askar Zhussupbekov
"Geotechnical issues of Megaprojects in
problematic soil condition of Kazakhstan"



Awarding to Professor P.I. Krivosheev
of the commemorative Aytaliev
Medal from the Kazakhstan
Geotechnical Society

Reminiscence

Prof. W. D. Liam Finn

Professor W.D.L. Finn has been for many years Professor of Civil Engineering at the University of British Columbia, Canada, where he has also been Head of the Department of Civil Engineering and Dean of Applied Science. He has made significant contributions to the development of soil dynamics and to the mitigation of seismic and liquefaction disasters all over the world. This interview was made during the Seventh International Conference on Case Histories in Geotechnical Engineering in May, 2013, that was organized by Prof. Shamsheer Prakash in Wheeling, Illinois, USA.



RECENT ACTIVITIES

Prof. Finn's most important activity in the recent times has been the seismic retrofitting of school buildings in British Columbia. This is a 15-year project with initial funding of \$1.5 billion that attempts to ensure life safety in schools for students during an earthquake. Cost-effective retrofitting is a very significant issue and the program relies on seismic performance-based design to achieve its goals. The standard of satisfactory performance is that the probability of school collapse should be less than 2% in 50 years. School buildings were classified into 32 generic types with up to 3 floors. The performance of each generic type was assessed by nonlinear dynamic analysis for 30 different earthquake motions representing crustal, sub-crustal and subduction motions and for a variety of soil conditions. In all 9 million analyses were conducted. The results of the analyses were assembled into a data base that can be accessed by a web-based "seismic analyzer". The designer does not have to conduct any nonlinear analyses. He can get all significant retrofit data from the analyzer. This approach speeds up the retrofit process and achieves uniform level of seismic resilience for the buildings. Professor Finn has received 3 provincial and 2 national awards for his work on the schools project.

BEST MEMORY IN GEOTECHNICAL CAREER

In early 1990s Prof. Finn investigated the seismic damage of levees of the Kushiro River in Hokkaido, Japan. Being situated on peaty subsoil, the Kushiro River levee was heavily damaged by liquefaction during the 1993 Kushiro-oki earthquake and unexpectedly many months were spent on their remediation. Prof. Finn studied the prioritization of remediation. He was interested in the correlation between the levee height and the thickness of liquefiable subsoil as well as that of the unliquefiable surface crust, and a later study by Japanese engineers showed a wonderful agreement between his prediction and reality.

In 2000s, Prof. Finn was a professor of Kagawa University in Takamatsu, Japan, for 5 years and worked as the chairman of TC4 of ISSMGE on earthquake problems. He has very fond memories of this city and, in particular, loves the Ritsurin Park. Some information on this park is available in the appendix of this article.

Reminiscence (Continued)

ADVICES TO THE YOUNGER GENERATIONS

The behavior of soil is very complicated. Laboratory work is a very good opportunity to learn the real behavior of soils so that the oversimplification of soil behavior may be avoided in numerical analyses. The complication in soil behavior is exemplified by simple shear tests in the laboratory and vane shear tests in the field that gave substantially different shear strengths from each other. It is therefore very important to keep asking questions whether or not what you are doing is best.

Many people rely heavily on advanced numerical analyses. However, according to his experiences, on a number of occasions when the same dam was analyzed by two different codes totally different results were obtained. We should bear in mind, therefore, that there is no perfect computer code in the world and that we should always run more than one code when there is a major potential hazard to the public.

He has been always excited by geotechnical earthquake engineering because, being different from structural dynamics, this field of study does not have a "standard" code of practice. This frees the engineer to innovate and innovation drives the evolution of geotechnical engineering. Geotechnical statistics should be used with caution because the geotechnical universe is never uniform and each site needs to be considered on its merits.

In 1960s and 70s when geotechnical engineering made a significant development towards its modern shape, many important papers were published. Young people should read them to understand the evolution of geotechnical engineering and to put current practice into perspective.

APPENDIX Ritsurin Park in Takamatsu

As is well known, Prof. Finn has a deep interest in historical and cultural issues. In the City of Takamatsu (Fig. 1) he was enchanted by a beautiful Ritsurin Park. The local lords of the Takamatsu area spent nearly 100 years in the 17th Century on construction of this park. This park is intended to reproduce the ideal (and possibly imaginary) beauty of nature by constructing six lakes and 13 mountains. The Chief Editor of the Bulletin would like to mention the black-and-white landscape painting by Mu Xi (牧谿) of Sung Dynasty of China as one of the possible origins of this idea of beauty. The Editor visited the park on July 12th, 2013, to take photographs. Some of them are presented in what follows.



Fig. 1 Location of Takamatsu City



Photo 1 Southern Lake and Little Cuckoo Island (杜鵑嶼)

Reminiscence (Continued)



Photo 2 Scooping-the-Moon House (掬月亭)



Photo 3 Scooping-the-Moon House seen under Crescent Bridge (偃月橋)



Photo 4 Imperfection in bridges made by minor dislocation from straight configuration



Photo 5 Imperfection is one of the essences of Far Eastern idea of beauty (Raft-in-Harbor Bridge 津筏梁 crossing the Pond of Sleeping Dragon 睡竜潭)



Photo 6 Pavilion of fragrant wind (香風亭) under trees beyond a lotus pond

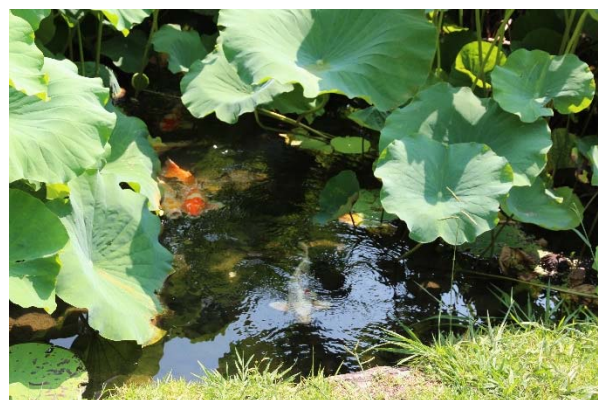
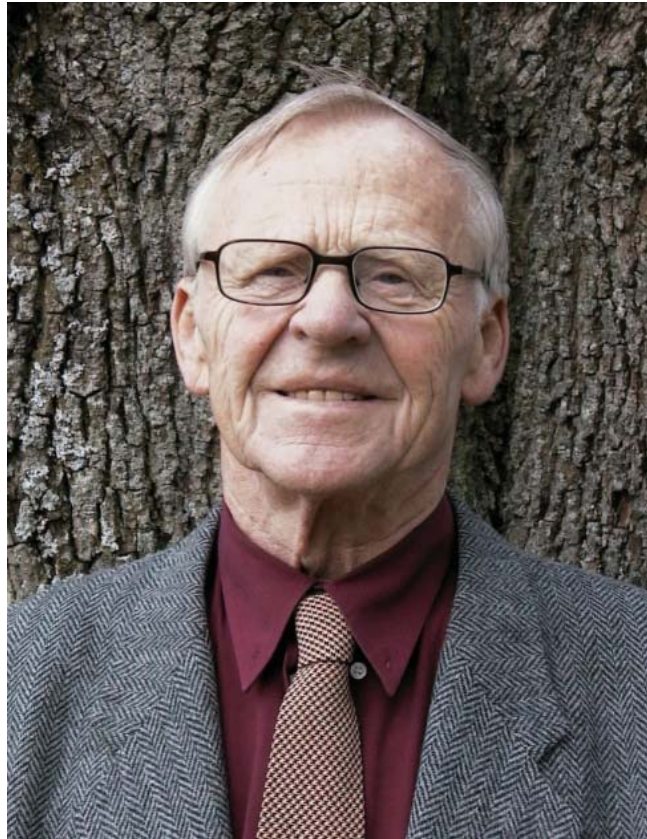


Photo 7 Colorful carp fishes under lotus leaves

OBITUARY

Professor Nilmar Janbu (1921 – 2013)



Nilmar Janbu, Emeritus Professor of geotechnical engineering at the Norwegian University of Science and Technology, passed away peacefully in Trondheim, Norway on 4 January 2013, at the age of 91 years.

Everybody in the geotechnical family knows about his enthusiastic contributions to soil mechanics; no need to mention his studies on slope stability problem. Furthermore, his friendly and diligent personality has been attracting many people all over the world. The Editor of the ISSMGE Bulletin still remembers Prof. Janbu's lecture on the mechanism of quick clay that was delivered during the 7th Landslide Symposium in Trondheim, 1996. He mixed salt with liquefied quick clay and surprised the participants by showing the recovery of the rigidity of the clay; see the photograph to the right. His memory will be eternally with us whenever slope stability and quick clay are discussed.



More detailed obituary is available in the Geotechnique Journal, Vol. 63, Issue 10;
<http://www.icevirtuallibrary.com/content/issue/geot/63/10>.

EVENT DIARY

ISSMGE EVENTS

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

2013

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

Date: Saturday 31 August 2013 - Sunday 01 September 2013

Location: École des Ponts Paris Tech, Paris, France

Language: English/French

Contact person: Prof. Yu-Jun Cui

Address: Paris, France

E-mail: yujun.cui@enpc.fr

Website:

<http://www.lepublicsystemepco.com/EN/events.php?IDManif=696&IDModule=21&PPAGE=&PAGE=&TEMPLATE=&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, Clémentine Nicollet

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, vmetral@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 Clémentine Nicollet: cnicollet@le-public-systeme.fr

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

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

EVENT DIARY

ISSMGE EVENTS (Continued)

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

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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, vmetral@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 Clémentine Nicollet: cnicollet@le-public-systeme.fr

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EVENT DIARY

ISSMGE EVENTS (Continued)

The third Italian Workshop on Landslides (The 3rd IWL) - "Hydrological response of slopes through physical experiments, numerical investigations and field monitoring"

Date: Wednesday 23 October 2013 - Thursday 24 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

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

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: Belarussian Geotechnical Society

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

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

Phone: +37517 2659769

E-mail: geotechnika2013@gmail.com belgeotech@tut.by

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

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

EVENT DIARY**ISSMGE EVENTS (Continued)****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

Website: www.geoshanghai2014.org

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

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

2nd International Conference on Information Technology in Geo-Engineering

Date: Monday 21 July 2014 - Tuesday 22 July 2014

Location: Durham University, Durham, United Kingdom

Language: English

Organizer: Professor David Toll

Contact person: Dr Ashraf Osman

Address: School of Engineering and Computing Sciences, Durham University, DH1 3LE, Durham, United Kingdom

Phone: +44 191 334 2425

Fax: +44 191 334 2408

E-mail: icitg@duram.ac.uk

Website: www.icitg.dur.ac.uk

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, Kyong-Gi Do, Korea

Phone: +82-32-290-7518

Fax: +82-32-290-7549

E-mail: csyoo@skku.edu

EVENT DIARY

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, U.K.

Phone: +44-1223-332713

Fax: +44-1223-339713

E-mail: 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 Pflieger

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

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

10th International Conference on Geosynthetics (10ICG)

Date :Sunday 21 September 2014 - Thursday 25 September 2014

Location: Estrel Convention Center, Berlin, Germany

Language: English

Organizer: DGGT / German IGS Chapter

Contact person: Gerhard Braeu

Address: Baumbachstrasse 7, 81245, Muenchen, Germany

Phone: +49 89 289 27139

Fax: +49 89 289 27189

E-mail: g.braeu@bv.tum.de

7th International Congress on Environmental Geotechnics

Date: Monday 10 November 2014 - Friday 14 November 2014

Location: Melbourne Convention and Exhibition Centre, Melbourne, Victoria, Australia

Language: English

Organizer: Engineers Australia

Contact person: Hayley Le Gros

Address: WSM, 119 Buckhurst Street, Vic 3205, Melbourne, Victoria, Australia

Phone: 61 3 9645 6322

E-mail: 7iceg2014@wsm.com.au

Website: www.7iceg2014.com

EVENT DIARY**ISSMGE EVENTS (Continued)
2015****XVI African Conference on Soil Mechanics and Geotechnical Engineering - Innovative Geotechnics for Africa**

Date: Monday 27 April 2015 - Thursday 30 April 2015

Location: Hammamet, Tunisia

Language: English and French

Organizer: ATMS

Contact person: Mehrez Khemakhem

Phone: +216 25 956 012

E-mail: mehrez.khemakhem@gmail.com

Website: www.16cramsg.org

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

Website: www.isfog2015.no

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, U.K.

Phone: +44 1189566066

Fax: +44 1189576066

E-mail: derek_smith@coffey.com

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

Workshop on Volcanic Rocks & Soils

Date: Thursday 24 September 2015 - Friday 25 September 2015

Location: Isle of Ischia, Italy

Language: English

Organizer: Associazione Geotecnica Italiana (AGI)

Contact person: Ms. Susanna Antonielli

Address: Viale dell'Università 11, 00185, Roma, Italy

Phone: +39 06 4465569 - +39 06 44704349

Fax: +39 06 44361035

E-mail: agi@associazionegeotecnica.it

Website: www.associazionegeotecnica.it

EVENT DIARY

ISSMGE EVENTS (Continued)

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

NON-ISSMGE SPONSORED EVENTS

2013

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

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

EVENT DIARY

NON-ISSMGE EVENTS (Continued)

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

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

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DFI-EFFC International Conference on Piling and Deep Foundations

Date: Wednesday 21 May 2014 - Friday 23 May 2014

Location: Stockholmsmässan, Stockholm, Sweden

Language: English

Organizer: DFI & EFFC

Contact person: Deep Foundations Institute

Address: 326 Lafayette Ave, 07506, Hawthorne, New Jersey, United States

Phone: 9734234030

Fax: 9734234031

E-mail: staff@dfi.org

Website: <http://www.regonline.com/builder/site/Default.aspx?EventID=1221506>

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, Netherlands, The

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

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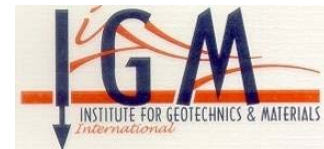
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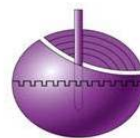
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The International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) is pleased to announce the publication of another new issue of the International Journal of Geoengineering Case Histories (<http://casehistories.geoengineer.org>).

The papers included in Issue #3, Volume #2 are the following:

Paper Title: Flat Jack Method for Measuring Design Parameters for Hydraulic Structures of the Koyna Hydro Electric Project in India, pp. 182-195

Authors: Keshav Ral Dhawan



Abstract: The paper presents two different projects: The first involves a case with limited rock cover on a side of an excavated surge shaft located near a steep slope. The second involves the assessment of design parameters of an existing masonry dam for use as input in dynamic analysis. The induced stresses in the surge shaft of Koyna Hydro Electric Project (K.H.E.P.) stage-IV were measured with flat jack. These tests were first performed in a 4 m diameter pilot shaft and after the shaft was excavated to its full diameter of 22.70 m. The stresses increased from 3.96 MPa to 5.09 MPa, when the 4m-diameter surge shaft was expanded to its full diameter of 22.70 m, in the case where significant rock mass cover existed at EL 651.00 m. However stress

reduction or no variation in the induced stress was measured in the portion of insufficient rock cover. In the second case, to determine the design parameters of Kolkewadi masonry dam of K.H.E.P stage-III, flat jack tests were conducted at the upstream side of Kolkewadi masonry dam in masonry of 1:4 and 1:3 and at downstream sloping side in masonry of 1:5. It is impractical and difficult to obtain mechanical properties of masonry in laboratory from the extracted core samples, due to intrinsic nonhomogeneity of the material. The brick/stone and mortar layers caused anisotropic behavior of masonry. Average deformation modulus for 1:3 masonry was 32.8 GPa. Similarly, the average deformation modulus for the 1:4 and 1:5 masonry was 19.0 and 13.7 GPa respectively and were adopted for the dynamic analysis. Induced stresses in the masonry dam were found to be nearly equal to the overburden.

Download here: <http://casehistories.geoengineer.org/volume/volume2/Issue 4/IJGCH 2 3 1.html>

Paper Title: Large Diameter Long Bored Piles in the Mekong Delta, pp. 196-207

Authors: Bengt H. Fellenius, Nguyen Minh Hai



Abstract: Static loading tests, O-cell tests, were performed on two long, strain-gage instrumented, bored piles in HoChiMinh City, Vietnam, where a series of twelve apartment towers were to be constructed. The test piles were constructed to 76 and 91 m depth and tested to maximum O-cell loads of 10 and 18 MN, respectively. For both piles, the O-cell level was placed at a depth of about 20 % of the pile length above the pile toe. The soil profile consisted of very soft organic clay to about 10 to 15 m depth underlain by firm to stiff clayey soil to about 25 to 45 m depth. Hereunder, the soil

consisted of a compact to dense sandy silt. Neither of the tests was able to fully engage the shaft resistance of the piles above the O-cell level, but did so below the O-cell level. Back-calculation of the load distributions determined from the strain-gage measurements showed the shaft resistance, even where fully mobilized, to be very small: the beta-coefficient applied in an effective stress analysis was only about 0.13 to 0.14. The evaluations of shaft resistance development showed a maximum shear resistance to occur after a movement of only 3 to 4 mm, after which the response became plastic and strain-softening. The toe resistance was very low because the construction had left soil debris at the bottom of the drilled hole. Ongoing regional settlement leads to concerns about the possibility for the production piles to have a similarly low toe resistance. This would locate the neutral plane of the shorter piles in settling soil and create a downdrag situation for the piled foundation.

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ISSMGE's International Journal of Geoengineering Case Histories(Continued)

Paper Title: The July 10 2000 Payatas Landfill Slope Failure, pp. 208-228

Authors: Navid H. Jafari, Timothy D. Stark, Scott Merry

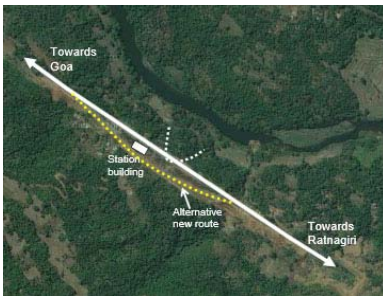


Abstract: This paper presents an investigation of the slope failure in the Payatas landfill in Quezon City, Philippines. This failure, which killed at least 330 persons, occurred July 10th 2000 after two weeks of heavy rain from two typhoons. Slope stability analyses indicate that the raised leachate level, existence of landfill gas created by natural aerobic and anaerobic degradation, and a significantly over-steepened slope contributed to the slope failure. The Hydrologic Evaluation of Landfill Performance (HELP) model was used to predict the location of the leachate level in the waste at the time of the slope failure for analysis purposes. This paper presents a description of the geological and environmental conditions, identification of the critical failure surface, and slope stability analyses to better understand the failure and present recommendations for other landfills in tropical areas. In addition, this case history is used to evaluate uncertainty in parameters used in back-analysis of a landfill slope failure.

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Paper Title: Embankment Failure in Residual Soils at Nivsar, Ratnagiri, pp. 229-251

Authors: Ashish Juneja, Deblina Chatterjee, Rajendra Kumar



Abstract: The Nivsar Yard embankment was constructed by the Konkan Railways in 1994. Near to the station building, the 22m high embankment runs parallel to the Kajali River for a stretch of about 100m. This stretch has experienced failure and settlement related problems since the record-breaking July 2005 rainfall. Corrective ground improvement measures were implemented immediately after the monsoon. However, these measures were inadequate because the failure-surface reappeared during the following monsoon. The failure-surface mirrored the shape and size of the failure observed in 2005. Since then after nearly every monsoon, the embankment has moved

despite precautionary measures taken by the railway to arrest the movement. The hydrogeological and geotechnical properties which affect slope stability are first discussed. The stability of the embankment is then evaluated at 5-sections drawn along the slope. Two cases are considered. In the first case, the stability of the unreinforced slope is calculated. In the second case, calculations are done using the slope reinforced with soil nails and micropiles installed in 2005 and 2007. The design railway loading and the water level position during the dry and wet season were also taken into account in the stability analysis. The safety factor during the wet season was observed to be less than unity in 4 out of 5 sections for both cases. In each case, the critical circle passed through the toe of the embankment and mirrored the field observations. In 2010-11, the rail tracks were realigned to bypass the failure surface. The stability of the slope was reinvestigated and considered to be safe under the new loads. Irrespective of the above change in the rail alignment, the cumulative settlement of the embankment has also reduced since the 2009 monsoon.

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

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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.