



International Society for Soil Mechanics and Geotechnical Engineering

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TABLE OF CONTENTS

[Select all items below](#)

1 Conference reports

- [The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering \(17ARC\), Kazakhstan](#)
- [The 4th International Symposium on Machine Learning and Big Data in Geoscience \(ISMLG 2023\), Ireland](#)
- [XX Technical Dam Control International Conference, Poland](#)

31 [ISSMGE Foundation reports](#)

36 [Event Diary](#)

44 [Corporate Associates](#)

47 [Foundation Donors](#)

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Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan

General introduction

For the first time in 60 years, the Asian Regional Conference on Geotechnics was held in Central Asia and the Commonwealth of Independent States of post-soviet countries. This significant event marks a historical shift in conference venues and symbolizes a crucial reunification and collaboration among the scientific and engineering communities in this region. In Asian Council Meeting hold in the 16th Asian regional conference in Taipei, Taiwan in October, 2016, it is really appreciated that the Kazakhstan Geotechnical Society (hereinafter called "KGS") had received many supports from delegates of many member societies of ISSMGE and was awarded the right of hosting to organize 17th Asian regional conference (hereinafter called "17ARC").

After being awarded the right to host the conference, concerns arose due to the global COVID-19 pandemic situation, making it challenging to gather participants. Nevertheless, the 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering was successfully held in Astana, Kazakhstan, from August 14 to 18, 2023. The conference, organized by the KGS (ISSMGE), brought together 636 researchers and academics in the field of soil mechanics from 58 countries. The main theme of the 17ARC was "Smart Geotechnics for Smart Societies". As societies worldwide grapple with urbanization, environmental sustainability, and the ever-increasing demands for infrastructure development, the role of geotechnics becomes increasingly pivotal. Geotechnical engineering supports the safe construction of buildings, bridges, and transportation networks and plays a central role in mitigating natural disasters and preserving the environment. Therefore, the theme of the 17ARC, "Smart Geotechnics for Smart Societies", underscores the critical importance of applying cutting-edge technologies and innovative approaches to tackle these multifaceted challenges.

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)



**17th Asian Regional Conference
on Soil Mechanics and Geotechnical Engineering 2023**
Monday 14 August - Friday 18 August 2023
Hilton Astana Hotel, Astana, Kazakhstan



After receiving permission from ISSMGE, under an inquiry President Professor Marc Ballouz, Professor Askar Zhussupbekov was requested to be the chairman of the organizing committee, and Dr. Assel Sarsembayeva was requested to be the General Secretary of the conference. These two leaders became the driving forces behind the execution of all tasks related to 17ARC. At the request of Professor Askar Zhussupbekov, three co-chairs were appointed: Dr. Abdulla Omarov, Dr. Zhanbolat Shakhmov, and Dr. Victor Popov. In addition, to assist in various aspects of the organizational committee's work, Bibigul Abdrakhmanova and Saltanat Mussakhanova were appointed as the technical secretary and deputy general secretary, respectively. Under the guidance of the organizational committee, several committees were established, such as the scientific committee, sponsorship and exhibition committee, young professionals and student committee, and logistics committee, and each committee was tasked with various responsibilities for the conference.



Photo 1. Photo of organizing committee

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)

Preparations for 17ARC have taken a proactive turn with the appointment of key personnel and every member of the team has taken up the task with great dedication and determination. This stage became the starting point for effective teamwork covering a wide range of important tasks and responsibilities. Each team member worked to achieve one goal - the successful holding of this important event. Considering that this was the first experience of organizing an event of this scale for the entire team, the organizing committee was determined to achieve success.

1. ISSMGE Board and Council Meeting

Prior to the start of the Conference, the ISSMGE Board and Council Meeting was held on August 12-13. During the ISSMGE Board Meeting in L.N. Gumilyov Eurasian National University on the first day, August 12, 12 Board members and 9 Board-level committee chairmen actively participated in extensive discussions and deliberations regarding various strategic initiatives and policies aimed at advancing the field of geotechnical engineering on the world stage. These discussions covered topics such as international collaboration, research funding, educational programs, and helping to promote best practices in geotechnical engineering.



Photo 2. Photos of ISSMGE Board meeting at L.N. Gumilyov Eurasian National University

Friendly dinner after a productive ISSMGE Board Meeting in L.N. Gumilyov Eurasian National University became an event that harmoniously complemented the working atmosphere of the event. The inclusion of cultural elements created a unique opportunity for participants to immerse themselves in local culture. The performance of local artists playing the national instrument Dombra added authenticity to the event and allowed participants to enjoy the local musical tradition. The presentation of the national dish allowed the participants to taste local tastes, and the dressing ceremony for the President, Prof. Marc Ballouz, and the Vice President for Asia, Prof. Keh-Jian Shou added an emotional punch and created a varied atmosphere for the evening, promoting respect for local traditions and cultural heritage.



Photo 3. Photos of Friendship Dinner of ISSMGE Board meeting at L.N. Gumilyov Eurasian National University

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)



Photo 4. Photos of ISSMGE Council meeting at Nazarbayev University

On the second day, August 13, at the ISSMGE Council Meeting at Nazarbayev University, representatives from 90 countries came together to exchange knowledge and experiences related to the latest advances in modern geotechnical technologies and activities. This meeting served as a platform for ISSMGE members to present their research findings, innovative projects and upcoming conferences, facilitating a rich exchange of knowledge and ideas.

2. Main Program

Conference program of 17ARC included a range of scientific events like, Plenary Sessions, Parallel Sessions, Asian Council Meeting, CAPG, Kazakhstan-Poland-Korean Workshop (KGS-PGS-KGS), Iraqi-Macedonian-Kazakhstan MOU Ceremony, Turkish-Syria earthquake issues session, Corporate Associates Presidential Group Session, Heritage Time Capsule Session, Technical Tour and Exhibition in Astana, Post-conference Technical Tour in Almaty, and Post-conference International Geotechnical Workshop in Issyk-Kul, Kyrgyzstan.

Registration for event participants opened on August 13th in the afternoon and was the first step to participation in 17ARC. The main Conference Program ran from the morning of August 14 until the late evening of August 17, covering four busy days.

35 speakers, including Keynote, Guest, Theme and Special Lecturers, as well as 3 Bright Spark Lecturers, representing young researchers in the field of geotechnical engineering, were invited from around the world to share their professional knowledge with all 17ARC participants. In general, the main, invited, thematic and special lectures were organized in the morning of each day of the program except the last day (17th Aug), and parallel sessions were organized in the afternoon.

During the conference, 65 parallel sessions were held, during which 296 oral presentations were listened, and a poster session was organized, at which 125 poster presentations were delivered. Technical sessions included presentations on a variety of topics including Geotechnical Mitigation and Adaptation to Climate Change-induced Geo-disasters in Asia-Pacific Regions (ATC1), Urban Geoengineering (ATC3), Thick Deltaic Deposits (ATC7), Urban geo-informatics (ATC10), Smart Observational Method (SOM) (ATC14), Geo-engineering for conservation of heritage monuments and historical sites (ATC19), Ground Improvement (TC211), Geotechnical Infrastructure for Megacities and New Capitals (TC305) and other aspects of soil mechanics and geotechnical engineering. As part of the conference, poster sessions were organized, held daily from August 14 to 18 at two-time intervals: from 10:30 to 11:00 and from 15:00 to 15:30. These sessions provided participants with the opportunity to present their research papers visually on posters and engage in discussions with an interested audience during coffee breaks.

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)

There were 636 registered participants at 17ARC, including 515 from overseas. The actual number of participants present at the conference was 636, including many visitors to parallel sessions and exhibitions. These participants came from almost 58 countries around the world, not only from Asia. These countries and regions are Australia, Austria, Belgium, Bolivia, Canada, China, Denmark, Finland, France, Germany, Hong Kong, India, Indonesia, Israel, Japan, Kazakhstan, Malaysia, Mongolia, Nepal, Myanmar, New Zealand, Philippines, Russia, Singapore, South Korea, Sri Lanka, Syria, Thailand, United Kingdom, United States, Uzbekistan, Vietnam (please see Table 1). 17ARC delegates represent government agencies, universities, consulting firms, construction, and manufacturing companies.

Table 1 Numbers of participants of 17ARC (categorized by country)

No	Country	Number of Participants	Percentage of Participants
1	Australia	9	1,42%
2	Austria	1	0,16%
3	Azerbaijan	2	0,31%
4	Bangladesh	1	0,16%
5	Belarus	1	0,16%
6	Bosnia and Herzegovina	1	0,16%
7	Brazil	1	0,16%
8	Canada	1	0,16%
9	Chile	1	0,16%
10	China	35	5,50%
11	Denmark	1	0,16%
12	Egypt	2	0,31%
13	Finland	7	1,10%
14	France	2	0,31%
15	Germany	9	1,42%
16	Greece	2	0,31%
17	Hong Kong	3	0,47%
18	Hungary	1	0,16%
19	India	42	6,60%
20	Indonesia	3	0,47%
21	Iran	2	0,31%
22	Iraq	6	0,94%
23	Italy	4	0,63%
24	Japan	88	13,84%
25	Jordan	1	0,16%
26	Kazakhstan	121	19,03%
27	Kyrgyzstan	5	0,79%
28	Libiya	1	0,16%

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)

(Con't)

No	Country	Number of Participants	Percentage of Participants
29	Macedonia	3	0,47%
30	Malaysia	4	0,63%
31	Mexico	1	0,16%
32	Mongolia	2	0,31%
33	Nepal	8	1,26%
34	Netherland	2	0,31%
35	New Zealand	2	0,31%
36	Pakistan	4	0,63%
37	Peru	1	0,16%
38	Philippines	7	1,10%
39	Poland	6	0,94%
40	Portugal	1	0,16%
41	Romania	1	0,16%
42	Russia	92	14,47%
43	Saudi Arabia	1	0,16%
44	Singapore	12	1,89%
45	Slovakia	1	0,16%
46	South Africa	2	0,31%
47	South Korea	62	9,75%
48	Switzerland	1	0,16%
49	Syria	1	0,16%
50	Taiwan	31	4,87%
51	Tajikistan	1	0,16%
52	Thailand	1	0,16%
53	The Czech Republic	2	0,31%
54	Turkey	2	0,31%
55	UAE	1	0,16%
56	United Kingdom	15	2,36%
57	USA	9	1,42%
58	Uzbekistan	7	1,10%
Total		636	100%

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)

As part of the 17 ARC conference, an exhibition was simultaneously held, consisting of 17 stands, where representatives of various companies, professional organizations and publishing houses had the opportunity to demonstrate their products and advanced professional technologies to visitors. Well-known organizations including Toho Chikakoki Co., Ltd/Pre-Mat Drilling Supplies Pte Ltd, Malinin Soft, KGS Astana Ltd, Sisgeo Srl, GDS Instruments, OMS Pile Driving Equipment GMBH, Advanced Rapid Geotech Services Pte Ltd, APS Antriebs, Prüf- and Steuertechnik GmbH, VJ Tech Limited, Geobruigg AG, Geotech, Keller Central Asia LLP, Movax - Juntan-Ice-Pve, Sensors ONE LLP, Atlant Anker System and Geomil Equipment B.V. used this platform to present their latest achievements, latest innovations and proposals to conference participants to present advanced testing equipment, latest innovations and proposals.

At 17ARC, many topics in geotechnical engineering were studied and discussed, including: soil properties and soil characteristics, engineering geology and rock mechanics, development and application of numerical methods in soil mechanics, modeling the behavior of soil structures under load conditions, development of new geoproducts to improve geotechnical structures, development of methods for strengthening soils under infrastructure structures, optimization of geotechnical solutions in transport infrastructure, geotechnical aspects of the construction and operation of tunnels, geotechnical aspects of large infrastructure and megaprojects, dams, levees and embankments, slopes and debris flows, soil dynamics and geotechnical seismic engineering.

Moreover, 17ARC has also received support from many Technical Committees (TCs) and Asian Technical Committees (ATCs). TCs and ATCs running parallel sessions organized in 17ARC include TC211, TC305, ATC1, ATC3, ATC7, ATC10, ATC14 and ATC19. In addition to the parallel sessions, the ATC held a meeting to discuss details of the work and activities to be carried out in the future. Attentions and supports from ISSMGE on 17ARC should also be addressed here. Current , former presidents and vice presidents attending 17ARC include Prof. Marc Ballouz, Prof. Keh-Jian Shou, Prof. Ikuo Tohwata, Prof. Eun Chul Shin etc. We would like to especially note the Japanese Geotechnical Society, Indian Geotechnical Society, Korean Geotechnical Society, Chinese Institution of Soil Mechanics and Geotechnical Engineering-CCES, Chinese Taipei Geotechnical Society, Iraq Geotechnical Society, and other Asian Geotechnical Societies in participating and assisting in the organization of the review process.

The opening ceremony, which marked the beginning of the conference, was graced by welcoming remarks from important guests, including the President of ISSMGE, Prof. Marc Ballouz, the Minister of Science and Higher Education of the Republic of Kazakhstan, Mr. Nurbek Sayasat, and the Vice President for Asia at ISSMGE, Prof. Keh-Jian Shou, Prof. Serik Makysh, Vice Rector of L.N. Gumilyov Eurasian National University, as well as Prof. Askar Zhussupbekov, President of Kazakhstan Geotechnical Society. These speeches launched the event and set the tone for the exchange of professional knowledge among all 17ARC participants.

In the evening of the same day, the Astana city Akimat (city council) organized a welcome reception immediately after the completion of all parallel sessions. Welcoming speeches at the reception were made by the representative LLP Mayor's office of Astana Deputy Director of the Department of Partnership and MICE Events Olga Abeldinova, the president of ISSMGE, Prof. Marc Ballouz, Prof. Askar Zhussupbekov, and Secretary General of ISSMGE Dr. Andrew McNamara. These welcoming words were delivered not only to express gratitude to 17ARC for the support of all delegates, sponsors and exhibitors, but also to express hope for a successful continuation of the conference in the following days. The reception also saw the presentation of awards, in the form of plaques, to the sponsors as well as to the young lecturers from Bright Spark Lecturers, recognizing their significant contribution to the event.

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)



Photo 5. Photos during the opening ceremony

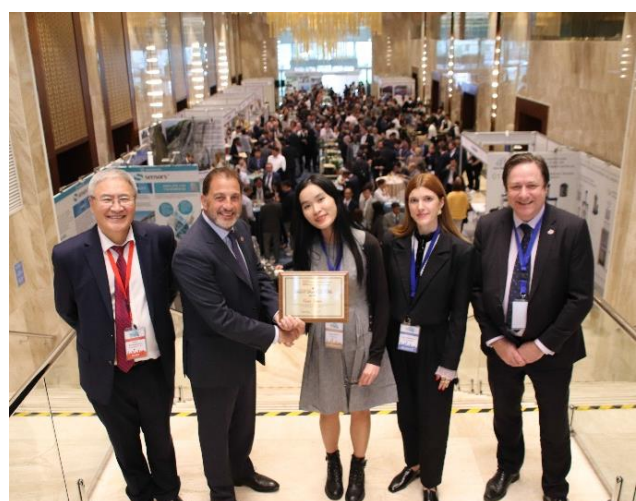


Photo 6. Photos from the Welcome Reception

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)

On the evening of August 16, the conference banquet (Gala Dinner) was held at the Wyndham Garden Astana Hotel with about 300 guests in attendance. Several short speeches were delivered by Prof. Yoshinori Iwasaki, Prof. Cholachat Rujikiatkamjorn, who conducted a brief presentation and invited participants to the 5th International Conference on Transportation Geotechnics, scheduled to take place from November 20 to 22, 2024, in Sydney, Australia. During the banquet, representatives of the platinum sponsors such as Keller Central Asia LLP, JSC Mosinzhpoeht, Geobruigg AG, Bauer Maschinen GmbH, and KGS-Astana LLP, as well as representatives of the gold, silver, and bronze sponsors, were invited to come onstage and receive well-deserved certificates of appreciation from Prof. Eun Chul Shin, Prof. Neil Taylor, and Dr. Andrew McNamara. This was a token of gratitude for their support and contribution to the successful execution of the event. To entertain the guests, the organizers invited dance groups and a musical orchestra. This created a festive atmosphere and allowed the guests to enjoy music and choreographic performances. The banquet was hosted by Dr. Yelbek Utepov and Dr. Assel Tulebekova (chairman of Gala Dinner), who effortlessly maintained a lively atmosphere and attentively oversaw the progress of the event.



Photo 7. Photos from the Gala Dinner

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)

The closing ceremony is a time to say goodbye to everyone and was scheduled for the afternoon of August 17, immediately following the Heritage Time Capsule session, which featured speakers from members of ISSMGE Prof. Daniela Pollak, Prof. Yuli (Chaido) Doulala-Rigby and Dr. Ashe Cooper who spoke about a geotechnical time capsule that can serve as a source of information and inspiration for future generations of geotechnical engineers and researchers and will also allow them to appreciate what changes and developments have occurred in the field of geotechnical engineering over a period of time. Representatives of 6 future international conferences Prof. Daniele Cazzuffi for the 12th International Conference On Geosynthetics, Prof. Netra Prakash Bhandary for GeoMandu 2024, Dr. Alexandre Pinto about XVIII European Conference on Soil Mechanics and Geotechnical Engineering in Lisbon, Portugal, 2024, Dr. Daniella Pollak about 7th Pan-American Conference on Soil Mechanics and Geotechnical Engineering (XVII PCSMGE) and 2nd Latin-American Regional Conference of the International Association of Engineering Geology and the Environment (IAEG), Chile, 2024, Prof Anil Joseph for the 1st Geotech Asia at Mumbai in 2025, Prof. Suttisak Soralump for the 18th Asian Regional Conference of ISSMGE, Thailand, 2027 were invited to be on the stage for promotions of these events. The successful conclusion of the conference was the speech of Prof. Askar Zhussupbekov, Chairman of the 17ARS, in which he expressed deep gratitude to all participants of the event for their contribution to this significant event, and also held a drawing among the participants of the poster session and awarded the winners with cash prizes. The winners were: 1st place - Askar Yessentaev (Kazakhstan), 2nd place - Rhey Gonzales (Philippines), 3rd place - Lana Awwad (Russia).



Photo 8. Group photo of participants of 17ARC at the closing ceremony

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)



Photo 9. Photo of the poster session and award ceremony for the place winners of a poster session

Photo album of 17ARC is presented in:

<https://drive.google.com/drive/folders/1K5gj9G0idNY-qF2VEGEt9t0VZzNsMDs1>

3. Conference Proceedings

As a testament to the intensive scientific efforts invested in this momentous event, a total of 413 peer-reviewed papers have not only been accepted but also made readily accessible through open access in the Conference Proceedings. This comprehensive compilation, titled "Smart Geotechnics for Smart Societies: Proceedings of the 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering (17ARC, Astana, Kazakhstan, 14-18 August, 2023)", stands as a remarkable testament to the conference's achievements. The publication has been adeptly edited by A. Zhussupbekov, A. Sarsembayeva (KGS), and V.N. Kaliaikin (GI) and is presented as the 1st edition.

Furthermore, it should be noted that this Collection of Conference Proceedings was published in the form of a Book and entered into well-known academic databases in the form of open access, which makes it available for reading by scientists and researchers.

CRC Press: <https://doi.org/10.1201/9781003299127>.

4. Asian Council Meeting

The Council meeting was held in the afternoon of August 15. Reports on the activities of associations and Asian Technical Committees (ATC) were presented at the meeting. But the major task of the Council meeting was to determine the organizing society for the 18th Asian Regional Conference on Soil Mechanics and Geotechnics (18ARC). The Iranian and Thai Geotechnical Societies submitted bids to host the 18ARC. Following a voting process, the Thai Geotechnical Society emerged as the successful host for the 18ARC. Professor Suttisak Soralump conveyed his heartfelt appreciation to the ISSMGE members. At present, the Thai Geotechnical Society has suggested a tentative location and date for the 18ARC, which is scheduled to take place in Bangkok, Thailand, in the year 2027. Subsequently, following the Asian council meeting, a dinner banquet was hosted at the Astana Nury restaurant, situated alongside the banks of the Ishim River.

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)



Photo 10. Photos from the Asian Council meeting

5. Iraqi-Macedonian-Kazakhstan MOU Ceremony

The Iraqi-Macedonian-Kazakhstan MOU Ceremony was held on August 15, where memorandums of cooperation were signed between the Iraqi Geotechnical Society (ISGS), Macedonian Geotechnical Society (MAG) and Kazakhstan Geotechnical Societies (KaGS). ISGS (Prof. Mahdi Karkush) and MAG (Dr. Elena Angelova) and KGS (Prof. Askar Zhussupbekov) have entered into this agreement of cooperation to promote and enlarge the exchange of technical, scientific, and professional knowledge to better serve the interests of their members, the engineering profession in general, and the public in Iraq and Macedonia, and Kazakhstan.



Photo 11. Photo from the signing of a memorandum of cooperation between ISGS, MAG, KGS

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)

5. CAPG session

The Corporate Associates Presidential Group Session took place on August 16, the third day of the conference. The format of the plenary session was presented in the form of a panel discussion and an open discussion in the hall. The panel session had five participants from different parts of the world, including W. Kwiatkowski, A. Korpach from Kazakhstan, M. Nadot, V. Kivlyuk, I. Isaev from Russia, C.M.K. Arachchige, B. Indraratna, C. Rujikiakamjorn, Y. Qi and A.R. Siddiqui from Australia, I. Rukin, L. Mannola from Finland D. Mähner and B. Tauch from Germany. Each of them shared their experience and views on a number of important topics, such as the role of geotechnical engineering in infrastructure projects in Central Asia, the impact of subway construction on surrounding buildings and infrastructure, discussion of new smart methods and technologies in the field of geotechnical engineering, practical experience of using waste rubber in construction ballasted railways, innovations in vibration reduction in driven piles and foundations, and experience and description of the Tunnel within a Tunnel pilot project on electrified railway routes in Germany. Having concluded the panel discussion, session chair Dr. Chaido Doulala-Rigby (Yuli), Tensar (Greece) discussed the interim results of the global survey.

6. Turkey-Syria Earthquakes: A Disaster through Interdisciplinary Issues

The session “Turkey-Syria Earthquakes: A Disaster through Interdisciplinary Issues” at the conference provided a unique platform for researchers and experts from various fields of knowledge to discuss different aspects of earthquakes that occurred in Turkey and Syria. Earthquakes are natural disasters that have a significant impact on society, the environment, and the region's economy. This session facilitated the exchange of knowledge and experience on this topic.

The session was chaired by Prof. Susumu Yasuda from Tokyo Denki University, Japan and Prof. Akira Hasegawa from Hachinohe Institute of Technology, Japan. The session was opened by the thematic lecturer, Dr. Rasin Düzceer (President of Turkish Geotechnical Society) from Kaskaş A.Ş., Turkey, who presented the timely topic “Foundation Failures of Multi Storey Buildings in Turkey due to the Earthquake of February 6, 2023”. Special lecturers from the United States presented their topics in online format: Dr. Sissy Nikolaou, President of ASCE(GI) from the National Institute of Standards and Technology presented “Functional Recovery: A Better-than-Code Seismic Design Approach” and Dr. Tugce Baser from the University of Illinois Urbana-Champaign talked about “Geotechnical Problems Caused by the 2023 Kahramanmaraş Earthquake Sequence”.

Among the special lecturers was Prof. Ikuo Towhata from Kanto Gakuin University, Japan, who presented the lecture “Mysterious issues observed in reconnaissance after the 2023 Turkey-Syria earthquakes”. The session concluded with a presentation by Dr. Talal Awwad from Damascus University, Syria on the topic “Observations and Analyses of the collapse of buildings in Northwestern Syria in the Sequence of The Destructive Doublet Turkey-Syria Earthquakes 2023”.

7. Kazakhstan-Poland-Korean Workshop

The Kazakh-Polish-Korean Workshop, which took place on August 17, commenced with opening remarks from the session chairs. These session chairs included Prof. Jong-Sub Lee from Korea University (South Korea), Prof. Katarzyna Zabielska-Adamska from Bialystok University of Technology (Poland), and Assoc. Prof. Zhanbolat Shakhmov from L.N. Gumilyov Eurasian National University (Kazakhstan). Additionally, Prof. Young Uk Kim, who also serves as the President of the Korean Geotechnical Society (KoGS), delivered a speech, as did Prof. Askar Zhussupbekov, President of the Kazakhstan Geotechnical Society (KaGS), and Prof. Katarzyna Zabielska-Adamska, President of the Polish Geotechnical Society (PGS).

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)

The workshop featured presentations from eight reports representing various institutions, including A. Dąbska, P. Pytlak, B. Bednarz and Z. Bereda from Warsaw University of Technology, K. Zabielska-Adamska, P. Dobrzycki and M. Wasil from Bialystok University of Technology from Poland, N. Sagidullina, A. Muratova, A. J. Kim, A. Satyanaga and S.-W. Moon from Nazarbayev University, E.P. Bragar from Eurasian National University from Kazakhstan, M. Chung from Korea Institute of Civil Engineering and Building Technology, S. Jeong from Yonsei University, and Ch. Chung, G. Shin, T. Chung from Seoul National University in South Korea. Workshop including research on the following topics “Comprehensive recognition of soil and water conditions in the area of critical infrastructure - case study”, “Use of an Ensemble Model for the Prediction of Lateral Deformation of Retaining Wall under Construction”, “Geo-Spatial Database System based on Borehole and Geophysical Datasets’ and etc.



Photo 12. Photo from Kazakhstan-Poland-Korean Workshop

8. Heritage Time Capsule Session

The HTC session at 17ARC aimed to provide Asian members of the ISSMGE and members of technical committees with an opportunity to discuss and evaluate significant advancements in geotechnical engineering. The session was chaired by Dr. Mingliang Zhou, the YMPG Regional Lead for Asia, and Dr. Ashe Cooper, Chair of YMPG. The event featured panel discussions and short speeches.

In the introductory section, "Introduction to the ISSMGE HTC," participants were presented with speeches, including a presentation on the development of the ISSMGE HTC program by Prof. Keh-Jian Shou, a message from ISSMGE President Prof. Marc Ballouz, and a virtual HTC presentation by Dr. Mingliang Zhou and Dr. Ashe Cooper.

After that, a section dedicated to the Heritage Time Capsule Project by Asian Region was presented. The first presentation, titled HTC Project in Asian Region and prospective projects for “Future Geotechnical Engineering” was given by Prof. Eun Chul Shin, Immediate Past Vice President of Asia. Following that, Prof. Askar Zhussupbekov, the Chair of the 17ARC Organizing Committee and President of the Kazakhstan Geotechnical Society, presented a report on Kazakhstan's contribution to the HTC.

The “HTC Project Phases” included three phases, starting with contributions presented with a presentation on Contributions, by Peter Day, of Chair, Corporate Associates Presidential Group(GAPS), on Discovery, by Ashe Cooper, Chair of Young Member Presidential Group(YMPG) , the "Time Capsule" by Chaido Doulala-Rigby (Yuli) and a glimpse into "100 years on" by Daniela Pollak Aguiló, Appointed Board Member and after that representatives of other Asian societies made short presentations about progressing of HTC in national societies as well.

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)



Photo 13. Photo from Heritage Time Capsule Session

9. Technical Tours

As part of the conference, two separate technical tours were organized by the Organizing Committee, providing 17ARC participants with the opportunity to become familiar with various aspects of Kazakhstan's development and infrastructure. The first of them took place on August 18 in the city of Astana. During this tour, participants were introduced to the architecture of the largest Mosque in Asia, then visited the construction site of a light rail transit (LRT), where they were given the opportunity to appreciate the cutting-edge achievements in urban transport infrastructure. The last stop on the technical excursion was a visit to the Research Design Institute "AstanaGenPlan" LLP, responsible for developing urban plans for Astana, which gave participants the opportunity to familiarize themselves with the overall development plan of the city.

In the second stage of the technical tour, which took place in Almaty, the southern capital of the Republic of Kazakhstan, participants visited three key sites: Medeo, performs the important function of a protective dam against mudflows, contributing to the safety and stability of the region's infrastructure. The Shymbulak Ski Resort is renowned as the best of its kind and showcases the recreational aspects of Almaty's landscape while playing an important role in the city's tourism industry. In addition, participants studied in detail the seismic protection measures for buildings in Almaty, which underscores the city's commitment to ensuring reliable protection of its structures from seismic activity.

In total, 70 people took part in the technical tours: 50 of them got acquainted with the technical tour in Astana, and 20 with the technical tour in Almaty. The 17ARC Organizing Committee expresses its deep gratitude to the Kazakh Research and Design Institute of Civil Engineering and Architecture "KazNIISA" for the excellent organization of the technical tour in Almaty and special thanks to the Head of a Geotechnical Laboratory Yussuf Yemenov for his dedicated efforts to make this event a success.

10. International Geotechnical Engineering Postconference Workshop in Kyrgyzstan

After the conclusion of the 17ARC, the International Geotechnical Engineering Workshop took place in Kyrgyzstan from August 19-21, 2023. The workshop program commenced with the opening ceremony, during which Prof. Kamchybek Ch. Kozhogulov, President of the Kyrgyzstan Geotechnical Society, delivered a welcoming speech. Prof. Keh-Jian Shou, Vice President for Asia at the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), and Prof. Askar Zhussupbekov also addressed the audience.

The workshop program provided a plenary session, in which several participants including Prof. Ikuo Towhata, Prof. Eun Chul Shin, Prof. Chun Fai Leung, Prof. Darren Siau Chen Chiang, Prof. Jong Sub Lee, and Dr. Isagalieva S. shared their ideas and research during the workshop.

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)

During the workshop, participants had the opportunity to explore unique locations in the region, including Lake Issyk-Kul, high-mountain areas, and territories rich in historical traces of nomad game.



Photo 14. Photo from the technical tour in Astana and Almaty



Photo 15. Photo from International Geotechnical Engineering Workshop, Kyrgyzstan

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)

Appreciation

The successful organization of a large-scale international conference undoubtedly requires extensive support from many sides and staff cooperation, especially considering that Kazakhstan has not previously hosted such large-scale international geotechnical conferences. Therefore, we deeply thank our key colleagues in the 17ARC organizing committee under the leadership of Prof. Askar Zhussupbekov (KGS) for their invaluable support. Without their strong support, this project would not have achieved such great success.



Photo 16. Group photo of members of 17ARC Organizing committee

On behalf of the 17ARC organizing committee, we would like to thank the International Society for Soil Mechanics and Geotechnical Engineering and the Technical Committees, the conference Scientific Committee, the International Advisory Board, and of course, the Organizing Committee for their constant support and contributions that make this conference a success. We would also like to thank our Keynote, Special, Invited, Thematic, and Bright Spark lecturers, as well as all the participants of this conference for their attendance and active participation.

It is also important to express our appreciation to the more than 50 exhibitors, co-organizers, and sponsors from various fields including government organizations, universities, research centers, and companies who contributed significantly to the success of the conference. We greatly appreciate their participation and support.

Finally, we would like to express our appreciation for the support provided to us by the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), TC, and Asian Regional TC, as well as the corporate members and individual members of the society who actively participated in the meetings and activities of 17ARC.

Conference reports

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kazakhstan (Con't)

General Conclusion and looking for the future

The 17ARC was an extraordinary interactive conference with great participants of attendees from 58 different countries that contributed their knowledge, experience and energy, making this international event a success. The conference was enriched by advanced keynote, special, invited, thematic lectures, each of which is a beacon of knowledge illuminating the path ahead. These presentations leave sparked our imaginations, sparking new ideas and collaborations that will spare the future of our geotechnical discipline. In parallel and special sessions, we had the privilege of witnessing the presentation of about 500 papers, that have led to very interesting discussions after each presentation, and we are sure they will serve as references, guides and sources of inspiration for years to come in the real future.

We would also like to underline the great success of the technical exhibition, which provided us all with the opportunity to explore the latest innovations, products, and services in the geotechnical field.

During this event intense ISSMGE activities took place. From the ISSMGE board meeting to the important ISSMGE Council Meeting (from the prestigious ISSMGE Award ceremony to the dynamic Young Members Competition in the poster session, our conference was characterized by these engaging initiatives. Furthermore, during the event, the ISSMGE Lifetime Achievement Medal was awarded to Professor Neil Taylor, General Secretary of ISSMGE for his great job in ISSMGE for about 24 years durable as Secretary General of ISSMGE.

In Opening Ceremony of ISSMGE Board on behalf of Eurasian National University (ENU) Council Vice Rector of ENU Prof. Serik Makysh awarded by ENU medals of President of ISSMGE Dr. Marc Ballouz and General Secretary of ISSMGE Prof. Neil Taylor, by Kultegen Medal of Vice -President of ISSMGE for Asia Prof. Keh-Jian Shou as well.

Let's not forget the joyful moments we shared in unforgettable social events. The "Welcome Cocktail and Reception", the Welcome Dinner of Asian Council Meeting Delegates, and the elegant "Gala Dinner" for participants of 17ARC with national and modern dancing added a delightful dimension to our conference experience. These meetings allowed all of us to connect on a personal level.

We are also proud of the publication of the Conference Proceedings a comprehensive collecting of works that capture the essence of this event. These Proceedings, a total of 2900 pages, were edited and published by Taylor & Francis. They are indexed and available for open access, serving as a valuable resource for our community.

The 17ARC also serves as a valuable platform for companies operating in the geotechnical industry to showcase their latest products, technologies, and services to a targeted audience of professionals, researchers, and academics.

Technical tours to Astana and Almaty (Kazakhstan) and satellite postconference geotechnical workshop in Issyk-Kul (Kyrgyzstan) was important for looking of several construction sites in Kazakhstan and also for exchanging of scientific ideas with representatives of Kazakhstan, Kyrgyzstan, USA, India, South Korea, Japan, Singapore, Iraq, Taiwan, Turkey, Russia, Poland geotechnics as well.

As the organizers of 17ARC, it was a great pleasure for us to be the host of this conference and we successfully held it. We sincerely hope that this event on "Smart Geotechnics for Smart Societies" has created many valuable ideas, exchanged knowledge, and established friendly relations, which promises us to cooperate in solving the actual and advanced geotechnical problems in the future.

We hope this conference will motivate future research efforts and international collaborations in soil mechanics and geotechnical engineering.

Prof. Askar Zhussupbekov, Dr. Assel Sarsembayeva, Kazakhstan Geotechnical Society

Conference reports

The 4th International Symposium on Machine Learning and Big Data in Geoscience (ISMLG 2023), Ireland

Introduction

Organised by ISSMGE TC309, the 4th International Symposium on Machine Learning and Big Data in Geoscience was successfully held at University College Cork, Cork, Ireland from the 30th of August to the 1st of September 2023. Nearly 200 scholars, researchers, students, industry partners and other professionals from more than 30 countries and regions attended this symposium, with six keynote lectures, four parallel sessions, one TC committee meeting and 3 Bright Spark lectures delivered. In this symposium, the presentations and discussions brought profound insights into how capable and powerful technologies like artificial intelligence can transform the way people understand and solve geoscience problems. Along with ISMLG 2023, a global meeting of COST ACTION CA21156 “European network for FOstering Large-scale Implementation of Energy geo-structure” was also held on the 28th-29th August before the official start of ISMLG 2023.



Figure 1 Group photo shot in front of the Main Quad of UCC

The symposium was officially opened by Dr. Zili Li, Chair of Organizing Committee and Senior Lecturer (Associate Professor) in Civil Engineering, UCC, on August 30 2023, by welcoming everyone and introducing the theme and agenda of this symposium. Following that, Professor John O’Halloran, the President of University College Cork delivered a warm welcome speech. He vividly introduced the story of George Boole, often referred to as the father of the digital age, and elaborated on his life and work as the first professor of mathematics at University College Cork. The symposium then started with two plenary keynote speeches by Professor Kenichi Soga from University of California, Berkeley and Mr. John Osborne, the leader of Civil Engineering Future Studies at CERN.

Conference reports

The 4th International Symposium on Machine Learning and Big Data in Geoscience (ISMLG 2023), Ireland (Con't)



Figure 2 Opening Ceremony by Zili Li and John O'Halloran

(1) Keynote lectures

The main session of ISMLG 2023 started on 30th August. Six keynote speakers delivered their lectures covering a wide range of topics in the field of big data and machine learning in geoscience and geoenvironment.

Prof. Kenichi Soga is the Donald H. McLaughlin Chair and a Chancellor's Professor at the University of California, Berkeley, a member of the National Academy of Engineering (NAE) in the USA, a fellowship of the Royal Academy of Engineering (FREng) of the UK and Engineering Academy of Japan. He introduced promising techniques to detect trends in high-dimensional data using machine learning combined with high-performance.

John Osborne is a senior civil engineer working at The European Centre for Nuclear Research (CERN). His presentation focused on the implementation of smart monitoring tools for data automation and remote inspections in the CERN tunnel network, including robotic mounted imaging, unmanned aerial vehicle and fibre optic sensors. He also introduced the tunnel condition analysis process- conducted and analysed via artificial intelligence technology, machine learning, graphic-based deep learning, photogrammetry and other new digital technologies.

Prof. Michael Mooney, a Grewcock chair professor of Underground Construction & Tunneling, Colorado school of Mines, presented an interesting lecture on the machine learning-based predicting of ground deformation and construction performance from pressure balance tunnel boring machine data. He introduced the application cases using machine learning to predict the displacement profile and advance speed in tunnel engineering, serving as a replacement and to inform eventual mechanics / physics-based understanding.

Prof. Zhenyu Yin, from The Hong Kong Polytechnic University, presented the lecture about the implementation of data-driven constitutive modelling using machine learning. He talked about the challenges and solutions in terms of data acquisition and path-dependent soil behaviour modelling. Furthermore, he discussed the strategy of incorporating uncertainty into neural networks in geotechnical engineering.

Conference reports

The 4th International Symposium on Machine Learning and Big Data in Geoscience (ISMLG 2023), Ireland (Con't)

Dr. Chris Burbidge, a Senior Research Scientist in Earth Analytics at UCD, presented data management and processing research for an Irish Applied Geoscience Research Centre. He also introduced the significant 'Geodata Platform' target to better reveal and understand the patterns in data-driven projects, and its management concerning diverse iCIRAG data, infrastructures, and centre delivery, policy and development.

Prof. Jelena Ninic from the University of Birmingham gave a comprehensive lecture about Building Information Modelling (BIM) and digital Twin (DT). In the lecture of 'digital modeling and computing for underground infrastructure', she presented the application of machine learning on data collection, modelling strategy and damage assessment in BIM and DT.



Figure 3 Keynote speakers (L-R, top-bottom): Kenichi Soga, John Osborne, Michael Mooney, Zhenyu Yin, Chris Burbidge, and Jelena Ninic

Conference reports

The 4th International Symposium on Machine Learning and Big Data in Geoscience (ISMLG 2023), Ireland (Con't)

(2) Parallel sessions

There are four parallel sessions throughout the conference held in four lecture rooms, i.e. Cummins 110, Cummins G09, Cummins SID and Elect L2, aimed at providing diverse content to attendees and offer networking opportunities for participants who share similar research interests. In response to visa-related attendance challenges faced by some participants, a decision was made to consolidate the initially scheduled 15 special sessions into 12 in order to optimize the operational efficiency of the conference. Each session was chaired by a leader at the end of the session.



Figure 4 Highlights of Parallel sessions: (L-R, top-bottom): Cummins 110, Cummins G09, Cummins SID, and Special session 10

Cummins 110 was the venue for session 1 (AI in offshore geotechnics and geoscience), 4 (Machine Learning for the Mapping of Marine Geology, Geomorphology and Habitats), 6 (Big data and machine learning for ageing tunnels and underground infrastructures) and 7 (Image Analysis and Machine Learning for Geomechanics). As the main venue, Cummins 110 had the largest audience, which required the speakers to be well prepared for their presentations to answer enthusiastic questions from the audience.

Conference reports

The 4th International Symposium on Machine Learning and Big Data in Geoscience (ISMLG 2023), Ireland (Con't)

Cummins G09 accommodated special session 5 (Machine Learning & Data-driven based TBM Tunnelling), 8 (Deep Learning & Computer Vision Aided Characterization of Geotechnical Processes), 9 (Innovative monitoring technologies and artificial intelligence for underground space) and 12 (Data-driven solutions for underground built heritage modelling, preservation and valorization). The most recent advancements in the development as well as application of intelligent models for TBM tunnelling was an important topic and current limitations of intelligent models in solving TBM tunnelling issues were discussed in this session.

Cummins SID hosted special session 2 (Big data and machine learning in life-cycle design, construction and maintenance of tunnel and underground engineering) and 3 (Application of Machine Learning and Big Data in Geotechnical and Geohazard Investigations). Although there were only two special sessions in Cummins SID, nine topics with main focus on better understanding the ground-tunnel interaction were definitely informative.

Special session 10 (Back Analysis using Machine Learning for the Observational Method - Lessons Learnt and Future Directions), 13 (Emerging technologies in geotechnics and urban systems) and 14 (Data Quality Assurance and Pre-processing in Geoscience) were arranged in Elect L2. In this session, how to apply Machine Learning techniques to facilitate the “real time back analysis” as the construction work progresses were presented.

(3) Bright Spark Lectures

The ISMLG 2023 is pleased to announce the recipients of the prestigious Bright Spark Lecture Award, recognizing exceptional contributions to the field of geotechnical engineering. These distinguished young engineers have been selected for their outstanding achievements and presented keynote lectures at the conference held at University College Cork (UCC).

The recipients of the Bright Spark Lecture Award are as follows:

- **Brian Sheil (Cambridge):** Dr. Brian Sheil is a world-leading researcher in underground construction. His pioneering work in digital underground construction has revolutionized the field, focusing on the development of new science and technology to optimize the efficiency, sustainability, and safety of civil infrastructure construction.
- **Mingliang Zhou (Tongji University):** Dr. Mingliang Zhou has demonstrated exceptional expertise in geotechnical engineering. His research contributions have had a significant impact on the field, particularly in the areas of Multiphysics processes in geotechnical practice.
- **Zili Li (University College Cork):** Dr. Zili Li, from the host institution University College Cork (UCC), is celebrated for his remarkable achievements in geotechnical research. His work has greatly contributed to the advancement of geotechnical engineering practices, particularly in the context of CERN research.



Figure 5 Bright Spark Lecture Award winners (L-R): Brian Sheil, Mingliang Zhou, and Zili Li

Conference reports

The 4th International Symposium on Machine Learning and Big Data in Geoscience (ISMLG 2023), Ireland (Con't)



Figure 6 Banquet and highlights in conference

The hybrid TC309 committee meeting was held on the afternoon of August 31st (Fig 6) in Iris Ashley Cummins Building (former Civil Engineering Building) at University College Cork chaired by Dr. Zhongqiang Liu, Chair of ISSMGE TC309.

Conference reports

The 4th International Symposium on Machine Learning and Big Data in Geoscience (ISMLG 2023), Ireland (Con't)

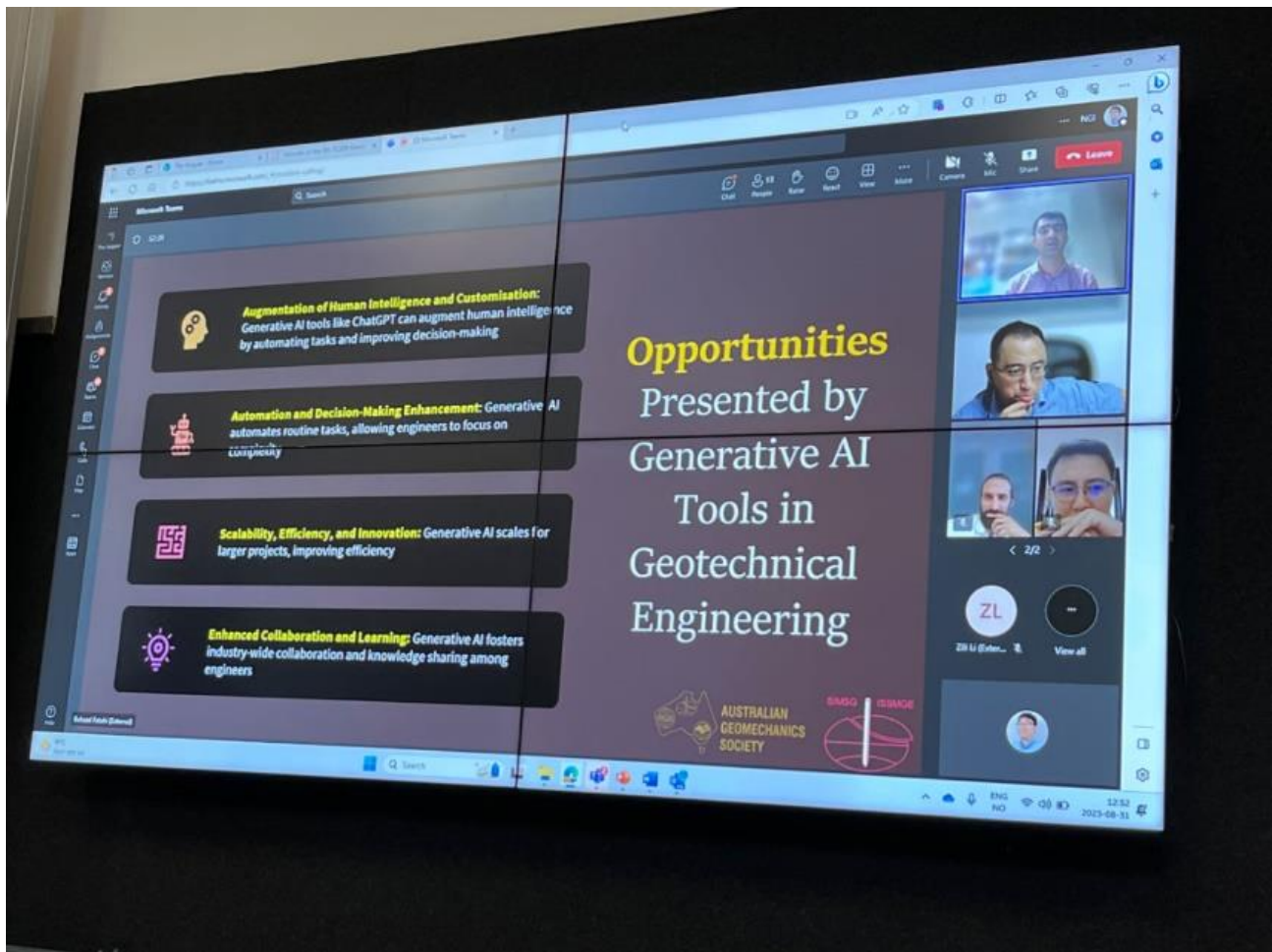


Figure 7. Hybrid TC309 committee meeting in ISMLG 2023

During the meeting, participants first gave a short introduction of themselves, followed by the discussion and approval of the 8th TC309 minutes.

Dr. Liu then briefly introduced the current task forces in TC309 including: 1) Development of benchmark datasets (Task leader: Wengang Zhang), 2) Big data acquisition (Task leader: Zili Li), 3) Site investigation and geo-materials behavior (Task leader: Mohammad Rezaia), 4) Design (Task leader: Bruno Stuyts), 5) Construction, Maintenance (Task leader: Dongming Zhang), 6) Interact with industry, standards and guidelines (Task leader: Byron Quan Luna).

The next TC309 in-person event has been tentatively scheduled as a TC309 pre-conference workshop at ECSMGE XVIII in Lisbon from 9.00 to 13.00 August 25th, 2024, as shown in Figure 7.

Conference reports

The 4th International Symposium on Machine Learning and Big Data in Geoscience (ISMLG 2023), Ireland (Con't)

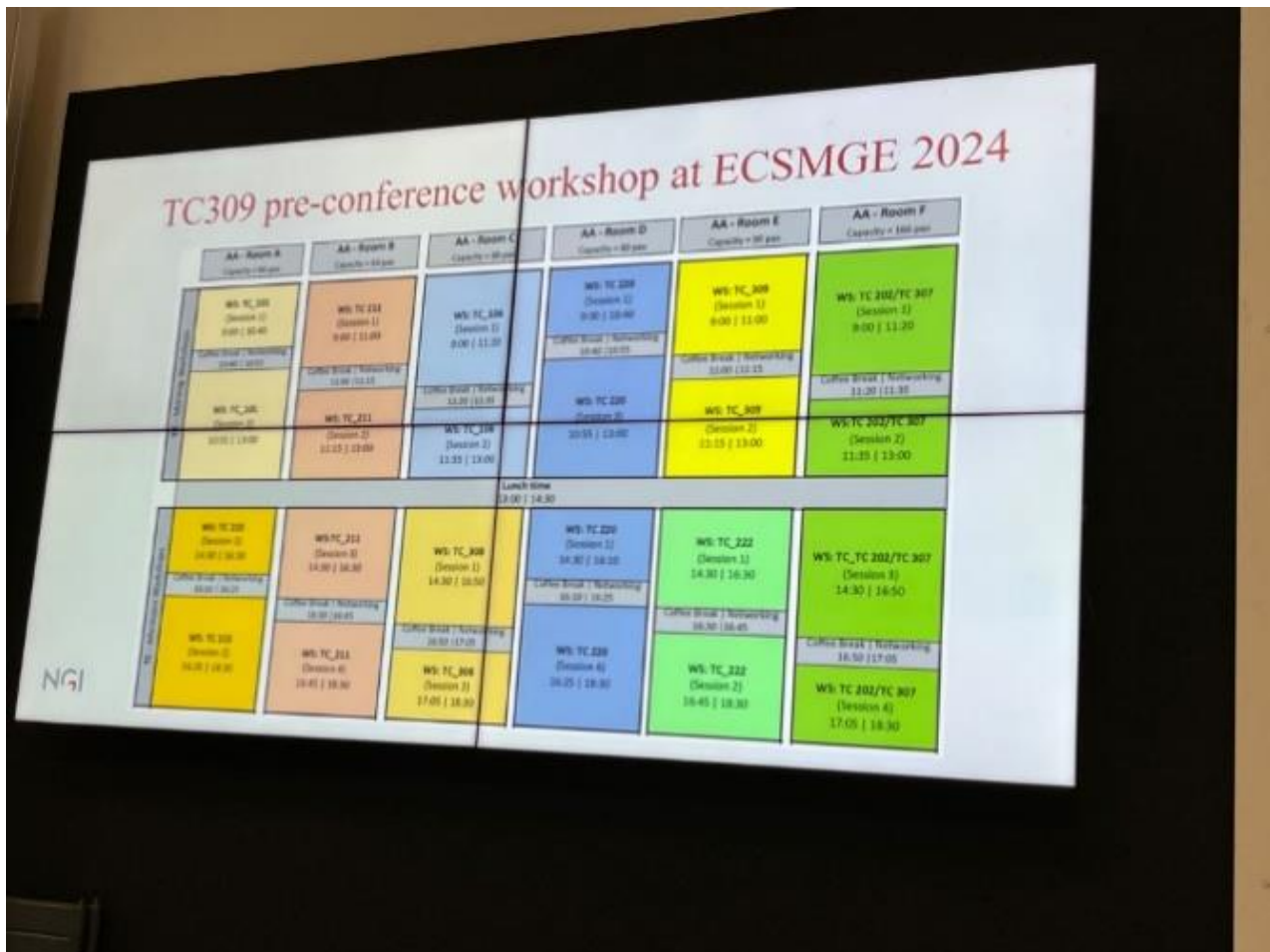


Figure 8 TC309 pre-conference workshop at ECSMGE 2024

In the next agenda, Prof. Hui (Jack) Wang from the University of Dayton, USA, reported the ISSMGE TC304/TC309 Student Contest on Data Analytics. Out of about 30 international institutions that expressed interest in the competition, 6 teams eventually submitted solutions to the competition organizers. A committee was formed and assessed the validity of the solutions and provided the final recommendation:

- First place: Tongji University team, Jinzhang Zhang, Qihao Jiang, Yelu Zhou, Lei Fu, and Hao Bai
- Second place: National Central University team, Wan-Ying Chien, Yu-Chen Lu, Chi-Hsiang Yeh
- The TC309 meeting then recapped a recent roundtable panel discussion by AGS and approved the establishment of a TC309 task force on Generative AI in Geotechnical Engineering Practice, after a brief introduction of this new task force by the task leader.

Finally, the 5th ISMLG was formally approved to be held at the Hong Kong Polytechnic University (PolyU) and Hong Kong University of Science and Technology in May 2026. Prof. Zhenyu Yin, co-chair of 5ISMLG, delivered a welcome presentation on the symposium theme, conference venues in Hong Kong, as well as local technical visits, food, entertainment, visa policy, etc.

At the end of the meeting, the chair, Dr. Zhongqiang Liu, and the local organising member, Dr. Zili Li, presented a summary of the comments and suggestions from the participants.

Conference reports

The 4th International Symposium on Machine Learning and Big Data in Geoscience (ISMLG 2023), Ireland (Con't)

Pre-workshop, Geothermal workshop, August 28th and 29th

"European network for fostering Large-scale implementation of energy geostructure" Working Group & Management Committee Meeting was held prior to the ISMLG 2023. The purpose of this conference was to gather the members face to face for better discussion and make decisions on the various agenda items outlined. Nearly 80 people, including members of different working groups and researchers from other universities attended the meeting.



Figure 9 COST Action CA21156 working group

In the beginning, Prof. Hussein Mroueh shared the latest news about the action. Following that, 5 Working Groups' leaders displayed and reported on the work progress of their working groups and discussed some unsolved and promising problems in process respectively. Prof. Søren Erbs Poulsen from VIA University College, Denmark gave a presentation on the topic of "Full-scale demonstration of combined 5GDHC and sustainable urban drainage (SUDS) using the roadbed as an energy geostructure". Then the working group leader Prof. Fabien Szymkiewicz (Université Gustave Eiffel, France) discussed some unresolved technical issues which sparked a very active discussion. The third speaker is Prof. Diana Salciarini (the University of Perugia, Italy) who has demonstrated exceptional expertise in geotechnical engineering, and she gave the presentation on the topic of "Case studies for large-scale implementation of energy geostructures: insights from the COST-FOLIAGE WP2 activities and future perspectives". Dr. Lazaros Aresti (Cyprus University of Technology, Cyprus) mainly focused on Integration of energy geostructures with other energy sources: potential and prospect. The last speaker was Prof. Tsagarakis Konstantinos (Technical University of Crete, Greece), he discussed about some non-technical issues for large-scale energy geostructures.

Conference reports

The 4th International Symposium on Machine Learning and Big Data in Geoscience (ISMLG 2023), Ireland (Con't)



Figure 10 Starting speech and presentations of 5 groups' Leaders (L-R, top-bottom): Hussein Mrouehive, Søren Erbs Poulsen, Fabien Szymkiewicz, Diana Salciarini, Lazaros Aresti, and Tsagarakis Konstantinos

Acknowledgements

The ISSMGE TC309 thanks all the local organizing committee, delegates, speakers, volunteers, exhibitors (iCrag and DUSE) and the silver sponsor (Ward & Burke) for their contributions to the success of this symposium. The exceptional organisation by the conference partner Abbey Conference and Events, the host University College Cork and Dr. Zili Li's team, including the logistics, the preparations, the arrangements, etc., has made this symposium a great success and their efforts and contributions are greatly appreciated.

Conference reports

XX Technical Dam Control International Conference, Poland

From September 12-15, 2023 the XX International Scientific and Technical Conference on Dam Control and Safety of Hydraulic Structures was held in Chorzów, Poland. The conference was attended by specialists from different countries: South Korea, Japan, Italy, Ukraine, Poland, Kosovo, France, and Slovenia.

The Faculty of Architecture and Civil Engineering, Department of "Civil Engineering" teaching staff Dr.Tech.Sc., Prof. A.Zh. Zhussupbekov and Ph.D. A.S. Tulebekova also took part in the scientific event.

The organizing committee of the international conference was Professors of Warsaw University of Technology - Jan Winter and Zbigniew Kledyński, as well as Secretary Ph.D. Agnieszka Dąbska, who made welcoming speeches. The opening ceremony was continued by D. Cabańska - General Inspector of Construction Supervision (Poland), Paweł Popielski - Dean of Faculty of Building Services, Hydro and Environmental Engineering at Warsaw University of Technology, and others. The speakers emphasized the importance of developing international cooperation and the priority of scientific and technical works in the field of construction and monitoring of hydraulic structures.



Opening of the international scientific conference
TKZ2023



Report by Prof. A.Zh. Zhussupbekov

The program of the conference TKZ2023 included 4 technical sessions with 26 reports. The peculiarities of numerical modeling of the interaction between the dam model and soil base in undermined areas of Kazakhstan were discussed by Professor A.Zh. Zhussupbekov, noting that the foundations of structures in such areas experience non-uniform settlements, as well as horizontal displacements.

On the features of surveys of hydrological characteristics of the construction area of roads in difficult soil conditions, on a practical example, presented Ph.D., Acting professor of the Department of "Civil Engineering" Tulebekova AS.

At the end of each section a "Discussion" was held, where the participants had an opportunity to exchange information in the format of discussion. The technical exhibition presented by companies producing machinery equipment, and construction materials allowed for familiarizing with advanced technologies in the field of hydraulic engineering and construction.

In addition, the participants of the scientific conference had the opportunity to visit the technical tour "Goczałkowice reservoir". Goczałkowice Reservoir was built due to the construction of an earth dam on the Mala Wisla River in 1956. The main tasks are, firstly, to use the waters of the reservoir to supply the population and industry of Upper Silesia. The second, but no less important function is flood protection.

Conference reports

XX Technical Dam Control International Conference, Poland (Con't)



During the technical tour

Papers of the participants of the international scientific conference were reviewed and qualified for submission for publication in the following journals: Archives of Civil Engineering, Journal of Water and Land Development, Water (MDPI), Energetyka Wodna, Gospodarka Wodna, Inżynier Budownictwa, IMGW Monographs, some of which are included in the Scopus database.

ISSMGE Foundation Reports

The 9th International Conference on Environmental Geotechnics (ICEG), a globally renowned event for geotechnical and geoenvironmental engineers, took place from 25 to 28 June 2023. This four-day conference brought together professionals from around the world, providing a platform for knowledge exchange and networking.

The conference featured a diverse program, including 12 invited keynote lectures, 3 panel discussions, 3 special sessions, 4 Bright Spark lectures and about 244 oral presentations. The event commenced on June 25th with Welcome notes delivered by Prof. D. Zekkos, Prof. M. Ballouz, and Prof. K.S. Lord. Following this, a welcome reception was held, serving as an icebreaker for all attendees, fostering a friendly and collaborative atmosphere.

The technical sessions began on June 26th with R K Rowe lecture by Prof. A. Bouazza, setting the tone for the conference's engaging presentations and discussions. Each day of the event featured a range of activities to keep researchers actively engaged and enhance their knowledge. Invited lectures, special sessions, and panel discussions were organized, providing diverse perspectives and insights into the field of environmental geotechnics. These sessions fostered valuable exchanges of ideas and facilitated in-depth discussions on important topics.

Furthermore, post-lunch sessions each day included oral presentations, offering an opportunity for young researchers to present their work. Throughout the conference, an exhibition area showcased the participation of numerous companies. This platform allowed attendees to engage with professionals, learn about the projects they handle, and explore the solutions they offer for a variety of geotechnical and geoenvironmental engineering challenges.

Overall, the 9th ICEG was a remarkable event that brought together experts in the field, provided a platform for fruitful discussions and knowledge sharing, and facilitated interactions with professionals from various sectors.



With Prof. L. Van Paassen (left) and Prof. H. El Naggar (right)

*Deepesh Bansal
Indian Institute of Technology Delhi*

ISSMGE Foundation Reports (Con't)

The NUMGE 2023 was organised by Imperial College London, United Kingdom during 26-28 June 2023. The conference comprised the current state-of-the-art in numerical methods in Geotechnical Engineering and highlight current challenges faced in their application to geotechnical problems. This conference gave the participants a platform to make connections with each other and discuss their research work. The keynote lectures were very informative and highly useful for participants. Similarly, the theme lectures were arranged in such a way that everyone can take benefit from them, related to their research work. Every paper was unique and there was diversity in terms of numerical technique and application related to geotechnical engineering. This conference was an eye-opener for me in learning new aspects of numerical methods, large deformation finite element formulations, and their application in geotechnical engineering. I am very much grateful to the ISSMGE foundation for providing me with financial support for attending the international conference.



With Prof. David Potts



With Prof. Mahdi Taiebat



With Prof B. Manna and Dr. Smrutirekha Sahoo



With Dr. Mazid Nazeem

Kritesh Chouhan
S V National Institute of Technology Surat, Gujarat, India

ISSMGE Foundation Reports (Con't)

The 9th International Congress on Environmental Geotechnics (9ICEG) 2023 which is the premier conference series in Environmental Geotechnics under the auspices of the Technical Committee “Environmental Geotechnics” (TC215) of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) was held in the town of Chania - Crete in Greece.

More than 1300 scientists and specialists attended the Conference from different countries of the world. The main Conference themes were:

- 1) **LANDFILLING:** Waste characterization and properties Stability & deformation of waste Geotechnical recycling and reuse of waste materials Construction and demolition wastes dredged sediments Other solid wastes.
- 2) **CONTAMINANT TRANSPORT AND FATE GEOENVIRONMENTAL LAND REMEDIATION:** Degradation and attenuation Emerging contaminants Contaminated land and remediation technology In-situ remediation Off-site remediation, with New remediation technologies.
- 3) **CLIMATE CHANGE IMPACT & MITIGATION:** Greenhouse gas emissions and control Geoenvironmental risk assessment Sustainability Risk-based site evaluation and management.
- 4) **GEO-ENERGY:** Nuclear waste CO2 sequestration Shallow and deep energy-harvesting Methane hydrates Underground storage facilities.
- 5) **RESOURCE MINING & EXTRACTION:** Coal combustion residues Tailings and mine wastes Tailing ponds Acid mine drainage Heap leach pads.

For me, the focus of my main interest was RESOURCE MINING & EXTRACTION, where I presented my research about the ENVIRONMENTAL GEOTECHNICAL TECHNIQUES TO REDUCE MINE SOLID WASTE ACCUMULATION (AN APPLIED STUDY ON THE REGION OF TEBESSA, EASTERN ALGERIA) I also touched on the latest methods of exploration and extraction of iron ore.; I also presented a poster on the same subject, and I enjoyed listening to my colleagues lectures.

Every day during the conference period. This highlights the current relevance and the complexity of different topics and aspects of Environmental Geotechnics.

Another interesting feature of the conference is its multicultural and multinational character, which makes the event a place of scientific exchange for current and future collaborations. From the presentations, it was possible to observe the existing and past projects run by multiple countries.

As a PhD student, coming from a low-economy country with little research on the topic, and consequently low technical expertise, the opportunity of attending this conference represented a turning point in my research and my career. I came back with a completely new and more open thinking than before, and this opportunity allowed me to find research partners from other countries.

*Hamida Diab
University Badji Mokhtar Annaba, Algeria*

ISSMGE Foundation Reports (Con't)

The 9th International Conference on Environmental Geotechnics (ICEG), a globally renowned event for geotechnical and environmental engineers, took place from 25 to 28 June 2023. This conference brought together experts from all over the world to share knowledge and ideas. The conference featured a rich program including 12 invited keynotes, 3 panel discussions, 3 special sessions, 4 Bright Spark lectures, and 244 oral presentations. In the beginning, welcoming speeches were made by Prof. D. Zekkos, Prof. M. Ballous and Prof. K. Sample-Lord. After that, a welcoming reception was held, creating a friendly joint atmosphere. The technical sessions began with a lecture by Prof. A. Buazza, which started interesting presentations and discussions at the conference.

Each day of the conference was aimed at the active participation of researchers. Invited lectures, special sessions, and panel discussions presented various perspectives on environmental geotechnics. These events contributed to the exchange of ideas and in-depth discussion of important geo-environmental topics. Throughout the conference, the developments of industrial geotechnical companies were demonstrated at the exhibition site. The conference participants were able to communicate with professionals and get acquainted with the technical means for solving various geotechnical and geocological engineering problems.

All in all, the 9th ICEG was a remarkable event, bringing together professionals from all over the world, providing a platform for fruitful discussions and knowledge sharing, and facilitating the interaction of experts from various fields.

I would like to thank the ISSMGE Foundation for financially supporting this amazing and important conference.



Me meeting Prof. Dimitrios Zekkos, the 9th ICEG Conference Chair and Prof. Arvin Farid

Viacheslav legupov

O.M. Beketov National University of Urban Economy in Kharkiv, Ukraine

ISSMGE Foundation Reports (Con't)

The 10th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE 2023) was conducted in the Imperial College, London from 26th -28th June 2023. It is a part of the conference series organised by European Regional Technical Committee 7 for Numerical Methods with the support of ISSMGE foundation. It was an incredible opportunity to interact with like-minded researchers as the conference happens only once in four years. The key-note lecture was given by Dr. Lidija Zdravkovic, and Dr. Helmut Schweiger. The conference was organised as a part of the Scott Sloan Memorial programme. The event started off with a theme lecture on numerical modelling used in the area of offshore geotechnical engineering, in which the speaker Dr. Susan Gourvenec presented the used of finite element modelling in off-shore constructions. Most of the papers presented in the conference used platforms such as Plaxis, Geostudio, ABAQUS, and other finite element-based software for various analysis. Few of the note-worthy presentations are being discussed in this highlight. One of the interesting presentation on tailings dam failures was the numerical assessment of drilling induced static liquefaction triggering of Feijao Dam which used finite element modelling to reanalyse the liquefaction triggering process to assess whether drilling works, at two sections, could trigger liquefaction first in the immediate area around the borehole by leading to an increase in pore water pressure around the drill hole and then whether this would be sufficient to lead to flow liquefaction of the entire structure. The Arbitrary Lagrangean Eulerian method was observed to be used by a number of papers presented in the conference for incorporating mesh deformations and accommodating large deformations specially when dealing with mine tailings. Anton Pillai from ARUP gave an enlightening theme lecture wherein he discussed three case studies. The idea being, it does not improve accuracy if the key complexities are not well understood when modelling using finite element method. An intriguing work presented in the area of tunnelling discussed the influence of building constructions on existing tunnels in terms of their horizontal and vertical displacements for constructions in Delhi region, India, using PLAXIS 3D.

The NUMGE 2023 was a true confluence of industrial and academic ideas. The experience has helped widen my intellectual horizons in the area of advanced numerical techniques and their applications in the field of geotechnical engineering. I whole heartedly thank the ISSMGE foundation for supporting me in attending this conference.



Me with Dr. Reid



A photo with Dr. Bappaditya Manna

Akhila Vasudevan Nampoothiri
Indian Institute of Technology, Guwahati

Event Diary

ISSMGE EVENTS

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

2023

2nd International Conference on Construction Resources for Environmentally Sustainable Technologies

Location: Fukuoka International Congress Center, Fukuoka, Japan

Dates: 20-11-2023 - 22-11-

Language: English

Organiser: Kyushu University

Contact person: Secretariat of CREST 2023

Address: Room No. 1124, West Building 2, Kyushu University 744 Motooka, Nishi-ku, Fukuoka, Japan

Phone: +81 092-802-3369

Email: info@ic-crest.com

Website: <https://www.ic-crest.com/>

The 5th International Conference on Geotechnics for Sustainable Infrastructure Development

Location: National Convention Center (NCC), Hanoi, Vietnam,

Dates: 14-12-2023 - 15-12-2023

Language: English

Organiser: FECON Corporation, Vietnamese Society for Soil Mechanics and Geotechnical Engineering (VSS-MGE), Japan Geotechnical Society (JGS), Thuyloi University (TLU), and Vietnam Petroleum Institute (VP

Contact person: Tien-Dung NGUYEN

Address: FECON, 15th Floor, CEO Tower, HH2-1 Lot, Me Tri Ha Urban Area, Pham Hung Street, Me Tri Ward, Nam Tu Liem District, Hanoi

Phone: + 84 903 440 978

Fax: + 84 246 269 0484

Email: secretariat@geotechn.vn

Website : <https://geotechn.vn/>

2024

The 14th Austrian Geotechnical Conference - Vienna Terzaghi Lecture

Location: Vienna Messe Congress Center, Austria , Vienna

Dates: 01-02-2024 - 02-02-2024

Language: German and English

Organiser: VÖBU - ÖIAV - TU Wien

Contact person: Prof. Dr. Dietmar Adam

Address: Karlsplatz 13

Email: dietmar.adam@tuwien.ac.at

Website: <https://oegt.voebu.at/>

Email : office@voebu.at

Event Diary (Con't)

GEO-CONGRESS 2024

Location: Fairmont Waterfront, Vancouver, BC, Canada,

Dates: 25-02-2024 - 28-02-2024

Language: English

Organiser: Geo-Institute of the American Society of Civil Engineering (G-I of ASCE)

Contact person: ASCE registration

Email: registrations@asce.org

Website : <https://www.geocongress.org/>

Email : registrations@asce.org

7th International Conference series on Geotechnics, Civil Engineering and Structures (CIGOS)

Location: Ho Chi Minh City, Vietnam

Dates: 04-04-2024 - 05-04-2024

Language: English

Organiser: Association of Vietnamese Scientists and Experts (AVSE Global) and University of Architecture

Ho Chi Minh City (UAH)

Contact person: cigos2024@sciencesconf.org

Website : <https://cigos2024.sciencesconf.org/>

International Conference on Geotechnical Engineering (ICGE'24)

Location: Hammamet, Tunisia

Dates: 25-04-2024 - 27-04-2024

Language: English

Organiser: The Geotechnical and Georisk Research Laboratory

Contact person: National Engineering School of Tunis

Address: BP 37 Le Belvédère

Email: contact@icge24.com

Website : <http://www.icge24.com>

International Foundation Congress and Equipment Expo

Location: Hyatt Regency Dallas, United States

Dates: 07-05-2024 - 10-05-2024

Language: English

Organiser: DFI, ADSC, GeoInstitute of ASCE, PDCA

Contact person: Peggy Hagerty-Duffy

Address: PO Box 93583

Phone: (469) 359-6000

Email: phd@adsc-iafd.com

Website: <http://ifcee2024.com>

Email: adsc@adsc-iafd.com

8th International Conference on Earthquake Geotechnical Engineering

Location: Osaka International Convention Center, Osaka, Japan

Dates: 07-05-2024 - 10-05-2024

Language: English

Organiser: Japanese Geotechnical Society

Contact person: Ryosuke UZUOKA

Email: uzuoka.ryosuke.6z@kyoto-u.ac.jp

Event Diary (Con't)

2024 Geoshanghai International Conference

Location: Tongji University, WH Ming Hotel, Shanghai, China

Dates: 26-05-2024 - 29-05-2024

Language: English

Organiser: Tongji University

Contact person: Mingliang Zhou

Address: Department of Geotechnical Engineering, College of Civil Engineering, Tongji University

Phone: +86-13918955481

Email: geoshanghai@tongji.edu.cn

Website : <http://www.geo-shanghai.org>

11th International Symposium of Geotechnical Aspects of Underground Construction in Soft Ground (IS-Macau 2024)

Location: Macao SAR, China,

Dates: 14-06-2024 - 17-06-2024

Language: English

Organiser: State Key Laboratory of IoT for Smart City (IoTSC) , Department of Civil and Environmental Engineering (University of Macau) and TC204 of the ISSMGE

Contact person: ZHENG GUAN

Address: Faculty of Science and Technology University of Macau, E11 Avenida da Universidade, Taipa, Macau, China

Phone: +85388229153

Fax: (853) 8822-2426

Email: ismacau2024@um.edu.mo

Website : <https://is-macau2024.skliotsc.um.edu.mo>

7th International Conference on Geotechnical and Geophysical Site Characterization

Location: Campus Nord UPC, Barcelona, Spain

Dates: 18-06-2024 - 21-06-2024

Language: English

Organiser: UPC-CIMNE

Contact person: CIMNE Congress Bureau

Address: Campus Nord UPC Building C1 - Office C4 C/ Gran Capità, S/N

Phone: +34 93 405 4694

Email: isc2023secretariat@cimne.upc.edu

Website: <https://isc7.cimne.com/>

28th European Young Geotechnical Engineers, Conference 2024

Location: Skopje, North Macedonia

Dates: 25-06-2024 - 29-06-2024

Language: English

Organiser: Macedonian Association for Geotechnics

Contact person: Ms. Elena Angelova

Address: Blvd. Partizanski odredi No.24,

Email: mag@gf.ukim.edu.mk

Website : <https://mag.net.mk/>

Event Diary (Con't)

14th International Symposium on Landslides 2024

Location: Le Manège Congress Center, France , Chambéry

Date : 07-07-2024 - 12-07-2024

Language English

Organiser: JTC1 and national societies CFMS/CFGI/CFMR/INDURA/IREX/USMB

Contact person: Véronique Merrien - François Nicot

Email: contact@isl2024.com

Website : <https://www.isl2024.com/>

XVIII European Conference on Soil Mechanics and Geotechnical Engineering

Location: Lisbon, Portugal

Dates: 25-08-2024 - 30-08-2024

Language: English

Organiser: SPG

Contact person: SPG

Address: Av. BRASIL, 101

Email: spg@lnec.pt

Website: <http://www.spgeotecnia.pt>

4th International Conference of International Society for Intelligent Construction (ISIC 2024)

Location: DoubleTree by Hilton Hotel Orlando at SeaWorld, United States

Date: 10-09-2024 - 12-09-2024

Language: English

Organiser: International Society for Intelligent Construction (ISIC)

Contact person: Patte Hahn

Address: 2857 Jolly Road

Phone: +1 (517) 432-8220

Email: hahnp@egr.msu.edu

Website : <https://www.is-ic.org/conferences/2024-isic-international-conference/>

Nordic Geotechnical Meeting - NGM 2024

Location: Lindholmen Science Park, Göteborg, Sweden

Dates: 18-09-2024 - 20-09-2024

Language: English

Organiser: Swedish Geotechnical Society

Contact person: Victoria Svahn

Address: Sveaborgsvägen 16

Email: info@sgf.net

Website: <http://www.ngm2024.se>

Email: ngm2024@sgf.net

IS-Grenoble 2024: International Symposium on Geomechanics from Micro to Macro

Location: Maison MINATEC, Grenoble, France

Dates: 23-09-2024 - 28-09-2024

Language : English

Organiser: TC105 Geo-Mechanics from Micro to Macro

Contact Information

Contact person: Cino Viggiani

Email: cino.viggiani@3sr-grenoble.fr

Website : <https://is-grenoble2024.sciencesconf.org/>

Email: is-grenoble2024@sciencconf.org

Event Diary (Con't)

5th European Conference on Physical Modelling In Geotechnics

Location: Deltares, Delft, Netherlands

Dates: 02-10-2024 - 04-10-2024

Language: English

Organiser: Deltares & Delft University of Technology

Contact person: Suzanne van Eekelen & Miguel Cabrera

Email: organisation.ecpmg24@gmail.com

XVII Panamerican Conference on Soil Mechanics and Geotechnical Engineering

Location: Pucón, Chile

Dates: 12-11-2024 - 17-11-2024

Languages: Spanish - English

Organiser: Chilean Geotechnical Society (SOCHIGE)

Contact person: Omar Núñez Esper

Address: San Martín 352, Santiago

Email: info@panamgeochile2024.cl

Website: <https://panamgeochile2024.cl>

10th AYGEC Asian Young Geotechnical Engineers Conference

Location: Bidakara Hotel, Jakarta, Indonesia

Dates: 11-11-2024 - 14-11-2024

Languages: English

Organiser: Indonesian Society for Geotechnical Engineering (ISGE)

Email: info@10aygec-pit28.hatti.com

Website: <http://10aygec-pit28.hatti.or.id>

XVII Panamerican Conference on Soil Mechanics and Geotechnical Engineering

Location: La Serena, Chile

Dates: 12-11-2024 - 17-11-2024

Languages: Spanish - English

Organiser: Chilean Geotechnical Society (SOCHIGE)

Contact person: Omar Núñez Esper

Address: San Martín 352, Santiago

Email: info@panamgeochile2024.cl

Website: <https://panamgeochile2024.cl>

5th International Conference on Transportation Geotechnics

Location: Sydney Masonic Centre, 66 Goulburn Street Sydney NSW 2000 Australia

Dates: 20-11-2024 - 22-11-2024

Language: English

Organiser: UTS Transport Research Centre (<https://www.uts.edu.au/research/transport-research-centre>)

Contact person: Dr Chamindi Jayasuriya

Address: 15 Broadway

Email: chamindijayasuriya@gmail.com

Website: <http://www.ictg2024.com.au>

Email: Cholachat.Rujikiatkamjorn@uts.edu.au

Event Diary (Con't)

The 2nd GEOMANDU: Geotechnics for Sustainable Infrastructures

Location: Kathmandu, Nepal

Dates: 28-11-2024 - 29-11-2024

Language: English

Organiser: Nepal Geotechnical Society

Contact person: Mandip Subedi (Dr.); President of Nepal Geotechnical Society

Email: mandip.subedi@gmail.com

Website: <https://geomandu.ngeotechs.org/>

Email: ngeotechs@gmail.com

2025

The 5th International Symposium on Frontiers in Offshore Geotechnics (ISFOG)

Location: La Cité des Congrès de Nantes, France

Dates: 09-06-2025 - 13-06-2025

Language: English

Organiser: University Gustave Eiffel, CFMS, French Mirror Group of the Technical Committee TC 209

Contact person: Sylvie Bretelle

Email: s_bretelle@hotmail.com

Address: 1 rue du vieux pont

Website: <https://isfog2025.univ-gustave-eiffel.fr/>

Email: luc.thorel@univ-eiffel.fr

2026

21st International Conference on Soil Mechanics and Geotechnical Engineering

Location: Vienna, Austria

Dates: 14-06-2026 - 19-06-2026

Language: English

Organisers: Austrian Geotechnical Society and Austrian Society for Geomechanics

Contact person: Prof. Helmut F. Schweiger

Email: helmut.schweiger@tugraz.at

NON-ISSMGE SPONSORED EVENTS

AGS Sydney Symposium 2023

Location : Australian National Maritime Museum, Australia , Sydney

Dates : 10-11-2023 - 11-11-2023

Language : English

Organiser : Australian Geomechanics Society Sydney Chapter

Contact person : Cholachat Rujikiatkamjorn

Address : University of Technology Sydney

Email : cholachat.rujikiatkamjorn@uts.edu.au

Website : <https://australiangeomechanics.org/meetings/sydney-symposium-2023/>

Email: Mehdi.Tamadon@ghd.com

Event Diary (Con't)

GEOMATE 2023

Location: Hotel Tsu centre Palace, Japan , Tsu
Dates: 14-11-2023 - 16-11-2023
Language: English
Organiser: THE GEOMATE INTERNATIONAL SOCIETY
Contact person: Prof. Dr. Zakaria Hossain
Address: Mie Ken, Tsu city, Kurimamachiya-cho 1577
Email: zakaria@bio.mie-u.ac.jp
Website: <https://geomate.org/index.html>
Email: conference@geomate.org

The 9th Geotechnical Symposium

Location: ITU Süleyman Demirel Cultural center, Ayazaga Campus, Maslak, Turkey , Istanbul
Dates: 22-11-2023 - 24-11-2023
Language: English and Turkish (Simultaneous translation is provided)
Organiser: Istanbul branch of the UCTEA Turkish Chamber of Civil Engineers supported by The Turkish Geotechnical Society for ISSMGE
Contact person: umutdagar@gmail.com
Address: Istanbul Branch of Chamber of Civil Engineers, Karakoy, Istanbul
Email: 9geoteknik@imo.org.tr
Website: <https://9geoteknik.org/>

International Symposium on Innovations in Geotechnical Engineering Towards Sustainability

Location: Hong Kong
Dates: 30-11-2023 - 04-12-2023
Language: English
Organiser: The Hong Kong Polytechnic University
Contact person: Weijian Liang
Address: ZS928, BlockZ, PolyU, Hung Hom, Kowloon, Hong Kong
Email : weijian.liang@polyu.edu.hk
Website: <https://iges2023.github.io/>
Email: iges.2023dec@polyu.edu.hk

16th International Conference on Structural and Geotechnical Engineering

Location: Triumph Luxury Hotel, New Cairo, Egypt
Dates: 27-12-2023 - 28-12-2023
Language: English
Organiser: Faculty of Engineering- Ain Shams University
Contact person: Mohamed Abdelmotaal
Address: 1 ElSarayt street, Waili
Email: ICSGE16@eng.asu.edu.eg
Website : <https://eng.asu.edu.eg/icsge/overview>

Event Diary (Con't)**2024****2nd Annual Conference on Foundation Decarbonization And Re-Use**

Location: Royal Tropical Institute (KIT), Amsterdam, Netherlands

Dates: 28-05-2024 - 30-05-2024

Language: English

Organiser: KIVI, DFI

Contact person: Angelique van Tongeren

Address: Prinsessegracht 23

Phone: 0630095962

Email: info@foundationreuse.com

Website: <https://foundationreuse.com/>

The Third International Conference on Press-In Engineering 2024, Singapore

Location: University Town, National University of Singapore

Dates: 03-07-2024 - 05-07-2024

Language: English

Organiser: ICPE2024 Organizing Committee and International Press-in Association

Contact person: ICPE Organizing Committee / IPA Secretariat

Address: 5F, Sanwa Konan Bldg, 2-4-3 Konan, Minato-ku, Tokyo 108-0075, Japan

Phone: 81-0354611191

Fax: 81-0354611192

Email: tokyo@press-in.org

Website : <https://2024.icpe-ipa.org/>

DFI 49th Annual Conference on Deep Foundations

Location: Gaylord Rockies Resort & Convention Center, Aurora, United States

Dates: 07-10-2024 - 10-10-2024

Language: English

Organiser: Deep Foundations Institute (DFI)

Contact person: Angie Gibble

Address: 326 Lafayette Avenue

Phone: 1-973-423-4030

Email: agibble@dfi.org

Website: <http://www.dfi.org/annual2024>

Email: events@dfi.org

2025**DFI 50th Anniversary Conference on Deep Foundations**

Location: Gaylord Rockies Resort & Convention Center, Aurora, United States

Dates: 20-10-2025 - 23-10-2025

Language: English

Organiser: Deep Foundations Institute (DFI)

Contact person: Theresa Engler

Address: 326 Lafayette Avenue

Phone: 1-973-423-4030

Email: tengler@dfi.org

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

Email: events@dfi.org

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

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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.

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- b. Geo-Institute of ASCE
<http://content.geoinstitute.org/>



- c. Japanese Geotechnical Society
<http://www.jiban.or.jp/>



- d. The Chinese Institution of Soil Mechanics and Geotechnical Engineering - CCES
www.geochina-cces.cn/en



CISMGE-CCES

- e. Korean Geotechnical Society
www.kgshome.or.kr



- f. Comité Français de Mécanique des Sols et de Géotechnique
www.cfms-sols.org



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- d. CalGeo - The California Geotechnical Engineering Association
www.calgeo.org



- e. Prof. Ikuo Towhata
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- f. Chinese Taipei Geotechnical Society
www.tgs.org.tw

- g. Prof. Zuyu Chen
<http://www.iwhr.com/zswenglish/index.htm>



- h. East China Architectural Design and Research Institute **ECADI**
<http://www.ecadi.com/en/>

- i. TC 211 of ISSMGE for Ground Improvement
www.bbri.be/go/tc211

- j. Prof. Askar Zhussupbekov www.enu.kz/en, www.kgs-astana.kz



- k. TC302 of ISSMGE for Forensic Geotechnical Engineering
<http://www.issmge.org/en/technical-committees/impact-on-society/163-forensic-geotechnical-engineering>

- l. Prof. Yoshinori Iwasaki yoshi-iw@geor.or.jp www.geor.or.jp



Yoshi IWASAKI

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- b. Nagadi Consultants (P) Ltd



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