Recently, the ISSMGE initiated a project to capture past, current and future issues in Geotechnical Engineering practice. While much of the Time Capsule Project (TCP) activities are through formal channels (e.g. Technical Committees, Member Societies) the opinion of everyday engineers, the foundation of practice, is paramount.

In order to debate past, current and future issues in Geotechnical Engineering, we are welcoming and publishing short articles on the ISSMGE website. Articles will be displayed for a limited time and views expressed need not be shared by the ISSMGE or held strongly by authors. Examples of current and upcoming articles include:

- **We don’t need no education** - Charles John MacRobert (Stellenbosch University)
- **Ethics in Geotechnical Engineering** - Emilio Bilotta (University of Naples Federico II)
- **Mind the Gap: Research and practice** - Ceres Chung (Geotechnical Engineering Office, Hong Kong)
- **Are we witnessing the emergence of the Third Era in Geotechnical Engineering Practice?** Roger Estephan (Dar) and Grace Abou-Jaoude Estephan (Lebanese American University)

We encourage you to reflect on your practice of Geotechnical Engineering and think how you could contribute to this great debate. We challenge you to write 200-400 words on any topic that will generate debate within the Geotechnical Engineering profession. You can forward your ideas for an article via the contact form on the Time Capsule tab on the ISSMGE webpage:

[https://www.issmge.org/the-society/time-capsule](https://www.issmge.org/the-society/time-capsule)
Message from the member society

R&D Collaboration Forum on “Slope Design in Hong Kong”, by the Hong Kong Geotechnical Society

With the support of the Hong Kong Geotechnical Society (HKGES), the Geotechnical Engineering Office (GEO) of the Government of the Hong Kong Special Administration Region hosted an R&D Collaboration Forum on “Slope Design in Hong Kong” on 24 April 2021. The objective of this Forum was to provide a platform for key geotechnical practitioners to share views on the contemporary issues of slope design in Hong Kong and discuss the direction of technical development required. Around 40 participants comprising key personnel from the GEO, local design consultants, contractors and universities took part in this half-day event.

A highlight of the Forum was the dissemination of the results of a benchmarking exercise on slope stability analysis, which was conducted to consolidate the local practice in slope design. Prior to the Forum, selected geotechnical consultants in Hong Kong were invited to assess the stability of three soil cut slopes of dissimilar geological conditions. The depth and amount of information (e.g. laboratory soil testing and groundwater monitoring records) provided for these cases varies. The results of the benchmarking exercise were presented to the Forum with a review of how the participants had made the best use of the limited amount of information as well as their own experience and professional judgment to complete the stability analyses in accordance with the current design guidelines. This exercise offered a rare opportunity for practitioners to identify the commonalities and differences between their analyses. The presentation was followed by a group discussion, in which devoted and in-depth exchange of ideas was made in respect of the current design guidelines and technical development needed.

Figure 1. Ir Prof Philip W K Chung, Deputy Head of the Geotechnical Engineering Office (Planning & Standards), delivering the opening address.

Figure 2. Ir Dr Julian S H Kwan, President of the Hong Kong Geotechnical Society, reporting the gist of group discussions.

Figure 3. Ir Dr Raymond W M Cheung, Head of the Geotechnical Engineering Office, making his closing remarks.
Conference reports

1st International Symposium on Construction Resources for Environmentally Sustainable Technologies (CREST2020)

Introduction

The 1st International Symposium on Construction Resources for Environmentally Sustainable Technologies (CREST 2020) was successfully held online during March 9-11, 2021 with live broadcasting team based at Ito campus of Kyushu University, Fukuoka, Japan. The main event was held on March 9-10, and a special workshop called “The 2011 Great East Japan Disaster - Commemorating 10 Years from the Disaster -” was also organized Online on March 11.

CREST 2020 was originally planned to be held during March 10-12, 2020. However, due to the global pandemic caused by COVID-19, the event was forced to postpone for one year, and finally, it had to be held completely Online due to the declaration of the state of emergency by the Japanese government in February 2021.

The symposium was held under the auspices of Kyushu University, Fukuoka, Japan, in association with University of Cambridge, UK; Asian Technical Committee No. 1 (ATC 1) and Technical Committee No. 302 (TC 302) of International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE). The symposium was supported by Kyushu Regional Development Bureau of Ministry of Land, Infrastructures, Transport and Tourism, Japan; Embassy of India in Japan; UN-Habitat, Fukuoka; International Press-in Association; Kyushu Branch of The Japanese Geotechnical Society; Global and Local Environment Co-creation Institute of Ibaraki University, Japan and Japan Federation of Construction Contractors.

About the Symposium

This symposium is the first of its kind on sustainable construction practices towards realizing 4 (No. 9: Industry, Innovation and Infrastructure, No. 11: Sustainable Cities and Communities, No. 13: Climate Action, and No. 17: Partnership for the Goals) out of the 17 Sustainable Development Goals (SDGs) stipulated in the blueprint of the United Nations.

The objectives of this symposium are to disseminate information and exchange ideas on issues related to natural and man-made disasters, and to arrive at solutions through the use of alternative resources, towards building a sustainable and resilient society from the geotechnical engineering perspectives. The symposium aims to bring together scientists, researchers, practicing engineers and policy makers throughout the world under one umbrella for debate and discussion on those issues.

The symposium focuses on sustainability, promotion of new ideas and innovations in design, construction, and maintenance of geotechnical structures with the aim of contributing towards climate change adaptation and disaster resiliency to meet the SDGs set forth in the UN blueprint.

Symposium Program

In the opening ceremony of the symposium (Photo 1), Prof. Tatsuro Ishibashi (President, Kyushu University), Prof. Gopal Madabhushi (University of Cambridge and Co-chairman of CREST 2020), Prof. Charles W. Ng (President, ISSMGE), Prof. Kenji Ishihara (Former President, ISSMGE), Mr. Kazuya Murayama (Director General, Kyushu Regional Development Bureau of Ministry of Land, Infrastructures, Transport and Tourism, Japan), Prof. Osamu Kusakabe (Former President, IPA) and CREST 2020 organizing committee chairman Prof. Hemanta Hazarika (Kyushu University) delivered their greetings and graced the occasion. In the two-day symposium, a total of 350 people from 28 countries (representing all the continents) participated Online. In the symposium, 2 Plenary lectures, 11 keynote lectures, and 15 special lectures were delivered by distinguished scholars from all over the world, in addition to 93 general presentations. ATC1 special sessions were held on both days of the symposium, and lively discussions were held on climate change adaptation measures and the creation of a resilient society from the perspectives of geotechnical engineering.
CREST 2020 organizing committee is very proud to announce that, 3 out of the 15 special lectures were delivered by female researchers from different regions of Asia, Europe, and America. This reflects the diversities (both in gender and races) of CREST 2020. In addition, with the aim of fostering young researchers, 2 best paper awards and 17 best presentation awards were presented to general presenters under the age of 35.

In the closing ceremony of the symposium (Photo 2), Prof. Kazuya Yasuhara (Co-chairman of CREST 2020) and Prof. Ikuo Tôwhata (former Vice President of ISSMGE) graced the occasion by delivering their closing remarks. The main symposium came to an end with the vote of thanks by symposium chairman Prof. Hemanta Hazarika. An overall summary of the symposium can be seen in Fig. 1.
Conference reports

1st International Symposium on Construction Resources for Environmentally Sustainable Technologies (CREST2020) (Con’t)

Australia, Brazil, Canada, China, Gabon, Greece, Guatemala, India, Indonesia, Japan, Malaysia, Myanmar, Nepal, New Zealand, Nigeria, Norway, Pakistan, Peru, Philippines, South Korea, Taiwan, Thailand, Togo, Turkey, United Kingdom, United States of America, Uzbekistan and Vietnam.

Fig. 1. Participants statistics and Summary of contributions
Conference reports

1st International Symposium on Construction Resources for Environmentally Sustainable Technologies (CREST2020) (Con't)

Special Workshops on the 2011 East Japan Disaster
On March 11, which also marked the 10th year from the 2011 Great East Japan Earthquake, three parallel workshops (shown below) were held as part of CREST 2020, under the umbrella of a special workshop with the theme "Sustainability and Resiliency". A total of about 360 participants took part in the three workshops.

Workshop 1: Current Status and Future of Screw Driving Sounding (SDS) Test in Ground Evaluation and Liqui-faction Assessment
Conducted by: Japan Home Shield Corporation and NITTOSEIKO Co. Ltd., Japan

Workshop 2: Geo-disasters Caused by Earthquake and Heavy Rain, and Geo-technique Related to Disaster Prevention, Environmental Protection, and Infrastructure Maintenance
Conducted by: Applied Slope Engineering Association, Japan

Workshop 3: Utilization of Wood for Ground Improvement-Towards Achieving Ground Forest-
Conducted by: Society for Soil and Wood Research, Japan

Digital Commercial and Digital Technical Exhibition
59 organizations (1 government, 53 private companies from Japan, 2 private companies outside Japan, 3 research societies) supported the symposium. Before and after each session digital commercials were displayed in the symposium. Furthermore, for the first time a digital exhibition of technical booths of all the sponsors was experimented. The on-demand technical booths were viewed by more than 100 participants.

Publications
Pre-symposium proceedings (Advances in Sustainable Construction and Resource Management) covering 79 general papers has already been published by Springer. Post symposium proceedings (Sustainable Geotechnologies for Climate Change Adaptation) covering the plenary, keynote and special lectures will be published by Springer within the year 2021. In addition, extended abstracts of all the accepted papers were compiled in the form of Abstract Proceedings (Edited by Technical Committee of CREST 2020), which were available to the participants during the symposium. Furthermore, selected papers from the symposium were recommended for publications in the special issues of two ICE (Institute of Civil Engineers), UK journals: Journal of Environmental Geotechnics and Journal of Forensic Engineering.

Conclusions
It is hoped that, in the years to come, the dissemination of the latest information and technology that was possible through this symposium, we can contribute towards a resilient society and sustainable management of construction resources through innovation.

Fig. 3: CREST 2020 Executive body team with Prof. Kenji Ishihara (Participated Onsite)
Finally, it is believed that successful holding of this symposium was not an end, rather it ushered a new beginning. The organizing committee look forward to building on our current status and look ahead into the future, and work towards building a high-end and prudent platform for global communication and cooperation, and to turn our symposium goals into the realities. On behalf of the organizing committee, we would like to take this opportunity to thank all the stakeholders and sponsors of the symposium for the tremendous support and contribution towards making CREST 2020 a grand success.
The 41st Hong Kong Institution of Engineers (HKIE) Geotechnical Division Annual Seminar was successfully held on 18 May 2021. The seminar was co-organized with Hong Kong Geological Society (HKGES), the Institution of Engineers Malaysia (IEM) and the Chinese Institute of Engineers (CIE), support was also received from HKIE Civil Division and Structural Division.

In the last four decades, geotechnical engineers play an important part in the growth and development of Hong Kong. Advancement and innovative engineering can be found in different areas: safety control and management of HK sloping terrain; deep excavation for mass transit railway and buildings in urban areas; larger and deeper tunnels and caverns for transportation, storage and treatment works; deep foundation with complex geology and steep terrain for housings; and reclamations for high rise buildings and infrastructure development. Progress was made in soil modelling and computation with support of sound site investigation, refined laboratory testing and real-time instrumentation monitoring. In recent years, there is a big shift to harness digital technologies that help transform our approach in geotechnical designs, control, and construction.

This year, the Annual Seminar also included a session of IEM-CIE-HKIE Tripartite Seminar which aimed to create a venue for interactive discussions and sharing of experience in multi-discipline engineering among HKIE Geotechnical Division, CIE from Taiwan and the IEM from Malaysia. It provided a platform for the practitioners to share their ideas and experiences, with the aim of generating useful insights from the geotechnical profession to pursue higher goals and meet new challenges.

Key Note speaker
Jean Gillard
Key Elements of Grouting Underneath the Airport Express Line

Tripartite speakers
C H CHANG
Development of Automation Design Platform and BIM of MRT Geotechnical Engineering

H C HUNG
Application of BIM in Deep Excavation Projects

Liu CHENG
Design of Protection Measures for Deep Excavation of A New Underground Station Closely Adjacent to Viaduct of MRT System in Operation

K J SHOU
On the Landslide Hazard with the Impact of Climate Change in Central Taiwan

S M NG
Development of 3D Subsurface Models for Landslide Investigation using Spatial Interpolation Technique

Bright Spark Lecture
Clarence Choi
Insights on Debris Flow Growth: Collisions and Contractile Skins
Conference reports
The HKIE Geotechnical Division 41st Annual Seminar – Adapt to Challenges, Create to Thrive (Con’t)

Selected Speakers
Jian CHEN  A Study of Heaving Material Resulted from Deep Cement Mixing Construction
Tiago Sacadura  Diaphragm Wall Trench Stability in Recently Reclaimed Land, a Case Study Review
Arthur So  On the Application of Mechanical Reinforcement of Tree Roots to Slope Stabilization
Kai Ming CHIANG  Geotechnical Design and Performance of a Jacked-in-Place Subway in the First Application of the Rectangular Tunnel Boring Machine Technology in Hong Kong
Guy Bridges  Design Optimization of Permanent Systematic Rock Bolts and Shotcrete Lining for Large-Span Caverns in Hard Rock
Victor Li  Study of Creep Settlement of Driven H-piles in Loading Tests
Alan Tam  An Innovative Design of Retaining Wall in Lung Shan Tunnel Construction
Didi Mak  A BIM-based Ground Information Management (GIM) Framework to Manage Ground Risk for Construction Projects
Ivan Haryono  Digital Twin for Geotechnical Engineering Applications
Wenzhu HOU  Using UAV-based Technology to Enhance Landslide Investigation - A Case Study in Fei Ngo Shan, Kowloon
Bill Lam  Using Radar Satellite Data for Ground Deformation Monitoring: ATLAS InSAR

The ISSMGE Bright Spark Lecture award was also launched in the Annual Seminar. This award aims to promote young geotechnical engineers and academics to play major roles in international and regional conferences, such as delivering keynote and invited lectures at the conference. The Bright Spark Lecturer, Dr Clarence Choi of the University of Hong Kong, was selected based on his achievements and contributions from previous track record, and his vision in geotechnical research and practice. In Dr Choi’s lecture, he discussed the latest developments in experimental research on soil bed erosion and growth of debris flows, and the key insights gained from these studies.

The award was presented by Professor Charles Ng, President of the ISSMGE. Professor Ng also presented a brief update of the latest developments of the ISSMGE, including the focus on ‘Education, Innovation, Diversity’, the establishment of the ISSMGE Virtual University, and the initiative to publish conference proceedings through the ISSMGE Online Library platform.
Conference reports
Geotechnical Challenges in Freezing Soils

Online workshop on the topic: "Geotechnical challenges in freezing soils" held June 2, 2021 on the online scientific platform of the Faculty of Architecture and Civil Engineering of the L.N. Gumilyov Eurasian National University, organized by the Technical Committees TC216 "Frost Geotechnics" and TC305 "Geotechnical infrastructure of megacities and new capitals" of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE), Geotechnical Institute of the L.N. Gumilyov Eurasian National University, Kazakhstan Geotechnical Society. The Chairmen of the above-mentioned international Technical Committees were Professor of Hokkai-Gakuen University Takashi Ono (Japan) and Professor of the L.N. Gumilyov ENU Askar Zhussupbekov (Kazakhstan). The scientific secretary of this event was Dr. Assel Sarsembayeva (Kazakhstan). In Opening Ceremony participated Prof. Temirkhan Tolkynbayev - Dean of Architectural and Civil Engineering Faculty, who congratulated the participants with this important international geotechnical workshop, which was dedicated to the 25th Anniversary of the Eurasian National University.

TC 305 has a good connection with the industry and other organizations working on design and the practice of geotechnical technologies at megacities and new capitals.
TC 216 focus on up-to-date knowledge of frost geotechnical engineering including seasonal freezing of the soils, permafrost and artificial ground freezing.

Frost heave due to cold weather has serious impacts and causes deterioration and damage of infrastructures. The designing and construction of safe, environmentally friendly and economically beneficial solutions for infrastructure on the frost-affected soils is a priority for Geotechnical Engineers. Actual problems and the engineering solutions of frost geotechnics; common design codes for infrastructures in cold regions, geofrost solutions for protective measures of underground space from ground water, mass transfer in the freezing soils and specific frost preventing techniques are important issues in this workshop. The scope of the interests included:

- Impact of climate change
- Frost heave testing standards, codes, definitions and terminology
- Frost susceptibility criteria
- Frost heave predictions and settlement during thawing
- Megacities in the freezing and thawing ground
This highly specialized scientific direction is relevant in countries with cold climates, including Kazakhstan, where the issue of construction at subzero temperatures for a long period is acute. The issues of preventing frost heaving of soils at the stage of soil foundation preparation, during construction and during operation is one of the main points in the design of buildings and structures in cold regions.

At the international geotechnical online workshop, 12 scientific reports were presented by leading scientists in the field of Geotechnics and Geocryology from China, Great Britain, Japan, Finland, USA, Russia and Kazakhstan.

Professor Hong-Hu Zhu from School of Earth Sciences and Engineering, Nanjing University, Nanjing (China), made a presentation on the topic of «Measuring thermal conductivity of frozen soil using fiber optic sensors».

Professor Philip E.F. Collins from Brunel University London, London (UK) discussed «Ice-affected soil systems under rapid climate warming - insights from the past».

Professor Takashi Ono from Hokkai-Gakuen University, Sapporo (Japan), made the «Proposal of Standard Test Method for Frost Susceptibility of Soil».

Professor Seppo Saarelainen from Aalto University, Espoo (Finland) made a presentation titled «Determining frost susceptibility of soils».

Professor Yoshinori Iwasaki from Geo Research Institute (Japan) presented the topic «From the present tunnel design by rock classification to performance based design by in-situ yield zone simulation».

Dr. Assel Sarsembayeva from the L.N. Gumilyov Eurasian National University, Nur-Sultan (Kazakhstan) made a presentation on «Evaluation of frost heave in clay soils».

Dr. Denis M. Frolov from Lomonosov Moscow State University, Moscow (Russia) gave an introduction to «Calculation scheme of ground freezing depth based on data on air temperature and snow cover thickness and its application for geotechnical monitoring».

Dr. Assel Tulebekova from the L.N. Gumilyov Eurasian National University, Nur-Sultan (Kazakhstan) shared the topic «Technical regulation in the construction».

Professor Xu Li from Key Laboratory of Urban Underground Engineering of Ministry of Education, Beijing Jiaotong University (China) has presented «The equilibrium time and deformation characteristic of sulfate saline soil in 1D saline expansion test».

Dr. Gulshat Tulelenova from the L.N. Gumilyov Eurasian National University, Nur-Sultan (Kazakhstan) presented the results of «Numerical analysis of pile foundations in seasonally freezing soil ground».

Professor Xiong Yu from Case Western Reserve University, Ohio (USA) made a presentation on the «Multiphysics modeling and characterization of frozen soil».

Among the young researchers PhD Student Ainur Montayeva from the L.N. Gumilyov Eurasian National University, Nur-Sultan (Kazakhstan) has presented the «Prevention method of soil from freezing to drive the piles in winter».

In total, more than 100 scientists of the international academic community from 30 countries of the world, academics of the Faculty of Architecture and Civil Engineering took part in this event. Summing up the results of the reports he had heard, Professor Askar Zhussupbekov invited the present representatives of the international geotechnical community to take part in the upcoming 17th Asian Geotechnical Regional Conference in Nur-Sultan (August 14-18, 2023). Vice President of ISSMGE for Asia, Professor Eun Chul Shin invited the workshop participants to take part in the 20th ISSMGE Conference, which will take place on May 1-5, 2022 in Sydney (Australia).
Conference reports

Geotechnical Challenges in Freezing Soils (Con't)
On May 26-28, 2021, the Perm National Research Polytechnic University (Perm city, Russia) hosted the II All-Russian conference with international participation on “Deep foundations and geotechnical problems of territories”. For the first time, the conference was held in a mixed (hybrid) format: face-to-face and online. The broadcast of the conference will be available on YouTube.

The Perm National Research Polytechnic University, the Ministry of Education and Science of the Perm, the Russian Society for Soil Mechanics, Geotechnics and Foundation Engineering, the Russian Academy of Architecture and Building Sciences, and the Siberian Geotechnics Association organized the conference.

One hundred thirty people attended the conference. The geography of the conference covers universities and research organizations in various regions of Russia, Kazakhstan, Azerbaijan, Uzbekistan, Italy, Germany, Turkey, France, Czech Republic, Estonia. More than 150 authors presented 79 reports at the conference, 12 poster presentations were presented. As a result of the conference, two collections of articles will be published. One of them will be indexed in the Scopus citation database, and the other in the RSCI. It is also planned to release a special thematic issue of the journal “Construction and Geotechnics”, included in the list of the Higher Attestation Commission and the RSCI base, which will consist of selected reports of the conference.

The conference topics covered the following issues:
1. Laboratory and field soil tests.
2. The practice of the development of underground space, geotechnical monitoring.
3. Foundation construction and soil base reinforcement technologies.
4. Educational and methodical issues of training geotechnical specialists.
5. Geosynthetics in Geotechnics
6. Experimental and theoretical studies of foundations and underground structures
7. Highways and engineering structures designing problems.
Conference reports

Second all-Russian Conference “Deep Foundations and Geotechnical Problems of Territories” (Con’t)

Plenary reports at the conference were made by:

- Rolf Katzenbach, Dr.-Ing., Professor, Technical University (TU) of Darmstadt (Darmstadt, Germany);
- Erol Guler, Ph.D., M.S., B.S, Professor, Bogazici University, Head of Turkish Geosynthetics Society (Istanbul, Turkey);
- Askar Zhussupbekov, DSc, Professor, President of Kazakhstan Geotechnical Society (Nur-Sultan, Kazakhstan);
- Z. G. Ter-Martirosian, DSc, Professor, Moscow State University of Civil Engineering, (Moscow, Russia);
- Rashid Mangushev, DSc, Professor, SPbGASU, (Saint Petersburg, Russia);
- Andrea Dominijanni, PhD, Professor, Politecnico di Torino (Torino, Italy);
- Sven Schwerdt, Dr.-Ing., Professor, Magdeburg-Stendal University of Applied Sciences, (Magdeburg, Germany);
- Sergey Kudryavtsev, DSc, Professor, Far Eastern State Transport University (Khabarovsk, Russia).
- Ivan Vaniček, DSc., Professor, Czech Technical University in Prague, (Prague, Czech);
- Serge Varaksin, scientific advisor “Apageo”, Head of Technical Committee T212 ISSMGE (France);
- Mait Mets, PhD, Professor, University of Life Sciences, Institute of Forestry and Rural Engineering, (Tartu, Estonia).

During the conference, modern geotechnical technology for constructing foundations and foundations in various soil and climatic conditions, including in potentially dangerous areas, and modern methods of engineering surveys and testing of newly erected objects, were discussed. Practical experience of strengthening the foundations of existing buildings and structures was reported. New materials and technologies in road construction are presented. The results of experimental and theoretical research in geotechnics and foundation engineering, methods of modeling, and calculations of foundations and foundations are discussed.
Conference reports

Second all-Russian Conference “Deep Foundations and Geotechnical Problems of Territories” (Con’t)

The conference was held with the active participation of foreign professors, who shared the results of their research and exciting experience in the development of underground space in countries near and far abroad.

Students and undergraduates of the direction «Civil Engineering», graduate students and young scientists of PNRPU, representatives of design and construction organizations in Perm, attended the conference. At the conference, a scientific commission was created to evaluate the presented poster presentations.

The participants noted the high level of organization and conduct of the conference. The exchange of views on topical problems of foundation engineering contributes to the development of geotechnics, strengthening and expanding ties between specialists in soil mechanics and geotechnics in Russia and abroad.
Dear Sir or Madam,

Dear colleagues in geotechnical engineering,

We need your help!

In the process of revising the EN 1997 (Eurocode 7), the Task Group C3 (TG-C3) 'Reliability-based methods' is currently developing a guideline for (full probabilistic) reliability-based verification of limit states based on the safety requirements of the Eurocodes. As part of this guideline, TG-C3 would like to provide application-oriented examples of probabilistic geotechnical design. To achieve this, we need international support - your support!

We have prepared a questionnaire in which you can give us a brief impression of your experience with the application of probabilistic methods and reliability analyses in geotechnical design and indicate possible case studies.

Your way to the questionnaire:
https://umfragen.zimt.uni-siegen.de/index.php/821865

Participation in the questionnaire is voluntary. You can also participate in the survey if you have not yet gained any experience with probabilistic design in geotechnical engineering but wish to share your opinion on that with us.

If you can provide a practical application or a case study which may be suitable for our purposes, please provide your contact details at the end of the questionnaire. We will then get back to you at a later stage. Providing your personal data is voluntary and optional, so you can also participate in the questionnaire completely anonymously. Suitable practical examples will be incorporated in the guideline, if necessary in a modified or anonymized way.

Thank you for your support!

Feel free to forward our call to interested colleagues and institutions!

If you have any questions, we will be happy to assist you. Please contact Andra Ebener, Institute of Geotechnical Engineering, University of Siegen, Germany (andra.ebener@uni-siegen.de).

Kind regards,

On behalf of the members of Task Group C3

Prof. Kerstin Lesny & M.Sc. Andra Ebener
The Ministry of Education and Science of the Republic of Kazakhstan awarded “Best University Professor-2020” in the field of geotechnical engineering science to PhD Assel Tulebekova, Associate Professor in the Department of Design of Buildings and Structures in the Faculty of Architecture and Civil Engineering at the Eurasian National University (ENU). Dr. Tulebekova A. developed of the recommendations for the reform of Kazakhstan standards for testing and installation of pile foundations in accordance with the Eurocodes, conducted under the supervision of Prof. Roger Frank (Ecole des Ponts Paris Teach, France) and Prof. Askar Zhussupbekov (Geotechnical institute, ENU, Kazakhstan), which performed in the construction sites of high-rise buildings and structures in the new capital of Kazakhstan - Nur-Sultan. The results of her research have been published in several textbooks, monographs and proceedings. Dr.Assel presented her work at many conferences like as 11 ICG, 2018, Seoul, South Korea; IFCEE 2018, Orlando, FL, USA; 16 ARC, 2019, Taipei, Taiwan; Russian Geotechnical Forum-2020 with foreign participants, Moscow, Russia and others. The award ceremony was held on February 4, 2021 in the Scientific Council Hall of the ENU.
Obituary

Prof. Elmo DiBiagio (1931 – 2021)

Elmo was born in Pennsylvania, USA, and joined the Norwegian Geotechnical Institute (NGI) as a Fulbright Fellow in 1955. He studied at Princeton University and the University of Illinois where he received his PhD in 1965. In Norway he met Jorunn Foss, and this ensured that he should stay in Norway. Elmo passed away on 16 May 2021.

For many years, Elmo led the development at NGI of instrumentation and safety monitoring for various types of buildings and structures. He made a success of this with his solid theoretical background and ingenuity combined with exceptional technical and practical insight. He was key in establishing NGI as a centre for research and development, e.g. for dams and tunnels, slopes, offshore platforms and foundations of wind turbines on the seabed. He worked, among others, on the instrumentation of Bennet Dam in British Columbia and Zelasny Most tailings dams in Poland. In 2013, he gave an invited lecture in Chicago at the 7th International Conference on Case histories in Geotechnical Engineering, commemorating Professor Ralph B. Peck: “Instrumentation - the Link between Theory and Practice in Geotechnical Engineering” where one can follow the evolution of instrumentation and monitoring.

Elmo's large number of invited lectures at international conferences and his unique ability to present and illustrate his lectures made him world famous. At the celebration of Elmo as a retiree in 1998, greetings came in from all corners of the world. Professor Ralph B P. Peck stated: "Your genius and ingenuity have made you Mr. Instrumentation for the entire geotechnical world". But Elmo never retired really. He continued on working, discussing solutions with our younger colleagues and writing papers until the very end.

An outstanding member of the NGI family has passed away. It is with gratitude and pride that we think back about Elmo, our colleague and friend, and all the experiences we shared with him. Elmo was genuinely interested in his surroundings, whether it was technology, nature or his fellow human beings. He helped build us both professionally and personally, and was, with his pedagogic abilities, a true mentor.

Elmo's skill, commitment and loyalty are an everlasting part of NGI's history. We wish peace over his memory, and thank him for his life contribution. We send our thoughts to Jorunn and the family who have helped make Elmo the unique person he was.

Colleagues and friends at NGI
ISSMGE EVENTS

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

2021

6th Geochina International Conference 2021
Location: NanChang, China
Date: 19-07-2021 - 21-07-2021
Organiser: East China Jia Tong University in Cooperation with Chinese Ministry of Education, GeoChina Civil Infrastructure Association, University of Oklahoma
Contact person: Dr. Dar Hao Chen ; Address: Texas Transportation Institute ; Email: d-chen@tti.tamu.edu
Website: http://geochina2021.geoconf.org; Email: geochina.adm@gmail.com

3rd Pan-American Conference on Unsaturated Soils
Location: PUC-Rio, in Rio de Janeiro, Brazil,
Date: 25-07-2021 - 28-07-2021
Organiser: Tácio de Campos (PUC-Rio), Fernando Marinho (USP), Gilson Gitirana (UFG)
Contact person: Tácio de Campos
Email: panam2021unsat@puc-rio.br
Website: https://panamunsat2021.com

The 10th International Conference on Scour and Erosion
Location: DoubleTree Washington DC - Crystal City, USA,
Date: 17-20 October 2021
Language: English
Organiser: Geotechnics of Soil Erosion Committee, ASCE Geo-Institute ; Contact person: Ming Xiao (ICSE-10 Chair); Address: Pennsylvania State University ; Phone: 010-814-865-8056 ; Email: mxiao@engr.psu.edu;
Website: https://www.engr.psu.edu/xiao/ICSE-10%20Call%20for%20abstract.pdf

3rd International Symposium on Coupled Phenomena in Environmental Geotechnics
Location: Kyoto University, Japan
Date: 20-10-2021 - 22-10-2021
Language: English
Organiser: TC215 (Environmental Geotechnics), Japanese Geotechnical Society (JGS), and Kyoto University
Contact person: Takeshi Katsumi
Address: Yoshida-honmachi
Phone: +81-75-753-9205
Fax: +81-75-753-5116
Email: katsumi.takeshi.6v@kyoto-u.ac.jp
Website: https://cpeg2020.org
Email: cpeg2020@geotech.gee.kyoto-u.ac.jp
Event Diary (Con't)

**Asiafuge 2021 Singapore** -  
Location: NUS UTown Campus, Singapore;  
Dates: 18-11-2021 - 19-11-2021  
Language: English  
Organiser: Geotechnical Society of Singapore (GeoSS) & National University of Singapore (NUS)  
Contact person: Assoc Prof Darren Chian;  
Address: National University of Singapore;  
Email: sc.chian@nus.edu.sg;  
Website: [https://www.asiafuge-sg.com/](https://www.asiafuge-sg.com/)

**XI Congreso Chileno de Geotecnia**  
Location: Universidad de Talca, Chile  
Dates: Talca 22-11-2021 - 24-11-2021  
Language: Spanish  
Organiser: Chilean Geotechnical Society  
Contact person: Macarena Tugas  
Email: coordinadorasochige@gmail.com  
Website: [http://www.sochige.cl](http://www.sochige.cl)  
Email: directorio@sochige.cl

**3rd International Conference on Geotechnical Engineering**  
Location: Cinnamon Grand, Colombo, Sri Lanka  
Dates: 06-12-2021 - 07-12-2021  
Language: English  
Organiser: Sri Lankan Geotechnical Society  
Contact person: Dr. JSM Fowze  
Email: slgssecretariat@gmail.com;  

**2022**

**2nd International Conference on Energy Geotechnics**  
Location: Robert Paine Scripps Forum for Science, Society and the Environment. La Jolla, CA, USA.  
Date: 10-04-2022 - 13-04-2022  
Language: English  
Organiser: John McCartney (UC San Diego, USA) and Ingrid Tomac (UC San Diego, USA),  
Contact Information: ICEGT-2020 Secretariat,  
Address: 9500 Gilman Dr., La Jolla CA,  
Phone: +1-858-822-5212,  
Fax: +1-858-822-2260,  
Email: secretariat@icegt-2020.com,  
Website: [https://icegt-2020.eng.ucsd.edu/home](https://icegt-2020.eng.ucsd.edu/home)
7th International Young Geotechnical Engineers Conference
Location: International Convention Centre, Sydney, Australia
Language: English
Organiser: Australian Geomechanics Society
Contact person: ICMS Australasia
Address: Level 9, 234 George Street, Sydney NSW, 2000
Phone: (+61 2) 9254 5000
Email: info@icsmge2021.com
Website: http://icsmge2021.org/7iygec/

20th International Conference on Soil Mechanics and Geotechnical Engineering
Location: International Convention Centre Sydney, Australia
Date: 01-05-2022 - 05-05-2022
Language: English
Organiser: The Australian Geomechanics Society;
Contact person: ICMS Australasia;
Address: Level 9, 234 George Street Sydney NSW 200;
Email: emmab@icmsaust.com.au;
Website: http://www.icsmge2021.org/

5th International Symposium on Cone Penetration Testing (CPT’22)
Location: Centro Congressi CNR, Bologna, Italy
Language: English
Organiser: Italian Geotechnical Society (AGI) and University of Bologna (endorsed by TC102)
Contact person: Susanna Antonielli (AGI), Prof. Guido Gottardi (University of Bologna)
Email: guido.gottardi2@unibo.it; agi@associazionegeotecnica.it

Geotechnical Engineering for the Preservation of Monuments and Historic Sites
Location: Naples, Italy
Date: 22-24 June 2022
Organizer: TC 301, AGI (Italian Geotechnical Society)
Contact person: Filomena de Silva
Email: secretary@tc301-napoli.org
Website: http://www.tc301-napoli.org

9th International Congress on Environmental Geotechnics
Location: Chania, Crete island, Greece,
Language: English
Organiser: Chair: Dimitrios Zekkos, University of California at Berkeley ; zekkos@berkeley.edu
Contact person: Dr. Rallis Kourkouils
Email: rallisko@grid-engineers.com
Website: https://www.iceg2022.org/
Event Diary (Con’t)

TC204: Geotechnical Aspects of Underground Construction In Soft Ground - TC204 Cambridge 2021
Location: University of Cambridge, United Kingdom
Date: 28-06-2021 - 30-06-2021
Language: English
Organiser: University of Cambridge
Contact person: Dr Mohammed Elshafie
Address: Laing O'Rourke Centre, Department of Engineering, Cambridge University
Phone: +44(0) 1223 332780
Email: me254@cam.ac.uk

5th International Conference on New Developments in Soil Mechanics and Geotechnical Engineering
Location: Atatürk Cultural and Congress Center Near East University, Nicosia, Turkey,
Dates: 30-06-2022 - 02-07-2022
Language: English
Organiser: Turkish Society of Soil Mechanics and Geotechnical Engineering and Near East University
Contact person: Cavit ATALAR
Address: Near East Boulevard
Phone: 05338342829
Fax: 00903922236461
Email: cavit.atalar@neu.edu.tr
Website: http://zm2020.neu.edu.tr

4th International Symposium on Frontiers in Offshore Geotechnics
Location: University of Texas, Austin, United States
Date: 28-08-2022 - 31-08-2022
Language: English
Organizer: ISFOG 2020 Organising Committee
Contact person: Phil Watson
Address: The University of Western Australia
Phone: 0418881280
Email: phillip.watson@uwa.edu.au
Website: http://www.isfog2020.org

11th International Symposium on Field Monitoring in Geomechanics
Location: Imperial College London, United Kingdom
Dates: 04-09-2022 - 08-09-2022
Organiser: TC220
Contact person: Dr Andrew Ridley
Email: andrew.ridley@geo-observations.com
17th Danube - European Conference on Geotechnical Engineering
Location: Ramada Parc, Bucharest, Romania
Dates: 05-09-2022 - 07-09-2022
Language: English
Description
Organiser: Romanian Society for Geotechnical and Foundation Engineering
Contact person: Ernest Olinic
Address: Bvd. Lacul Tei 124
Email: srgf@utcb.ro
Website: http://www.17decge.ro

28th European Young Geotechnical Engineers Conference and Geogames
Location: National Research Moscow State University of Civil Engineering, Russia, Moscow
Date: 15-09-2022 - 17-09-2020 - 19-12-2022
Language: English
Organiser: Russian Society for Soil Mechanics, Geotechnics and Foundation Engineering
Contact person: PhD Ivan Luzin
Address: NR MSUCE, 26 Yaroslavskoye shosse
Phone: +7-495-287-4914 (2384)
Email: youngburo@gmail.com
Additional Information: https://t.me/EYGEC2020

Location: De Doelen, Rotterdam, The Netherlands,
Dates: 20-09-2022 - 23-09-2022
Language: English
Organiser: Royal Netherlands Society of Engineers (KIVI)
Contact person: Angelique van Tongeren
Address: Prinsessegracht 23
Email: SW2022@kivi.nl
Website: https://www.kivi.nl/afdelingen/geotechniek/stress-wave-conference-2022

16th International Conference on Geotechnical Engineering,
Location: University of Engineering & Technology (UET) Lahore, Pakistan,
Dates: 08-12-2022 - 09-12-2022
Language: English
Organiser: Pakistan Geotechnical Engineering Society (PGES)
Contact person: Dr. Jahanzaib Israr
Address: Civil Engineering Department, University of Engineering & Technology (UET) Lahore (Main Campus), G.T. Road
Phone: 03344132808
Email: 16icge@uet.edu.pk
Website: https://16icge.uet.edu.pk/
Event Diary (Con’t)

17th Asian Regional Geotechnical Engineering Conference
Location: Nur-Sultan, Kazakhstan
Dates: 14-08-2023 - 18-08-2023
Language: English
Organiser: Kazakhstan Geotechnical Society
Contact person: Ms. Bibigul Abdrakhmanova
Address: 2, Satpayev Street, Eurasian National University, Geotechnical Institute
Phone: +7-7172- 344796
Fax: +7-7172-353740
Email: milanbi@mail.ru

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

NON-ISSMGE SPONSORED EVENTS

2021

Advances in Subsurface Mechanics for Energy and Environment - 2021
Location: Online Webinar Series, India
Dates: 02-07-2021 - 30-09-2021
Language: English
Organiser: IIT Madras
Website: https://civil.iitm.ac.in/pcoe/smge/
Email: smge@civil.iitm.ac.in

7th International Conf. on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics
Location: The National Science Seminar Complex, Indian Institute of Science Bangalore, India,
Date: 12-07-2021 - 17-07-2021
Organiser: Indian Society of Earthquake Technology
Website: http://7icragee.org/index.php
Email: conf@7icragee.org

Fifth World Landslide Forum
Location: Kyoto International Conference Center, Kyoto, Japan
Dates: 02-11-2021 - 06-11-2021
Organizer: International Consortium on Landslides
Contact person: Ryosuke Uzuoka
Address: Gokasho
Phone: +81-774-38-4090
Email: zuouka.ryosuke.6z@kyoto-u.ac.jp
Website: http://wlf5.iplhq.org/
Email: secretariat@iclhq.org
Event Diary (Con’t)

Fourth African Regional Conference on Geosynthetics
Location: Cairo, Egypt
Dates: 21-02-2022 - 24-02-2022
Language: English
Organiser: International Geosynthetics Society - Egypt Chapter
Contact person: Prof. Fatma Baligh
Address: 87 El-Tahrir St., Dokki, Giza, Egypt
Email: Secretariat@geoafrica2021.org; info@geoafrica2021.org
Website https://geoafrica2021.org/

The Third International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering
Location: Dokuz Eylul University, Izmir, Turkey,
Dates: 17-06-2021 - 19-06-2021
Organiser: Dokuz Eylul University
Contact person: Tugce Ozdamar Kul
Address: Dokuz Eylul University
Phone: +905325164800
Email: egrwse2020@gmail.com
Website: http://www.egrwse2020.com

16th International Conference of the International Association for Computer Methods and Advances in Geomechanics - IACMAG
Location: Politecnico di Torino Conference Centre, Italy
Dates: 01-08-2022 - 02-09-2022
Language: English
Organiser: Politecnico di Torino
Contact person: Symposium srl
Address: via Gozzano 14
Phone: +390119211467
Email: info@symposium.it, marco.barla@polito.it

12th International Conference on Geosynthetics
Location: Auditorium Parco della Musica, Rome, Italy
Dates: 18-09-2022 - 22-09-2022
Language: English
Organiser: Associazione Geotecnica Italiana - Italian Chapter of IGS
Contact person: Susanna Antonielli
Address: AGI-Viale dell'Università 11
Phone: +39 06 4465569
Fax: +39 06 44361035
Email: info@12icg-roma.org
Website: http://www.12icg-roma.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.

- **Diamond: $50,000 and above**
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  e. Korean Geotechnical Society [www.kgshome.or.kr](http://www.kgshome.or.kr)
  f. Comité Français de Mécanique des Sols et de Géotechnique [www.cfms-sols.org](http://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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http://geotele.t.u-tokyo.ac.jp/

f. Chinese Taipei Geotechnical Society
twww.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


k. TC302 of ISSMGE for Forensic Geotechnical Engineering

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