



# IAEG

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## NEWSLETTER

Issue No.3, 2019

Website: [www.iaeg.info](http://www.iaeg.info)  
Electronic Version



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Edited by the IAEG Secretariat, Shaoxing, China

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# 1. NEWS OF IAEG EXECUTIVE COMMITTEE

## IAEG Executive Committee Meeting 2019

The IAEG Executive Committee Meeting was held in Jeju on September 21, 2019. 13 Executive Committee members attended the meeting. The meeting was chaired by Prof. Rafiq Azzam, the president of IAEG. He gave a welcome speech to all the members present at the meeting and special thanks to KSEG, who elaborately organized the Executive Meeting and Council Meeting, and selected the great venue.

The meeting approved the report of the president, the secretary general, as well as the treasurer's 2018 financial report and budget for 2019-2021. The vice presidents and the Editor in chief of Bulletin, the Editor in chief of Bulletin, the chairs of ABC and YEG gave their reports respectively.



Photos of the Executive Meeting



Group photos of the Executive Meeting

Increasing the membership is a big issue for the development of IAEG. Two vice presidents of IAEG put forward some suggestions on this issue. Prof. Bo-An Jang and Prof. Huiming Tang planned to visit the inactive national groups in Asia by the pace of two per year, to find out the reasons of being inactive and take corresponding measures to get them reactive. Prof. Huming Tang

gave some suggestions on the development of IAEG, such as setting up IAEG award and program, to attract outstanding experts to join IAEG by obtaining the support or scholarship from enterprises.

## **FedIGS Meeting 2019**

The FedIGS meeting 2019 was held on September 14, 2019 in Foz do Iguacu, Brazil. They have reached agreements on some issues, which will be taken soon.

1. The name of JTC1 will be changed into “JTC1 landslides”.
2. The name of JTC2 has been ceased, and the new name should be suggested by the corresponding commission.
3. JTC3 should be revitalized. The person in charge should give a PowerPoint presentation to Prof. Xia-Ting Feng, the chair of FedIGS.

FedIGS 2020 will be held on September 10 in Warsaw, Poland, and FedIGS 2021 on September 17 in Sydney, Australia.



Group Photo



## 2. NEWS OF IAEG COUNCIL MEETING IN 2019

The IAEG Council meeting was held on September 22 in Jeju Booyoung Hotel. 31 national and regional groups, 15 Executive Committee Members attended the meeting.

The president of IAEG, Rafig Azzam chaired the meeting and gave a welcome speech to all the attendees. He also gave special thanks to KSEG (The Korean Society of Engineering Geology) for their elaborate preparation for the meeting.



Group photos



IAEG Council Meeting on September 22, 2019

### Reports of Executive Members

#### President

President Rafig Azzam gave an overall report on the operation of IAEG during 2019. He delivered his appreciation to all the new elected executive members for their efforts of attending two

executive committee meetings held in 2019, one in April in Paris, and the other in September in Jeju Island, Korea. On the meetings, some suggestions have been put forward, concerning the operating and development of IAEG.

## **The Secretary General**

The Secretary General Faquan Wu gave a general report of Secretariat Work from the aspects of membership alternation, the click and open rates of IAEG Newsletter, and the activities or events attended.

Compared with the total number of membership in 2018, the number in 2019 decreased. There are countries that have been inactive and absent from IAEG events for many years. However, there are still countries with increase of numbers, and three new national groups and one commission applying to join IAEG.

To increase membership is always a big issue for IAEG. To some extent, setting up more IAEG Award and IAEG Program is an efficient way to attract more members. In addition, enriching the contents of IAEG Newsletter is another issue facing us, which can be seen from the low click and open rate shown. Therefore, all the existing members of IAEG should send news to IAEG Secretariat more actively in order to make IAEG an attractive association.

In addition to the conferences and meetings, Prof. Faquan WU devoted himself in organizing the 2<sup>nd</sup> Shaoxing International Forum held on October 19-21, 2019 in Shaoxing University. Some of the members of IAEG were invited to attend, including President Rafiq Azzam, Vice President Bo-An Jang, Vice President Huiming Tang, Vice President Vasillis Marinou, Past Vice President Silvina Marfil and the Dr. Efstratios Karantanellis from YEG.

There was a big change in 2019 Council Meeting Document. The report of the national or regional reports will be the base of Vice Presidents' Report, but would not be included in the council document for better optimization.

## **The Treasurer**

Jean-Alain briefly reported the financial status of IAEG during the past year, from the aspects of revenue, expenses, evolution of IAEG operation account and assets from 2012-2018.

He also presented the 2019-2021 forward-looking budgets. The revenues would come from the membership fees, the royalties from Springer and the support to editors in chief by Springer. As for the expenses, besides the ordinary expenses, 2019 Executive Committee Meeting in Paris decided to increase the budget allocated to the YEG Committee.

On the whole, the 2018 net result should have been slightly positive, and the total assets as well.

## **Vice Presidents of IAEG**

### **• Africa**

There are currently three national groups in Africa, and three potential new national groups. To Kingdom Abam, one of his important missions is to bring together environmental / engineering geology professional and the major users of these skills and services. In this direction, Kingdom Abam had paid courtesy visit to the Chief Executives of government agencies and business such as Lafarge Africa, under the support of which The Nigeria Geological Surveys Agency cohosted the 2<sup>nd</sup> IAEG African Regional Conference with the Nigerian Mining and Geosciences Society.

- **Asia**

As the vice presidents of IAEG, Bo-An Jang and Huiming Tang have contacted most of the national groups in Asia. Regarding the inactive national groups, they planned to visit two per year in order to get them back to IAEG.

In the report, they summarized the meetings and conferences held in Asia and the issues and journals published in 2018.

As for their plan for 2019-2020, they talked from three aspects, including the *Annual Meeting of the National Group in Asia*, *Planning of International Workshop of ISRM and IAEG*, and *Membership Plan*.

- **Australasia**

Doug Johnson stated in his report that IAEG membership increased in both Australia and New Zealand. Both of the two national groups were very active in supporting membership with skill set and professional training, not only the young professional membership but the student membership as well.

Regarding the education and training of engineering geology, two universities are considering setting up engineering courses in Australia, and academic institutions and companies are active in engineering geology and geotechnical engineering training.

In addition to IAEG, Australia National Group and New Zealand National Group are active in the management and support of ISRM or ISSMGE, and there is considerable benefit for all members through this collative and shared professional structure.

- **Europe by Vassilis P. Marinos**

In his report, Vassilis P. Marinos summed the memberships, the activities of the national groups in European Regions, the progress has been made, the communication of the national groups with IAEG, and the next steps ahead for the next period, which were based on the national reports submitted and the communication with the presidents of national groups.

As for the support for the education of Young Engineering Geologists, the planned to organize a special field trip for the Young Engineering Geologists and an international summer school as well.

- **Europe by Eugene A. Voznesensky**

Eugene A. Voznesensky listed the current activities in national groups in details, including the participation of national members in summer school and other complementary educational activities, the development of professional national and international standards, the involvement of national group members in Engineering Geology Education and so on.

Internet sites are main ways to advertise IAEG. Some of the national groups did good jobs, while some national groups have not updated their website since three to eight years ago.

A medal in the name of E. M. Sergeev has been established, which aims at commending some engineering geologists for their outstanding contribution to Engineering Geology. Up to now, 31 medals have been awarded. Among the laureates, there are two foreign engineering geologists, Kiril Anguelov from Bulgaria and Sijing Wang from China.

- **North America**

Since IAEG Council Meeting in 2018, the National Groups for the USA and Canada have been engaged in discussions to strengthen the collaboration between them, which include a joint AEG/CGS conference to be held in 2023, collaborative planning for short course/workshop to expose younger professionals from both nations, and discussions about how to enhance the benefit of IAEG Membership perceived by the national groups.

- **South America**

In order to foster the growth of IAEG in South America, Norberto Jorge Bejerman has been in touch with colleagues and institutions of different countries. In addition to the active national groups, there are promising memberships, including Chile, Peru, Costa Rica, Bolivia, Mexico and Ecuador.

Active memberships are organizing international conferences. Columbia is organizing the XIII international Symposium on Landslides to be held on June 15-19, 2020, and Argentina the 1<sup>st</sup> IAEG South American Regional Conference and 2<sup>nd</sup> Argentina Congress of geology applied to engineering and the environment on September 7-10, 2021.

## **Bulletin**

The report of the Bulletin was presented by Prof. Faquan WU because both editors-in-chief did not attend 2019 IAEG Council Meeting due to the conflict of ISRM Conference in Brazil.

The report pointed out that the impact factor of BOEG has been increasing gradually since 2010, marking IF 2.138 in 2019. High-level papers rely on a reliable and efficient Editorial Board to manage the increasing submissions, however, in some cases the manuscripts are simply sitting in the system for over a year. By August 15, the number of papers submitted to BOEG was 819, among which China and Iran marked the top two countries with the most submissions. Only 37 papers were accepted, and there were still 339 papers under review. Due to the increasing of submission and the pursuit of high quality, new Editorial Boards Members have been recently invited by the editors-in-chief.

## **IAEG Website**

Paolo Allasia gave a report on the IAEG Website performance from May 31, 2018 to June 30, 2019. He pointed out that the visitors suddenly increase if there will be a congress, such as which happened in the USA in 2018 and the same case in South Korea in 2019. Therefore, it is important to complete the digitization, either to publish the missing IAEG Conference / Symposium Proceeding on IAEG Website or publish on IAEG Newsletter.

After the implement of GDPR in 2018, IAEG adapted to this directive from 2019. In agreement with Executive Members during 2019 working meeting in Paris, the idea of centralizing the memberships' date has been approved. The new service of National Group Members Date Management for the National Groups has been realized and is in an advanced testing phase.

## **ABC**

As the co-chair of ABC (Advisory Board Committee), Mark Eggers gave his report from the aspects of Introduction, Terms of Reference and ABC Membership, Technical Commissions and Strategic Planning.



Please check the link below for comprehensive understanding of Mark Eggers's report.  
[https://www.dropbox.com/s/zq2tjurzks3j26/ABC%20Board%20paper%20for%20Exec%20meeting%202019\\_09\\_21\\_updated.pdf?dl=0](https://www.dropbox.com/s/zq2tjurzks3j26/ABC%20Board%20paper%20for%20Exec%20meeting%202019_09_21_updated.pdf?dl=0)

## YEG

YEG (Young Engineering Geologists) had their first international meeting in March, 2019 in Paris. On the meeting, several key changes have been put in place, including the terms of reference and the redesigning of YEG Webpage.

They planned to kick start several events, including 2019 Jeju YEG Event, 2019 Africa Regional Congress YEG Event, and YEG Logo Competition.

They still face some main challenges, such as:

- Engaging with young members of national groups and promoting actions at a local level
- Increasing awareness of advantages of joining the IAEG and YEG amongst young engineering geologists worldwide.
- Promoting greater mobility for young engineering geologists to attend IAEG/YEG events and engage with their international peers.

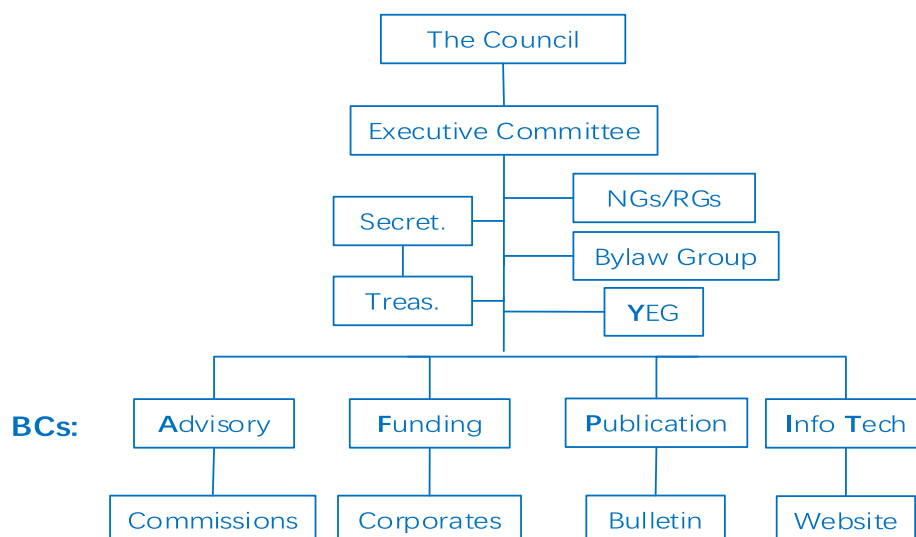
## Agreement and Decisions made at the Council Meeting

- **Decision on Nepal National Group**

Except five votes for abstention and five votes for opposition, the council approved both of the societies in Nepal (Nepal Geological Society and Nepalese Society of Engineering Geologists) to have half vote of Nepal National Group.

- **New IAEG Structure**

The Council is requested to approve the formation of IAEG. Two board Committees are added to the structure, being the Advisory Committee and Funding Committee.



- **Further Education Services**

In the scope of enhancing the services of IAEG members, the Council has approved further education services. The first step is establishing IAEG Summer School, and the second education measure is setting up field trip and field education



- **Date and Venue of 2020 Executive and Council Meeting**

The 2020 Executive Committee and Council Meetings will be held during the 3<sup>rd</sup> European Regional Conference of IAEG in Athens, Greece on September 20-24, 2020.

## **Establishment of New National Groups / Commission & Host right of ERC / SARC/ ARC**

Three new national groups, Myanmar, Kyrgyzstan and Uzbekistan have been approved to establish. The Council has approved the establishment of the new Commission 39 on Naturally Occurring Asbestos (NOA).

Greece, Argentina and Singapore won the host right of the 3<sup>rd</sup> ERC (European Regional Conference), the 1<sup>st</sup> SARC (South American Regional Conference) and the 13<sup>th</sup> ARC (Asian Regional Conference) respectively.



New National Group Myanmar



New National Group Kyrgyzstan and Uzbekistan



New Commission of NOA



Greece won the host right of the 3<sup>rd</sup> ERC



Singapore won the host right of the 13<sup>th</sup> ARC



Argentina won the host right of the 1<sup>st</sup> SARC

### 3. NEWS OF THE 12<sup>TH</sup> ARC

#### Pre-conference Workshop of the 12th ARC of IAEG

##### “Landslides triggered by the 1999 Chi-Chi, Taiwan earthquake: Lessons learned”

Before the 12th ARC of IAEG, the IAEG South Korean National Group, Chinese Taipei Regional Group and Italian National Group organized a pre-conference Workshop on September 23, 2019.

The Workshop “Landslides triggered by the 1999 Chi-Chi, Taiwan earthquake: Lessons learned” was held at Board room 1 (B1) of Booyoung Hotel, Korea. Two organizations in Taiwan and Italy also contributed to this event: Earthquake-Disaster & Risk Evaluation and Management, E-DREaM Center, National Central University, Taiwan and Italian National Research Council-Research Institute for Geo-hydrological Hazard Protection (CNR\_IRPI).

More than 30 researchers from Asia and Europe participated this pre-conference workshop, including Prof. Ricardo Oliveira (IAEG Honorary President), Prof. Faquan Wu (IAEG Secretary General), Vassilis Marinou (IAEG Vice President), Prof. Tang Huiming (IAEG Vice President), Bo-An Jang (IAEG Vice President), Prof. Yong-Seok Seo (KSEG President). It is a pity some of the registered members were absent due to Typhoon Tapah.



Opening speech by Prof. Faquan Wu, the Secretary General of IAEG

The invited speakers gave a 20-minute lecture respectively, including the topics of *Earthquake triggered landslides* by Prof. Lee, *(Mega) catastrophic landslides triggered by earthquakes* by Prof. Dong, and *Seismic site effects* by Prof. J. Wasowski.

#### The Opening Ceremony of the 12th ARC in Jeju Island

The 12<sup>th</sup> IAEG Asian Regional Conference was held on September 23-27, 2019 in Jeju Booyoung Hotel, Korea. More than 400 delegates from over 30 countries attended this conference. The theme of this conference is “*Role of Engineering in Geology for the Safe Society and Environment*”, including 7 keynote lectures, 13 invited lectures and more than 160 technical lectures.

The opening ceremony was chaired by Dr. Jaehyung Yu and Dr. Kyoung-Sik Won, the immediate Past President of KSEG gave the welcoming address, Prof. Rafiq Azzam, President of IAEG gave



the opening remarks and Dr. Bok Cheol Kim gave the congratulatory remarks.



Dr. Jaehyung Yu on the opening Ceremony



Dr. Kyoung-Sik Won gave the welcome address



Dr. Rafiq Azzam gave the opening remarks



Dr. Bok Cheol Kim gave the congratulatory remarks

## Award Ceremony for IAEG Honorary President and Honorary Membership

Prof. Ricardo Oliveira has been awarded the IAEG Honorary President for his strong and long-term devotion to IAEG, and Prof. Cristian Marunteanu has been awarded the IAEG Honorary Membership for his great contribution to the discipline of engineering geology and IAEG.



Prof. Ricardo Oliveira at the Award Ceremony



Prof. Cristian Marunteanu at the Award Ceremony

### **Introduction of Prof. Ricardo Oliveira**

Professor Ricardo Oliveira was trained as Engineering Geologist in Portugal and USA during the 1960s, and with the experience of research, he has become Engineering and Environmental consultant and acted as the President of Engineering and Environmental Consultants from 1988 to 2015.

He has been involved as International Consultant for Dams, Underground Works, Bridges and Motorways for several Institutions in more than 20 countries. He did teaching at universities in Portugal, Brazil, Canada, Soviet Union, Spain, and Switzerland. He is the author of over 350 technical reports and scientific papers, Co-author and Editor of the IAEG 50th Anniversary Commemorative Book. He received the highest accolade of IAEG, Hans Cloos Medal, in 1996.



Professor Oliveira involved in the IAEG from the very beginning at the 1st IAEG International Congress in Paris in 1970, and from then on actively attended all the IAEG Congresses, the Council Meetings and related IAEG activities for nearly 50 years. He was elected President of IAEG in 1990 for the term 1990-1994. He was very much aware of the Executive Committee's duties and responsibilities and well served the Association. He was appointed as the President of Organizing Committee of the 7th IAEG International Congress in Lisbon in 1994, with a success and 700 participants attending. From his extensive and impressive devotion within IAEG, two significant achievements must be highlighted:

1. During his term as President, he increased communications with all the members through the publication of more frequent newsletter, with six issues published. He travelled a lot visiting many national groups and improved the efficiency of the technical commissions. By 1994 the membership had increased to more than 6000 members and 120 associate members from 65 national groups.
2. The office of his term implemented the approval of new version of the statutes of IAEG in Kyoto (Japan) in 1992, 25 years after the first statutes were settled at the initiation of the IAEG.

Considering all his strong and long-term devotion to IAEG, approved by Council meeting in San Francisco (USA) in 2018, IAEG awarded Professor Ricardo Oliveira the IAEG Honorary President.

### **Introduction of Prof. Cristian Marunteanu**

Professor Cristian Marunteanu has been a professor of Engineering Geology at the University of Bucharest since 1977 and the Professor Emeritus since 2012. He creates and teaches new courses, Engineering Geology for Waste Disposal, Environmental Engineering Geology, Landslide Hazard and Risk, and Engineering Geology – Fractured Rocks both at graduate and postgraduate levels.

He has published 5 books and more than 70 scientific papers in Romanian and international journals. He is active in more than 30 national and international symposia and congresses, and has done research





works on 124 research projects in his professional career.

Professor Marunteanu was one of the founding members and the first president of Romanian Association for Engineering Geology, and kept the position since 1992 to 2015. He initiated the website of the Romanian Association for Engineering Geology, and made the Romanian National Group a core member of IAEG with continuous activity in the IAEG family for more than 25 years.

He has been the Secretary of the IAEG Commission No.14, “Waste Disposal” in the period 2004-2012 and made contribution to the publish of IAEG 50th Anniversary Commemorative Book. He is still active as member of the IAEG Commission No.37, Landslide Nomenclature.

Because of his great contribution to the discipline of engineering geology and IAEG, the IAEG Council decided, in San Francisco (USA) in 2018, to award Professor Cristian Marunteanu the IAEG Honorary Membership.

### **YEG Ice Break Event**

The YEG Ice Break Event was held on the evening of September 24, which was supported by IAEG and KSEG. A number of young professionals, students and most of IAEG Executive Members attended this event.



Group Photo of YEG Ice Break Event



## 4. CALL FOR MEMBERSHIP UPDATE 2019

Till December 10, 2019, the members of IAEG reached 4195 from 61 national/regional groups, 1760 with Bulletin, 2415 without Bulletin, 20 associated members and 5 individual members. Since Bulletin will be delivered to the members by the national groups. Please inform your national group if there is any change of your email address.

VP	No.	NG	total	With B.	Without B.	Associate members
Doug Johnson	1	Australia	320	147	172	1
	2	New Zealand	477	186	291	0
Vassilis Marinos	3	Albania				
	4	Austria				
	5	Bulgaria	10	7	3	0
	6	Croatia	26	12	14	0
	7	Cyprus				
	8	France	181	119	52	10
	9	Georgia	15	1	14	0
	10	Greece	91	28	63	0
	11	Hungary				
	12	Italy	87	80	7	0
	13	Portugal	76	46	29	1
	14	Romania	18	11	7	0
	15	Serbia				
	16	Slovenia	27	4	23	0
	17	Spain				
	18	Switzerland	74	74	0	0
	19	Turkey	113	0	113	0
Eugene A. Voznesensky	20	Netherlands	31	31	0	0
	21	Lithuania				
	22	The United Kingdom	265	265	0	0
	23	Belgium	77	34	43	0
	24	Czech Republic	25	11	14	0
	25	Denmark				
	26	Estonia				
	27	Finland				
	28	Germany	496	47	449	0
	29	Iceland				
	30	Ireland				
	31	Norway				
	32	Poland				
	33	Russia	85	30	55	0
	34	Slovak Republic				
	35	Sweden	45	45	0	0
Tamunoene Kingdom Simeon Abam	36	Algeria				
	37	Nigeria	34	19	15	0
	38	South Africa	209	11	198	0
D. Jean Hutchinson	39	Canada	109	98	11	0
	40	Mexico				
	41	USA	122	3	119	0

Norberto Jorge Bejerman	42	Argentina	32	32	0	0
	43	Brazil	19	12	6	1
	44	Colombia	14	13	1	0
	45	Paraguay	38	0	38	0
	46	Peru				
Bo-An Jang Huiming Tang	47	Bangladesh	58	2	56	0
	48	China	585	227	358	0
	49	Chinese Taipei	49	0	49	0
	50	HongKong	5	3	2	0
	51	India	100	60	40	
	52	Indonesia				
	53	Iran				
	54	Iraq	13	0	13	0
	55	Japan	87	75	6	6
	56	Korea	77	0	77	0
	57	Malaysia				
	58	Nepal				
	59	Singapore	81	4	77	0
	60	SEAGS	19	19	0	0
	61	Vietnam				
Individual Member			5	4	1	0
Total			<b>4195</b>	<b>1760</b>	<b>2415</b>	<b>20</b>

## 5. ANNOUNCEMENTS FOR NEW ESTABLISHED NATIONAL GROUPS / COMMISSION

Three National Groups and one Commission have been approved to establish at 2019 IAEG Council. They are Kyrgyzstan National Group, Myanmar National Group, Uzbekistan National Group and Commission No. 39 (Naturally Occurring Asbestos). Congratulations!

### Kyrgyzstan National Group



<b>President:</b>	Prof. Rafiq Azzam
<b>Past President:</b>	Prof. Scott F. Burns
<b>Secretary General:</b>	Prof. Wu Faquan.
<b>Treasurer:</b>	Dr. Jean-Alain Fleuriot
<b>Vice Presidents</b>	
Africa:	Prof. Tamunoene Kingdom Simeon Abam
Asia:	Prof. Bo-An Jang Prof. Huming Tang
Australasia	Dr. Doug Johnson
Europe:	Prof. Vassilis Marinos Prof. Eugene A. Voznesensky
North America:	Prof. D. Jean Hutchinson
South America:	Dr. Norberto Jorge Bejerman

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Professor Faquan Wu  
IAEG Secretary General :  
Shaoxing University  
No. 508 Huanchengxilu, Shaoxing City, Zhejiang Province, 312000,  
CHINA  
Tel/Fax: +86-575-8834 6551, Mobile: +86-13910509506  
Email: iaegsg@163.com

### Letter of Appointment

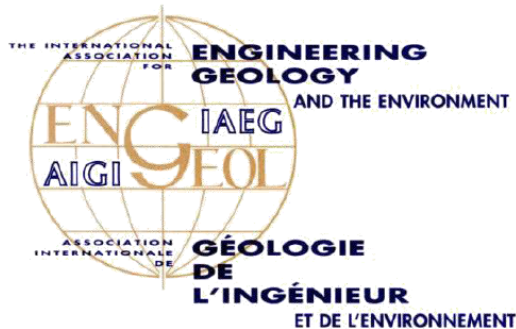
The Council of International Association for Engineering Geology and the Environment (IAEG) approved to establish the Kyrgyzstan National Group at the Council Meeting held on September 22, 2019 in Jeju Island, Korea. We are pleased to appoint Mr. Bolot Moldobekov as the President, and Mr. Sagynbek Orunbaev as the Secretary of the Kyrgyzstan National Group.

With the best wishes and congratulation!

President (Signature)

Secretary General (Signature)

## Myanmar National Group



<b>President:</b>	Prof. Rafiq Azzam
<b>Past President:</b>	Prof. Scott F. Burns
<b>Secretary General:</b>	Prof. Wu Faquan.
<b>Treasurer:</b>	Dr. Jean-Alain Fleurisson
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Professor Faquan Wu  
IAEG Secretary General :  
Shaoxing University  
No. 508 Huanchengxilu, Shaoxing City, Zhejiang Province, 312000,  
CHINA  
Tel/Fax: +86-575-8834 6551, Mobile: +86-13910509506  
Email: iaegsg@163.com

## Letter of Appointment

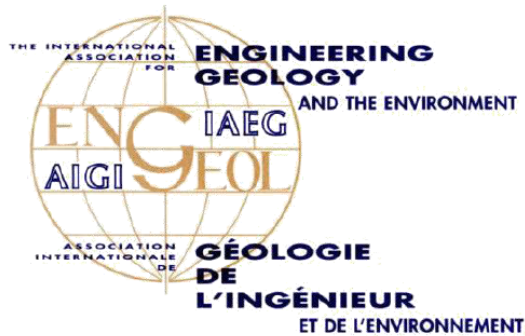
The Council of International Association for Engineering Geology and the Environment (IAEG) approved to establish the Myanmar National Group at the Council Meeting held on September 22, 2019 in Jeju Island, Korea. We are pleased to appoint Dr. Sone Han as the President, and Mr. Aye Lwin as the Secretary of the Myanmar National Group.

With the best wishes and congratulation!

President (Signature)

Secretary General (Signature)

## Uzbekistan National Group



<b>President:</b>	Prof. Rafiq Azzam
<b>Past President:</b>	Prof. Scott F. Burns
<b>Secretary General:</b>	Prof. Wu Faquan.
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Professor Faquan Wu  
IAEG Secretary General :  
Shaoxing University  
No. 508 Huanchengxilu, Shaoxing City, Zhejiang Province, 312000,  
CHINA  
Tel/Fax: +86-575-8834 6551, Mobile: +86-13910509506  
Email: iaegsg@163.com

## Letter of Appointment

The Council of International Association for Engineering Geology and the Environment (IAEG) approved to establish the Uzbekistan National Group at the Council Meeting held on September 22, 2019 in Jeju Island, Korea. We are pleased to appoint Dr. Yu.D. Magrupov as the President, and Mr. Abdukhalik Saparov as the Secretary of the Uzbekistan National Group.

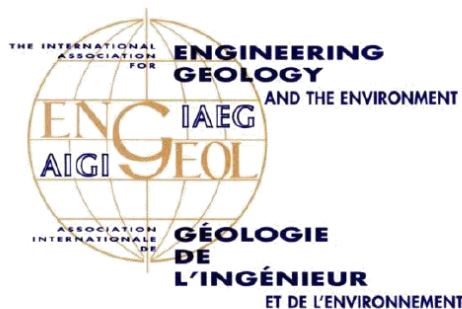
With the best wishes and congratulation!

President (Signature)

Secretary General (Signature)



## Commission 39



<b>President:</b>	Prof. Rafiq Azzam
<b>Past President:</b>	Prof. Scott Burns
<b>Secretary General:</b>	Prof. Wu Faquan.
<b>Treasurer:</b>	Dr. Jean-Alain Fleurisson
<b>Vice Presidents</b>	
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Europe:	Dr. Vassilis Marinos
	Prof. Eugene A. Voznesensky
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South America:	Mr. Norberto Jorge Bejerman

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Professor Faquan Wu  
IAEG Secretary General  
Shaoxing University  
No. 508 Huanchengxilu, Shaoxing, Zhejiang, 312000, China  
Tel/Fax: +86 -575 -8834 6551, Mobile: +86-13910509506  
Email: iaegsg@163.com

### Appointment Letter of the New Established Commission 39

The IAEG Council approved the proposal on Setup of IAEG Commission No.39 Naturally Occurring Asbestos (NOA) at the Council Meeting held on September 22, 2019 in Jeju Island, Korea.

We are pleased to appoint Dr. R. Mark Bailey as the Chairperson of IAEG Commission No.39 Naturally Occurring Asbestos (NOA).

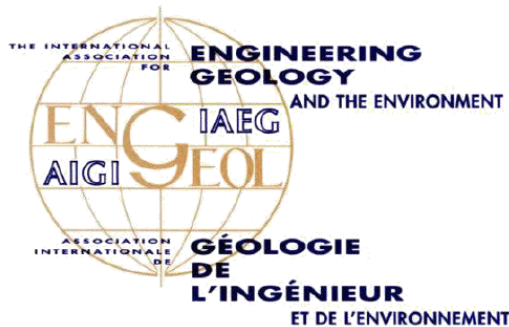
IAEG President (Signature):

A handwritten signature in blue ink, likely belonging to the IAEG President, is shown.

September 22, 2019

## 6. ANNOUNCEMENTS FOR THE 3<sup>RD</sup> ERC / 1<sup>ST</sup> SARC / 13<sup>TH</sup> ARC

Greece National Group won the host right of the 3rd European Regional Conference of IAEG in 2020. Congratulations!



<b>President:</b>	Prof. Rafiq Azzam
<b>Past President:</b>	Prof. Scott F. Burns
<b>Secretary General:</b>	Prof. Wu Faquan.
<b>Treasurer:</b>	Dr. Jean-Alain Fleurisson
<b>Vice Presidents</b>	
Africa:	Prof. Tamunoene Kingdom Simeon Abam
Asia:	Prof. Bo-An Jang
	Prof. Huming Tang
Australasia	Dr. Doug Johnson
Europe:	Prof. Vassilis Marinos
	Prof. Eugene A. Voznesensky
North America:	Prof. D. Jean Hutchinson
South America:	Dr. Norberto Jorge Bejerman

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Professor Faquan Wu  
IAEG Secretary General :  
Shaoxing University  
No. 508 Huanchengxilu, Shaoxing City, Zhejiang Province, 312000,  
CHINA  
Tel/Fax: +86-575-8834 6551, Mobile: +86-13910509506  
Email: iaegsg@163.com

### Letter of Authorization

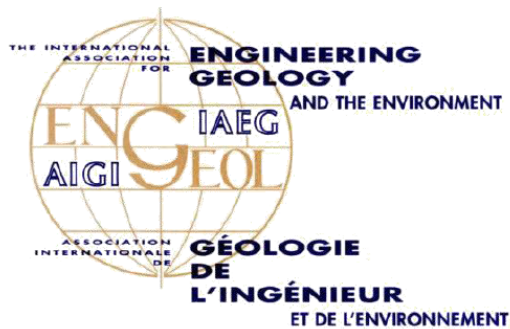
The Council of International Association for Engineering Geology and the Environment (IAEG) approved that the Greece National Group won the host of the 3<sup>rd</sup> European Regional Conference of IAEG in 2020 at the Council Meeting held on September 22, 2019 in Jeju Island, Korea.

With the best wishes and congratulation!

President (Signature)

Secretary General (Signature)

**Argentina won the host right of the 1st South American Regional Conference of IAEG in 2021.**



<b>President:</b>	Prof. Rafiq Azzam
<b>Past President:</b>	Prof. Scott F. Burns
<b>Secretary General:</b>	Prof. Wu Faquan.
<b>Treasurer:</b>	Dr. Jean-Alain Fleurisson
<b>Vice Presidents</b>	
Africa:	Prof. Tamunoene Kingdom Simeon Abam
Asia:	Prof. Bo-An Jang Prof. Huming Tang
Australasia	Dr. Doug Johnson
Europe:	Prof. Vassilis Marinos Prof. Eugene A. Voznesensky
North America:	Prof. D. Jean Hutchinson
South America:	Dr. Norberto Jorge Bejerman

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Professor Faquan Wu  
IAEG Secretary General :  
Shaoxing University  
No. 508 Huanchengxilu, Shaoxing City, Zhejiang Province, 312000,  
CHINA  
Tel/Fax: +86-575-8834 6551, Mobile: +86-13910509506  
Email: iaegsg@163.com

## **Letter of Authorization**

The Council of International Association for Engineering Geology and the Environment (IAEG) approved that the Argentina National Group won the host of the 1<sup>st</sup> South American Regional Conference of IAEG in 2021 at the Council Meeting held on September 22, 2019 in Jeju Island, Korea.

With the best wishes and congratulation!

President (Signature)

Secretary General (Signature)

## Singapore National Group won the host right of the 13th Asian Regional Conference of IAEG in 2021.



<b>President:</b>	Prof. Rafiq Azzam
<b>Past President:</b>	Prof. Scott F. Burns
<b>Secretary General:</b>	Prof. Wu Faquan.
<b>Treasurer:</b>	Dr. Jean-Alain Fleurisson
<b>Vice Presidents</b>	
Africa:	Prof. Tamunoene Kingdom Simeon Abam
Asia:	Prof. Bo-An Jang Prof. Huming Tang
Australasia	Dr. Doug Johnson
Europe:	Prof. Vassilis Marinos Prof. Eugene A. Voznesensky
North America:	Prof. D. Jean Hutchinson
South America:	Dr. Norberto Jorge Bejerman

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Professor Faquan Wu  
IAEG Secretary General :  
Shaoxing University  
No. 508 Huanchengxilu, Shaoxing City, Zhejiang Province, 312000,  
CHINA  
Tel/Fax: +86-575-8834 6551, Mobile: +86-13910509506  
Email: iaegsg@163.com

### Letter of Authorization

The Council of International Association for Engineering Geology and the Environment (IAEG) approved that the Singapore National Group won the host of the 13<sup>th</sup> Asian Regional Conference of IAEG in 2021 at the Council Meeting held on September 22, 2019 in Jeju Island, Korea.

With the best wishes and congratulation!

President (Signature)

Secretary General (Signature)

## 7. EVENTS FROM NATIONAL / REGIONAL GROUPS

### Bangladesh National Group

The first IAEG\_BNG (BANGLADESH NATIONAL GROUP) of the IAEG, is highly pleased to inform you all the current student member S. Mahfuza Siddika of “Young Engineering Geology Students’ Forum of Bangladesh\_JU (YEGSFB-JU) has been awarded by the “Korean National Group of IAEG to present her research work at 12 ARC, Jeju Island, Korea in 2019. Thanks to IAEG and Korean National Group President for awarding Mahfuza from Bangladesh.

IAEG\_BNG (BANGLADESH NATIONAL GROUP) and Department of Geological Sciences, Jahangirnagar University have the pleasure to inform all, we are planning to organize “IST GEO-ENGINEERING, CLIMATE CHANGE & SUSTAINABLE DEVELOPMENT CONFERENCE (1ST GECCSD-2021)” in Bangladesh. We are waiting for the official approval of IAEG to start the conference activities. The flyer of the conference will be circulated soon. We are inviting all of you to join with us in 2021 BNG event. A conference proceeding will be published with ISSN Number.

### China National Group

#### Report on the 2nd Badong International Geohazards Symposium (BIGS 2019)

The 2nd Badong International Geohazards Symposium (BIGS2019) was held in Badong County, Three Gorges Reservoir Area (TGRA) from August 24 to 25, 2019. More than 300 experts, researchers and graduate students from more than 20 countries and regions including the United States, Germany, Norway, Australia, New Zealand, South Korea, Japan, Switzerland, the Netherlands, Bulgaria, China-Taiwan, etc. have attended the symposium. The symposium was organized by China University of Geosciences (Wuhan), National Natural Science Foundation of China, Department of Geosciences, and People's Government of Badong County, Hubei Province. And it was jointly undertaken by Three Gorges Research Center for Geohazards, Ministry of Education, and the Faculty of Engineering of China University of Geosciences (Wuhan)



Prof. Huiming Tang, the vice president of China University of Geosciences (Wuhan) and vice president of International Association for Engineering Geology and the Environment (IAEG) chaired the opening ceremony and made a speech. In the speech, Prof. Tang pointed out that China University of Geosciences (Wuhan) have attained a series of high-level and innovative research achievements in the field of geohazards research in TGRA relying on the National Innovative Platform of Dominant Discipline of Three Gorges Research Center for Geohazards. It has built a



world-leading field scientific observation and research base with Badong Field Test Site as the main body. The successful opening of this symposium will definitely improve the international cooperation and exchange level of Badong scientific research base and enhance the understanding of the evolution mechanism of geohazards and control technology. Ms. Lin Guo, the head of Badong County Government in Hubei Province, and Prof. Faquan Wu, the secretary general of IAEG addressed respectively thereafter. Mr. Wenping Ding, the deputy governor of Enshi Prefecture's government, declared the opening of the symposium at last.



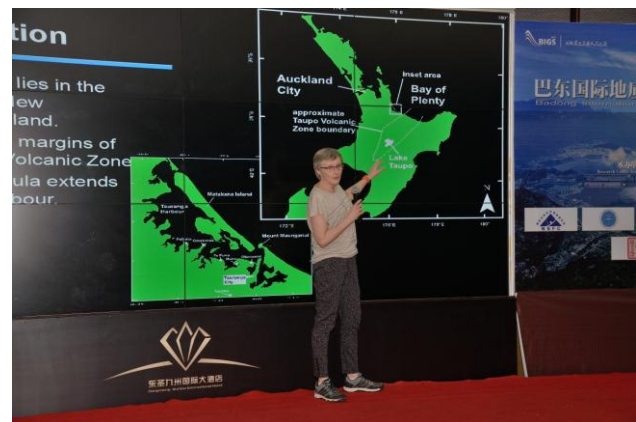
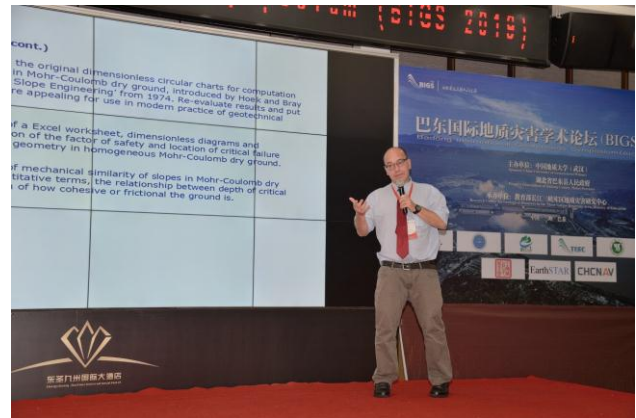
Around the theme of *Reservoir Geological Disaster Prevention and Ecological Environment Protection*, the two-day symposium consists of academic speeches, posters presentation and field trips. The excellent received abstracts will be recommended to be published on the special issue of *Engineering Geology*, a most famous international journal in the field of engineering geology.







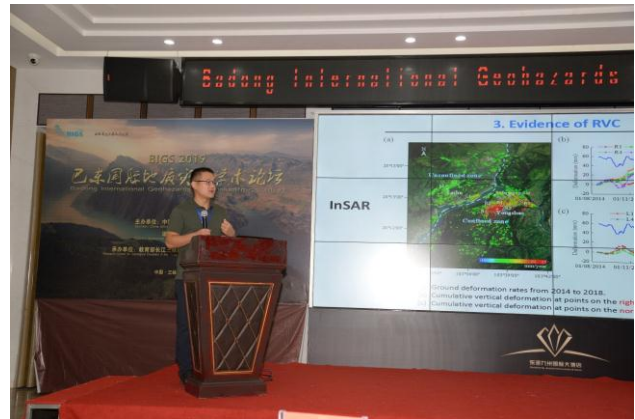
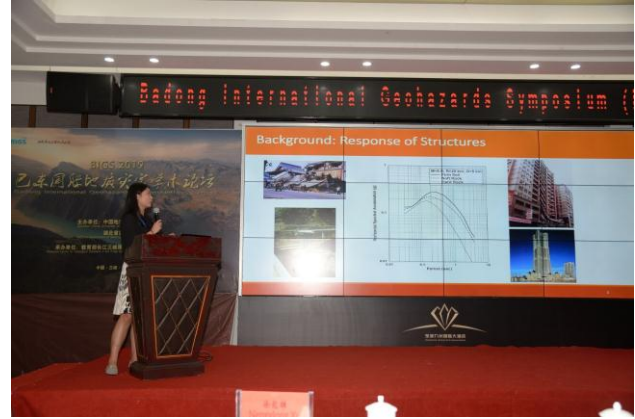
In the session of keynote speech, 18 world famous researchers have made significant high-level speeches around 4 topics in terms of Forecasting of Geohazards and Stability assessment, Risk Assessment and Trigger Mechanism, Monitoring, Testing and Control of Geohazards, Evolution Mechanism of Geohazards, which exhibited the newest research achievement of these fields. The keynote speaker involved Prof. Bo-An Jang, the vice-president of IAEG, Prof. Robert E. Criss from Washington University (St Louis), Prof. Farrokh Nadim from Norwegian geotechnical institute (NGI), Prof. Carlos Carranza-Torres from University of Minnesota, etc.



In the session of parallel-session presentation arranged on the evening of the August 24, 19 Researchers from institutes such as Wuhan University, Chongqing University, Zhejiang University, Nanjing University, Central South University, Huazhong University of Science and Technology,



etc. have made presentations on the research progress in the field of geohazards prevention and control, which led to significant and in-depth discussions with the present researchers.



In the session of poster presentation, 52 posters from researchers from 18 institutes have been exhibited during the symposium. For the purpose of inspiring the young researchers, a total of 18 graduate students who made poster presentations have been awarded the Poster Prizes after the discussion by the awards committee including Prof. Charng Hsein Juang from Clemson University, Prof. Theo van Asch from Utrecht University, Prof. Shiva P. Pudasaini from University of Bonn, Prof. Changdong Li and Prof. Wenping Gong from China University of Geosciences, Wuhan.







During the symposium, over 300 attendees performed geological field trip along 4 routes on the afternoon of August 24 and the morning of August 25, respectively. The investigation objects included the general situation and prevention history of geohazards in TGRA, the Badong Field Comprehensive Test Site located in Huangtupo Landslide, as well as the canyon topography and geological environment of Wu Gorge and Shennong River.



## Chinese Taipei Regional Group

Before the 12th ARC of IAEG, Chinese Taipei Regional Group, together with the IAEG South Korean National Group and Italian National Group organized a pre-conference Workshop on September 23, 2019.

The Workshop “Landslides triggered by the 1999 Chi-Chi, Taiwan earthquake: Lessons learned” was held at Board room 1 (B1) of Booyoung Hotel, Korea. Two organizations in Taiwan and Italy also contributed to this event, which include Earthquake-Disaster & Risk Evaluation and Management, E-DREaM Center, National Central University, Taiwan and Italian National Research Council-Research Institute for Geo-hydrological Hazard Protection (CNR\_IRPI).

More than 30 researchers from Asia and Europe participated this pre-conference workshop, including Prof. Ricardo Oliveira (IAEG Honorary President), Prof. Faquan Wu (IAEG Secretary General), Vassilis Marinos (IAEG Vice President), Prof. Tang Huiming (IAEG Vice President), Bo-An Jang (IAEG Vice President), Prof. Yong-Seok Seo (KSEG President). It is a pity some of the registered persons were absent due to Typhoon Tapah.

The invited speakers gave a 20-minute lecture respectively, including the topics of Earthquake triggered landslides by Prof. Lee (National Central University, Taiwan), (Mega) catastrophic landslides triggered by earthquakes by Prof. Dong (National Central University, Taiwan), and Seismic site effects by Prof. J. Wasowski (National Research Council, Italy) .

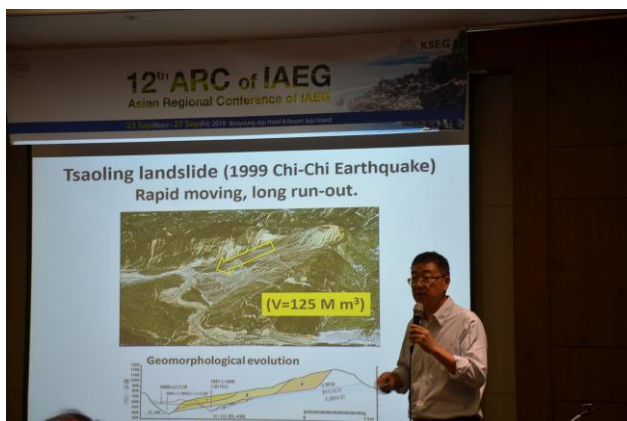
Regarding the three topics, all the attendees listened very attentively. They put forward relevant suggestions and opinions, and developed heated discussions.



Attendees on the Workshop

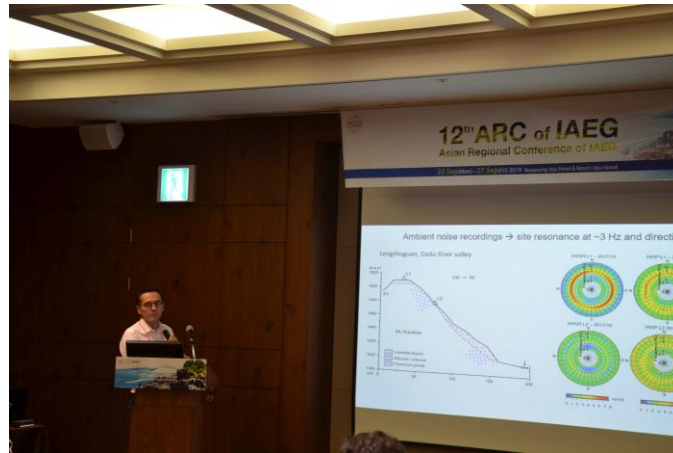


Prof. Lee gave his report



Prof. Dong gave his report





Prof. J. Wasowski gave his report



Group photos of all the attendees

Please click the link below for the minutes of the workshop.

[https://www.dropbox.com/s/7w5qnc4l8o8f59z/IAEG-ARC2019\\_workshop\\_Discussion\\_1010\\_FINAL.docx?dl=0](https://www.dropbox.com/s/7w5qnc4l8o8f59z/IAEG-ARC2019_workshop_Discussion_1010_FINAL.docx?dl=0)



## Hong Kong Regional Group

### 2019 Cross Strait Three Places Engineering Geology Conference successfully held in Hong Kong

The 2019 Cross Strait Three Places Engineering Geology Conference, which was organized by The Geological Society of Hong Kong (GSHK) – The IAEG Hong Kong Regional group, was held at the University of Hong Kong during 16-20, October 2019. This was the third Conference since 2017 held in Mainland China and 2018 held in Taiwan to foster discussions on special engineering geological issues, new theories, techniques and cutting-edge developments. Totally 140 delegates participated in this conference. Among them, 45 speakers shared their valuable experiences. After the indoor conference, 30 delegates joined the 2-day field visit to discover the great construction and amazing geological settings in Hong Kong.

The themes of this conference included: (1) New researches and techniques in engineering geology; (2) Applications of engineering geology on natural hazard assessment and mitigation; (3) Applications of engineering geology on various civil engineering projects; (4) Applications of engineering geology on energy and resources exploration; and (5) Engineering geology and earthquakes.

The indoor conference was featured by 10 keynote speakers who gave presentations on various domains - from virtual to real rocks, such as building and testing virtual rocks, using synchrotron X-ray imaging on observing multiscale failure in real rocks, and the prediction of permeability in fractured rocks; insights on natural hazards, such as the kinematics and dynamics of high-speed long-runout slope failure, and the debris flow after wildfire; impact of human beings on environment, such as the effect of human activities on groundwater system, the mechanism of quicksand owing to mining, and the catastrophic man-made slope failure; the progress in artificial ground freezing method, and the application of IoT and AI in smart and resilient city. Beside these keynote presentations, 4 technical sessions covering a wide spectrum of topics including the mechanism and control of geological disasters as well as various rock mechanics and underground engineering issues were also held.

Engineering geology is not a theoretical science, but a practical and applied science. A 2-day field visit was included in this conference. The first day focused on the construction of Tseung Kwan O - Lam Tin Tunnel (TKO-LTT) and the debris-resisting barriers at Yu Tung Road and Cheung Tung Road. The second day was a geological field trip of the Tolo Channel located in the Hong Kong UNESCO Global Geopark.

The cost of TKO-LTT is about HKD\$15.1 billion. It is a 4 km dual two-lane carriageway including a 2.2 km tunnel located at eastern Kowloon for the traffic demand resulting from the growing population. The Civil Engineering and Development Department consulted about the alignment since 1997, and then the construction started in 2016. This project, including 6 contracts, will be completed in 2021. TKO-LTT has a 0.7 km long single lane branch tunnel, which is the second tunnel with a bifurcation in Hong Kong. In order to minimize the impacts on the nearby residents, TKO-LTT is constructed below the adjacent ground level and covered with landscape deck as well as noise barriers. Another challenge is that TKO-LTT interface with two existing Mass Transit Railway (MTR) tunnels. Therefore, how to avoid the influence on MTR during construction requires a careful investigation and design. More than 400 boreholes were drilled within the fractured granite in TKO-LTT to develop a 1:5000 geological map as well as the geological model.

For each blasting/cutting surface in the tunnel or slope, large scale mappings are performed to verify the geological structures and decide if the design has to be revised. These conscientious investigations impress the delegates the remarkable role engineering geology plays in such major constructions.

Yu Tung Road and Cheung Tung Road are located at the northern Lantau Island. During the intense rainfall which was up to 350 mm in 4 hours on 7 June 2008, about 35 landslides occurred, ranging from 30 to 2400 m<sup>3</sup> in volume, in the overlooking catchments. Although most of them were shallow colluvium failures, there were large amount of entrainment. The debris flows and debris floods were mobile and blocked the roads. After detailed field mapping, landslide modellings were performed to calculate the velocity, height, volume and impact force for the design of debris-resisting barriers. The maximum design volume of barriers is about 3000 m<sup>3</sup>. Flexible barriers were also built which can withstand energy of 2000 kJ to catch boulders. A ‘smart’ barrier was also visited, in which sensors are installed to monitor whether the barrier is hit by debris. Beautification works were also incorporated in the design of barriers including grasscrete, green walls, and planters with rainbow theme. The Geotechnical Engineering Office also demonstrated the capability and efficiency of using a handheld laser scanner in obtaining 3D point clouds of barriers as well as the hillside terrains.

The Tolo Channel is located between the Plover Cove Reservoir and the northwest coast of Sai Kung District. This channel is one of the major northeast-trending faults in Hong Kong. The age and lithology on both sides of the fault are very much different. On the northwest side, it is mainly Devonian quartz sandstone with strong deformation, while the southeast side is composed of Jurassic mudstone, rhyodacitic crystal tuff, rhyolitic vitric tuff and Cretaceous rhyolitic crystal tuff. Led by Prof. Lung-Sang Chan, the delegates visited the Harbour Island and the Plover Cove Reservoir. The delegates then took a boat to Tang Chau to visit the fractured Devonian sandstone with sedimentary structures such as cross-bedding and clasts. The next stop was Lai Chi Chong where beautiful slump fold and other geological structures in Jurassic tuffite were observed. Finally, the final stop was Port Island on which the red-coloured sandstone formed in river channels under semi-arid climatic conditions around 100 million years ago was exposed. Besides, a series of normal faults that result in the formation of Mirs Bay were also observed during this field visit.



Group photo of conference delegates



Presentations and discussions during the conference





Keynote Speakers with the President of HKRG, IAEG (From the left: Prof. Louis WONG; Prof. CHENG Qiang Ong; Prof. Quentin Yue; Mr. Paul CHEUNG; Prof. T F WONG & Prof. J J DONG)



Group photo at the Tseung Kwan O - Lam Tin Tunnel



Demonstration of the operation of handheld laser scanner



Prof. Lung-Sang Chan explained the geological settings of Hong Kong (L)  
Climbing on the Port Island to observe the red-coloured sandstone (R)







Spillway of the Plover Cove Reservoir



Slump fold at Lai Chi Chong



Normal faults at Port Island that result in the formation of Mirs Bay (L)  
Beautiful sunset at the Tolo Channel (R)



Group photo in front of a debris-resisting barrier at Yu Tung Road



## **Japan National Group**

### **1. 5<sup>th</sup> International Workshop on Rock Mechanics and Engineering Geology in Volcanic Fields, 9-10 Sep. 2021 Fukuoka, Japan**

Japan Society of Engineering Geology (JSEG) is planning to host above mentioned workshop in collaboration with Japan Society for Rock Mechanics (JSRM) and ISRM.

The Council of IAEG also approved the IAEG sponsorship at the Council Meeting in Jeju, Korea on September 22, 2019.

Topics of this workshop are:

- Geology, disaster and its mitigation in Volcanic fields
- Resources and energy in volcanic fields
- Mechanical behavior of volcanic rocks and soils
- Groundwater and environmental problems in volcanic fields
- Geoengineering and infrastructure in volcanic fields

After the workshop in Fukuoka University, one day Field trip to the Aso Caldera in middle Kyusyu is planned now.

IAEG has recommended two vice presidents, Dr. Vassilis Marinou and Prof. Eugene Voznesensky for Academic Committee members of this workshop.



### **2. Investigation Team for Disaster Prevention, in 2019**

JSEG organized an investigation team for the disaster of the typhoon 15th and 19th.

The electric current was long and wide cut off in the east of Tokyo by strong wind of typhoon 15th on September 8. Moreover, downfall disasters were induced by maximum rainfall of 1,000mm in a day by the typhoon 19th on October 12. About 100 lives were lost. We Japanese people have been undergone severe disasters of downfall, strong wind and earthquakes almost every year recently.





Flood disaster induced by typhoon 19th in October  
Aerial photo taken by Kokusai Kogyo and Pasco

## South Korea National Group

The 12th Asian Regional Conference of IAEG was held from 21st to 27th September, 2019 at Booyoung Hotel, Jeju Island, Republic of Korea. In all, about 485 relatives from 29 nations participated in the conference, including Keynote Speakers, Invited Speakers, Chair, Oral and Poster Speakers, Participants, Sponsors and Companions.

There were 7 Keynote papers and 12 Invited Speakers papers with titles as stated below: along with 161 Oral Speakers and 145 Poster Speakers in parallel sessions.

Conference opening ceremony was held on September 24th Tuesday Morning. Dr. Kyung-Sik Won, past president of KSEG and Dr. Bok-Cheol Kim, President of KIGAM, spoke welcome remarks and congratulatory address. Honorary President and Membership awarded to Ricardo OLIVEIRA and Cristian Marunteanu.



Banquet was held on September 25th. Lots of participation joined this event and enjoyed Korean traditional dance performance and dinning.





We arranged Pre-Conference Tour to Jeju Trekking, field trip to Geo-Park, and Post-Conference Tour to UNESCO Heritage.



Jeju Trekking Tour



UNESCO Heritage Tour





Jeju Culture Tour

Please click the link below for the detailed information about the 12<sup>th</sup> ARC.

[https://www.dropbox.com/s/oxvx4of0225em7w/Report\\_on\\_the\\_12\\_ARC\\_of\\_IAEG.pdf?dl=0](https://www.dropbox.com/s/oxvx4of0225em7w/Report_on_the_12_ARC_of_IAEG.pdf?dl=0)

## Turkey National Group

### 1. Executive Committee meetings

Executive committee had two meetings between July and November 2019. The first meeting was held in State Hydraulics Works (DSI) in Ankara on 19 July 2019, and the second meeting was held at Pamukkale University, Geological Engineering Department in Denizli on 2<sup>nd</sup> of October 2019.



View from Executive Committee meeting on 19 July 2019.

### 2. ISRM President and Vice President are Members of Turkish Society of Engineering Geology

Members of Turkish Society of Engineering Geology, Prof. Dr. Reşat Ulusay was took over the Presidency of the ISRM from Prof. Dr. Eda Quadros (Former President of the ISRM), and Prof Dr. Ömer Aydan was appointed as the Vice President at Large of the ISRM in the closing session of ISRM 14th International Congress on Rock Mechanics in Iguasso in Brasil on 18 September 2019.



A picture from ISRM Presidency Handover Ceremony from Prof. Dr. Eda Quadros to Prof. Dr. Reşat Ulusay(L)

A picture from ISRM Presidency Handover Ceremony, Prof Dr. Reşat Ulusay (ISRM President), Prof. Dr. Ömer Aydan (ISRM Vice President at Large), Yıldız Ulusay (wife of Reşat Ulusay) (R)

## USA National Group

Prof. Scott Burns, the immediate past president of IAEG and the past president of AEG won 2018 Schuster Medal.



Prof. Scott Burns in the middle

The Schuster Medal is a joint award from the Association of Environmental & Engineering Geologists and the Canadian Geotechnical Society that recognizes excellence in geo-hazards research in North America. The 2020 Nominating Committee is now accepting nominations for the 2019 Schuster Medal. All nominees for the Schuster Medal must meet at least two of the following criteria:

- Professional excellence in geohazards research with relevance to North America.
- Significant contribution to public education regarding geohazards.
- International recognition for a professional career in geohazards.
- Influential geohazards research or development of methods or techniques.
- Teacher of students who work on geohazards issues.

Nominations should be submitted to AEG Headquarters by Friday, January 31, 2020. Each nomination should include a one-page CV and a one or two paragraph justification for the nominee.

Please click <https://www.aegweb.org/page/SchusterMedal> for the detailed information.



## 8. NEWS FROM COMMISSIONS

### Commission 29

#### **IAEG C29 successfully held ARC-12 Technical Committee Sessions 8.2: STRUCTURE AND BEHAVIOR OF SOIL AND ROCK MASS in Jeju, Korea on September 26, 2019.**

On Sept. 26, 2019, Jeju, Korea, IAEG C29 successfully held ARC-12 Technical Committee Sessions 8.2: STRUCTURE AND BEHAVIOR OF SOIL AND ROCK MASS (TC-8.2).

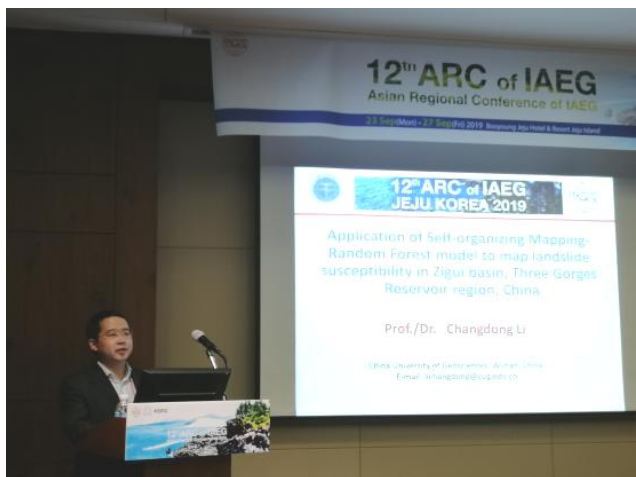
TC-8.2 was organized by IAEG C29 Structure and Behavior of Soil and Rock Mass and chaired by Prof. Shengwen Qi and Assoc. Prof. Lihui Li, chair and secretary of C29 respectively. The session was opened by Mark Eggers, Co-Chair of Advisory Board Committee, IAEG and Past Vice President for Australasia, IAEG, with a latest brief on Advisory Board Committee, IAEG, especially about the parts of promotion and evaluation on IAEG Commission. The session was consisted of 6 oral presentations including 3 invited lectures.

IAEG President Prof. Rafiq Azzam, IAEG Past President Prof. Scott Burns, IAEG Secretary General Prof. Faquan Wu, IAEG Past Vice President for Australasia Ann Williams, IAEG Honorary Membership Prof. Cristian Marunteanu and IAEG C34 Marine Engineering Geology Chair Prof. Yonggang Jia also attended the session.



Invited lecture by Co-Chair of Advisory Board Committee, IAEG Mark Eggers (L)  
*Brief introduction on the Advisory Board Committee (ABC), IAEG*  
*Fault influence on deep clay argillic alteration overprinting a porphyry copper system, Philippines*  
Invited lecture by Chair of YEG, IAEG Dr. Louise VICK (R)  
*Foliation controlled anisotropic shearing in deep-seated gravitational slope movements, Norway*





Oral speech by Prof. Changdong Li (L)

*Application of self-organizing mapping-*

*random forest model to map landslide susceptibility in Zigui basin, Three Gorges Reservoir region, China*

Oral speech by Chair of IAEG C29 Structure and Behavior of Soil and Rock Mass

Prof. Shengwen Qi (Session convener and chairman) (R)

*Classification of rock mass structure and its scale effect*



Invited lecture by Dr. Andrey Kazeev (L)

*The peculiarities of formation of deep landslides on natural and man-made slopes*

Oral speech by Dr. Xuan-Xinh NGUYEN (R)

*Laboratory measurement of mechanical and hydraulic apertures of smooth aluminum joints under different confining stresses*



Group photo

## 9. MEETING INFORMATION

**Delhi, India, March 2-8, 2020**

**36th International Geological Congress**



**36TH INTERNATIONAL  
GEOLOGICAL CONGRESS**  
2 - 8 MARCH 2020, DELHI, INDIA

The 36th International Geological Congress is drawing near. India is opening its arms with enthusiasm to welcome all the attendees.

### **Registration**

Early Bird Registration : September 1 - November 30, 2019

Standard Registration : December 1, 2019 – January 31, 2020

Late Registration : February 1 – March 1, 2020

### **Contact Information**

Website: <http://36igc.org/index.php> Phone : +91-11-29965750

Email: [igc.delhi2020@nic.in](mailto:igc.delhi2020@nic.in) [igc.delhi2020@gmail.com](mailto:igc.delhi2020@gmail.com)

Venue : India Expo Centre & Mart

### **Important Date**

November 15, 2019 : Abstract Submissions Close & GeoHost Support Applications Close

November 30, 2019 : Early Bird Registrations Close

December 31, 2019 : Field Trip Bookings Close & Requests for Business Meetings Close

January 31, 2020 : Standard Congress Registrations Close

March 1, 2020 : Late Registration Close

March 2, 2020 : Onsite Registrations Commence

# Naples, Italy, June 7-9, 2021

## The 1st Mediterranean Symposium on Landslides

### The 1<sup>st</sup> Mediterranean Symposium on Landslides MSL-2021

#### SLOPE STABILITY PROBLEMS IN STIFF CLAYS AND FLYSCH FORMATIONS

Promoters:  
Prof. Giovanni Crosta  
Prof. Luciano Picarelli

Naples, 7-9 June 2021

Preliminary bulletin

Landslides MSL-2021 is promoted by prof. Giovanni Crosta, from the Università di Milano Bicocca and prof. Luciano Picarelli, from the Università della Campania L. Vanvitelli. The organizing Committee is established at the Università di Napoli Federico II and is chaired by prof. Gianfranco Urciuoli.

#### Venue

*Centro Congressi Partenope* of the Università di Napoli Federico II, via Partenope 26

#### Contact Information

Contact person : Prof. G Urciuoli    Email :  
[luca.comegna@unicampania.it](mailto:luca.comegna@unicampania.it)

#### Sessions

- Geological Setting, Triggers and Mechanism
- Investigations, Monitoring and Analysis
- Remedial Measures, Landslide-structure / Infrastructure Interaction

#### Proceedings

Symposium proceedings will be peer reviewed and published as full paper before the Symposium. Full papers will be collected and published in an indexed electronic volume. The authors must confer the copyright to the Organizing Committee when they submit the final version of the paper through the paper submission process.

# Cartagena, Columbia, June 15-19, 2020

## XIII International Symposium on Landslides



In association with the Joint Technical Committee on Natural Slopes and Landslides (JTC1) and the Federation of International Geo-engineering Societies: ISSMGE, ISRM and IAEG (FedIGS), the Colombian Geotechnical Society-CGS cordially invites the international geotechnical community to participate in the XIII International Symposium on Landslides-XIII ISL, which will be held from June 15 to 19 - 2020 in the city of Cartagena-Colombia.

Our invitation extends to all those colleagues interested in presenting articles, and in a very special way to invite students and professors of universities and research centers, and to the representatives of industry and research for the installation of stands to display software, equipment and geotechnical services. In addition to the program of the Symposium to be held at the venue of the event, technical visits will be organized to selected landslide sites and structures of geotechnical interest, in the surroundings of Medellín and Bogotá cities, both located in the Andean region. It is planned to make these visits during the week of June 22 to 26. Finally, we invite you to enjoy our tourist attractions and the hospitality of our people.

### Contact Information

Website: <http://www.scg.org.co/xiii-isl/>

Phone : +57-1-2694260 ; Email: [isl2020@scg.org.co](mailto:isl2020@scg.org.co)

Venue : Las Americas Hotel Convention Center (in the city of Cartagena de Indias, Bolivar)

### Main Subjects

- Weather and landslides
- Landslides and sismo-tectonic and Volcanic activity
- Landslides and human activities
- Effects of Landslides with emphasis on infrastructure and sustainable development
- Landslides : Risk assessment and management
- Slope investigation and analysis

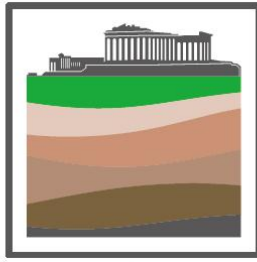
### Registration

Professionals in general	US \$ 600
Professional Members ISSMGE, ISRM, IAEG	US \$ 500
University teachers	US \$ 450
Students	US \$ 200



Athens, Greece, September 20-24, 2020

3rd European Regional Conference of IAEG



# EUROENGEO

## 3<sup>RD</sup> EUROPEAN REGIONAL CONFERENCE OF IAEG

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### ATHENS 2020

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Leading to Innovative  
Engineering Geology Practices

**20-24 September 2020**



The 3rd European Regional Conference of IAEG will take place from 20th to 24th of September 2020. The activation again of the IAEG regional conference in Europe is a fundamental action for our



region. Considering that almost half of the members and National Groups (NGs) of IAEG are from European region, we hope that the initiative will become a stable event, involving the scientific and professional community of the same area.

The conference will be organized with the collection of extensive abstracts. More details about the 3rd European Regional Conference, the call of abstracts and the registration are available in the conference website (<http://euroengeo2020.org>). The call for Abstracts is now Open.

It is our pleasure also to announce that the Executive Office and Council of IAEG for 2020 will be hosted in the occasion of the conference in Athens.

The next Richard Wolters Prize competition for 2020 will be moreover presented by IAEG at the occasion of the conference.

### **Call for abstracts**

Authors are invited to submit titles and abstracts to the EuroEnGeo2020 Secretariat ([info@euroengeo2020.org](mailto:info@euroengeo2020.org)) no later than April 30, 2020.

### **Main Topics**

- Characterisation and Behaviour of Soils and Rocks
- Environmental Engineering Geology
- Advances in Site Investigation for Engineering Geology
- Engineering Geology for Engineering Works
- Engineering Geology for Urban Environment
- Analysis and mitigation of Geo-hazards
- Recent advances in Geomatics and Remote Sensing for use in Engineering Geology
- Engineering Geology and Cultural Heritage Protection
- Engineering Geology for the Society
- Technical Committee Sessions
- Young Engineering Geologists Meeting

### **Members from Organizing Committee**

#### **Chairman**

Vassilis P. Marinos --- Vice President of IAEG for Europe

#### **Co-chairman**

Constantinos Loupasakis --- President of the Greek National Group of IAEG

Charalampos Saroglou --- Secretary of the Greek National Group of IAEG

## Dunedin, New Zealand, October 15-17, 2020

NZGS Symposium 2020----Good Grounds for the future



This symposium aims to attract the most recent developments in geotechnical engineering, and associated disciplines in New Zealand and internationally. We look for stimulating technical discussions and out-of-the-box ideas in the fields of engineering geology geotechnical engineering, seismology, geophysics, new technologies.

The world is experiencing profound changes. These mark the dawning of a new era of pressing challenges that Geotechnical Engineering must deal with, internationally and in New Zealand. Geotechnical engineering and engineering geology are now widely perceived in New Zealand as an integral part of their modern communities.

### Conference Information

Email : [nzgs2020@confer.co.nz](mailto:nzgs2020@confer.co.nz); Website : <http://confer.co.nz>; Tel : +64-43841511

Date : October 15-17, 2020      Venue : Dunedin Conference Centre

### Workshop & Field Study

October 14, 2020 : Queenstown Workshop

October 15, 2020 : Field Study through Cromwell Gorge and Taieri Gorge

### Registration

*Start from December 2020*

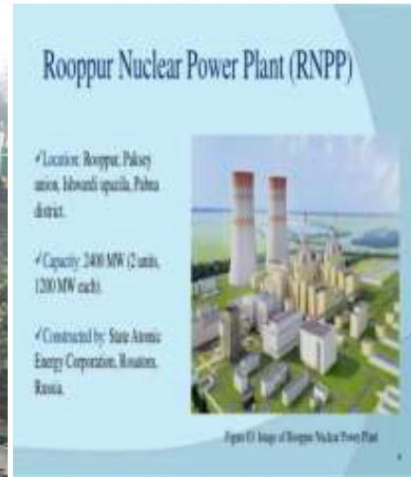
Registration Fee	Early Bird	Standard
Member	\$645	\$695
Non-Member	\$799	\$842
Student	\$100	\$100
Pre-Symposium Workshop & Field Study	\$TBC	\$TBC

**Bangladesh, March 5-7, 2021**

**IST Geo-engineering, Climate Change & Sustainable Development Conference**

**IST GEO-ENGINEERING, CLIMATE CHANGE & SUSTAINABLE  
DEVELOPMENT CONFERENCE, BANGLADESH.**

***1<sup>ST</sup> GECCSD-2021***  
**(05 MARCH-07 MARCH, 2021)**



**Organized By:**

**IAEG BANGLADESH NATIONAL GROUP (ESTD. 26 NOV.,2017)  
& DEPARTMENT OF GEOLOGICAL SCIENCES  
JAHANGIRNAGAR UNIVERSITY, DHAKA, BANGLADESH.**



**Singapore, May 3-7, 2021**

**The 13th Asian Regional Conference of IAEG**



The poster for the 13th Asian Regional Conference of IAEG (ARC 13) is set against a light blue background. On the left, there is a vertical strip of three images: the top one shows the 'Changi Jewel' with its iconic glass and steel dome; the middle one shows 'Semakau Island' with its green landscape and surrounding water; the bottom one shows the 'Jurong Rock Caverns' with their dark, cavernous interior. To the right of these images, the text 'ARC 13 of IAEG' is written in large, bold, red letters. Below this, the full name of the conference is written in a smaller, dark blue font. The dates 'May 3-7, 2021' are prominently displayed in large, bold, red letters. The conference theme, 'Engineering Geology for Sustainable Resource and Infrastructure Development', is written in a smaller, dark blue font. Below the theme, it states 'Abstract submission opens in March 2020'. The organizers are listed as the 'Society for Rock Mechanics & Engineering Geology (Singapore)' and the 'Geological Society of Hong Kong', each with its respective logo. On the far right, there is a vertical illustration of a multi-layered cross-section of the earth, showing various geological layers and infrastructure elements like roads, buildings, and underground systems. This illustration is accompanied by the text 'Underground Master Plan - Singapore's Sustainable Infrastructure Solution'.

**ARC 13 of IAEG**

13<sup>th</sup> Asian Regional Conference of  
International Association for Engineering Geology

**INVITATION TO SINGAPORE**  
**May 3-7, 2021**

Conference Theme: *Engineering Geology for Sustainable  
Resource and Infrastructure Development*

Abstract submission opens in March 2020

Organized by:

 Society for Rock Mechanics &  
Engineering Geology (Singapore)

 Geological Society  
of Hong Kong

Changi Jewel

Semakau Island

Jurong Rock Caverns

Underground Master Plan - Singapore's  
Sustainable Infrastructure Solution

The Society for Rock Mechanics and Engineering Geology (Singapore) and the Geological Society of Hong Kong cordially invite you to the 13<sup>th</sup> Asian Regional Conference (AEC) of International Association for Engineering Geology, to be held from May 3<sup>rd</sup> to May 7<sup>th</sup>, 2021 in the tropical garden city Singapore.

The theme of AEC 13 is “*Engineering Geology for Sustainable Resource and Infrastructure Development*”, covering all areas related to engineering geology, including but not limited to rock mechanics, soil mechanics, underground technology, applied geophysics, environmental geology, remote sensing technique, energy extraction and storage. The conference program includes short courses and workshops, keynote lectures and parallel sessions, young engineering geologist session, technical tours, etc.

### **Important Date**

March 2020: Online abstract submission opens

## Cordoba, Argentina, September 7-10, 2021

### IAEG South American Regional Conferences & 2021 Congress of the IAEG National Group of Argentina



IAEG South American Regional Conference will be held on September 7-10, 2021, in occasion of the 2021 Congress of the IAEG National Group of Argentina. The main goal of the conference is to share knowledge and practical experience in dealing with issues on Geology applied to society development.

#### Contact Information

Email: [aw@tradeshowsa.com.ar](mailto:aw@tradeshowsa.com.ar)

#### Theme

Geological Engineering aspects in the construction of works and land pathologies

- Thematic cartography
- Environmental geology
- Coastal Geology
- Medical Geology
- Ornamental rocks
- Geological modelling
- Geological parks and geotourism
- Urban Geology and Territorial Planning



**Fukuoka, Japan, September 9-10, 2021**

**5th International Workshop on Rock Mechanics and Engineering Geology in Volcanic Fields**

## **5<sup>TH</sup> INTERNATIONAL WORKSHOP ON ROCK MECHANICS AND ENGINEERING GEOLOGY IN VOLCANIC FIELDS**

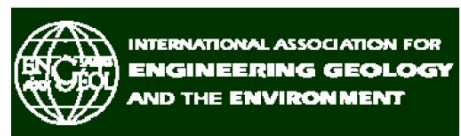


### **Topic**

- Disaster and its mitigation in volcanic fields
- Resources and energy in volcanic fields
- Mechanical behavior of volcanic rocks and soils
- Groundwater and environmental problems in volcanic fields
- Geoengineering and infrastructures in volcanic fields

### **Organizing Committee**

Takatoshi Ito (Chairman), Takehiro Ohta (Secretary General), Norikazu Shimizu, Kiyoshi Kishida, Tetsuji Okada, Masahiko Osada, Yasuhiko Wakizaka, Kenzo Kiho, Koji Shimizu, Hisatoshi Ito, Hiroshi Hara, Takakazu Kuroki





# 10. CONTACT INFORMATION

## IAEG EXECUTIVE COMMITTEE 2019-2022

<b>Rafiq Azzam</b> Engineering Geology RWTH Lochnerstr. 4-20 52064 Aachen <b>GERMANY</b>	Tel + 49 241 8095741 Fax + 49 241 8092280 Mail azzam@lih.rwth-aachen.de	President
<b>Scott F. Burns</b> Portland State University Dept. of Geology P.O. Box 751 Portland, OR 97207 <b>USA</b>	Tel +1 503-725-3389 Fax +1 503-725-3025 Mail burnss@pdx.edu	Immediate past president
<b>WU Faquan</b> Shaoxing University No.508 Huanchengxilu Shaoxing City, Zhejiang Province <b>CHINA</b>	Tel + 86-0575-88346551 Fax + 86-0575-88346551 Mail iaegsg@163.com	Secretary general
<b>Jean-Alain Fleurisson</b> Mines ParisTech - Centre de Géosciences. 35, rue Saint Honoré. 77305 Fontainebleau <b>FRANCE</b>	Tel +33 1 64 69 48 13 Mob: +33 6 67 91 73 10 Mail jean-alain.fleurisson@mines-paristech.fr	Treasurer
<b>Tamunoene Kingdom Simeon Abam</b> Institute of Geosciences and Space Technology, Rivers State University,Nkpolu, PortHarcourt, <b>NIGERIA</b>	Tel +234-8033100474 Mail groundscan@yahoo.com	Vice-president for Africa [National groups : Algeria ; Nigeria; South Africa]
<b>Tang Huiming</b> No. 388 Lumo Rd. Wuhan, Hubei, China,430074 China University of Geosciences <b>CHINA</b>	Tel + 86-027-67883968 Mob + 86-13607153663 Fax + 86-027-87481030 Mail tanghm@cug.edu.cn	Vice-president for Asia [National and regional groups : Bangladesh; China;Chinese Taipei regional group; Hong Kong regional group; India ; Indonesia ; Iran ; Iraq; Japan ; South Korea ; Malaysia ; Nepal ; Singapore ; South-East Asia ; Vietnam]
<b>Bo-An Jang</b> Dept. of Geophysics 1 gangwondaehakgil Chuncheon, Kangwon-do 24341 Republic of Korea <b>KOREA</b>	Mob +82-10-3281-6137 Fax +82-33-244-9276 Mail bajang@kangwon.ac.kr	Vice-president for Asia [National and regional groups : Bangladesh; China;Chinese Taipei regional group; Hong Kong regional group; India ; Indonesia ; Iran ; Iraq; Japan ; South Korea ; Malaysia ; Nepal ; Singapore ; South-East Asia ; Vietnam]
<b>Doug Johnson</b> Tonkin + Taylor 105 Carlton Gore Rd Newmarket Auckland 1023 <b>NEW ZEALAND</b>	Mob +6421574080 DDI +6493556052 Mail djohnson@tonkintaylor.co.nz	Vice-president for Australasia [National groups : Australia ; New Zealand]

**D. Jean Hutchinson**  
 Dept Geological  
 Sciences and Geological  
 Engineering  
 Miller Hall, 36 Union St  
 Queen's University  
 Kingston, Ontario  
 K7L 2G8  
**CANADA**

Mob +1 613 770 2623  
 Fax +1 613 533 6592  
 Mail hutchinj@queensu.ca

Vice-president for North America  
 [National groups : Canada ; Mexico ; United  
 States of America]

**Norberto Jorge  
 Bejerman**  
 Learte 1818 - 5006  
 Córdoba - Argentina  
**ARGENTINA**

Mob +543515902618  
 Mail jorgebejerman@gmail.com

Vice-president for South America  
 [National groups : Argentina ; Brazil ; Colombia  
 ; Paraguay ; Peru]

**Vassilis Marinos**  
 School of Geology  
 Faculty of Sciences  
 Aristotle University of  
 Thessaloniki  
 GR-541 24 Thessalonik  
**GREECE**

Mob +30 6944833898  
 Fax +30 2310 998530  
 Mail marinosv@geo.auth.gr

Vice-president for Europe  
 [National groups : Albania ; Austria ; Bulgaria ;  
 Croatia ; Cyprus ; Estonia ; France ; Georgia ;  
 Greece ; Italy ; Lithuania; Netherlands ; Poland  
 ; Portugal ; Romania ; Slovenia ;  
 Serbia(Yugoslavia) ; Spain ; Switzerland ;  
 Turkey ]

**Eugene A.  
 VOZNESENSKY**  
 Faculty of Geology  
 Lomonosov Moscow  
 State University  
 1 Leninskie Gory  
 119234 Moscow, Russia  
**RUSSIA**

Mob +79039665264  
 Fax +7 (495) 932-8889  
 Mail arnoldych@gmail.com

Vice-president for Europe  
 [National groups : Belgium ; Czech Republic ;  
 Denmark ; Finland ; Germany ; Hungary;  
 Iceland ; Ireland ; Norway ; Russia ;Slovak  
 Republic ; Sweden; United Kingdom]

**Giorgio LOLLINO**  
 CNR-IRPI  
 Strada delle Cacce, 73  
 10135 Torino  
**ITALY**

Tel +39 011 3977810  
 Fax +39 011 3977820  
 Mail giorgio.lollino@irpi.cnr.it

Web Editor in Chief  
 Ex officio member

**Resat Ulusay**  
 Hacettepe University  
 Dept. of Geological  
 Engineering, Applied  
 Geology Division,  
 06800 Beytepe, Ankara  
**TURKEY**

Tel +90 312 2977767  
 Mobile +90 532 5733546  
 Mail resat@hacettepe.edu.tr  
 resatulusay1987@gmail.com

Bulletin Editor in Chief  
 Ex officio member

**Louis N.Y. Wong**  
 Department of Earth  
 Sciences  
 The University of Hong  
 Kong  
 Pokfulam Road  
**HONG KONG**

Mob +852 67395085  
 Mail LNYWONG@hku.hk

Bulletin Editor in Chief  
 Ex officio member

**Louise Vick**  
 Bjørnøygata 44  
 Tromsø 9007  
**NORWAY**

Mob +47 90473083  
 Mail louise.vick@gmail.com

Chair of Young Engineering Geologists(YEG)  
 Committee  
 Ex officio member

## IAEG National Group

Defrim SHKUPI  
President  
defrim\_shkupi@yahoo.com  
**ALBANIA**

Daas Amiour Mohamed  
Vice President  
dassamiour.m@univ-setif.dz  
BOUSTILA Redha  
Secretary  
r.boustila@yahoo.fr  
**ALGERIA**

Fabio Sergio Luna  
President  
secretario@asagai.org.ar  
Norberto Jorge Bejerman  
Secretary  
secretario@asagai.org.ar  
**ARGENTINA**

Stephen Fityus  
Chairman  
stephen.fityus@newcastle.edu.au  
Peter Robinson  
Secretary  
secretary@australiangeomechanics.org  
**AUSTRALIA**

Christian Zangerl  
President  
christian.J.zangerl@boku.ac.at  
Reinhold Steinacher  
Secretary  
reinhold.steinacher@gmx.at  
**AUSTRIA**

A.T.M.Shakhawat Hossain  
President  
shakhawathos2004@yahoo.com  
Mohammad Feruj Alam  
Secretary  
ferujgsb@yahoo.com  
**BANGLADESH**

Christian TREVE  
President  
Christian.Treve@gmail.com  
Mikael Ramos da Silva  
Secretary  
mramos@fugro.be  
**BELGIUM**

Delfino L. G. Gambetti  
President  
presidencia@abge.org.br  
Marcela P. P. Guimarães da Silva  
Secretary  
abge@abge.org.br  
**BRAZIL**

Kiril Anguelov  
President  
angelov@bondys.bg  
Ivailo Ivanov  
Secretary  
bulgeo@dir.bg  
**BULGARIA**

Mario Ruel  
President  
President@cgs.ca  
Michel Aubertin  
Executive Director  
ExecDir@cgs.ca  
Stephen Butt  
CGS Engineering Geology Division Chair  
sdbutt@mun.ca  
Secretary / Administrator  
Lisa Reny  
admin@cgs.ca  
**CANADA**

Faquan Wu  
President  
wufaquan@mail.iggcas.ac.cn  
Shengwen Qi  
Secretary  
qishengwen@mail.iggcas.ac.cn  
**P.R. of CHINA**

Tien-Chang Lai  
President  
timtclai@gmail.com  
Li-Yuan FEI  
Secretary  
feily@moeacgs.gov.tw  
**CHINESE TAIPEI Regional Group**

ÉDGAR EDUARDO RODRÍGUEZ GRANADOS  
President  
sociedadcolombianadegeotecnia@scg.org.co  
scgeotecnia1@gmail.com  
**COLOMBIA**

Ivan Kosović  
President  
ikosovic@hgi-cgs.hr  
**CROATIA**

Clio Grammi  
President  
geominescy@gmail.com  
Niki Koulermou  
Vice-President  
niki.koulermou@gmail.com  
**CYPRUS**

Pavel Pospíšil  
pavel.pospisil@vsb.cz  
Jan Novotný  
Secretary  
iaeg@irsm.cas.cz  
jan.novotny@geology.cz  
**CZECH REPUBLIC**

Jan Dannemand Andersen  
President  
jda@geo.dk  
John Kærgaard Frederiksen  
IAEG representative for the Board of the Danish  
Geotechnical Society  
JRF@ramboll.dk  
**DENMARK**



Johannes PELLO  
President  
Tallinn Technical University  
Room III-217 Ehitajate tee 5  
Tallin 19086  
**ESTONIA**

Arto Koskiahde  
President  
artokoskia@gmail.com  
Pekka Ihalainen  
Secretary/Treasurer  
pekka.ihalainen@ykl.fi  
**FINLAND**

Guilhem Devèze  
President  
guilhem.deveze@edf.fr  
Marc Brisbarre  
Secretary  
marc.brisbarre@laposte.net  
**FRANCE**

Zurab Kakulia  
President  
zukurakulia@yahoo.com  
Ludmila Glonti  
Secretary  
**GEORGIA**

Prof. Dr. Kuroschi Thuro  
President  
thuro@tum.de  
Kirsten Laackmann  
Managing Director  
service@dggt.de  
**GERMANY**

Loupasakis Constantinos  
President  
cloupasakis@metal.ntua.gr  
Haris Saroglou  
Secretary  
saroglou@central.ntua.gr  
**GREECE**

Paul Cheung  
President  
golfcheung@hotmail.com  
Louis N.Y. Wong  
Secretary  
Inyong@hku.hk  
**Hong Kong Regional Group**

Akos TOROK  
President  
torokakos@mail.bme.hu  
**HUNGARY**

Haraldur Sigursteinsson  
President  
has@vegagerdin.is  
Thorsteinn Samundsson  
Secretary  
steinis@hi.is  
**ICELAND**

R.N.MISRA  
President  
presidentiseg@gmail.com  
Imran Sayeed  
Secretary  
india.seg@gmail.com

**INDIA**  
Imam A. SADISUN  
President  
imam@gc.itb.ac.id  
**INDONESIA**

M. Fatemi  
President  
fatemi@khu.ac.ir  
Zieaoddin Shoaie  
Secretary  
zshoaie@gmail.com  
**IRAN**

AQEEL AL-ADILI  
President  
aqeeladili@hotmail.com  
Jaffar Hussain Al-Zubaydi  
Secretary  
Jafar\_hussain68@yahoo.com  
**IRAQ**

Michael LOOBY  
President  
Byrne Looby Partners  
H5 Centre point Business Park  
Oak Road Dublin 12  
**IRELAND**

Daniele Giordan  
President  
daniele.giordan@irpi.cnr.it  
Martina Cignetti  
Secretary  
segreteria@iaeg.it  
**ITALY**

Masahiro Chigira  
President  
iaeg-japan-ng@jseg.or.jp  
Takao Chaishi  
Vice President  
chaishi@jpde.co.jp  
Daisuke Yamada  
Secretary  
daisuke\_yamada@kk-grp.jp  
**JAPAN**

Bolot Moldobekov  
Chairman  
Sagynbek Orunbaev  
Secretary  
+996-312-555111/222  
**KYRGYZSTAN**

Zakaria Mohamad  
President  
dzakaria@gmail.com  
Abd Rasid Jaapar  
Secretary  
arjaapar@gmail.com  
**MALAYSIA**

Carlos GARCIA HERRERA  
President  
Apartado Postal 39-137  
**MEXICO**

Sone Han  
President  
Aye Lwin  
Secretary  
ayelwin.54@gmail.com  
**MYANMAR**

Dandapani Adhikari  
Nepal Geological Society  
himalayawatch@gmail.com  
Ranjan Kumar Dahal  
Central Department of Geology, Tribhuvan University  
rkdahal@gmail.com  
**NEPAL**

Robrecht Schmitz  
President  
r.m.schmitz@tudelft.nl  
Peter N.W. Verhoef  
IAEG representative Ingeokring  
peter.verhoef@boskalis.com  
**NETHERLANDS**

TKS Abam  
groundscan@yahoo.com  
President  
Abimbola Aluko  
Secretary  
beamborller@gmail.com  
**NIGERIA**

Saskia Butler  
Contact Person  
saskia.butler@tekna.no  
**NORWAY**

Anthony Fairclough  
President  
chair@nzgs.org  
Teresa Roetman  
Secretary  
secretary@nzgs.org  
**NEW-ZEALAND**

Jose E. Martinez del Carpio  
President  
antguzman@gmail.com  
**PERU**

Pawel Dobak  
President  
p.dobak@uw.edu.pl  
Beata Łuczak Wilamowska  
Secretary  
b.luczakw@uw.edu.pl  
**POLAND**

Kastytis Dundulis  
President  
kastytis.dundulis@gf.vu.lt  
Saulius Gadeikis  
Secretary  
saulius.gadeikis@gf.vu.lt  
**LITHUANIA**

José Pavón Mendoza  
President  
presidente@spg.org.py  
**PARAGUAY**

António de Matos Fernandes  
President  
spg@Inec.pt  
Helder Chaminé  
Secretary  
spg@Inec.pt  
**PORTUGAL**

MARUNTEANU CRISTIAN  
President  
crimarunteanu@yahoo.com  
STANCIUCU MIHAELA  
Secretary  
stanciucumihaela@yahoo.com  
**ROMANIA**

Victor I. Osipov  
President  
osipov@geoenv.ru  
Olga N. Eremina  
Secretary  
direct@geoenv.ru  
**RUSSIA**

Dusko Sunaric  
President  
dsunaric@gmail.com  
Srdjan Kostic  
Secretary  
srdjan.kostic@jcerni.co.rs  
**SERBIA**

Zhiye Zhao  
President  
CZZHAO@ntu.edu.sg  
Angeline Long  
Secretary  
srmege@cma.sg  
**SINGAPORE**

Martin Ondrasik  
President  
martin.ondrasik@stuba.sk  
**SLOVAKIA**

Duška Brožič  
President  
dusanka.brozic@gi-zrmk.si  
**SLOVENIA**

Robert Leyland  
President  
president@saieg.co.za  
Yolandé van den Berg  
Secretary  
secretariat@saieg.co.za  
Paul Aucamp  
Treasurer  
treasurer@saieg.co.za  
**SOUTH AFRICA**

Young-Seok Seo  
President  
ysseo@cbu.ac.kr  
Hyuck-Jin Park  
Secretary  
hjpark@sejong.ac.kr  
**SOUTH KOREA**

Carlos Delgado  
President  
carlos.delgado@upm.es  
Javier Olmedo  
Secretary General  
**SPAIN**

Victoria Svahn  
President  
victoria.svahn@sbk.goteborg.se  
Daniel Morfeldt  
Representative  
daniel.morfeldt@mineconsult.se  
**SWEDEN**

Ruedi Krähenbühl  
President  
baugrundrisk@bluewin.ch  
Céline Pittet  
Secretary  
sfigkassier@geotest.ch  
**SWITZERLAND**

Dennes T. BERGADO  
Secretary  
seags@ait.ac.th  
**SEAGS**

Remzi Karagüzel  
President  
remzikaraguzel@gmail.com  
karaguzel@itu.edu.tr  
Halil KUMSAR  
Secretary  
kumsarh@gmail.com  
hkumsar@pau.edu.tr  
**TURKEY**

Helen Reeves  
President  
hjre@bgs.ac.uk  
**UNITED KINGDOM**

Dave Fenster  
President  
president@aegweb.org.  
Kristy Howard  
Secretary  
manager@aegweb.org  
Julien Waeber  
Representative  
jwaeber@gmail.com  
**U.S.A.**

Yu.D. Magrupov  
Chairman  
Abdukhalik Saparov  
Secretary  
info@uzgashkliti.uz  
**UZBEKISTAN**

Ta Duc Thinh  
President  
taducthinh\_dcct@yahoo.com  
Do Minh Duc  
Secretary  
ducdm@vnu.edu.vn  
ducgeo@gmail.com  
**VIETNAM**

## IAEG Commission and Group

### C01 Engineering Geological Characterisation and Visualisation

Jeffrey KEATON  
President  
jeff.keaton@amec.com  
Helen REEVES  
Secretary  
hjre@bgs.ac.uk

### C04 Education

Marlene Villeneuve  
President  
marlene.villeneuve@canterbury.ac.nz  
Nicholas Vlachopoulos  
Secretary  
vlachopoulos-n@rmc.ca

### C10 Building Stones and Ornamental Rocks

Björn SCHOUENBORG  
President  
bjorn.schouenborg@cbi.se  
Nike et Hannu LUODES  
Secretary  
nike.luodes@hotmail.com  
Barry Cooper  
Responsible for the Heritage Stone task group  
barry.cooper@unisa.edu.au

### C16 Engineering Geology and the Protection of Ancient Monuments and Archeologic Sites

Basile Christaras  
President  
christar@geo.auth.gr

### C17 Aggregates

Atiye TUGRUL  
President  
tugrul@istanbul.edu.tr  
tugrulatiye@gmail.com  
Akos TOROK  
Vice President  
atorok@epito.bme.hu  
Akseli TORPPA  
Murat YILMAZ  
Secretary  
akseli.torppa@gtk.fi  
yilmazm@istanbul.edu.tr

### C19 3D Terrestrial Laser Scanning Technology in the Geosciences-current Status and Action Plan

Biljana Abolmasov  
President  
biljana@rgf.bg.ac.rs

### C20 Risk Based Contaminated Land Management

Paul NATHANAIL  
President  
paul@lqm.co.uk



**C21 Engineering Geology of Permafrost Regions**

Edward Yarmak  
President  
eyarmak@arcticfoundations.com  
Dmitry Sergeev  
Secretary  
sergueevdo@mail.ru

**C24 Neotectonics and Geohazard**

Yin Yueping  
President  
yyueping@mail.cgs.gov.cn  
Zhang Yongshuang  
Secretary  
zhys100@hotmail.com

**C25 Use of Engineering Geological Models**

Steve Parry  
President  
parrysteve@gmail.com

**C28 Reliability Quantification of the Geological Model in Large Civil Engineering Project**

Soldo Luca  
President  
Iso@geodata.it

**C29 Structure and Behavior of Soil and Rock Mass**

Shengwen Qi  
President  
qishengwen@mail.igccas.ac.cn  
Li Lihui  
Secretary  
lhli2942@mail.igccas.ac.cn

**C32 Engineering Geology and Rural Infrastructure**

Jasper Cook  
President  
jcook@otbeng.com

**C34 Marine Engineering Geology**

JIA Yonggang  
President  
yonggang@ouc.edu.cn  
Liu Xiaolei  
Secretary  
ffnlxl\_001@sina.com

**C35 Monitoring Methods and Approaches in Engineering Geology Applications**

Daniel Giordan  
President  
segreteria@iaeg.it

**C36 Engineering Geology for Waste Disposal**

YE Weimin  
President  
ye\_tju@tongji.edu.cn  
CHEN Yonggui  
Secretary  
cyg@tongji.edu.cn

**C37 Landslide Nomenclature**

Hengxing Lan  
President  
Lanhx@igsnrr.ac.cn  
Renato Macciotta  
Secretary  
macciott@ualberta.ca

**C38 Rockmass Characterization with Emphasis in Rock Slope Hazards**

Haris Saroglou  
President  
saroglou@central.ntua.gr  
Christian Zangerl  
Secretary  
christian.j.zangerl@boku.ac.at

**C39 Naturally Occurring Asbestos**

R. Mark Bailey  
President  
Sarah Kalika  
Secretary  
sarah@georx.net

**IAEG Management Committee****Advisory Board Committee****Co-chairs**

Mark Eggers  
mark.eggers@psm.com.au  
Carlos Delgado  
carlos.delgado@gsjsolutions.biz

**Committee Members**

Ann William  
ann.williams@beca.com  
Eldon Gath  
gath@earthconsultants.com  
Sebastien Dupray  
sebastien\_dupray@hotmail.com  
Runqiu Huang  
706618681@qq.com  
Silvina Marfil  
smarfil@uns.edu.ar

**Young Engineering Geologists Committee**

Louise Vick  
Chairperson  
louise.m.vick@uit.no  
Morley Beckman  
Assistant Chair  
mbeckman@kleinfelder.com