



IAEG

NEWSLETTER

Issue No.2, 2023
Website: www.iaeg.info
Electronic Version

Cover Story



This deep-seated landslide, which occurred at 16:10 (TPE) on October 16 2022, has destroyed the Northern Cross-Island Highway of Taiwan. This landslide was triggered by the heavy rainfall (more than 1,000 mm) of Typhoon Nesat interacting with the annual monsoonal system between October 15, 2022 and October 17, 2022. This photo was taken at two days later after landslide. The elevation difference and travel distance of the landslide were 220 m and 530 m from the main scarp to the farthest toe, respectively, and the apparent friction angle was 22° . This slate slope occurred at least four failures those detected by nearby seismometer and formed the colluvium with several toes. Besides, two debris flows formed a debris fan near this landslide. Many excavators were removing the colluvium to restore traffic. There is a camping area and some houses at the crown and upslope, which developed numerous cracks.

Provided by Chinese Taipei Regional Group

Jui-Ming Chang, Che-Ming Yang*, Wei-An Chao, Chin-Shang Ku, Ming-Wan Huang, Tung-Chou Hsieh, Chi-Yao Hung (2023) Accompanied Effect of Typhoon-Driven Cilan Deep-Seated Landslide in Roadside Landslide Cluster, Northeast Taiwan. Landslides.



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Edited by the IAEG Secretariat, Shaoxing, China

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01 EXECUTIVE COMMITTEE NEWS

Midyear Working Meeting on May 3-4, 2023

After long-term travel restriction effected by pandemic, the IAEG Executive Committee for term 2023-2026 has successfully met on-site this year in Paris. A very effective two days working meeting of IAEG Executive Committee was held in Mines Paris Tech, Paris, France on May 3rd-4th, 2023. 15 members of the Executive Committee attended the meeting. The president of IAEG, Vassilis Marinos chaired the meeting.



Fig 1. Working meeting of the Executive Committee organized in Mines Paris Tech, Paris, France

The Executive Committee has a main discussion on IAEG strategy, a strategic plan provides guidelines for measuring progress, acknowledges achievements and improves communications. Goals have been set to promote and implement our strategy for the next 4 years, numerous action items were set for IAEG VPs, YEG, Web editor to go after. Working groups have been created to undertake specific themes on Equity Diversity and Inclusion (EDI) policy, Engineering Geology professional standards, Technical Oversight Committee, funding, Bylaws and Statue revision, membership recruitment. All VPs have been involved into different working groups for undertaking related tasks.

Several items have been discussed and proposed by the Executive Committee, one important issue about the National/Regional Groups is a proposed new evaluation rule on National/Regional groups' activity in the future. NGs/RGs which have not paid membership fee for 3 consecutive years or 5 years will lose voting right or being removed from IAEG. NGs/RGs which do not reply to IAEG communication attempts and provide no activity reports for a period of 3 years or 5 years will be made inactive without voting right or being removed from IAEG. Standards to define a new NG/RG have also been proposed in detail. The Executive Committee proposed to add a VP position for YEG in the Executive Committee with voting right, and add an ex-officio member for "Women in Engineering Geology" in the ExCom. All the proposed items will be presented to the Council for approval.

A new Web-Editor in chief has been appointed, Dr. George Papathanassiou from Greece will take over of the IAEG website. Giorgio Lollino and Paolo Allasia have been proposed to be awarded "Honorary Membership" for their extraordinary service to IAEG website. For our official journal the ExCom agrees it's important to preserve the engineering geological character of BOEG, and it is proposed to include "Case Study" as a manuscript submission type. YEG keeps doing great jobs on e-YEG webinars, found

travel grant awards, IAEG's presence at international events and social media, YEG is planning to establish IAEG-YEG exchange program by engaging universities and academic contacts in the future. The 2nd IAEG Summer School is taking place in July 2023 and it is proposed to provide individual membership to the Summer School students.



Fig 2. Group Photo of Participants presented at the Paris meeting

We have received the proposal for hosting the 15th IAEG Congress from Netherlands National Group and the representatives from Netherlands will present their proposal to the Council for approval this year. In 2024 we have four regional conferences respectively in Chile (Latin America), Botswana (Africa), Croatia (Europe) and Malaysia (Asia), conferences announcements are going to be post on IAEG's social media for promotion.

In 2024 IAEG is going to have its 60th Anniversary, the ExCom has discussed about the plans and actions to the 60th Anniversary celebration. Celebration activities will be organized in all 4 regional conferences in 2024.

The selection works of Science and Technology Awards (STA) is on-going and International Research Program (IRP) will be selected during the 14th IAEG Congress. The first speaker of the Paul Marinos distinguished international lecture tour will be decided in 2023 during the 14th IAEG congress as well. The ExCom has discussed about establishments of new awards, like Best Performing National Group, outstanding commission award, YEG award, best reviewer in BOEG.

A very effective 2-day meeting of the Executive Committee has clarified the goals and decided actions for the next four years. The members of the Executive Committee look forward to getting actions moving in the following months and bring some progress to our council in Chengdu, China in September at the occasion of the 14th IAEG Congress.

The main outputs of the Mid-Year ExCom meeting (May 2023) can be viewed via the link below:

https://mcusercontent.com/a9fb57846c769f467423ee6c9/files/0c6d411a-1853-a739-c711-fd03d8d72987/Outputs_of_ExCo_meeting_in_Paris_2023.pdf

Equity, Diversity and Inclusion (EDI) Working Group

IAEG (International Association for Engineering Geology) has formed an Equity, Diversity, and Inclusion (EDI) working group.

The EDI policy aims to encompass various aspects at all levels, not only focusing on gender equality and racial diversity but also addressing age-related issues, including the involvement of young members.

A first version of the IAEG Diversity and Inclusion policy is planned to be presented at the Council meeting in Chengdu, 2023.

"Women in Engineering Geology": A dedicated group is being launched to enhance women's participation within the association. This initiative begins with their representation in the Executive Committee as ex-officio members, inviting them as guests to regional conferences, involving them in organizing committees, inviting them as lecturers, and including them in awards juries.

New Web Editor in Chief



Dr. George Papathanassiou is an Assistant Professor of Engineering Geology at the Aristotle University of Thessaloniki, Department of Geology, while he had been in the past an Assistant Professor of Engineering Geology and Rock Mechanics at the Department of Civil Engineering, Democritus University of Thrace (2018-2021).

He was born in 1973 in Thessaloniki, Greece. He holds a Doctoral Degree, an MSc in Engineering Geology and a bachelor's degree in Geology from the Aristotle University of Thessaloniki, Department of Geology.

He has published more than 90 papers in international journals, book chapters and international conferences. His work was cited in more than 500 published articles.

He has participated in a large number of research contracts in the field of the geohazards such as liquefaction and landslide hazard, rock slope stability, development of geohazard-related databases, natural gas pipelines, and soil and rock mechanics.

His expertise includes liquefaction and ground failure, rockfall and landslide analysis, geohazards, earthquake engineering geology, post-event reconnaissance and use of LiDar and Unmanned Aerial Vehicles for rockfall-landslide hazard and monitoring.

He was co-editor of the monthly bulletin of the Greek Society of Engineering Geology and he participated in several conferences of IAEG and other associations of geosocieties. He was a member of the organising committee of the 3rd European Conference of Engineering Geology, held in Athens in 2021 while he was the chairman of the organising committee of the workshop that was held in the city of Thessaloniki in March 2023. In September 2022 he was invited to deliver a lecture at Queen's University, Kingston Canada.

He was the web editor of the web site of the Greek Society of Engineering Geology and of the Laboratory of Engineering Geology and Hydrogeology of the Department of Geology, Aristotle University of Thessaloniki.

Dr. Papathanassiou has been a member of professional and scientific bodies such as IAEG, and Greek Geological Society as well as a reviewer for numerous journals, such as "Engineering Geology", "Journal of Geotechnical and Geological Engineering", "Soil Dynamics and Earthquake Engineering" and others.

NEW IAEG Website Online

The new IAEG Website is online. Please check the contents via <https://iaeg.web-demos.eu/>. If you have anything unclear, please feel free to contact Dr. Papathanassiou by gpapatha@geo.auth.gr.

We sincerely welcome all commissions and national/regional groups to actively send news, meeting information and events for IAEG promotion.

IAEG Social Media

Under the cooperated workds done by Web Editor in chief Dr. George Papathanassiou and YEG chair stratis Karantanellis, the fully developed IAEG Soical Media is posted online to promote the IAEG activities.



The graphic features a central white circle with a network of grey nodes and lines. At the top left is the IAEG logo (ENIGI GEOL) and at the top right is the YEG logo (YOUNG ENGINEERING GEOLOGISTS). Below the circle are social media icons for Twitter, LinkedIn, Instagram, Facebook, and YouTube. The text provides contact information for both IAEG and YEG, including their website and social media handles. A 'STAY TUNED' icon and text are also present.

IAEG Website: www.iaeg.info

- LinkedIn: International Association for Engineering Geology and the Environment
- Twitter: @IAEG_AIGI
- Instagram: @iaegenv
- Facebook: @IAEG
- YouTube: IREG Channel

YEG

- Twitter: @realYEGs
- Facebook: @YEG – Young Engineering Geologists
- YouTube: @IAEG YEG

STAY TUNED

YEG Representaed at EAGE Annual Congress & Exhibition 2023

84th EAGE Annual Conference and Exhibition was held in Vienna, Austria between 5 and 8 June 2023 under the theme “Energy transition”. For this reason, the oil and gas companies as well as geophysics and related software companies were prominent in this year’s exhibition. The IAEG and its young member chapter YEG were represented by Tümay Kadakci Koca who is one of the committee members of YEG. On the first day, the president of the IAEG Vassilis Marinos accompanied her. Flyers and roller banners are put at the booth to attract people. Students, young practitioners, and seniors who are interested in our society are informed about the IAEG, YEG, their activities, and benefits to the members.

Throughout the event, Tümay communicated with several geophysics companies and discussed that geophysical instruments are important tools in engineering geological investigations and training young practitioners. Fruitful conversations have been made with the other local and international associations. The meet and greet with a committee member of the young professionals’ group of

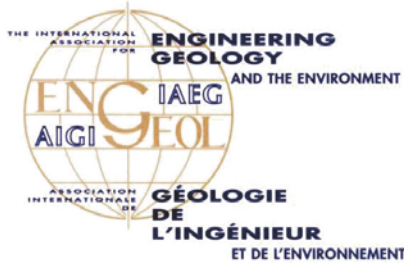
EAGE Brij Bhushan Singh was focused on emphasizing the overlapping topics of geophysicists, geoscientists, and engineering geologists. Collaboration for future activities was discussed and contribution to the YEG webinars from young EAGE members with a relevant subject was highlighted in the first place. In this context, the chair of the Energy Transition circle of EAGE, Carla Martin Clave was delighted to give a speech on a YEG webinar.

It was concluded that there is a demand for young geoscientists globally. Obviously, there is a lack of graduated geoscientists because the new generation is not looking at the energy sector (gas, oil, hydrogen, etc.) as beneficial and worth working for. At that point, engineering geologists have a crucial role to investigate the feasibility of the ground for energy storage and find engineering solutions to make underground energy storage caverns stable.

The next EAGE Annual Congress & Exhibition will be held in Oslo and can be a good opportunity to condense the relationships and strengthen the position of engineering geology among the other geoscience and engineering disciplines. The photos from the IAEG-YEG booth at the 84th EAGE Annual Conference and Exhibition are attached to the end of the report.



02/ Announcement of Web Editor in Chief



President:	Dr. Vassilis Marinos
Past President:	Prof. Rafiq Azzam
Secretary General:	Prof. Wu Faquan
Treasurer:	Dr. Jean-Alain Fleurisson
Vice Presidents	
Africa:	Prof. Moshood N. TIJANI
Asia:	Dr. Ranjan Kumar Dahal Prof. YongSeok SEO
Australasia:	Mr. Anthony Bowden
Europe:	Dr. Janusz Wasowski Dr. Helen Reeves
North America:	Dr. Julien Waerber
South America:	Prof. Victor Manuel

Professor Faquan Wu
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Email: iaegsg@163.com

Letter of Appointment for Web Editor in chief of IAEG

According to the recommendation of IAEG President Vassilis Marinos, the Executive Committee has agreed to appoint Dr. George Papatthanassiou from Aristotle University of Thessalonik as the Web Editor in chief of IAEG. The decision has been approved by the Executive Committee at the online working meeting which was held on June 19th, 2023.



President(Signature):
Vassilis Marinos



Secretary General (Signature):
Faquan Wu

Date: June 26th, 2023

03/ CALL FOR THE HOST OF IAEG EVENTS

We would like to catch your attention to submit proposals of hosting 15th IAEG Congress in 2026, if you have the plan to host this big event of IAEG which is organized every four years, please prepare a proposal and submit to IAEG Secretariat, the proposal will be presented to the Council for approval at the council meeting in September, 2023.

You can also propose to host regional conferences of different continents including Asian Regional Conference, European Regional Conference, African Regional Conference, Latin American Regional Conference etc. Please contact the secretariat if you would like to apply for any IAEG International Event.

04/ YEG ACTIVITIES

15th e-YEG Webinar at 16:00 UTC (GMT) on May 25, 2023 (Thursday)

Presentation from Dr. Xuanmei Fan (China) & Dr. Christina Rechberger (Austria)

You can view the recorded video of the 15th e-YEG Webinar via the link below:

<https://www.youtube.com/watch?v=XTvQKPvtxlo>

The group of Young Engineering Geologists (YEG) – IAEG invites you to the 15th series of “e-YEG” webinars with invited presentations from Dr. **Xuanmei Fan** (China) & Dr. **Christina Rechberger** (Austria)

Day: Thursday 25th May 2023
Time: 14:00 UTC (GMT)
Platform: Zoom App

Mechanisms and prediction of earthquake and climate change-induced chains of geological hazards

Insights into the formation and deformation processes of a deep-seated rockslide in a valley glacier retreat area

Dr. **Xuanmei Fan** is a Full Professor, the Director of the Department of International Exchanges and Cooperation, and the Deputy Director of the State Key Laboratory of Geohazard Prevention and Geoenvironment Protection (SKLGP) at Chengdu University of Technology, China. She received her PhD in Engineering Geology from the Faculty of Geo-Information Science and Earth Observations (ITC) at the University of Twente in the Netherlands in 2013. She was appointed as a disaster risk reduction specialist by the United Nations Institute for Training and Research (UNITAR). In 2015, she became a leading professor in Geohazard Risk Assessment and Prevention at SKLGP. Her current research interests are focused on understanding the mechanisms involved and developing predictive models to assess future risks of earthquake and climate change-induced hazard chains, with a particular emphasis on glacier-covered regions in the Tibetan Plateau.

Dr. **Christina Rechberger** is a Senior Scientist at the Disaster Competence Network Austria, a cooperation platform in the field of security and disaster research. She holds a PhD in Engineering Geology from the University of Natural Resources and Life Sciences Vienna, which she completed in 2022 under the supervision of Univ.-Prof. Dr. Christian Zangl. Her research focuses on the characterisation, monitoring and modelling of deep-seated rockslides in high mountain regions. She received her B.Sc. in Applied Geoscience from the University of Leoben, Austria in 2013 and her M.Sc. in Engineering- and Hydrogeology from the Technical University of Munich, Germany in 2015. From 2015 to 2017, she worked as an engineering- and hydrogeologist for a civil engineering company and was responsible for local and regional projects. Since 2020 Christina is the country representative for Austria of the Young Engineering Geologists (YEGs).

16th e-YEG Webinar

Presentation from Dr. Baynes & Mr. Parry on the "Guidelines for the development and application of engineering geological models on projects"

You can view the recorded video of the 16th e-YEG Webinar via the link below:

<https://www.youtube.com/watch?v=mgmD7d9bYml>

The group of Young Engineering Geologists (YEG) – IAEG invites you to the 15th series of “e-YEG” webinars with invited presentations from Dr. **Fred Baynes** & Mr. **Steve Parry**

Topic: **Guidelines for the development and application of engineering geological models on projects**

It is suggested that you download and familiarise yourself with the Guidelines before the talk, from [here](#) (IAEG website)

Day: Thursday 13th July 2023
Time: TBA
Platform: Zoom App

Overview of the Guidelines and their application on projects in a traditional and digital environment

The generation and use of conceptual models to anticipate ground conditions with examples

Dr. **Fred Baynes** was educated in the UK and immigrated to Australia in 1980, where he is an independent consultant engineering geologist. He provides advice to major projects in the civil, mining and oil and gas sectors throughout the world and advocates focusing on field studies and developing effective engineering geological models to facilitate project delivery. He teaches courses on engineering geology and geology for engineers and was President of the International Association of Engineering Geology from 2007 to 2010. He is currently Chair of IAEG Commission 25.

Steve Parry is an independent consulting engineering geologist. He spent 23 years in Hong Kong, first with the HK Government and then running his own consultancy. He returned to the UK in 2013 and provides advice to a wide range of projects both in the UK and Overseas as well as acting as Expert Witness. He was Chair of IAEG Commission C25 from 2010-20. Steve also teaches on the MSc in Engineering Geology at Leeds University, UK focusing on field skills, including engineering geomorphological mapping and landslide hazard and risk assessments.

Travel Grant Award For 2nd IAEG Summer School

Dr. Om Prasad Dhakal (Nepal) and Dr. Neha Chauhan (India) won the travel grant award of the 2nd IAEG summer school.



Monthly YEG Article

RECURRENT ROAD COLLAPSE PROBLEM IN KAPASIA-SREEPUR LINK ROAD OF GAZIPUR DISTRICT, BANGLADESH: CONSIDERATION OF QUATERNARY GEOLOGY, GEOMORPHOLOGY AND CLAY MINERALOGY FOR RISK ASSESSMENT

Rajib Kumar SAHA, Assistant Director, Geological Survey of Bangladesh; Master 2 Student, Erasmus Mundus International Master in Quaternary and Prehistory, Muséum National D'Histoire Naturelle, Paris, France, Email: rajibkumarsaha@hotmail.com

Abstract

Several news reports on recurrent collapses along Kapasia-Sreepur link road and nearby areas from 2003 to 2020 have attracted inquisitive minds. According to local inhabitants' point of view, illegal sand lifting from the River Shitalakhya and the Banar River may have caused the collapse. Prior field work experience along with sample analysis results guided an alternative way to re-think the root cause of the problem. Quaternary geology, geomorphology, and clay mineralogy have been considered as the broad parameters to delineate the road collapse risk assessment.

Key Words: Recurrent, Quaternary, Geomorphology, Clay, Risk

Introduction and Problem Definition

In the Kapasia-Sreepur areas of Gazipur district, Bangladesh Holocene alluvial sequence lies above the Pleistocene Madhupur Clay Formation. The Shitalakhya River is the main drainage system of the locality which originated from the Old Brahmaputra River and is divided into two tributaries near Toke village of Gazipur district. The Southwest tributary is known as the Banar River and it has been designated as the Shitalakhya River at Lakhpur area. Around 5 am on February 12, 2018, about 120 meters of the Shitalakhya River road collapsed (Fig.1), causing serious problems for people heading to Kapasia. Locals informed that they were awakened at 5 in the morning by the noise and chaos of

trees. They went outside their house and witnessed land subsidence (The Daily Asian Age, 13 February 2018). Years later, at least 2,500 square feet of land (Fig. 2), affecting a part of the road connecting Kapasia and Sreepur and adjacent areas, collapsed into the Banar River in Gazipur on 10 December 2020 around 2 am (The **Dhaka Tribune**, 11 December 2020). The same area has been affected by collapses previously in February 1964 and February 2003. Mr. Saif Uddin, the Executive Engineer of the Local Government Engineering Department (LGED) in Gazipur said: "Development works of the Sreepur-Kapasia road were completed last year. We did not anticipate any risk of collapse along the road during the six months of monitoring period". (The **Dhaka Tribune**, 11 December 2020).



Figure 1: Road collapse between Kapasia-Sreepur on 13 February 2018
Photo credit: The Daily Asian Age



Figure 2: Part of the Kapasia-Sreepur road collapsed in Kapasia Upazila of Gazipur District, December 11, 2020, Photo credit: The Dhaka Tribune

Methodology

The Kapasia-Sreepur area (Fig. 3) has been characterized by employing ground control work and ArcGIS operation. It was then categorized into several geomorphological subunits such as Madhupur Clay Deposits, Gully fill Deposits, Natural Levee Deposits, Lateral Bar Deposits, Channel Bar Deposits, Point Bar Deposits, Active Channel Deposits, Valley fill Deposits/Abandoned Channel Deposits, Old Bar Deposits. Madhupur Clay deposits have been deeply weathered in Sreepur Upazila (GSB Record Series, Volume 16, Part 2, 2022). During field investigation cracks, and fissures have also been recorded in local earthen house (made up of Madhupur clay), iron-manganese concretions (Fig. 4), and bluish-gray silty clay (Fig. 5). Samples were collected from the cracked surfaces surroundings and X-ray diffractogram (clay mineral analysis), XRF (elemental composition) and FESEM (imaging and mineral mapping) were carried out.

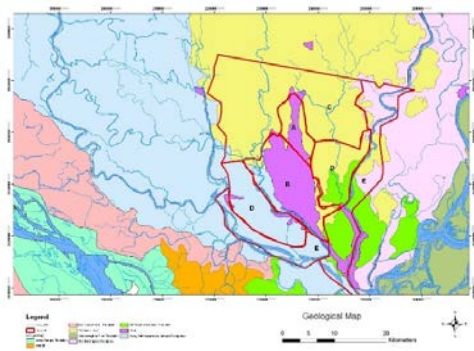


Figure 3: Geomorphological map of the lower part of the Shitalakhya River and adjacent area



Figure 4: Iron-manganese concretions in deeply weathered Madhupur Clay



Figure 5: Presence of bluish-gray Silty Clay in oxidized Madhupur Clay

Result & Conclusion

Mineralogical properties of the Madhupur clay vary significantly both in plane and vertically. Madhupur Clay consists mainly of silt and clay, which become greasy when getting wet and shrinks after drying. The weather of Bangladesh can be classified as warm, rainy summer monsoon and a short cold, dry winter with deficit rainfalls. Up to date, recurrent road collapses have happened in December and February (winter season in Bangladesh). The geotechnical engineering parameters of Quaternary deposits of the study area prominently depend on the origin and fraction of the clay content and clay mineralogy. Based on the observations, it is evident that Madhupur Clay is rich in clay and most commonly formed of kaolinite-smectite, chlorite, illite, and vermiculite-smectite (Saha, 2011) as well as a considerable percentage of montmorillonite. Montmorillonite has swelling properties during the rainy season and shrinkage during winter, thus it creates exchangeable cations which might be responsible for recurrent road collapses during winter (events largely recorded in December and one in February).

References

Saha, R. K., Khan, S.H., Akhter, S., Huque, A., 2011. Study of Clay minerals of Shitalakhya-Dhaleswari Interfluve, Bangladesh Journal of Geology, Dhaka, Bangladesh, Vol. 29-30, P 88-99

Hasan, F. M., Arifuzzaman, M., **Saha, R. K.**, Talukder, S., Hossain, S., 2022. Geological Aspects and Elemental Composition of the Madhupur Clay of Sreepur and Kapasia Upazila, Gazipur District, Bangladesh, Records of the Geological Survey of Bangladesh, Volume 16, Part 2, Govt. of the People's Republic of Bangladesh.

<https://dailyasianage.com/news/108155/sreepur-kapasias-road--communication->

<https://archive.dhakatribune.com/bangladesh/nation/2020/12/11/road-collapses-into-river-in-gazipur>

05/ MEMBERSHIP UPDATE IN 2023

By June 30, 2023 the number of IAEG memberships is 3668 from 69 national/regional groups. Springer.

VP	No.	NG	total	Associate members
Anthony Bowden	1	Australia	407	0
	2	New Zealand	577	0
Janusz Wasowski	3	Albania		
	4	Austria		0
	5	Bulgaria	10	0
	6	Croatia	27	
	7	Cyprus		
	8	France		9
	9	Georgia	14	0
	10	Greece		0
	11	Hungary		
	12	Italy		0
	13	Portugal		1
	14	Romania		0
	15	Serbia		
	16	Slovenia	42	0
	17	Spain	28	0
	18	Switzerland	54	0
	19	Turkey	141	0
Helen Reeves	20	Belorussia	7	0
	21	Netherlands	28	0
	22	Lithuania		
	23	The United Kingdom		0
	24	Belgium	57	0
	25	Czech Republic		0
	26	Denmark		
	27	Estonia		
	28	Finland		
	29	Germany	457	0
	30	Iceland		
	31	Ireland		
	32	Norway		
	33	Poland		
	34	Russia	85	0
	35	Slovak Republic	6	0
	36	Sweden		0
	37	Kyrgyzstan		
	38	Uzbekistan		
Moshood N. TIJANI	39	Algeria		
	40	Nigeria	85	0
	41	South Africa		0
Julien Cohen-Waeber	42	Canada	99	0
	43	USA	204	0

Victor Manuel	44	Argentina	17	0
	45	Bolivia		
	46	Brazil		0
	47	Chile	39	0
	48	Colombia		0
	49	Costa Rica	20	0
	50	Mexico	5	0
	51	Paraguay		0
	52	Peru	12	
Ranjan Kumar Dahal & YongSeok SEO	53	Bangladesh		0
	54	China	587	0
	55	Chinese Taipei	50	0
	56	HongKong SAS	8	0
	57	India	113	0
	58	Indonesia		
	59	Iran		0
	60	Iraq		
	61	Japan	73	6
	62	Korea	83	0
	63	Malaysia		0
	64	Mongolia	10	0
	65	Myanmar		
	66	Nepal (NGS)		
		Nepal (NSEG)	149	0
	67	Singapore	145	0
68	SEAGS	8	0	
69	Vietnam	20	0	
Individual Member			1	
Associate Member				
Total			3668	6

06 REGIONAL CONFERENCES

The 14th Asian Regional Conference of IAEG in Kota Kinabalu, Malaysia on
February 26-28, 2024



14TH ASIAN REGIONAL CONFERENCE OF IAEG

KUALA LUMPUR, MALAYSIA

27 FEB - 29 FEB 2024

ENGINEERING GEOLOGY AND GEOTECHNICS FOR DISASTER RESILIENCE

ARC14 is organized by Society for Engineering Geology and Rock Mechanics Malaysia (SEGRM). The organizer offers an ideal opportunity and platform for professionals from the international engineering geology and geotechnical engineering community to exchange the latest experiences and ideas, particularly on the conference theme "Geoscience and Engineering for Disaster Resilience". In addition to the technical programs, we will organize short courses, workshops, technical visits, exhibitions, as well as social programs. We will also offer attractive programs for young researchers and students, such as Young Engineering Geologist Session.

Conference Information

Website: <https://arc14.asia/>; Email: admin-arc14@segrm.org

Phone: +6018-2524267 (Whatsapp only)

Sub-theme

- Site Characterization, Field & Laboratory Testing and Problematic Grounds
- Geological Hazards (Landslides, Earthquakes, etc.)
- Engineering Geology and Geotechnics in Wet Tropical Terrains
- Tunnelling for Infrastructures and Underground Facilities
- Marine Engineering Geology and Offshore Geohazards
- New Technology in Engineering Geology and Geotechnics including Renewable Energy
- Special Session on 'Landslide Hazard and Risk Assessment' and 'Geoscience and Engineering Roles in Community-Based Disaster Risk Management'

Important Date

1st January 2023: Open for Extended Abstract Submission

30th May 2023: Deadline for Submission of Extended Abstract

30th July 2023: Confirmation of Acceptance of Extended Abstracts

31st October 2023: Last Day for Submission of Corrected Extended Abstract

Call For Abstract

ARC14 is calling for abstract. Please the website to submit your abstract through the link of <https://www.arc14.asia/> and https://drive.google.com/file/d/1zu9B95MoDZq7wSbvN6-Zk-pJhDmtGHn9/view?usp=share_link to download the abstract template.

Field Trip

(Sandakan Area): 2D1N/3D2N Bilit Rainforest Lodge; Sepilok Orang Utan / Kinabatangan River



(Lahad Datu Area) 3D2N Tabin Wildlife Reserve or 3D2N Borneo Rainforest Lodge



(Semporna Area): 3D2N / 4D3N Semporna Islands with Bohey Dulang Hike



Please click <https://www.dropbox.com/s/g9jlutf1chetwvg/ARC-14%20%28Second%20Circular%29.pdf?dl=0> for the 2nd circular of ARC14.

The 4th European Regional Conference of IAEG in Dubrovnik, Croatia on October 2-6, 2024



Croatian Geological Society
Engineering Geology Section
IAEG
Croatian National Group



To
IAEG Secretary General
Prof. Faquan WU

Zagreb, 11 May 2022

Dear Secretary General Dr. WU,

It is our great honor and responsibility that on behalf of the Croatian National Group of IAEG to express our interest to express our interest to request to organize the 4th European Regional Conference of IAEG, at the beginning of October 2024 in Dubrovnik, Croatia and host the Executive Committee meeting and council in 2024 at the occasion of this Conference.

The previous 3rd European Regional Conference (EURO-ENGEO 2020) held in Athens, Greece in September 2020 was very successful and justified the need for regular organization of such conferences at European level in order to increase networking of National Groups (NGs) and improve communication between them. At the last Council meeting, the Secretary of the Croatian National Group of IAEG, Lovorka Librić, presented the initiative to organize the next conference in Croatia.

We would also like to bid the Executive Office and Council for 2024 on the occasion of the conference as well as to support 2024 IAEG award prizes. We believe that this would increase the involvement of European NGs, especially due to the fact that almost half of the IAEG members exist in Europe.

The conference will be organized with the collection of extensive abstracts and full papers, exhibitions and field trips. We would like to emphasize that we have the great support of Croatian Geological Survey, Croatian Geological Society and University of Zagreb which have large experience in organizing such a big events.

We are looking forward to have the opportunity to present more details about this proposal.

Sincerely yours,

Secretary:

Lovorka Librić

President:

Ivan Kosović

VODITELJ/PRESIDENT
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The 4th African Regional Conference of IAEG in Botswana in the middle of 2024



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The Secretary General
International Association for Engineering Geology and the Environment

31 August 2022

Attention: Prof Faquan Wu

4th IAEG Regional Conference for Africa

It is the intention of the South African IAEG National Group (SAIEG) to co-arrange the 4th IAEG Regional Conference with the Botswana Geoscience Institute (BGI) in 2024.

There is currently no National group in Botswana, although there is close collaboration between some South African institutions and the Botswana Geoscience Institute. Due to the absence of a professional institute or other society specifically accommodating engineering geologist many professional engineering geologists residing and working in Botswana affiliates or become members of the South African Institute for Engineering and Environmental Geologists (also the local IAEG NG).

Botswana has a vibrant mining environment and also well-organized rock mechanics grouping as well as ongoing civil engineering projects and the development of engineering geological maps for the major development nodes.

The BGI and SAIEG are requesting the support of the IAEG for the hosting of the 4th IAEG Regional Conference for Africa in Botswana during the second half of 2024.

It has been agreed that BGI will provide the logistical arrangements and SAIEG will assist with the technical programme and review process.

The current initiation committee comprises Puso Akanyang (Director Science Delivery, BGI) and Louis van Rooy (Extraordinary Professor University of Pretoria – for SAIEG). Once the support from IAEG is received a properly constituted organizing committee will be established to initiate the relevant processes.

Regards,

Puso Akanyang
For BGI

Louis van Rooy
For SAIEG

The 15th Asian Regional Conference of IAEG in Dhaka, Bangladesh on November 27-28, 2025

Conference venue

Bangabandhu Conference Center/InterContinental Hotel (Sheraton Hotel) or Pan Pacific Sonargaon Hotel, Dhaka, Bangladesh.



Conference size

About 250 to 300 attendees, 50 from neighboring countries including Nepal, India and 50 from other countries including Japan, Europe & others.

Proposed Field Excursion

1. "Padma Bridge en route to UNESCO World Heritage site Sunderbans"



2. "Bangabondhu Karnafully Tunnel" en route to world's largest Sandy Sea Beach Cox's Bazar.



07 NEWS OF NATIONAL AND REGIONAL GROUPS

BELARUSSIA

On March 3, 2023, representatives of the Belarussian National Group IAIG took part in the 75th Regional Scientific and Practical Conference "Science - Education, Production, Economics" - the annual session of the faculty of Vitebsk State University named after P.M. Masherov, where the members of the national group presented the results of research work on topical issues of engineering and environmental geology of Belarus.

From May 25 to May 26, 2023, members of the IAIG national group took part in the work of the V International Scientific and Practical Conference "Geographical Aspects of Sustainable Development of Regions", held at the F. Skorina Gomel State University by the Faculty of Geology and Geography of the University with the support and participation of the Gomel Department of the Belarussian Geographic society, the Russian Center for Science and Culture in Gomel. The conference topics covered issues of physical and socio-economic geography, general and regional geology, problems of engineering geology, hydrogeology, geophysics, rational use of natural resources and environmental protection, nature management, etc. In total, 97 reports were announced by more than 100 authors from scientific and educational institutions of Belarus (GSU named after F. Skorina, VSU named after P.M. Masherov, Belarussian State University, Vitebsk State Order of Friendship of Peoples Medical University, Belarussian State University of Informatics and Radioelectronics, Baranovichi State University, Brest State Technical University, Brest State University named after A.S. Pushkin, Mozyr State Pedagogical University named after I.P. Shamyakin, Institute of Nature Management of the National Academy of Sciences of Belarus, Institute of Forestry of the National Academy of Sciences of Belarus, State Environmental Institution "Reserve of Republican Significance" Vydritsa ", Polesky State Radiation and Ecological Reserve), Russia (Moscow State University named after M. I.N. Lomonosov, Southern Federal University, G.V. Plekhanov, Moscow State University of Civil Engineering, St. Petersburg State University, Russian State Hydrometeorological University, Tambov State University named after G.R. Derzhavin, Ryazan State University named after S.A. Yesenin, Yaroslavl State Pedagogical University named after K.D. Ushinsky), Azerbaijan (Institute of Geography named after Academician G. Aliyev of the National Academy of Sciences of Azerbaijan, Baku State University, Sumgayit State University, Institute of Soil Science and Agrochemistry of Azerbaijan), Uzbekistan (Tashkent State Technical University named after Islam Karimov, Navoi Mining and Metallurgical Combine), Republic of Moldova (Pridnestrovian State University named after T.G. Shevchenko), China (Lanzhou Transport University), etc.

Until the end of 2023, members of the Belarussian National Group IAEG will take part in the VI international scientific and practical conference "Actual problems of the Earth sciences: studies of transboundary regions", which will be held on October 26–28, 2023 on the basis of the Faculty of Natural Science of the BrSU named after A.S. Pushkin.

Chairman of the Belarussian National Group IAEG, PhD, DSc (Geology and Mineralogy), Professor



Aleksandr
Galkin

Secretary of the Belarussian National Group IAEG, PhD (Geology and Mineralogy), Associate Professor



Irina
Krasovskaya

CHINA

China Geological Engineering Academic Conference 2023

On April 22, 2023, the China Geological Engineering Academic Conference opened grandly at the Platinum Duke Hotel in Nanjing. The conference, themed "Opportunities and Challenges of Geological Engineering under the 'Dual Carbon' Target," featured 12 sessions covering topics such as geotechnical structures and engineering geological characteristics, carbon sequestration and utilization, ecological engineering geology, and environmental protection.

More than 2,300 representatives from universities, research institutes, and enterprises across the country attended the conference in person, with an additional 240,000 participants joining via live streaming.

During the conference, participants engaged in extensive and in-depth exchanges centered around the conference theme and topics. They put forward priority research areas in the field of global scientific exploration and emphasized the importance of interdisciplinary integration. The framework, content, and mission of fundamental research on the dynamic evolution of the Qinling Mountain ecosystem and mechanisms for green development were systematically elucidated. Through these exchanges, the representatives provided suggestions and proposals for the implementation of national strategies such as ecological conservation, resource development, and disaster prevention, contributing to the construction of a beautiful China.



The 14th China Geological Engineering Senior Forum

From May 12th - 14th, 2023, the 14th National Geological Engineering Senior Forum, organized by the Engineering Geology Committee of the Geological Society of China, was successfully held in Luding County, Sichuan Province. The forum was themed "Geological Issues and Countermeasures of Lifeline Engineering in the Qinghai-Tibet Plateau."

During the forum, the moderators and invited guests delivered introductory speeches and engaged in discussions. Experts in attendance freely expressed their views and engaged in vigorous discussions on the opportunities and challenges posed by various geological issues in major lifeline engineering projects during construction and operation, providing valuable suggestions and proposals.



After the forum, the experts conducted a one-day field investigation of engineering geology. They visited the Wuzhisuo landslide, Mogangling landslide, the seismic damage caused by the Moxitai 9.5 earthquake, and other geological hazards and corresponding control measures during the construction of major lifeline engineering projects. Together, they explored various geological issues and the development of scientific and technological capabilities concerning the construction and safe operation of lifeline engineering projects in the hinterland of the Qinghai-Tibet Plateau.

This forum carried forward the tradition of previous National Geological Engineering Senior Forums, characterized by openness, inclusiveness, and free exchange of ideas. It further integrated fundamental research with engineering practice, choosing to hold the conference on the frontlines of major lifeline engineering projects. Based on the needs of national development, the forum successfully addressed the issues related to scientific and technological support for the construction and operation safety of lifeline engineering projects on the Qinghai-Tibet Plateau, as well as discipline development and talent cultivation. The constructive opinions put forward by the participating experts will play an important role in promoting the existing, ongoing, and planned lifeline engineering projects in the Qinghai-Tibet Plateau, as well as the future development of the field of engineering geology, making significant contributions to the construction of a beautiful China and a habitable Earth.



COSTA RICA

Sergio Mora Castro has recently released a new book titled “External Geodynamics Processes: Geomechanical, Climate and Risk Aspects” In Spanish. The book is available at various online retailers and physical bookshops:

- Amazon.com: https://www.amazon.com/gp/product/B0B728KLNN/ref=as_li_tl?ie=UTF8&creativeASIN=B0B728KLNN&linkCode=as2
- Apple Books: <https://books.apple.com/us/book/id6443185056>
- Google Play: <https://play.google.com/store/books/details?id=xYV8EAAAQBAJ&PAffiliateID=1100lcQHW&gl=us>

The paper version is available at Libros Vesania (Costa Rica) at WhatsApp +50683886431 and at email faustinodesinachdos@gmail.com The cost of the printed version is US\$ 95 + mailing.

Further information and a video (in Spanish) about the presentation of the book are available at <https://www.geologos.or.cr/la-geodinamica-externa-aspectos-geomecanicos-hidrogeologicos-climaticos-y-del-riesgo/>



ITALY

The Italian National Group will give a report on a session under the theme of landslide at the 6th World Landslide Forum. The session titled "*Landslides and Other Ground Failures Triggered by the February 6, 2023 M7.7 and M7.6 Turkey-Kahramanmaras Earthquakes*" addressed the devastating earthquakes that caused significant damage to 11 provinces of Turkey and western parts of Syria. The death toll exceeded 50,000, and more than one million people were evacuated from earthquake-stricken towns. The earthquakes resulted in thousands of landslides, widespread liquefaction, and other ground failures, highlighting the severe collateral seismic hazards associated with these events.

The session aimed to communicate the initial findings from ground and remotely based investigations conducted in Turkey, with a particular focus on co- and post-seismic landslides and liquefaction phenomena. In addition, the session explored earthquakes and landslides in Italy and discussed the challenges associated with addressing these geohazards in real-life seismic microzonation investigations. This was a crucial opportunity to advance our understanding of earthquake-induced geohazards and improve our ability to mitigate their impact.

The Italian National Group wishes to extend our sincere thanks to the Turkish and German National Groups of IAEG for co-sponsoring this important session. We are committed to continuing our collaboration to promote sustainable management of geo-hydrological hazards and develop effective strategies for addressing seismic hazards in Italy, Turkey, and around the world.

GERMANY

Obituary

Dr. Helmut Bock passed away on 21 January, 2023, in his hometown Bad Bentheim Germany, at the age of 82.

Helmut was a well-known and highly respected member of the International Association of Engineering Geology and the Environment (IAEG).

After his retirement from Interfels in 1998, Helmut devoted a large amount of his time and creativity as chairman of the Section Engineering Geology of the German Geotechnical Society, which also acted as the German National Group of IAEG. The section flourished under Helmut's chairmanship with impressive yearly national conferences and technical exhibitions. One of Helmut's priorities was to provide a platform to younger engineering geologists at these conferences. The conferences were opened by the best paper presentation following a contest among young engineering geologists.

At the European level, Helmut chaired the international Joint European Working Group (JEWG) of IAEG, ISRM and ISSMFE, which produced in 2004 the excellent report: "Professional tasks, responsibilities and cooperation in Ground Engineering", subsequently accepted by all three international Associations as a basis for their cooperation. He also co-authored a paper "Competencies oriented curricula development in geoen지니어ing with particular reference to Engineering Geology", based on the JEWG report, at the International Conference on Education and Training in Geoen지니어ing Sciences in Bucharest in 2008.

In 2004 Helmut was co-organizer of the IAEG Euro-Conference in Liege, organized together with the Dutch and Belgian National Groups of IAEG. Only a few months ago, Helmut terminated his position as German representative in the ISO Working Group Geo-Measuring Techniques, which he fulfilled for many years.

The IAEG international community has lost in Helmut a creative and influential scientist, a humorous colleague, and a very warm friend. Helmut is survived by his wife Christa, and his daughters Ellen,

Sarah, Katrin, and son Benno, which he had with his first wife Anna who passed away in 1992.

(Niek Rengers, IAEG president 2003-2006)

Upcoming events with the participation of IAEG-GER 2023

- Congress of the German Geological Society DGGV, GeoBerlin, Aug. 03-08, 2023, "Geosciences Beyond Boundaries - Research, Society, Future", including geological field trips, see www.geoberlin2023.de for details
- 4th German Geotechnical Society DGGT Section Days, Germany, Sept. 12-13, 2023 Conference on Engineering Geology and Forum for "Young Engineering Geologists" – The 3 best presentations will be awarded, organized by the IAEG German National Group, see www.fachsektionstage-geotechnik.com
- IAEG Congress Sept. 21-27, 2023 "Engineering Geology for a Habitable Earth" in Chengdu, China. www.iaeg2023.org for details
- ISRM Congress Salzburg, Oct. 09-14, 2023: "Challenges in Rock Mechanics and Rock Engineering", see www.isrm2023.info for details; joint sessions with the Austrian IAEG National Group (Prof. Zangerl)

JAPAN

Annual Meeting and Symposium, 2023

On Friday, June 16, 2023, Annual Meeting and Symposium was held in a hybrid style. At the Annual Meeting, the agenda included a report on the activities of the previous year, the organization and the activity plan for the current year, which was approved by the delegates. The theme of this year's symposium was "D&I (Diversity and Inclusion) in Engineering Geology - Development of Engineering Geology through Diverse Human Resources.

There are numerous situations in which the contribution of Engineering geology is required to protect people's lives, such as natural disasters and construction accidents caused by manifestations of geological risks. Our discipline is also expanding to include the application of rapidly evolving measurement and information technologies, or research with other disciplines such as archaeology, history, and agriculture, and outreach activities such as geo-merit and Geotourism.

On the other hand, the aging of JSEG members, with more than half of them being men in their 50s, and the number of young people and women joining the JSEG has been sluggish, making it difficult to expand the diversity of human resources and the diversity of research fields in Engineering geology.

In order to break out of this situation, we decided to discuss the future technology we should aim for, collaboration with different fields, outreach, and securing and fostering human resources to take on these tasks.

At the beginning, Ms. Wada Rie, Chair of the Diversity Promotion Committee, gave a presentation on "The Necessity of Diversity Promotion in the Japan Society of Engineering Geology and the Committee's Efforts".

Next, for the special lecture, Mr. Takashima Tetsuo, a novelist, was invited to give a talk titled "Diversity Born of Interest."

Mr. Takashima has published many novels on the subject of natural disasters. He has contributed to raising public awareness of disaster preparedness by explaining the threat of large-scale natural disasters and the importance of disaster preparedness in scientific and concrete terms. In the following

topic presentations, the theme was "Diversification of Engineering Geology ⇔ Diversity of Human Resources" and topics were presented from various fields.

Finally, a panel discussion was held on the theme of "Diversification and Development of Engineering Geology."



presentation given by Mr. Takashima Tetsuo



A panel discussion



Q&A session

New Chairperson of IAEG Japan National Group, Dr. Osada Masahiko

It is with great confidence and excitement that I announce the appointment of our new Chairperson. IAEG Japan National Group has been replaced by a new Chairperson. Osada Masahiko has been appointed as the new Chairperson of IAEG Japan National Group. We would like to express our deep gratitude to Dr. Chigira Masahiro for his many years of activities for the Japan Society of Engineering Geology as IAEG Japan National Group.

Greetings from the new Chairperson:

I am Osada Masahiko, new Chairperson of IAEG Japan National Group and the professor of department of Civil and Environmental Engineering at Saitama University, Japan. I will try to contribute as much as possible after Dr. Chigira, the former Chairperson. I have always believed that the field of Engineering Geology is at the cutting edge of Earth Science because drilling boreholes gives us a direct glimpse of the workings of the earth that no one has ever seen before.

The scope of Engineering Geology is broad and diverse, and there is still much to be done. I sincerely hope to work together with IAEG members and other National Group members.



New Chairperson of Japan National Group, Dr. Osada Masahiko

Commission 10

Global Stone Congress 2023 in Batalha, Portugal

The previously reported main activity of C10 was the Global Stone Congress in Ileus, Brazil in 2018. C10 members Nuria Castro and Heloisa Frascá were especially active in organising the event. After that, Covid sadly struck us all and had all physical events postponed for several years. In 2022 we started to plan for the VII Global Stone Congress (Global Stone Congress 2023 – The seventh Edition (stonebyportugal.com)) held in Batalha, Portugal. Please refer to <https://www.scientific.net/book/global-stone-congress-ii/978-3-0357-3524-6> for the book.

The main organisers are/were Évora University of Portugal, Assimagra and Cluster of mineral resources in Portugal. Main contacts Professor Louís Lopez (lopes.uevora@gmail.com) and Marta Peres (marta.peres@clustermineralresources.pt).

Trends

- The general trend is to adapt to climate change and also to climate impact. Thus, circular economy with reuse of all materials extracted from the quarries and during production, e. g. producing new products of waste materials from processing is a very hot topic.
- In Europe, more and more stone producers can now show EPD's Environmental Product Declaration with documented CO2 impact and other environmental impacts from their productions. The same for USA.
- Fossil free production with electric machinery is gaining markets.
- A third trend is towards better production control with the assistance of digitalization. The most advanced quarry owners and producers can use digital tools for mapping the extraction and quarry qualities and continue with full traceability into the production and for laser scanning and 3D-production.

Involvement In Standardisation

At a European level, members of the C10 are working to update product standards and standards on testing relative to stone products according to the new Construction Product Regulation (CPR). Standards within CEN TC 246, 178 and 128 are continuously under revision. Many test methods have been developed to evaluate material properties and not product properties. The CPR requires the properties of the products, not the material, to be declared with CE-marking (documented product quality control with testing according to defined intervals). This is still a challenge to many stone companies despite being introduced in 2013.

The latest news in standardisation is that an ISO Technical Committee has started for global standardisation of natural stones (ISO/TC 327 - Natural stones). The first standards on test methods are being drafted for water absorption, density and porosity. Maybe, more interesting for IAEG C10 is the working group on Terminology. For more information, contact David Burton, chair of the working group (david.burton@tuffbau.com). We need your help in that group to make it really a Global activity!



The first physical ISO TC 327 meeting held in Alicante, Spain. Representatives from Italy, Sweden, Spain, China, USA and UK were present. Online India and Brazil participated.



Participants in the VII Global Stone Congress. Here during a visit to Marfilpe quarry in Portugal



Left: Björn Schouenborg at the congress.



Right: Technical visit: Dinosaur, footprints of Megalosauripus, Portugal

09/ XIV IAEG CONGRESS

The 14th Congress of the International Association for Engineering Geology and the Environment (XIV IAEG Congress 2023) will be held from September 21 to 27, 2023 in Chengdu, China. Based on the theme of "**Engineering Geology for a Habitable Earth**", the congress is expected to enhance the disciplinary and research development of international engineering geology and the environment, and contribute to the advancement of major projects, ecological progress, and habitable earth with research and discussion in global climate change mitigation and adaption, geological hazard assessment and prevention, geotechnical properties of rock and soil mass, engineering geology applied to traffic, energy, urban and marine, ecological environment protection in major projects, and artificial intelligence, new theories and technologies in engineering geology, etc. We warmly welcome the worldwide engineering geological community to come to Chengdu to participate in this academic event.

Please refer to <https://mcusercontent.com/a9fb57846c769f467423ee6c9/files/097d7308-8929-9fff-4dbd-82f952cbe609/111.pdf> for No.5 Notification.

Contact Information

Website: <https://iaeg2022.org/>

Venue: Chengdu Century City International Convention and Exhibition Center

Session and Paper/Abstract Submission

Peng Zeng: zengpeng15@cdut.edu.cn; Shenghua Cui: cuishenghua18@cdut.edu.cn

Sponsorship:

Dongpo Wang: wangdongpo@cdut.edu.cn; Qi Llu: 113160334@qq.com

Congress General Query

Frannie Li: info@iaeg2023.org/IAEG2022@cdut.edu.cn

Visa Helper

Rachel Huang: info@iaeg2023.org

Field Trip

★ Hydraulic Engineering Masterpiece, Earthquake Damage and Geohazard (September 26)

Topics:

- Two engineering masterpieces will be introduced at first (Dujiangyan Irrigation System and Zipingpu Reservoir Dam)
- Some post-earthquake geohazards consequent on the Wenchuan earthquake in 2008 will be introduced
- Overview large-scale debris flow mitigation structures



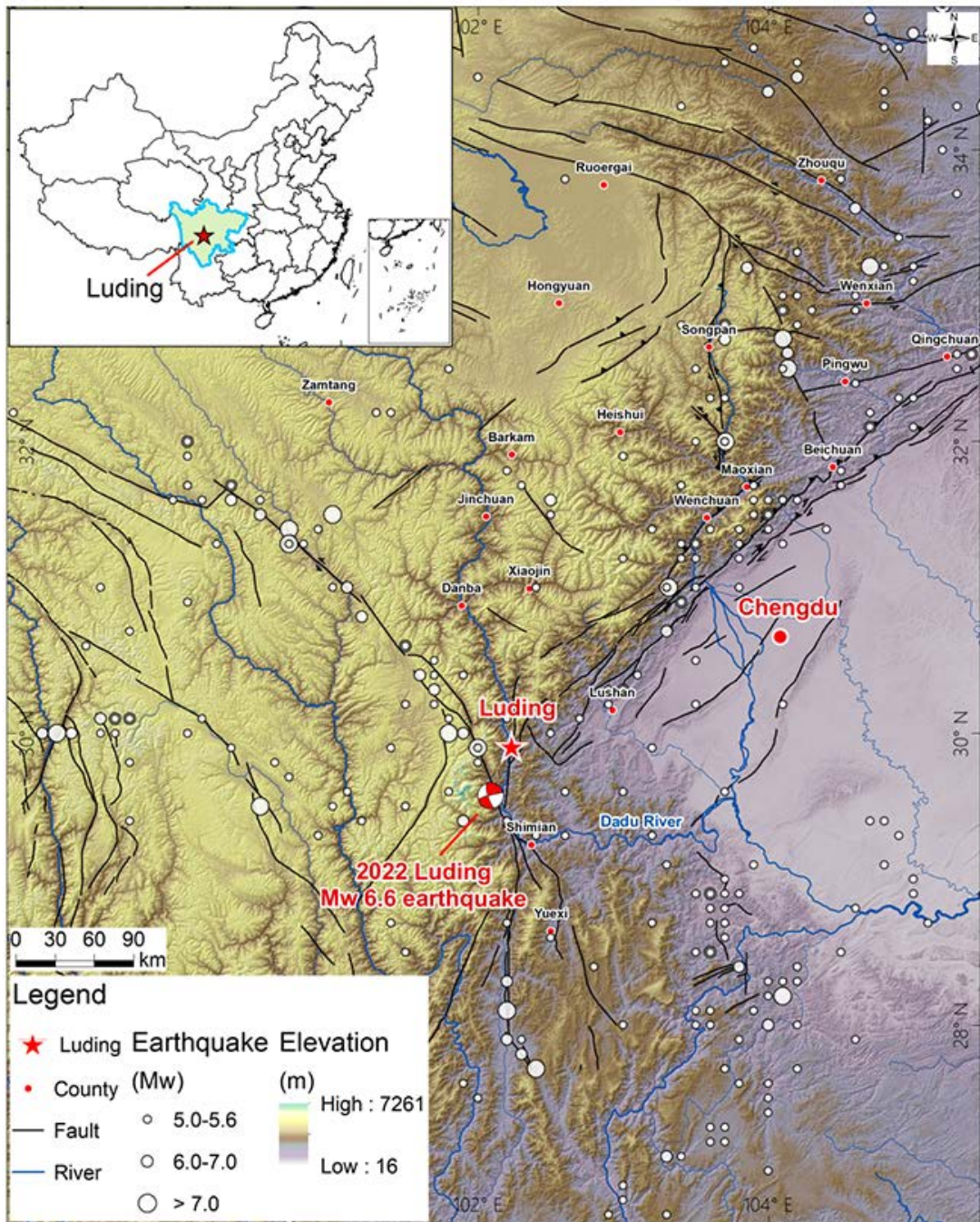
★ **The Three Gorges Hydropower Project and Reservoir Landslide Disasters (September 26-27)**

Topics: The sites include the world's largest hydropower station and the largest construction project in China, and an active landslide, owing to which, an entire town has been relocated.



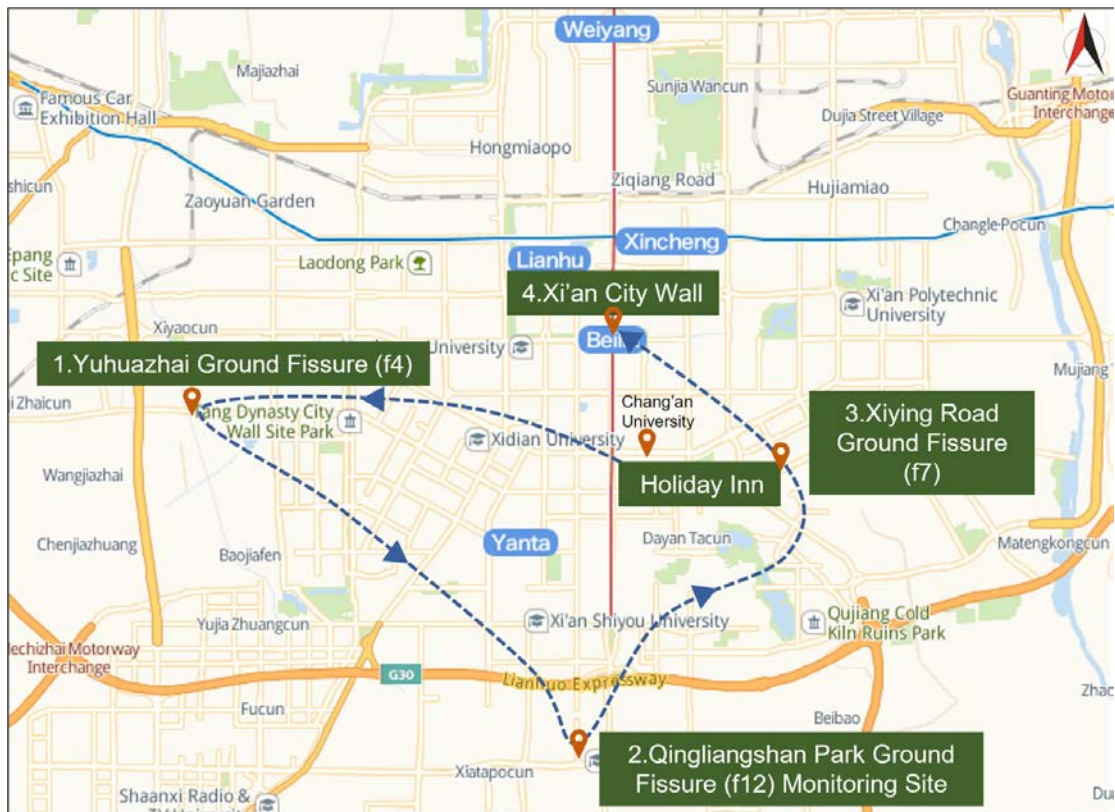
★ **Co-seismic landslides and Major Engineering Projects Site Selection (September 26-27)**

Topics: Two engineering masterpieces (Yakang Bridge and Luding hydropower station), one ancient iron chain bridge (Luding chain bridge is a famous red tourist attraction), two large-scale landslides induced by historical earthquakes (Wuzhisuo landslide and Mogangliang landslide) and one famous ancient town built on glacial water (glacier) deposit will be introduced.



★ **Urban Ground Fissure and Loess Landslide (September 26-27)**

Topics: Xi'an Ground Fissure and Loess landslide, the most serious ground fissure disaster and loess landslides in Xi'an, China.



Travel Grant

To provide financial assistance to attendees who might have financial constraints, the XIV IAEG Congress 2023 is pleased to offer travel grants to welcome a wider range of participants. The congress committee hopes that the travel grants will enable more attendees to benefit from the congress and advance their careers.

Travel grants are awarded based on financial need, potential contribution to the congress, and the quality of their paper, etc. Applications will be reviewed on a rolling basis, with decisions made as soon as practically possible.

Please refer to <http://iaeg2023.org/grant.html> for the application.

Registration

Early-bird registrations are preferred in order to facilitate the planning of the scientific sessions and social events. Registration is mandatory for participation in the scientific sessions and for oral or poster presenters.

Please refer to <https://www.iaeg2023.org/reg.html> for the registration fee.

10 MEETING INFORMATION

Nur-Sultan, Kazakhstan, August 14-18, 2023

17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering 2023



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

The 17th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering 2023 (17th ARC) will be held on August 14-18, 2023 in Nur-Sultan city, Kazakhstan.

Conference Information

Website: <https://17arc.org/>,

Conference Secretariat: info@17arc.org, Registration: registration@17arc.org,

Abstract Submission: paper@arc.org; info@17arc.org

The templates for the Abstracts and Full Papers are available at <https://17arc.org/abstracts-papers/>

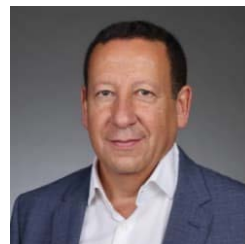
Keynote Lecture



Dr. Rashid Mangushev
Saint Petersburg
State University of
Architecture and Civil
Engineering (Russia)



Dr. Buddhima
Indraratna
University of
Technology Sydney
(Australia)



Dr. Lyesse Laloui
Swiss Federal Institute
of Technology
Lausanne (Switzerland)



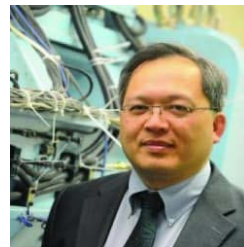
Dr. Mitsu Okamura
Ehime University
(Japan)



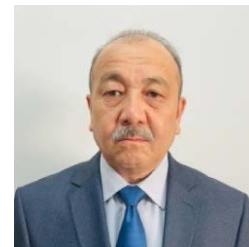
Dr. Ren-Peng Chen
Hunan University
(China)



Dr. Jong-Sub Lee
Korea University
(Republic of Korea)
Korea



Dr. Hoe I. Ling
Columbia University
(USA)



Dr. Bagdat Teltayev
"Joldasbekov Institute
of Mechanics and
Engineering", LLP
"Road Research and
Production Center"
(Kazakhstan)

Badong, China August 18-20, 2023

4th International Geohazards Symposium—Global Change and Reservoir Geohazards

The 4th Badong International Geohazards Symposium (BIGS2023) will be held in **Badong County, Hubei Province, China, from August 18 to 20, 2023. Focusing on the theme of “Global Change and Reservoir Geohazards”**, the symposium will be featured with 5 sessions, including technology training workshop, academic presentation, graduate-student poster contest, field trip and science popularization education on geohazards prevention and control. The academic presentation includes keynote speeches, invited speeches and session presentations. The field trips include Badong Large-scale Comprehensive Field Test Site for Geohazards, typical geohazard prevention & control engineering in the Three Gorges Reservoir area, as well as geomorphology and geohazards in the Three Gorges of the Yangtze River.



Theme

Global Change and Reservoir Geohazards

Topics

- Evolution process of geohazards
- Early identification of geohazards
- Intelligent multi-field information monitoring of geohazards
- Initiation mechanism and forecasting of landslides
- Geological safety of major hydropower projects
- Geohazard risk prevention and control under extreme climates
- Emergency treatment and management of geohazards
- Development of technologies and facilities for geohazard mitigation
- Big data and artificial intelligence of Geohazards
- Geohazard field observation station and the science popularization education

Contact Information

Symposium Information Inquiry

Qingbing Liu Cell phone: (+86) 13419681857

Abstract and Poster Exhibition Submission Inquiries

Shu Zhang Cell phone: (+86) 13476013923

E-mail: big@ug.edu.cn

Please refer to https://www.dropbox.com/s/s5adm9jlx74y8zk/BIGS2023_First%20Bulletin.pdf?dl=0 for the 1st Bulletin of BIGS2023.

Roma, Italy, September 17-21, 2023

12th ICG (International Conference on Geosynthetics)



With great pleasure and honour the Italian Geotechnical Society (AGI) and the Italian Chapter of IGS (AGI-IGS) invite you to attend the 12th International Conference on Geosynthetics, which will be held in Roma, Italy, on September 2023.

Years after the successful EuroGeo 2, which was held in Bologna in October 2000, we cordially welcome your participation and kind support at this coming event in 2022.

The geosynthetics and geotechnical engineering community has reached full awareness over the last two decades, and the whole geosynthetics industry has focused on the sustainable use of geosynthetics in a variety of innovative as well as consolidated applications. After Sustainability, the ability to overcome the natural events effects, often related to climate change, and human activities forced to refer to a new keyword: **Resiliency**.

Hence the 12ICG intends to become the base for the next step therefore the conference theme will be: **Geosynthetics, Leading the Way to a Resilient Planet**.

Conference Information

Website: <https://www.12icg-roma.org/>; Venue: Auditorium Parco della Musica

Tel : +39-06-4465569 ; Emial: info@12icg-roma.org; agi@associazionegeotecnica.it

Keynote Lecture



Russell Jones
WSP UK Limited (U.K.)



Seyed Naser Moghaddas
Tafreshi
K.N.Toosi University of
Technology (Iran)



Giuseppe Cardile
University of Reggio
Calabria (Italy)



Ben A. Leshchinsky
Oregon State University
(USA)

iRall School 2023



“iRALL” The International Research Association on Large Landslides, is an international non-governmental, non-political, non-profit-making and unaffiliated institution for the promotion of knowledge about large landslides founded on 11 November 2015. The scientific committee consists of international experts in the field of large landslides. The secretariat of iRALL is located at the State Key Laboratory of Geohazard Prevention and Geoenvironment Protection (SKLGP), Chengdu University of Technology, Chengdu, China.

The objectives of iRALL are to promote:

- Cooperation and exchange of knowledge among scientists and engineers working on large landslides
- The dissemination of scientific knowledge of large landslides
- The mitigation of risks associated with large landslides and their consequences

iRALL School 2023 will be held from **27 September to 10 October**, offering annually high-level courses, cutting-edge progress and software training for PhD students and postdocs from all over the world. The topics cover landslide hazard identification, earthquake induced landslide mechanism, rainfall induced landslide hydrological control, large-scale debris flow mechanism, glacial hazards, remote sensing and numerical simulation technology in the application of landslide hazards.

Free Registration: <https://irall.sklgp.cdut.edu.cn/Application.htm>

All participants shall pay their own travel to Chengdu, PhD graduates and postdocs shall pay their own accommodation. The other cost will be covered by SKLGP.

The deadline for applications: July 20th, 2023

For more information, please visit <http://irall.sklgp.cdut.edu.cn/Application.htm>.

Any question please contact by sklgp_cdut@126.com

Announcement of 2023 iRALL School: <https://irall.sklgp.cdut.edu.cn/info/1025/1295.htm>

Bankok, Thailand, October 25-27, 2023

SEAGC 2023 (21st Southeast Asian Geotechnical Conference)



Thai Geotechnical Society, Southeast Asian Geotechnical Society under the auspices of Association of Geotechnical Societies in Southeast Asia (AGSSEA) are delighted to welcome you all to the 21st Southeast Asian Geotechnical Conference and 4th AGSSEA Conference (SEAGC - AGSSEA 2023) from 25th to 27th October 2023 at the "Centara Grand & Bangkok Convention Centre, CentralWorld, Bangkok Thailand.

Prospective authors are invited to submit abstracts via the online submission portal below.

<https://easychair.org/conferences/?conf=seagc2023>

Important dates:

Deadline of abstract submission: 28th Feb 2023

Abstract acceptance: 15th Mar 2023

Full paper submission: 16th Mar 2023 –31st May 2023

Registration period: 1st Jun 2023 –31st Aug 2023

Conference date: 25th –27th Oct 2023

New Delhi, India, November 2-3, 2023

2nd Indian Near Surface Geophysics



The 2nd Indian Near Surface Geophysics event will be held in New Delhi, India on November 2-3, 2023. Near-surface geophysics is the use of geophysical methods to investigate features in the shallow (tens to hundreds of meters) subsurface. The objectives of near-surface geophysics are often noninvasive investigations of pollution problems, obtaining engineering information, locating and defining archaeological sites, near-surface structural features such as paleochannels and faults, cavities and tunnels, minerals, groundwater, pipelines, etc. It is closely related to applied geophysics or exploration geophysics. Methods used include seismic refraction and reflection, gravity, magnetic, electric, and electromagnetic methods. Many of these methods were developed for oil and mineral exploration but are now used for a great variety of applications, including archaeology, environmental science, forensic science, military intelligence, geotechnical investigation, mineral exploration, and hydrogeology.

Near-surface geophysics is being extensively used in India for various engineering, environmental, mining, ground water, archaeological and forensic applications. The conference is being organized to bring various stakeholders on a common platform, share the experiences and deliberate upon ways and means to increase use of geophysics for various application areas.

The conference is being organized along with exhibition. Various new technologies and products have emerged in the field of geophysics and exhibition provides a platform for display of these technologies and products.

Conference Information

Website: www.NearSurfaceGeophysics.in; Email: praggya@nearsurfacegeophysics.in

Mobile: +919818568825 (AF Academy New Delhi, India)

Themes and Topics

- Engineering Geophysics - application in geotechnical investigations, site characterization, tunnel route studies, bridge foundation studies, etc.
- Water Resources Geophysics - Groundwater Geophysics, hydro-geophysics & hydrogeology, climate, contamination survey, etc.
- Mining Geophysics - Mineral Exploration, Geosciences for surface mining and safety, open cut mining, slope stability, tailings dam, etc.
- Archaeological Geophysics - Geophysics for archaeology and cultural heritage

- Dam Geophysics - Geophysics for investigation of existing dams and appurtenant structures, investigations for new dam sites, hydropower sites etc.
- Environmental Geophysics. Bio-geophysics
- Geohazards and Disaster Mitigation - quick clay, landslide, liquefaction, earthquake, volcanic eruption, tsunami, ground subsidence, mining hazards etc.
- Petroleum Exploration – improving deep images by understanding near-surface
- Shallow marine geosciences
- Geophysics for forensics detection
- Application of Geophysical Tools during Construction of Underground Structures

Call for Abstract

The conference is calling for abstracts. Please refer to <https://www.nearsurfacegeophysics.in/conference-abstract-information> for the detailed information.

Delegate Type	Delegate Type Early Bird Rates (1 delegate) Till 15th September, 2023		Standard Rates (1 delegate) After 15th September, 2023	
	INR	EUR	INR	EUR
Government / NGO / Academic Institution	6,000	200	8,000	250
Private / PSU / Individual / Board	12,000	400	15,000	500
Student	4,000	150	4,000	150
Accompanying Person (Spouse only)	4,000	150	4,000	150

INGS23 First Announcement: <https://www.dropbox.com/s/sc9sa58vnb7qv6r/HR%2023061-INGS23%20First%20Announcement.pdf?dl=0>.

INGS2023 Sponsor Brochure: <https://www.dropbox.com/s/7ayjahv3oijbpy3/HR%2023110-INGS23%20Sponsor%20Brochure.pdf?dl=0>.

Florence, Italy, November 14-17, 2023

6th World Landslide Forum



The 6th World Landslide Forum will be held in Florence, Italy on November 14-17, 2023. The main theme of the forum is *Landslide Science for Sustainable Development*.

Conference Information

Website: <https://wlf6.org/forum-themes/>; Tel: +39-05550351

General inquires: info@wlf6.org

Congress Venue: Palazzo dei Congressi

Themes and Sessions

1. Kyoto Landslide Commitment for sustainable development

Coordinators: Kyoji Sassa, Matjaž Mikoš, Shinji Sassa, Khang Dang

2. Remote sensing, monitoring and early warning

Coordinators: Veronica Tofani, Michel Jaboyedoff, Jan Klimes, Hans-Balder Havenith

3. Testing, modeling and mitigation techniques

Coordinators: Binod Tiwari, Kazuo Konagai, Sabatino Cuomo, Xuanmei Fan

4. Mapping, hazard, risk assessment and management

Coordinators: Paola Reichenbach, Snježana-Mihalić Arbanas, David Huntley, Maneesha Ramesh

5. Climate change, extreme weather, earthquakes and landslides

Coordinators: Vít Vilímek, Alexander Strom, Stefano Luigi Gariano, Dalia Kirschbaum

6. Progress in landslide science and applications

Coordinators: Zeljko Arbanas, Fawu Wang, Faisal Fathani, Beena Ajmera

Field Trips

WLF6 is organizing some post-congress Field Trips for participants and accompanying persons in various Italian areas of great geological and touristic interest.

Field Trip #1 (**VAJONT: Landslide and dam** on November 18-19, 2023)

Topic: The site of the worst landslide disaster in European history, where everything remained as it was.

Field Trip #2 (**LANGHE: Landslides and wines** on November 18-19, 2023)

Topic: Tasting landslides and wines in one of Italy's most famous wine regions.

Field Trip #3 (**CIVITA e ORVIETO: Landslides and cultural heritages at the border of an ancient volcano** on November 18-19, 2023)

Topic: The interaction between landslides and human activities resulting in a unique cultural landscape.

Field Trip #4 (**CAMPANIA: Slope instabilities in Campania region** on November 18-19, 2023)

Topic: Landslides in pyroclastic terrains and structurally complex formations in the region of Napoli.

Field Trip #5 (**THE POGGIO BALDI LANDSLIDE MONITORING LAB** on November 18, 2023)

Topic: A field laboratory for testing new technologies for landslide monitoring.

Savoie, France, July 5-12, 2024

14th ISL (International Symposium on Landslides) & RSS (Rock Slope Stability)

14TH ISL & RSS

ISL (International Symposia on Landslides) is a quadrennial event organized under the patronage of the Joint Technical Committee on Natural Slopes and Landslides (JTC1) of the International Society for Soil Mechanics and Geotechnical Engineering, the International Society for Rock Mechanics and the International Association for Engineering Geology since 1972.

ISL2024 is the 14th ISL and is hosted in France for the first time.

RSS (Rock slope Stability) is a recurrent event, almost 5 symposiums since 2010. Since 2016 the event is organised under the patronage of the French national program C2ROP.

The two events merge into a single event in 2024.



NATIONAL CONTEXT

The French community takes opportunity of a strong network involved in geosciences and geomechanics applied to slope instabilities.

This forthcoming event is supported by the following institutions, all being representative of the French community involved in slope engineering:

The CFMR (French Society for Rock Mechanics)

Visit the website: <https://www.cfm-roches.org/>

The CFMS (French Society for Soil Mechanics)

Visit the website: <https://www.cfms-sols.org/>

The CFGI (French Society for Engineering Geology)

Visit the website: <http://www.cfgi-geologie.fr>



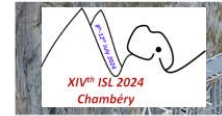
Website: <https://www.isl2024.com/>

14th ISL (International Symposium on Landslides) & RSS (Rock Slope Stability) 2024

**CHAMBÉRY
(SAVOIE, FRANCE)
5-12 JULY 2024**

IMPORTANT DATES

- Symposium: From Monday 8th to Friday 12th July 2024
 - Welcome ceremony on Sunday 7th 2024 (Inscription, Ice breaker, JTC1 meeting)
 - Summer school from Thursday 4th to Sunday morning 7th July 2024
- Agenda
 - Call for abstracts and new web site opening: January 2023
 - Extended abstracts submission deadline: 30 September 2023
 - Review and response to authors: 15 December 2023
 - Revised version submission: 15 February 2024
 - Last revision round and final submission: 15 March 2024
 - Registration opening: 15 January 2023
 - Early Bird registration until 30 March 2024



Chutes de Blocs
Risques Roches
Quarries de Protection

VENUE

The Conference will be held at the Congress Center "Le Manège". Located in Chambéry downtown, near the old historical city, Le Manège is a restored building dating back to the Sarde period, which can welcome up to 400 attendees. Additional features are as follows:

- ▶ A large room (700 m²), newly reconstructed and designed to welcome social events
- ▶ Up to 8 additional separate meeting rooms, all equipped with screens and sound/audio system
- ▶ More than 1400 hotel rooms in neighboring comfortable hotels (from 1 to 4 stars)



14th IS Landslides 2024
including IS RSS 2024
Chambéry, France, July 2024

JTC1



La Serena, Chile, November 12-16, 2024

17th Pan-American Conference on Soil Mechanics and Geotechnical Engineering



Dear colleagues: On behalf of the Chilean Geotechnical Society (SOCHIGE), you are cordially invited to participate in the 17th 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) to be held in Chile in November 2024. We are delighted to organize this event, for the second time, after hosting it back in 1991. With an average width of 180 kilometers and a length of about 5000 kilometers, Chile is bordered by the Pacific Ocean to the west and the majestic Andes Mountains to the east. These characteristics result in a country with a wide variety of climates and vegetation, as well as both soil and rock conditions along its territory. As part of the Circum-Pacific Belt, Chile is one of the great seismically active regions in the world, which is of particular interest to geoscientists and geotechnical engineers worldwide. The Panamerican congress will serve as a unique platform for dissemination of knowledge and fruitful interactions among researchers and practitioners from different generations and nationalities. We are excited to keep growing as a community and your attendance is essential to the success of this conference. We look forward to receiving you in our country!

Conference Information

Website: <https://panamgeochile2024.cl/>; E-mail: info@panamgeochile2024.cl

Venue: Peñuelas Norte 56, Coquimbo, Región de Coquimbo, Chile

Topics

- Geotechnical Characterization
- Geotechnical Design
- Geotechnologies
- Geological & Environmental Engineering
- Hot Geotopics
- Geotechnical Engineering Challenge

Key Dates

July 2023: Deadline for abstract submission

August 2023: Notification of abstract acceptance

November 2023: Draft paper submission deadline

January 2024: Notification of paper acceptance

April 2024: Final Paper Due

November 12-16, 2024

Call For Abstracts

Abstract Submission Deadline July 2023

Call For Abstracts

The Chilean Geotechnical Society SOCHIGE will host the 17th Pan-American Conference on Soil Mechanics and Geotechnical Engineering PANAMGEOCHILE2024 in conjunction with the 2nd Latin-American regional Conference of IAEG which are being organized with the support of:

- The International Society of Soil Mechanics and Geotechnical Engineering ISSMGE
- The International Association for Engineering Geology and Environment IAEG
- The Chilean Association for Engineering Geology ACHIGEOL
- North and South America Vice Presidents of ISSMGE
- Geotechnical Societies of North and South America

PANAMGEOCHILE2024 will be held in the Chilean coastal city of La Serena which is located about 400 km North of Santiago.

Technical areas to be covered in the Conference are:

1. Geotechnical Characterization
2. Geotechnical Design
3. Geotechnologies
4. Geological and Environmental Engineering
5. Hot Geotopics
6. Geotechnical Engineering Challenges

More details on the specific subject of each technical area can be seen in the web page: <https://panamgeochile2024.cl>

During PANAMGEOCHILE2024 the Casagrande Lecture will be delivered by Prof. J. Carlos Santamarina, and at least 6 Keynote Lectures by distinguished geotechnical engineers and engineering geologists.

Workshops are being planned to take place November 12. Technical/Sponsors Exhibition will be available at the Conference Centre.



Abstract Guidelines and Information

The present invitation is to seek abstracts for papers for oral presentation and for poster presentation.

- All abstracts must be submitted electronically via our online system.
- All abstracts must be written in English and also in Spanish or Portuguese if the paper is going to be presented in one of the last two languages. Draft/final papers can be written either in English, Spanish or Portuguese.
- Maximum 300 words (excluding title and author/affiliation information).
- Submission of an abstract does not constitute acceptance for presentation or registration for the Conference.
- Authors must submit a paper for review following approval of the abstract.
- If a submitted abstract is accepted for the technical program in an oral or poster session, the presenter must register for the Conference.
- Platform and process will be the same for abstracts/papers for the 17th Panamerican Conference and 2nd Latin-American Regional IAEG Conference.

Abstract Submission

Authors applying to participate in the conference should submit an abstract of their paper, until July 31, 2023, using the uploading platform in the web page (uploading platform will be available on April 30).

Additional technical, logistic, and touristic information will become available shortly in the web page of the conference:
<https://panamgeochile2024.cl>

panamgeochile2024.cl

Busan, Korea, August 25-31, 2024

The 37th International Geological Congress



The 37th International Geological Congress will be co-hosted by the Korea Institute of Geoscience and Mineral Resources (KIGAM) and the Geological Society of Korea (GSK) in Busan, Republic of Korea, on August 25-31, 2024.

KIGAM is a unique government-funded geoscience research institution which strives to secure a stable supply of energy and mineral resources, preserve the geological environment and develop scientific technologies based on the field of geoscience for Korea's industrial development and for national land security purposes.

GSK is Korea's academic society and professional body for geology. GSK's main objectives include academic research on basic and applied geology and the distribution of geological technology to aid in the advancement of the field both domestically and abroad.

Korean geological communities are committed to constructive collaboration with IUGS and would like to have the opportunity to share achievements and insights together with distinguished colleagues from a broad range of geological subspecialties in a location of geological significance in Asia.

Conference Information

Website: http://www.igc2024korea.org/2024/english/01_introduce/01_introduce.asp

E-mail: info@igc2024korea.org; Tel: +82-51-711-0043



BEXCO Exterior View

Please refer to http://www.igc2024korea.org/2024/down/IGC2024_1st_Circular_Final_03141.pdf for the first circular.

Algiers, Algeria, October 6-9, 2024

18th African Regional Conference on Soil Mechanics and Geotechnical Engineering



The 18th African Regional Conference on Soil Mechanics and Geotechnical Engineering will be held in Algiers, Algeria on October 6-9, 2024. The conference will provide keynote lectures, technical sessions and panel discussions on diverse topics, and a forum for exchange and discussion between engineers, professionals, scientists, researchers, equipment or solution providers operating in the field of soil mechanics and geotechnical engineering. In addition, social activities and technical tours will be organized. The exhibition will bring the maximum of professional partners to animate the conference and allow participants to exchange the solutions offered by professionals and answer their eventual concerns. The proceedings of the conference will be published with open access. The conference will provide awards for best papers, best presentations, and best industrial projects.

Conference Information

Website: <https://algeos-dz.com/18ARC.html>; Email: info12ARC@algeos-dz.com

Tel: +213-21-24-7224

Important Date for Abstract and Paper Submission

September 15, 2023 - Deadline of final submission abstract

October 15, 2023 - Notification of abstract acceptance

January 15, 2024 - Submission of draft manuscript for review

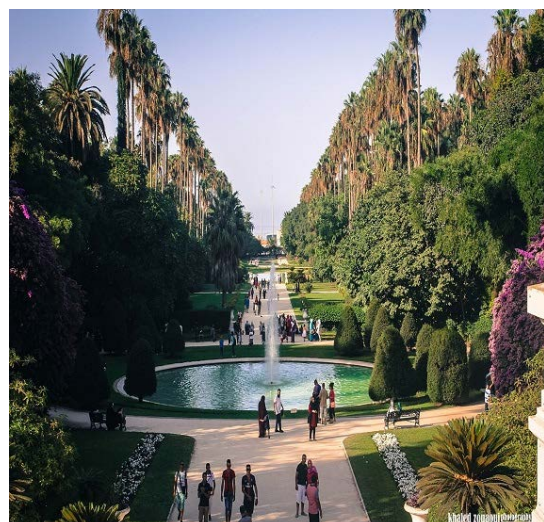
March 15, 2024 - Notification of paper acceptance

April 15, 2024 - Submission of final paper

Social Program



Tipaza



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Sydney, Australia, November 20-22, 2024

5th International Conference on Transportation Geotechnics 2024



5th International Conference on Transportation Geotechnics will be held in Sydney on November 20-22 in 2024. The Conference will aim at promoting concepts and applications predominantly in the fields of transport infrastructure design, ground improvement, sustainability and circular economy perspectives, and natural hazards mitigation. This major event will act as a platform to disseminate the most recent research and field advances to the geotechnical community around the globe through active pathways of academia and practice. Outstanding Keynote lectures and State-of-Practice presentations, and brain-storming technical discussions will contribute to three days of scientific and technical discourse, followed by attractive excursions encompassing the awesome natural landscape of the state of New South Wales (NSW).

Conference Information

Website: <https://www.ictg2024.com.au/>; Tel: +61-2-9265-0700

E-mail: ictg2024@arinex.com.au (for general enquiries) ;

ICTG2024@uts.edu.au (for technical and Sponsorship Enquiries)

Call for abstracts

The organizing committee is calling for abstracts. Please refer to <https://www.ictg2024.com.au/abstracts/> for the detailed information.

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