



# IAEG

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## NEWSLETTER

Issue No.1,2017  
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. REWORDING IAEG STRATEGY STATEMENTS

## ----- Collecting Comments from National Groups

The IAEG Strategy Statement (draft) as followed has been presented to the Council Meeting in Cape Town on August 28th last year, according to the suggestions of the Council, the Executive Committee wishes to get comments from all the national groups on draft statements, NGs may feedback the comments to your corresponding Vice President.



## IAEG STRATEGY STATEMENTS

London, 28-29 May 2016

### IAEG VISION

Our vision is a world in which the risk to human life and to the built environment caused by geological interaction is appropriately managed and reduced.

### IAEG MISSION

To provide society with the means to recognize and appropriately manage the problems created by the interaction between geology and human works and activities.

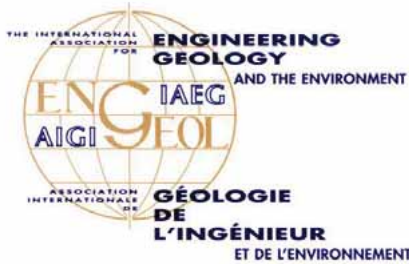
### IAEG OBJECTIVES

Objective	Description
1 Provide worldwide leadership in Engineering Geology	Provide guidance regarding the science and practice of Engineering Geology, including coordination and direction of its international aspects
2 Be the public voice of Engineering Geology worldwide	Participate in and provide comment on Engineering Geology matters of international importance in the public domain
3 Provide support to the engineering geology profession	Provide guidance on career development in Engineering Geology including mentoring and provision of resources to enhance professional development
4 Support & foster innovation in Engineering Geology	Promote & encourage the advancement of Engineering Geology through technological activities & research
5 Promote education & training in Engineering Geology	Support and invigorate the importance and quality of education & training in Engineering Geology
6 Promote professional standards in Engineering Geology	Support and endorse the development of: 1. Professional registration standards 2. Methods, codes of practice & guidelines in engineering geology for different geo-environments
7 Communicate engineering geology research & practice	Provide avenues and opportunities for engineering geology research and practice to be conveyed around the world
8 Provide networking opportunities for engineering geologists	Encourage greater interaction among engineering geologists internationally
9 Ensure the long term financial viability & management of the Association	Financial viability and sustainability is critical to the ongoing success of any organisation; this will be achieved through appropriate financial monitoring and auditing procedures Operation of the Association should involve management procedures that are appropriate to cope with change and implement decisions in a timely fashion

# /2. NEWS OF EXECUTIVE COMMITTEE

## NOTIFICATION FOR TOC NEW TERM

The Technical Observation Committee (TOC) has its term changed. Scott will chair the TOC and all the Executive Committee members will be the members of TOC.



<b>President:</b>	Prof. Carlos Delgado
<b>Past President:</b>	Dr. Fred Baynes
<b>Secretary General:</b>	Prof. Wu Faquan.
<b>Treasurer:</b>	Mr. Pierre Potherat
<b>Vice Presidents</b>	
Africa:	Dr. John Stiff
Asia:	Prof. Huang Runqiu
Australasia:	Dr. Ann Williams
Europe:	Prof. Atiye Tugrul
	Dr. Ian Jefferson
North America:	Dr. Réjean Couture
South America:	Dr. Silvina Andrea Marfil

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IAEG Secretariat:  
Institute of Geology and Geophysics, Chinese Academy of Sciences  
No. 19 Beituchengxilu, Chaoyang District, Beijing, 100029, CHINA  
Tel./Fax: +86 10 8299 8284, Mobile: +86 13910509506  
Email: [iaegsg@163.com](mailto:iaegsg@163.com)

## Letter of Appointment for TOC

The Executive Committee of IAEG, at the midyear meeting on May 28-29, 2016, London, UK, has made the decision for the new term of TOC - Technical Oversight Committee:

Scott Burns will chair the TOC, and all the Executive Committee members will be the TOC members since January 1<sup>st</sup> 2017. The vice presidents will take responsibility of the 17 active Commissions:

Jeffrey R Keaton - C01, C19 and C21

Mark Eggers - C4, C25 and C34

Maria Heloisa Barros de Oliveira Frascá - C10 and C17

Louis van Rooy - C16 and C29

Yogendra Deva - C28 and C32

Rafiq Azzam - C20 and C24

Giorgio Lollino - C35, C36 and C37

President (Signature):

Secretary General (Signature):

January 1st 2017

## IAEG Executive Committee Upcoming Midyear Meeting

The IAEG Executive Committee Midyear Meeting is going to take place in London, UK on April 22-23, 2017. The meeting will keep discussing the IAEG Strategy Plan, concentrating on the implements and operations of the Strategy Plan, several issues proposed by the Executive Committee regarding Fee Structure, Membership, TOC work, Bulletin, Management Committees, Role of Engineering Geology, Website Improvement Work are going to be taken into consideration at the working meeting.

## Secretary General Attended the KSEG Spring Conference

Faquan Wu, the Secretary General of IAEG, met the leaders of IAEG Korean National Group and gave a key lecture at the Spring Conference of Korean Society of Engineering Geology (KSEG) on April 6-7th, 2017 in Yeosu, Korea.

The KSEG organizes two seasonal conferences each year in Spring and Autumn. Faquan Wu was invited to attend the 2017 Spring Conference of KSEG and give key lecture on "Infrastructure construction and engineering geology in China" on Thursday afternoon. Around 200 delegates attended the conference.

Faquan Wu met the leaders of the Korean National Group at a special meeting Friday morning and discussed the IAEG related issues with them.

The representative of the NG, professor Bo-An Chang expressed the intention of the NG to organize the 12th IAEG Asian Regional Conference in Korea in 2019 and their plan for the application. Faquan Wu warmly welcomed and encouraged their intention, and suggested them to send an official letter to the secretariat and prepare a 5 minutes presentation for the application statement at the Council meeting. Faquan also suggested that the Korean NG inviting the IAEG Executive Committee and Council to have the annual meeting in 2019 at the occasion of the conference. Faquan also encouraged the Korean NG to increase the number of their members and improve the services to them. The leaders of the Korean NG express their gratitude to the encouragement and supports from IAEG and willingness to recruit IAEG members and promote the IAEG activities in Korea.



Key Lecture at the Spring Conference



Group Photo with Prof. Gyo-Cheol Jeong and Prof. Bo-An Jang

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## NEW FACE OF IAEG WEBSITE

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We are very grateful to inform you that IAEG new website is now online ([www.iaeg.info](http://www.iaeg.info)), the new CMS platform of the website is Umbraco, a more robust, efficient and secure system, a more powerful web statistic engine. Thank you for the editorial team who have made great contributions to the new website!

The new website has set the restricted areas which are only open to IAEG members, the web editor has sent an email to each IAEG member by email with credential, IAEG members can use the credential to login on the website to gain the access to website restricted areas. The IAEG members have to use the email address submitted to their National Group and the password assigned by Web Editor. After the first login, the user may change the password. If you have any problems during the login process, please contact Web Editor ([giorgio.lollino@irpi.cnr.it](mailto:giorgio.lollino@irpi.cnr.it)) for help.

### Webletter Available By Email

[View this email in your browser](#)



Our Web Editor Giorgio Lollino and the Web Editorial Board are also devoting to updating the IAEG Official Webletter to share with each IAEG member the upcoming events, initiatives, publications and the latest news from the world of IAEG, all IAEG members can receive each Webletter from [webletter@iaeg.info](mailto:webletter@iaeg.info) by email.

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Please check IAEG social media:

**Facebook:** <https://www.facebook.com/IAEG2016>

**Twitter:** [https://twitter.com/IAEG\\_World](https://twitter.com/IAEG_World)

**Linkedin:** <https://www.linkedin.com/groups/3109098/profile>

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## NEW FACE OF IAEG WEBSITE

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### Call for New contents for IAEG Webinar

The Web Editorial Board team is focused on collecting news and events that can be posted on the new website. We wait for your propositions. Please enrich everything with beautiful photographs.

The Web Editor is calling for new contents for IAEG Webinar to improve the number of 30-40min presentations on specific subjects concerning engineering geology. The Webinar can be self-recorded, and it is recommended to follow the instructions on: <http://iaeg.info/lectures-webinars/webinars/>

The proposed procedure is just one of the existing ways, simple and low-cost, to produce a webinar. However, if you prefer different way to record the lecture, please send the recorded file to the IAEG Web Editor ([giorgio.lollino@irpi.cnr.it](mailto:giorgio.lollino@irpi.cnr.it)).

Please note that there is a special section of Webinar dedicated to young members of IAEG, who feels that can be protagonist for the growth of our Association. Young members can propose case studies or projects that they or their colleagues have been involved in.

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## MEMBERSHIP UPDATE 2017

Secretariat has been calling for the updated 2017 membership since February of this year. For Bulletin subscription and delivery in time, it's highly appreciated for NGs to update the information of membership as soon as possible. For NGs who have not submit the updated membership yet, please help finish your NG membership as soon as possible and send it back to the Secretariat soon.

VP	NO.	NG	Total members	With B.	Without B.	Associate member
Mark Eggers	1	Australia				
	2	New Zealand	400	109	231	0
Giorgio Lollino	3	Albania				
	4	Austria	22	11	11	0
	5	Bulgaria	10	10	0	0
	6	Croatia				
	7	Cyprus				
	8	France				
	9	Georgia	10	1	14	0
	10	Greece				
	11	Hungary				
	12	Italy				
	13	Portugal				
	14	Romania				
	15	Serbia				
	16	Slovenia				
	17	Spain	49	49	0	0
	18	Switzerland				
	19	Turkey	132	9	123	0
Rafiq Azzam	20	Netherlands	33	33	0	0
	21	Lithuania				
	22	United Kingdom				
	23	Belgium				
	24	Czech Republic				
	25	Denmark				
	26	Estonia				
	27	Finland				
	28	Germany	20	1	49	0
	29	Iceland				
	30	Ireland				
	31	Norway				
	32	Poland				
	33	Russia				
	34	Slovak Republic				
35	Sweden	33	33	0	0	
Louis VanRooy	36	Algeria				
	37	Nigeria				
Jeff Keaton	38	South Africa	148	33	110	0
	39	Canada				
Maria Heloisa	40	Mexico				
	41	USA				
	42	Argentina				
	43	Brazil				
Yogendra Deva	44	Colombia	19	10	3	0
	45	Paraguay				
	46	Peru				
Yogendra Deva	47	China P.R.				
	48	Hong Kong SAS				
	49	India	100	20	74	0
	50	Indonesia				
	51	Iran				
	52	Japan				
	53	Korea				
	54	Malaysia				
	55	Nepal				
	56	Singapore	120	3	117	0
57	SEAGS					
58	Vietnam					
Total			Updating...			





Milan Matula  
Obituary

Prof. Milan Matula, professor of Engineering Geology, died at December 26, 2016. He was 92. Professor Matula was a key person in the development of Engineering Geology when this discipline was emerging in the Geoengineering field. He has been vice president of IAEG in the 80's and had a most contributing role in IAEG activities during its first period of its development and thereafter. He was the president of the commission of Engineering Geological Maps a commission with so useful outcome and a guide book published by UNESCO.

Throughout his career, Prof. Matula held positions at the Faculty of Natural Sciences, Comenius University in Bratislava. He is considered to be the father of modern Engineering Geology in Slovakia both as scientific discipline as well as an important tool

for practitioners dealing with various kinds of constructional activities. Under his guidance, since 1952, the Department of Engineering Geology, initially within Czechoslovakia, became an internationally recognized centre of education and research. He focused his research on regional studies closely connected with engineering geological mapping namely with standardization of principles, systems and methods for their preparation. This effort resulted in the multi-authored-guidebook (M. Arnould, W.R: Dearman, etc.) prepared for UNESCO by the IAEG Commission on Engineering Geological Maps under the chairmanship of Prof. Matula. The guidebook published in 1976 gives the state-of-the-art of the experience from various countries where engineering geological mapping was already undertaken at an advanced level and later on served as practical tool for assessing and implementing engineering geological phenomena affecting the engineering use of different terrains around the world.

Prof. Matula was the first who described the engineering geological conditions of Western Carpathians in the book Regional Engineering Geology of Slovakia, published also in English (1969), later on was the chief-editor of engineering geological maps at the scale 1:200 000 covering whole territory of Slovakia (1988).

Prof. Matula was the author of more than 160 papers, 12 monographs and several text books. In 1968 at the occasion of the 23th International Geological Congress in Prague Prof. Matula was elected within new created IAEG as the chairman of the Commission on Engineering Geological Maps (1968-1984), in 1982 in New Delhi was elected as the IAEG vice-President and in 2001 in Helsinki he was given the IAEG honorary membership. During his international activities mostly within IAEG he delivered 40 general and panel reports (Prague 1968, Montreal 1972, Sao Paulo 1974, Sydney 1976, Madrid 1978, Newcastle 1979, Paris 1980, New Delhi 1982, Moscow 1984, Buenos Aires, 1986, Beijing 1987, etc.).

Prof. Matula had retired in 1989. However his activity and interests on several issues concerning engineering geology remained and he wrote the book "Engineering Geology in Land-use Planning (1995). It was a great pleasure to have known him as the teacher, supervisor and colleague, both for the majority of Slovak and Czech engineering geologists and international community, as well.

His scientific legacy is well rooted in the Comenius University.

Jan Vlcko  
Chairman of Slovak  
Association of  
Engineering Geologists

Paul Marinos  
Past President of the International  
Association of Engineering  
Geology and the Environment (IAEG)



António Gomes Coelho  
**Obituary**

António Gomes Coelho passed away last 21st February.

Graduated in Geology at the Lisbon University, he started his Engineering Geology activity as Trainee at the Civil Engineering Laboratory (LNEC) in Portugal, in 1972.

He followed a bright research career at LNEC, where he got the degree of Specialist (PhD level) in Engineering Geology (1980) submitting the thesis "Engineering Geological Mapping of the Setubal area" and of Principal Research Officer (Full Professor level) in Geotechnics(1991) submitting the research program "Seismic Microzonation".

He became Head of the Engineering Geology Division in 1990 and Director of the Geotechnical Department in 1998 until his retirement from LNEC in 2002.

Since then, he became Senior Consultant of COBA, Engineering and Environment Consultants, until his decease, namely in the field of seismo tectonic subjects related namely to Dams, Underground Works and Motorways.

He gave the outstanding Memorial Manuel Rocha Lecture "The problem of active faults in Civil Engineering" in 2005.

He was President of the Portuguese Association of Geologists (APG), Vice President of IAEG for Europe, Vice-President of the Portuguese Geotechnical Society (SPG), member of the Portuguese Academy of Engineering, and of the Association of Engineers.

He attended more than 60 national and international Congresses and Symposia all over the world and was author of more than 50 scientific and technical papers and 90 LNEC reports.

He taught some MSc courses at universities in Portugal and Brazil and he has been Examiner of several PhD and MSc thesis

He was a brilliant person, very kind and intelligent, having an outstanding culture and a remarkable sense of humor. These were the main reasons why he made so many friends in Portugal and all over the world.

We miss him very much.

Ricardo Oliveira  
Past President of the International  
Association of Engineering Geology and the Environment (IAEG)

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## EVENTS OF IAEG NATIONAL GROUP

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### New President Elected for Bulgaria National Group

The previous president of Bulgaria National Group, Prof.D.Evstatiev decided to resign his position as the president of the Bulgarian National Group of Engineering Geology at the end of 2016. Because of this the members of the BNGEG launched electronic voting and choose the new leadership of the group as follows:

President of BNGEG- Assoc.prof. Kiril Anguelov /

e-mail: [angelov@bondys.bg](mailto:angelov@bondys.bg)

Secretary of BNGEG- Assoc.prof. Ivailo Ivanov /

e-mail: [bulgeo@dir.bg](mailto:bulgeo@dir.bg)

### New President Elected for Canada National Group

Since January 1, 2017, Dr. Dharma Wijewickreme will become the Canadian Geotechnical Society President (2017-2018) and also the new president of Canada National Group.

President of CGS: Dr. Dharma Wijewickreme /

email : [President@cgs.ca](mailto:President@cgs.ca)

CGS Representative: Nicholas Vlachopoulos /

email : [vlachopoulos-n@rmc.ca](mailto:vlachopoulos-n@rmc.ca)

Secretary of CGS : Lisa McJunkin / email : [Admin@cgs.ca](mailto:Admin@cgs.ca)

### New President Elected for Germany National Group

The previous president of Germany National Group, Prof. Rafiq Azzam retired from the position as the president of DGGT, Prof. Kuroschi Thuro becomes the new president of the Germany National Group. Secretary of the Germany National Group remains the same.

President of Germany National Group: Prof.Kuroschi Thuro /

email : [thuro@tum.de](mailto:thuro@tum.de)

Secretary of the Germany National Group:Kirsten Laackmann /

email : [service@dgg.de](mailto:service@dgg.de)

### Belgium National Group - News and Activities

The SBGIMR-BVIGRM, Belgian National group of the IAEG, held its annual meeting recently in March.

In 2016, the SBGIMR-BVIGRM (Belgian Society for Engineering Geology and Rock Mechanics) had 58 members, among which 43 are IAEG members. Several activities were organized in 2016:

- 21 April, Flémalle: Annual Meeting 2016 and studyday on the Hénâ

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## EVENTS OF IAEG NATIONAL GROUP

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heap (31 participants among which 29 members of the society)

- 2 June, Pulvermühle (G.D. Luxemburg): visit on the Pulvermühle Viaduct worksite, in collaboration with UBLG-BLUG, the Belgian-Luxemburg Union of Geologists (12 participants among which 9 members of the society)

- 9 November, Namur: studyday on mine heaps (59 participants among which 16 members of the society)

In addition, several Council meetings were held during the year (27 Januari, 1st July, 9 September, 25 November).

A big project for the year 2016 is the development of our new website: [www.sbgimr-bvigrm.be](http://www.sbgimr-bvigrm.be)

### China National Group -The 10th Congress of Engineering Geology of China on 13–21 October 2016 in in Chengdu, China

The 10th Congress of Engineering Geology of China was successfully held on October 13-21, in Chengdu, Sichuan Province, China. It was participated by nearly 1500 delegates. It is the first time for the Congress to have had more than one thousand participants. The Congress set up six sub-venues, one special lecture and one youth-exclusive lecture. The topics include transportation,energy, ocean,city and other major engineering geology problems in the one Belt and one Road Initiative, new theories and technology of engineering geology,education and development of engineering geology. It had 21specially invited reports, 58keynote reports,220 group reports and 19 youth-exclusive reports. It provided a board



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## EVENTS OF IAEG NATIONAL GROUP

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platform for domestic and foreign experts to communicate with each other widely and deeply. This Congress demonstrated the rich achievements of engineering geology fundamental research in China, embodied the innovative and practical application of engineering geological technology, and highlighted the development of engineering practice which serves for the national strategy and spirits to difficulties and hot spots. China's engineering geology is developing prosperously, and making more and more international influence.

### 14th International Symposium on Geo-Disaster Reduction on 10–13 October 2016 in Chengdu, China



Photo of Plenary lectures presented by Prof. Scott Burns (a), Prof. Peng Cui (b), Prof. Huiming Tang (c), Prof. Nicola Casagli (d) and Prof. Masakatsu Miyajima (e) during the High Level Forum

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## EVENTS OF IAEG NATIONAL GROUP

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State-province Joint Engineering Laboratory of Spatial Information Technology for High Speed Railway Safety, Southwest Jiaotong University organized the 14th International Symposium on Geo-Disaster Reduction (ISGdR) in Chengdu, China on 10–13 October 2016 (Fig. 1). This series of international symposiums has been an instrumental forum for the “Global Strategy for Geo-disaster Reduction” which attracted more than one hundred geoscientists and engineers working in the field of geo-disasters from six countries and 63 excellent academic presentations. The symposium has been divided into four major sections: High Level Forum, Keynote Lectures, Invited Lectures and Young Researcher Forum, offering an opportunity to discuss the latest developments in the field of Geo-disaster Reduction. In addition to the main sessions of the symposium, pre-event, side-events and post-event were also organized before, during and after the symposium.

### Germany National Group Organizing 2017 National Congress

The Germany National Group together with the GermanGeotechnical Society is organizing a National Congress called "Fachsektionstage Geotechnik" from 6-8th September, 2017 in Würzburg, Bavaria, Germany. Currently the program is worked out and will be distributed at the beginning of April 2017. 40 talks will be presented in 4 Sessions over 2 days, 16 talks will be presented in the session of the Young Engineering Geologists. One field trip to the "salt city" Bad Kissingen will be organized.

Topics will be abrasivity & excavation problems, tunnelling, geothermal systems, large infrastructure projects, natural & engineered slopes, visualization of complex geological structures, laboratory testing, construction in karst structures. The presentations will be mainly in Germany language.

### Japan National Group Activities and News

#### Activities in 2016

##### 1) VietGeo2016

VIETGEO 2016 was held on 22–23 Nov., 2016 at Muong Thanh Quang Ninh Hotel, Halong City, Vietnam. The conference was organized by VNU University of Science, Vietnam National University (HUS-VNU), Vietnam Association of Engineering

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## EVENTS OF IAEG NATIONAL GROUP

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Geology and the Environment (VAEGE), and Japan Society of Engineering Geology (JSEG). It was held as an international joint conference after the successful 10th Asian regional conference held in Kyoto, Japan, 2015.

About 80 participants, including 13 Japanese, attended the meeting. In Vietnam, sustainable development of coastal areas is a vital geo-engineering issue, therefore the theme of the conference was “Geological and Geotechnical Engineering in Response to Climate Change and Sustainable Development of Infrastructure”. Four technical sessions were organized. They were Climate change impacts and the adaption, Engineering geology for sustainable development of infrastructure, Landslides, and Environmental geotechnics.

On the second day, many participants enjoyed a tour cruise on Halong Bay, which is a UNESCO World Heritage Site and features thousands of limestone karsts and isles in various shapes and sizes. The conference was successful especially to promote relationship of engineering geologists between Vietnam and Japan.



Group photo of VietGeo2016

### 2) Annual Study Meeting 2016

The annual study meeting of JSEG was held at Senadai in Northeast Japan on October 26 - 28, 2016. About 300 members participated in this meeting and following visited Pacific coastal areas which were attacked by terrible Tsunami of Great East-Japan Earthquake on March, 2011.

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## EVENTS OF IAEG NATIONAL GROUP

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### News

#### 1) Awarded by Japanese Government

Prof. Masahiro Chigira, chairman for Japan National Group is the winner of the Prize for Science and Technology by the Japanese Ministry of Education, Science and Technology, in April 2017. His excellent international research of deep-seated landslide has been praised.



Prof. Masahiro Chigira

#### 2) Forthcoming events

##### 1) Report of the 2016 Kumamoto Earthquake (April)

The 2016 Kumamoto Earthquake occurred on April in the middle area of Kyusyu , southwest of Japan. Seven terrible shocks continuously attacked in three days. JSEG formed investigation teams of about 40 members of engineering geologists just after the earthquake. Investigation team will present the investigation report and discuss with local people to remedy dreadful disasters.



#### JSEG investigation team

2) JpGU meeting 2017(May), English Prof. Masahiro Chigira performed the program committee and convener of the session of Landslides in Japan Geoscience Union Meeting 2017 on 24 May.

##### 3) JSEG General meeting and Symposium (June)

JSEG will have the General Assembly for 2016-2017 in Tokyo on June 9. Annual technical symposium of a theme "Activity of Outreach for disaster prevention" will be held.

##### 4) Annual Study Meeting 2017(October)

The annual study meeting of JSEG will be held at Okayama in West Japan on 12 - 13 Oct., 2017.

##### 5) Slope Tectonics Conference (October), English



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## EVENTS OF IAEG NATIONAL GROUP

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The 4th Slope Tectonics Conference will be held at Kyoto University on 14-18 Oct. 2017. They will have two days meeting and following three days field trip in the Kii Mountains, a world heritage. Chair of Scientific Committee is prof. Masahiro Chigira

6) 11th IAEG Asian Regional Conference (November)

JSEG and Japan National Group will cooperate with Nepal National Group for 11th IAEG Asian Regional Conference which will be held in Nov. 2017, in Kathmandu.



Deep-seated landslide

## Korea National Group Submitted Application for Holding the 12th IAEG Asian Regional Conference

The Korea National Group, the Korean Society of Engineering Geology(KSEG) has submitted an application letter to IAEG wishing to get the opportunity to host the 12th IAEG Asian Regional Conference in Jeju Island, Korea in 2019. It is planned to celebrate the 30th anniversary of the establishment of the KSEG together with the 12th ARC.

This year the Korea National Group will also send the representatives to attend the 2017 IAEG Council meeting and present the proposal to the Council for approval.

### **Application Letter From Korea National Group:**

Dear IAEG and National Group representatives,

On behalf of the Korean Society of Engineering Geology (KSEG) and as the President of the KSEG, along with Prof. Bo-An Jang, the Korean national representative to IAEG and Prof. Yong-Seok Seo, Chair of the Organizing Committee of the 12<sup>th</sup> Asian Regional Conference (ARC), I am very pleased to present this candidacy to host the 12<sup>th</sup> ARC of IAEG in 2019. The conference will be held in October or November 2019 on Jeju Island, Republic of Korea.

The candidacy will be fully supported by all major institutions in Korea with a focus on engineering geology and also by the government of Jeju Special Self-Governing Province. During the conference, all participants, from not only the Asian region but from other countries, will be able to share state-of-the-art knowledge and practical experience in engineering geology.

Jeju Island is located southwest of the Korean Peninsula. This world-famous volcanic island, of which more than 90% is covered by basalt, is a UNESCO Biosphere Reserve (2002), a UNESCO Natural Heritage Site (2007), and a UNESCO World Geopark (2010) due to its breathtaking beauty. Jeju Island offers modern conference venues, hotels, infrastructure, and many sites of interest. We believe that Jeju Island has all the infrastructure necessary to ensure a memorable conference. In addition, we are confident of successfully hosting the 12<sup>th</sup> ARC of IAEG, given our experience in hosting the 6<sup>th</sup> ARC of IAGE in 2007 at Seoul, Republic of Korea.

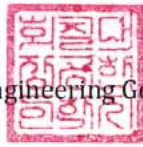
I am convinced that the 12<sup>th</sup> ARC in Korea in 2019 will be a great occasion. KSEG is more

than prepared to deliver its best to make the conference a successful and memorable event.

I believe that Korea's candidacy will be successful and that we will have great cause to celebrate the 30<sup>th</sup> anniversary of the establishment of KSEG.

Respectfully Yours,

Prof. Chung-Hwa Park  
President of the Korean Society of Engineering Geology  
Vice President of Daejeon University



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## EVENTS OF IAEG NATIONAL GROUP

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### Malaysia National Group - The Society for Engineering Geology and Rock Mechanics Malaysia (SEGRM) formed

After several meetings, the Malaysia National Group for IAEG and ISRM has agreed to jointly form the new society namely the Society for Engineering Geology and Rock Mechanics Malaysia (SEGRM). The SEGRM was formally formed on 16th August 2016 with the following emblem.



The main aim is to make contributions in academic and technological advancement through research and international cooperation among the scholars and practitioners in the field of engineering geology and rock mechanics. Members of SEGRM will automatically be a member of both IAEG and ISRM. However, for those who want the Bulletin of IAEG need to pay extra. Among the SEGRM upcoming activities are:

- i) To support and participate in Southeast Asian Conference and Exhibition in Tunnelling and Underground Space 2017 on 18-19/4/2017 organised by Tunnelling and Underground Space Division, Institution of Engineers Malaysia.
- ii) To organise the first Annual General Meeting together with Seminar on Engineering Geology and Rock Mechanics and Workshop on Landslides Monitoring on 4/5/2017.
- iii) To co-organise the Thematic Session on Engineering Geology and Rock Mechanics as part of National Geoscience Conference 2017 organised by Geological Society of Malaysia. The event shall be on 9 and 10th October 2017 and in conjunction with the 50th anniversary of the Geological Society of Malaysia.

We are still trying to gather enough delegates to support the 11th Asian Regional Conference of IAEG in Kathmandu, Nepal.

### Netherlands National Group - Autumn Symposium of the Ingeokring 2016: Geotechnical Earthquake Engineering

Culture Centre Delft University of Technology, 18 November 2016 The symposium was very well attended. More people than the attendance limit, which was set at 100, were present. Apart from a considerable number of members of the Ingeokring, a large part of the audience consisted of scientists and engineers that came especially for the subject matter. The symposium covered three

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## EVENTS OF IAEG NATIONAL GROUP

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groups of topics: Natural Earthquakes (Wenchuan 2008 disaster; Roermond 1992), Induced Earthquakes (focussed on the Groningen gas extraction induced seismic events) and Engineering Studies (modelling for engineering design and subsoil-structure interaction studies). It proved to be a very interesting afternoon, with a concentrated audience attentively following the presentations, and actively participating in the panel discussions.

For more information about the symposium, please visit :

<http://www.ingeokring.nl/pages/news.php>



Keynote Lecture of Niek Rengers, the past President of IAEG



First panel discussion. From left to right Michiel Maurenbrecher, Niek Rengers, Anita Laera, Siefko Slob and Frederico Pisano

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## EVENTS OF IAEG NATIONAL GROUP

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### Price Prize and activities 2017

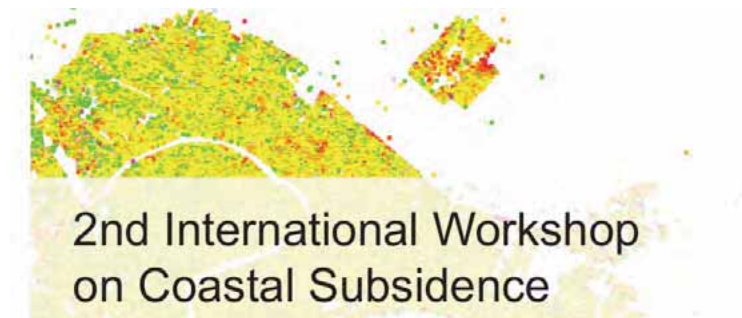
At the end of the meeting the Professor Price Prize of 2016 was awarded to Hans Roest by the Board of the Ingeokring. Milcar Vijlbrief handed the Ammonite fossil to a surprised recipient. Peter Verhoef gave a congratulations speech, memorizing the value of the work that Hans has done the past 40 years and its relevance for society.

The main activities of the Ingeokring in 2017 will be:

The CPD (continuous professional development) course "Rock mass Classification". In spring a weekend workshop consisting of a symposium on the applications of RMR for design and fieldwork will be held in the Eifel under the leadership of Dr. Robrecht Schmitz, chairman of the Ingeokring.

Next year's Autumn Symposium will deal with data management under the work title "5D-IT and Engineering Geology". More information can be found on [www.ingeokring.nl](http://www.ingeokring.nl).

### Italy National Group-The 2nd International Workshop on Coastal Subsidence



On May 30th - June 1st, 2016 the 2nd International Workshop on Coastal Subsidence took place in Venice, Italy with great success. This is the second event of a series of International Workshops on Coastal Subsidence initiated in 2013 at New Orleans, LA. Subsidence is generated by numerous natural and anthropogenic processes. Land subsidence is a widespread phenomenon, particularly relevant to transitional environments, such as wetlands, deltas, and lagoons, characterized by low elevation with respect to the mean sea level. The influence of land subsidence on hydrogeological hazard and sustainable development of coastlands is often underestimated with respect to sea level rise. However, in many places human-induced subsidence (often superimposed on subsidence due to natural processes) is orders of magnitude higher than sea-level rise,

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increasing vulnerability for flooding and salt intrusion, threatening agriculture and ecological functions. Quite often, especially at the onset of the occurrence, land subsidence goes unnoticed as it affects a large portion of the territory (up to thousands of square kilometres) and usually occurs at slow velocity, only discovered when severe damages are observed. At this stage, undertaking effective remedial measures to mitigate the associated environmental and socio-economic impacts may prove tremendously expensive. The goal of this workshop series is to assemble a team of international experts to re-examine our understanding of coastal subsidence drivers, to explore new paths forward in subsidence prediction, and to define best practices for integration of subsidence science into coastal risk assessments. With the new millennium, improved methods for measuring changes of land surface elevation, the application of geophysical modeling, the development of advanced mathematical models have greatly advanced our understanding of potential rates and mechanisms of subsidence and provide valuable tools for planners and resources managers in coastal areas throughout the world. However, many uncertainties remain about the rates and spatial distributions of present and future subsidence at a time when low elevation coastal areas are under increasing threat from rising sea levels and severe storms. Also today, large coastal cities and deltaic regions, mainly in the developing or newly-development countries, are strongly threatened by large subsidence rates.

### Russia National Group - The 80th Birthday OF The President

On April 15, 2017, **Prof. Dr. Victor I. Osipov** (Russia) celebrates his 80th birthday. Victor Osipov is well known to the engineering geological community all over the world. He is the full member of the Russian Academy of Sciences, Director (1990-2016) and Scientific Advisor (since 2016) of the Sergeev Institute of Environmental Geoscience RAS,



President of the Russian national group IAEG. Prof. Victor OSIPOV is the leading Russian scientist in environmental geoscience, engineering geology, soil and rock engineering. V.I. Osipov has contributed to the world and Russian science with the considerable achievements in the prediction, study of mechanisms and regularities

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## EVENTS OF IAEG NATIONAL GROUP

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of the development of geological hazards, natural risks assessment theory, and minimization of natural disasters consequences. His works in the area of natural safety of megacities and industrial centers, the development of monitoring systems and engineering protection of territories from natural hazards are well known both in Russia and abroad. The area of his scientific interest also includes soil and rock engineering, investigation of soil composition and properties, physicochemical soil mechanics. He has developed a new theory of effective stresses in soils, which takes into account the internal stresses caused by the molecular, electrostatic, and structural mechanical forces.

Being a student and the follower of academician E.M. Sergeev (1914-1997), Victor Osipov graduated from the Moscow State University, and for more than 40 years he was engaged in the education of university students in engineering geology and soil engineering. About 40 PhD dissertations and a lot of MSc diploma projects were performed under his guidance. Now, V.I. Osipov is an honorary professor of the Moscow State University.

V.I. Osipov is the author of more than 600 scientific publications (including 13 monographs and 20 patents of inventions). His scientific achievements were recognized by a number of governmental prizes and honorary awards in Russia.

Prof. Victor Osipov is undoubtedly a scientist of international repute. He maintains professional contacts with many prominent researchers in engineering geology all over the world. He is an honorary professor of the Geological Institute of Chinese Academy of Science. In different years he was a lecturing professor at the universities of USA, Japan, China, Canada, the Netherlands, Germany, and Poland.

Prof. Victor Osipov has contributed significantly to the International Association of Engineering Geology and the Environment. In 1986-1990, he took the office of Vice President IAEG for Europe; and for many years, he remains the leader of the Russian national group IAEG. In 2012, his professional achievements on the international level were marked by the highest IAEG award, i.e., the Hans Cloos medal.

International Association of Engineering Geology and the Environment heartily congratulates Victor Osipov with his anniversary and wishes good health and further scientific achievements and creative deeds to him for many years ahead.



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## EVENTS OF IAEG NATIONAL GROUP

### Singapore National Group - Organizing the 10th Asian Rock Mechanics Symposium in 2018



The Singapore national group is going to organize the 10th Asian Rock Mechanics Symposium (ARMS 10) on 29 October – 3 November, 2018, in Singapore. The ARMS 10 is the International Symposium for 2018 of the International Society for Rock Mechanics (ISRM), and will be jointly organised by the Society for Rock Mechanics and Engineering Geology (Singapore) and the Chinese Society for Rock Mechanics and Engineering. Please visit the website [www.arms10.org](http://www.arms10.org) for further details and registration of interest.

### USA National Group - Engineering Solutions for Sustainability: Materials & Resource 3 –Toward a Circular Economy held on February 18/19,2017 in Denver, Colorado



Just under 60 experts from the industry, academia, government, and NGOs participated in this multi-sector symposium with the objectives of networking with their peers and taking back best practices for their organizations. Planning partners for the event included AIME, SME, SPE, TMS, AIST, ASCE, and AICHE. The promotion partners included AES, AEG, CGS, IAEG, and GSA (see

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## EVENTS OF IAEG NATIONAL GROUP

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banner of organization logos). The focus of the symposium was on the circular economy, which is described as an alternative to a traditional linear economy (i.e., make, use, dispose) in which we keep resources in use for as long as possible, extract the maximum value from them whilst in use, then recover and products and materials at the end of each service life (source: [www.wrap.org.uk](http://www.wrap.org.uk)).

A circular economy requires: 1) raw material and energy inputs, 2) feasible engineering solutions, 3) cross-sectoral flows and linkages, 4) effective policy measures, and 5) education and research.

This event was the third in a series on sustainability that started in 2009 (the first one helped launch the SPE sustainability technical section). Some of the key focus areas from the prior two workshops included:

The engineering system must be affordable and protective of the environment, and it must be consistent with public policies that adequately address the technical challenges across sectors

The system must meet the user's needs over its life cycle, and it must ensure that both short and long term operational goals are appropriately considered

The system must be acceptable to those affected by its existence

Innovation is needed in how resources are produced and managed

Building on these themes, the various panels at the symposium explored the interdependent roles each play in bringing about a sustainable future. The outcome of these discussions resulted in a vision for a sustainable world where affordable and reliable resources support the social, economic, and environmental needs of a growing population. Some of the key takeaways are:

The role of science and technology has to be better valued by the society as one of the most important pillars of sustainability and circular economy

Design and manufacture with disassembly and/or recycling in mind

Mineral resources have by-products that should be captured and utilized (e.g., produced water); need to shift from primary to secondary resources to move from linear to circular

Companies require a pro-business approach for the circular economy that is integrated as part of the business plan, is adaptive, and reflects an understanding of the cost/benefit relationship of various initiatives; business as usual will not get us to where we want to be  
Keep the message simple so everyone knows how they fit

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## EVENTS OF IAEG NATIONAL GROUP

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There is a need to re-envision technical sub-disciplines – need methodologies/tools to share with working professionals

When consuming water, out of sight isn't out of mind (i.e., focus on the importance of groundwater)

Innovation is needed to advance the principles of sustainability, yet it can be stifled by standards and regulations; regulators and industry need to be partners

Do the right projects and do them right, e.g. focus on the outcome; define the problem and solve with diversity of thought, experiences, and professions

There is a call to action for multi-discipline and multi-sectoral professional societies and regulators

Our universities need to lead / participate in educating professionals with this multi-perspective view

For additional details on the symposium, visit [www.ime.org/programs/collaborative-efforts/sustainability/ess-mr3](http://www.ime.org/programs/collaborative-efforts/sustainability/ess-mr3).

The ESS:M&R III symposium was sponsored by AIME and its member societies: Society of Mining, Metallurgy, and Exploration (SME-AIME), The Minerals, Metals, and Materials Society (TMS), Society of Petroleum Engineers (SPE), and Association for Iron & Steel Technology (AIST). The symposium was cohosted by the American Institute of Chemical Engineers (AIChE) and the American Society of Civil Engineers (ASCE). Five organizations were promotional partners, including IAEG.

The symposium was delivered in a welcoming session, eight oral presentation sessions, and on poster presentation session.

**SUSTAINABLE DEVELOPMENT AND THE CIRCULAR ECONOMY**

**CASE STUDIES: CHALLENGES & SUCCESSFUL BUSINESS MODELS**

**EDUCATING THE FUTURE ENGINEER**

**WATER**

**POSTER SESSION AND NETWORKING RECEPTION**

**BUILDING BLOCKS FOR THE CIRCULAR ECONOMY**

**SYSTEM IMPLEMENTATION**

**ENVIRONMENTAL/WASTE**

**FUTURE VISIONS FOR THE CIRCULAR ECONOMY**

A representative from the Ellen MacArthur Foundation described interesting ways that business models are being set up: The largest

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“taxi” company in the world owns no vehicles – it sells mobility. (it is Uber).

A materials engineer said that the Boeing Company uses lots of aluminum in the frames of its commercial aircraft, but it buys no aluminum – Alcoa does not want to sell aluminum; it wants to lease aluminum because of the high value it has for reuse.

An economist pointed out that most of the decisions that seem to be based on economic reasoning have not been tested and the social aspects are challenging – do you really want to buy a washing machine that is designed to last 20 years? Or would you be better off leasing a washing machine that gets upgraded periodically as new technology improves the carbon footprint.

It was a very interesting symposium, and one in which IAEG should participate in future years.

# /6. EVENTS OF IAEG COMMISSION

As proposed by the previous president of C35, Giorgio Lollino, the Commission 35 has the president changed, Dr. Daniele Giordan is appointed as the new president of C35.

	<b>President:</b>	Prof. Scott Burns
	<b>Past President:</b>	Prof. Carlos Delgado
	<b>Secretary General:</b>	Prof. Wu Faquan.
	<b>Treasurer:</b>	Dr. Jean-Alain Fleurisson
	<b>Editor in Chief of Bulletin:</b>	Prof. Martin G. Culshaw
	<b>Web Editor in Chief:</b>	Prof. Giorgio Lollino
	<b>Vice Presidents</b>	
	Africa:	Prof. Louis Van Rooy
	Asia:	Dr. Yogendra Deva
	Australasia:	Dr. Mark Eggers
	Europe:	Prof. Giorgio Lollino
	North America:	Prof. Rafiq Azzam
	South America:	Dr. Jeffrey Keaton
		Dr. Maria Heloisa Frascá

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IAEG Secretariat:  
Shaoxing University  
No. 508 Huanchengxilu, Shaoxing City, Zhejiang Province, 312000, CHINA  
Tel./Fax: +86 -0575 -8834 6551, Mobile: +86 13910509506  
Email: [iaegsg@163.com](mailto:iaegsg@163.com)

## Appointment of the New President for Commission 35 of the International Association of Engineering Geology and the Environment

As proposed by Giorgio Lollino, the President of Commission 35, that Commission 35 will be taken over by the new President, Daniele Giordan. We are pleased to appoint Dr. Daniele Giordan as the new President of IAEG Commission No.35 Monitoring Methods and Approaches in Engineering Geology Applications from January 1st, 2017.

President (Signature):

Secretary General (Signature):



January 1st 2017

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## EVENTS OF IAEG COMMISSION

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### The First International Symposium on Marine Engineering Geology

The first International Symposium on Marine Engineering Geology (ISMEG2016) was held in Qingdao, China, from 21st to 23rd, October, 2016. The symposium was jointly sponsored by the Marine Engineering Geology Commission (C34), International Association for Engineering Geology and the Environment (IAEG) and the Ocean Geological Commission of the Geological Society of China Geological Society, and was jointly hosted by Ocean University of China, Shandong Province Key Laboratory of marine environment geological engineering and Qingdao National Laboratory for Marine Science and Technology. More than 200 participants, including experts, professors and young scholars from 68 colleges, research institutes and publishing houses at home and abroad, attended the symposium, showing the rapid development of marine engineering geology in recent years.

Yogendra Deva, the IAEG Vice-president for Asia, Faquan Wu, the Secretary General of IAEG, Yaoru Lu, an academican of Chinese Academy of Engineering, Manchao He, an academican of Chinese Academy of Sciences, Weiran Li, the vice-president of Ocean University of China, Jianxin Wang, a deputy director of Department of Science and Technology of Shandong province and Yu Liu, a director of national natural science foundation of China attended along with other guests. Dong Wang, the professor of college of environmental science and engineering in Ocean University of China hosted the ceremony. The theme of the meeting is "Ocean engineering geology and protection of geological hazard". The meeting developed communication about the special subjects which include engineering characteristics of marine sediments, marine geological disasters, engineering geology of the coastal zone, the exploration technology of marine engineering geology and data



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## EVENTS OF IAEG COMMISSION

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analysis, the interaction of marine sediments and structures, and the exploitation of marine energy. There are 13 keynotes, 57 oral reports and 15 presentations in the meeting.

During the meeting, the joint conference of Marine Engineering Geology Commission (C34), the International Association for Engineering Geology and Environment (IAEG) and the Ocean Geological Commission of the Geological Society of China Geological Society was held. At the meeting, Prof. Yogendra Deva, IAEG Vice-president for Asia, Prof. Faquan Wu, Secretary General of IAEG, and Professor Yonggang Jia, chairman of IAEG-C34, respectively issued the certificates to members of the two committees.

Before the conference academic report, the organizing committee arranged six training courses for short courses of 12 hours, and the lecturers invited from the Norwegian Geotechnical Engineering Research Institute and the Fugro Group. During this period, there are more than 300 experts and scholars from different engineering units around the world to participate in the training. Professor Chang Hsein Juang, editor-in-chief of the international journal Engineering Geology, gave a lecture entitled "How to get your paper published in an SCI journal". In the lecture, he shared valuable experiences and suggestions with the participants from the aspects of writing content, method skills, answering reviewers' comments and so on.

After the seminar, some of the participants visited the ocean sample museum of The First Institute of Oceanography, Qingdao Ocean National Laboratory and the National Deep Sea Base, during which the field technical investigation and exchange were carried out on marine geological processes, seabed sampling and observation.



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## EVENTS OF IAEG COMMISSION

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It was reported that the current International Symposium on Marine Engineering Geology was decided by the IAEG Council during the IAEG X Congress in Turin, Italy, 2014. It aims to organize experts and scholars engaged who in the field of marine engineering geology to carry out academic and technical exchange seminars, and become a favorable platform for sharing academic thoughts and research progress, promoting the level of scientific research, engineering and production and research combined, promoting industry development and multilateral cooperation. As a decision discussed by IAEG-C34 Committee, the second International Marine Engineering Geology Symposium (ISMEG) will be held in 2019, hosted by the Dalian University of Technology.





# 17. REGISTRATION OPEN ONLINE OF 11th ARC

The 11th Asian Regional Conference of IAEG 2017, the main theme "Engineering Geology for Geodisaster Management", will be held in Nepal on 28-30 November, 2017. The registration now is open online, please visit the conference website ([www.iaegarc11ngs.com](http://www.iaegarc11ngs.com)) to fill pre-registration form and submit the abstracts.

## The 1st Circular of 11th Asian Regional Conference of IAEG 2017

[www.iaegarc11ngs.com](http://www.iaegarc11ngs.com)

The 11<sup>th</sup> Asian Regional Conference of IAEG  
"Engineering Geology for Geodisaster Management"

27-30 November 2017  
Kathmandu, Nepal

Organizer:  
**Nepal Geological Society (NGS)**

Sponsor:  
**International Association for Engineering Geology and the Environment (IAEG)**



## Background

Engineering geology is one of the most important branches of geological science and it has a decent history of development. In the last 100 years, engineering geology has developed extensively but basic theories and principles still remain the same and what have changed in recent times are experimental techniques, numerical modeling, and field instrumentations.

The gap in practice of engineering geological studies between developed and developing nations is immensely wide. Many developing countries do not adequately consider engineering geological issues in infrastructure development. Nepal lacks proper engineering geological study guidelines for infrastructure development despite having established various national level organizations as well as producing geologists through a university graduate course. Geodisasters such as earthquakes, landslides, and floods frequent in Nepal are some of the major development hurdles; these also have not been adequately studied and explored from engineering geological perspective. It is therefore important that the engineering geological research and technological

knowhow that developed countries possess is transferred to the developing nations. As a country in the Himalaya, Nepal particularly suffers from frequent landslides and floods on an annual basis, but the threat of a great earthquake, which was expected to hit any part of Nepal within the next 10-20 years, was far greater than the decades of landslide and flood damages. In this persuasion, it was unfortunate that on the April 25, 2015, a major earthquake of Mw 7.8 (the Gorkha Earthquake) hit central Nepal causing a loss of 8995+ lives. Aftershocks after the main event also killed many people. Preliminary estimation of economic loss from this earthquake is more than 6 billion US\$. Now, Nepal is in the reconstruction phase and many engineering geological issues are not discussed well among the practitioners and researchers. It was noticed that bridging between practitioners and researchers for engineering geological evaluation is arduous and reconstruction activities have already started without proper understanding of engineering geological settings of the terrain.

For last 50 years, the International Association for Engineering Geology and Environment (IAEG) brings

## Association of IAEG and Nepal Geological Society

International Association of Engineering Geology and the Environment (IAEG) and Nepal Geological Society (NGS) have a long history of association. IAEG Nepal National Group was formed in 1998 and till date, IAEG Nepal National Group has 53 members. In 1999, Nepal hosted a major event of IAEG in Kathmandu and it was inaugurated by late His Majesty King. It was a huge event of IAEG and Nepal National Group proved that Nepal can host IAEG events very successfully. In 2005, Nepal organized 5<sup>th</sup> Asian Regional Conference and was a major success too. NGS is very much convinced that the forthcoming 11<sup>th</sup> Asian Regional Conference of IAEG will be another successful event.



together all engineering geological professionals and researchers into a single forum through various regional and international conferences and it is serving excellently to further development of engineering geology discipline and promoting many national groups around the globe. NGS also has an affiliation with IAEG as Nepal National Group and it is assisting IAEG by conducting various IAEG related conferences.

In this context, NGS along with its partner organizations in Nepal aboard is going to organize the 11<sup>th</sup> IAEG Asian Regional Conference (ARC-11) in Kathmandu, Nepal on 28-30 November 2017. This series of international conference has been an instrumental forum for the advancement of Engineering Geology in Asia. Geoscientists and engineers around the globe have contributed and have largely benefited from each other during the Asian Regional Conferences of IAEG in the past. The forthcoming event is going to be yet another building block to enhance the geo-engineering knowledge and to understand further the Engineering Geology in this part of the globe. This is the second time that an IAEG Asian Regional Conference is going to be held in Nepal - a popular

destination for geo-scientists and tourists. The conference is a forum of all geoscientists and engineers for a collegial discussion and sharing of new research findings in the field of Engineering Geology and geodisasters. NGS has received an overwhelming response from geoscientists around the globe, so this event will certainly be another milestone in the history of ARC. This first circular has been issued in order to provide important information about the Conference. As pre-registration is now open through the conference website, all the geoscientists and engineers working in the field of Engineering Geology and Geodisasters are kindly requested to submit their pre-registration form together with their few details within the stated deadline. Your kind cooperation in this regard will greatly help the organizers plan and execute this important event successfully.

ONLY online registration ([www.iaegarc11ngs.com](http://www.iaegarc11ngs.com)) will be acceptable.





Pokhara - city of lakes and mountains

### Symposium Venue

The IAEG ARC-11 will take place in an important city of Nepal - Kathmandu. With an estimated population of about three million, the capital city Kathmandu is the biggest city in Nepal. Lalitpur and Bhaktapur are neighbor cities of Kathmandu, which altogether make the Kathmandu valley. It has historically important cultural monuments that attract millions of international and domestic tourists every year. The valley encompassing the three major and two minor urban settlements and several rural settlements accommodates nearly 20% of the nation's population. At an average altitude of 1350 meters, the Kathmandu Valley ground is ancient lake sediment that at its deepest point measures some 600 meters in some places. All the major events of the ARC-11 will be held in Kathmandu, while the field excursion will be held in various locations of Nepal.



Kathmandu - city of temples and World Heritages

### Symposium Format

Following the past formats of the IAEG ARC, thematic oral and poster sessions have been planned within a single venue. Parallel sessions will be provided for various themes in order to provide opportunity for maximum number of oral presenters.

### Conference excursions

To provide an opportunity particularly to all international participants, the conference program has been planned to include four field excursions as follows.

2017.11.27: Pre-conference excursion

Ex-1: A full day historical monument and geomorphological tour of Kathmandu Valley

2017.12.01-03: Post-conference excursions

Ex-2: Kathmandu-Pokhara roadside landslides and slope protection work and Pokhara valley tour (three days)

Ex-2: The Gorkha Earthquake 2015 epicenter area visit (two days)

Ex-3: Arniko Highway landslides and slope protection work



Details of all excursions will be given in second circular.



### Conference Plan

27 Nov. 2017 (Mon)	Pre-conference excursion
28 Nov. 2017 (Tue)	Inaugural program followed by technical sessions and welcome reception
29 Nov. 2017 (Wed)	Technical Sessions
30 Nov. 2017 (Thu)	Technical Sessions
1-3 December 2017	Post-conference Excursions

### Important Dates

10 Nov 2016	End of pre-registration
15 Nov 2016	Conference 2nd circular and abstract submission (obligatory online submission)
15 Mar 2017	Conference 3rd circular "Early Bird" registrations and payment of registration fees
30 Sept 2017	Final abstract submission (obligatory online submission)
01 Oct 2017	Presenters' registration deadline, Field Excursion bookings close and 'Early Bird' registrations close
01 Oct 2017	Standard registrations open and Conference 4th circular
15 Nov 2017	Conference final circular
26 Nov 2017	Standard registration closes
27 Nov 2017	Conference on site registration and full payment of registration fee

Abstracts of only those authors or presenters who have already paid their registration fee within the deadline will be published in the abstract volume of the Journal of Nepal Geological Society, which will be distributed to all the registered participants during the conference.

Full papers will be published in the Journal of Nepal Geological Society after peer review process and will be available on 1 April 2018.



### Registration

All interested participants are requested to fill pre-registration form available in the conference website ([www.iaegarc11ngs.com](http://www.iaegarc11ngs.com)). Details on registration fee will be provided in the second circular, and will be decided based on number of pre-registered participants and their suggestions.

Registration fee will cover access to all technical sessions, a copy of abstract volume, one dinner, conference lunches, and tea/coffee during the breaks. It does not cover the cost of other dinners, hotel accommodations and field excursions.

## Conference theme

Nepal Geological Society has planned the main theme of the conference as "Engineering Geology for Geodisaster Management".

Sub-themes of the conference include:

### 1. Landslides

- Landslides, Debris flows, and Rock fall
- Landslide hazard and risk evaluation
- Landslide risk reduction
- Slope stability
- Urbanization on mountain slopes

### 2. Neotectonics

- Active fault and associated earthquakes
- Himalayan tectonics and earthquakes
- Crustal dynamics and recent earthquake sources

### 3. Geohazards in Asia

- Flood hazards
- Volcanic hazards
- Tsunami hazards

### 4. Engineering Geology in sustainable development

### 5. Foundation, underground geology, groundwater

### 6. Tunneling for geodisaster management

### 7. New Technology

- Remote Sensing and Geodesy for geohazard management

- New technology and equipment for geohazards monitoring.

### 8. 2015-Gorkha Earthquake

- Engineering geological consequences
- Ground response
- Damage assessment
- Earthquake-induced landslide
- Seismic hazard and low cost design for earthquake safe buildings

### 9. Climate modeling for geohazard assessment

### 10. Geohazards and their management:

- High altitude rock slope failure
- Snow avalanche
- Flood hazard management
- Glacial lake outburst
- Rockfall hazard mitigation practices

### 11. Case studies for geohazard management

## Nepalese participants

All Nepalese participants are requested to contact the organizers at [info@iaegarc11.com](mailto:info@iaegarc11.com) or visit the 11th IAEG Asian Regional Conference (ARC-11) Secretariat for details on the registration procedure. Pre-registration for Nepali participants is available through home page of conference website.

## Climate

Climate in Kathmandu at the end of November is pleasant. Mornings and evenings are often cold, but the day time is pleasantly warm. It is advised that the participants bring warm clothes.



## Passport and Visa Requirement

All the foreign participants are advised to contact the Nepalese Embassy or Consulate in their respective countries to get visa for entering into Nepal. They must have valid passport and Visa to enter into Nepal. On arrival visa can also be obtained in the Tribhuvan International Airport (Kathmandu). For those who are planning to acquire a visa upon arrival at the airport, please bring two passport-sized photographs and US\$25 cash for the visa fee. Gratis Visa is available for SAARC nationals visiting Nepal since 2014. We request you to claim Gratis Visa if it is applicable to you.

## Currency

US Dollar, Canadian Dollar, British Pound, Euro, Australian Dollar, Japanese Yen, Singapore Dollar, Indian Rupee and Chinese Yuan can be exchanged in the banks, Star Hotels, and authorized Money Changer. As of Aug. 23, 2016, US\$ 1 is equivalent to NRs 107.57 and, it may subject to change.

# /8. THE 13th IAEG CONGRESS IN 2018



The 13th IAEG Congress will take place in San Francisco, California on September 17-21, 2018. Please mark your calendar to join us for 13th IAEG Congress/ the 61st AEG Annual Meeting!

AEG is partnering with the International Association of Engineering Geologists and the Environment (IAEG) to host the first ever Congress in the United States in IAEG's 54-year history.

The 2018 meeting will have a five-day format featuring prominent national and international keynote speakers, four days of technical sessions and symposia, and an all-day Wednesday tour of local geology for full meeting registrants and guests.

## Call for Papers

Abstracts Due for Paper Publication Submissions	May 15, 2017
Deadline for Submission of Papers	Sept. 25, 2017
Abstracts Due for Presentations or Posters Without Published Papers	May 1, 2018

Please visit the official website for more conference information [www.aegweb.org/mpage/iaeg18m](http://www.aegweb.org/mpage/iaeg18m).

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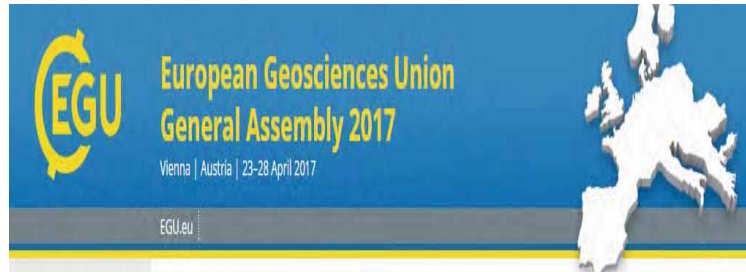
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## MEETING INFORMATION

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Austria-Vienna, 23-28 April 2017

General Assembly 2017 of the European Geosciences Union (EGU)



The General Assembly 2017 of the European Geosciences Union (EGU) is going to be held at the Austria Center Vienna (ACV) in Vienna, Austria, from 23–28 April 2017. The assembly is open to the scientists of all nations. The entire congress centre is fully accessible by wheelchairs.

**Conference Website:** [egu2017.eu/home.html](http://egu2017.eu/home.html)

**Session- The use of Remotely Piloted Aircraft Systems (RPAS) in monitoring applications and management of natural hazards (co-organized)**

**Convener: Daniele Giordan**

**Co-Conveners: Yuichi S. Hayakawa , Fabio Remondino , Francesco Nex , Marc Adams**

**Orals / Fri, 28 Apr, 13:30–15:00 / Room L6**

**Posters / Attendance Fri, 28 Apr, 17:30–19:00 / Hall X3**

The use of Remotely Piloted Aircraft Systems (RPAS) for civil applications opens a new perspective on the field of natural hazards. The amazing diffusion of mini- and micro-RPAS is becoming a valuable alternative to traditional monitoring and surveying applications, opening new interesting viewpoints.

The acquisition of high-resolution remotely sensed data from RPAS in areas characterized by hazardous natural processes, can be a powerful instrument to quickly assess damages and effectively plan rescue missions, without any risk to the operators. The main goal of these systems, is the collection of different data (e.g. images, gas or radioactivity concentrations, etc.), and the delivery of various products (e.g. 3D-models, hazard maps, high-resolution orthoimages, etc.). The high repeatability of RPAS flights and their high cost-efficiency , allow multi-temporal analysis too. However, methodologies, best practices, advantages and limitations of these



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## MEETING INFORMATION

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kind of applications, are currently unclear and/or poorly shared by the scientific community.

This session aims at: **i)** exploring the open research issues and possible applications of RPAS to the field of monitoring and management of geo-hazards; **ii)** collecting experiences, case studies and results; **iii)** defining methodologies and best practices for their effective use in geo-hazard contexts. This session concerns contributions aiming at surveying/monitoring phenomena such as landslides, floods, earthquakes or volcanic eruptions. Papers dealing with the integration of heterogeneous sensors (gas sensors, multi-spectral and thermal images, LiDAR, vision-based navigation systems, etc.) for innovative applications in the geo-hazard domain, are particularly encouraged.

In the following, some open issues that may be considered by the authors:

- Is direct photogrammetry one of the next important improvements (and needs) for RPAS?
- Will RPAS-based LiDAR sensors play a significant role in the coming years?
- How could RPAS data and products facilitate immediate decision-making?
- What will be the role of national regulations in RPAS-based mapping projects?
- Is the current automation in flight execution and captured data processing sufficient for real-time decision-making and rescue planning?
- Could online repositories and cloud processing aid data collection and processing for decision-making and rescue planning?

Slovenia-Ljubljana, May 29- June 2, 2017

General Assembly 2017 of the European Geosciences Union (EGU)



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## MEETING INFORMATION

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The 4th World Landslide Forum that will be held in the Cankarjev dom – Cultural and Congress Centre in Ljubljana, Slovenia, from 29 May to 2 June 2017.

**Conference Website:** [www.wlf4.org/](http://www.wlf4.org/)

**Forum Themes:** [www.wlf4.org/forum-themes/#themes](http://www.wlf4.org/forum-themes/#themes)

**THEME 1 : ENDAI PARTNERSHIPS 2015-2025**

**COORDINATOR:** KYOJI SASSA (Japan)

**THEME 2 : ADVANCES IN LANDSLIDE SCIENCE**

**COORDINATOR:** BINOD TIWARI (USA)

**THEME 3 : ADVANCES IN LANDSLIDE TECHNOLOGY**

**COORDINATOR:** ŽELJKO ARBANAS (Croatia)

**THEME 4 : DIVERSITY OF LANDSLIDE FORMS**

**COORDINATOR:** NICOLA CASAGLI (Italy)

**THEME 5 : LANDSLIDES IN DIFFERENT ENVIRONMENTS**

**COORDINATOR:** VÍT VILÍMEK (Czech Republic)

UK-Portsmouth, July 5- 8, 2017

## Engineering Geology 50 Conference- EG50 2017 Conference

5th-7th July



### INVITATION FROM THE CONFERENCE ORGANISING COMMITTEE

I am delighted on behalf of the University and the organising committee to invite you to join us at this conference to celebrate 50 years of Engineering Geology and Geotechnics provision at the University of Portsmouth and 50 years of the Quarterly Journal of Engineering Geology and Hydrogeology.

Although primarily celebratory, reflecting on the contributions made by the University and this important scientific journal to the development of the engineering geology and geotechnics profession in the UK and far beyond, the conference will also consider how the profession and academia will change in future years and how practicing engineers can inform and control this change. An important aspect of this is the relevance of Eurocode 7 to the profession. A day of talks from leading professionals and academics will consider the role of EC7 in the rock engineering design process and will offer an important opportunity for consultants, contractors and academics to contribute to the ongoing revision of this important design code.

We believe that the conference will present a multitude of opportunities for all parts of the industry (including consultants, contractors and academics) and at all career stages to attend and to contribute to discussions.

The conference will take place in the historic city of Portsmouth, ideally placed on the south coast and only a short distance away from London, with the conference dinner held on the gun deck of HMS Warrior which should be a memorable event.

I will look forward to welcoming you to Portsmouth – one of Europe's truly great island cities – in July 2017.

Dr Nick Koor  
Chair Conference Organising Committee

To celebrate 50 years of Engineering Geology & Geotechnics at the University of Portsmouth in conjunction with the 50 year anniversary of the Quarterly Journal of Engineering Geology and Hydrogeology we are holding a four day conference event in Portsmouth from 5th

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## MEETING INFORMATION

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to 8th July 2017.

**Conference Website:** [www.port.ac.uk/engineering-geology-50-conference/](http://www.port.ac.uk/engineering-geology-50-conference/)

A three day plus one conference at the University of Portsmouth to celebrate 50 years of teaching Engineering Geology and Geotechnics and 50 Years of the Quarterly Journal of Engineering Geology and Hydrogeology published by the Geological Society of London. In addition, there will be a 1 day scientific field excursion to the Isle of Wight led by Professor Andy Gale and Professor Eddie Bromhead.

Day one- EC7 and Rock Engineering Design

Day two- 50th Anniversary of the QJEGH

Day three- 50th Anniversary of Engineering Geology and Geotechnics at Portsmouth

Zambia-Livingstone, July 11- 13, 2017

**International Conference on Geology, Mining, Mineral and Groundwater Resources of the Sub-Saharan Africa**



The International Conference on Geology, Mining, Mineral and Groundwater Resources of the Sub-Saharan Africa is going to held in Livingstone, Zambia on July 11-13, 2017

**Conference Website:** [mines.unza.zm/conference/](http://mines.unza.zm/conference/)

**Special Sessions:**

**Special session 1:** Gondwana Assembly and break-up, the orogenesis and resulting mineral endowment. The sub-themes are:

1. Neoproterozoic glaciation in Gonwanaland and post glacial emergence of Ediacaran life on Earth.
2. Precambrian – Cambrian and Permian – Triassic Chemostratigraphy

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## MEETING INFORMATION

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and its implication on Gondwana paleoclimate and evolution and extinction of life.

3. Pan African -Braziliano orogenic event and its impact on South Asian continent.

4. Rodinia to Gondwana- the resulting orogens and their mineral endowment.

5. Paleozoic – Mesozoic Gondwana sedimentation, Basin evolution and associated sedimentary economic deposits.

**Special session 2:** Groundwater resource and its development in Africa. The sub-themes are:

1. The science of groundwater in Africa – recent findings

2. Bringing about water well drilling professionalism in Africa

**Special session 3:** Engineering Geology. The following themes are incorporated in the special session:

1. Engineering geological innovation in Africa

2. Urban Geology: Sustainable Planning and Development

3. Site characterization

4. Construction materials

5. Slope stability

6. Water in Engineering

7. Large structures, dam safety and Hydropower development.

8. Teaching, training and research

Egypt-Sharm El-sheikh, July 15- 19, 2017

GeoMEast 2017 International Congress



The GeoMEast 2017 International Congress is going to be held in Sharm Elsheikh, Egypt from July 15 to 19, 2017. GeoMEast 2017 will provide a showcase for recent developments and advancements

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## MEETING INFORMATION

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in design, construction, and safety Inspections of transportation Infrastructures and offer a forum to discuss and debate future directions for the 21st century. Conference topics cover a broad array of contemporary issues for professionals involved in bridge, pavement, Geomechanics, geo-environmental, geotechnical, geosciences, geophysics, tunnel, water structures, railway and emerging techniques for safety inspections. You will have the opportunity to meet colleagues from all over the world for technical, scientific, and commercial discussions.

**Conference Website:** [geomeast2017.org](http://geomeast2017.org)

### **Main Themes**

#### **Geotechnical, Geological, Geoenvironmental and Geosynthetics:**

1. Geotechnical, Geoenvironmental and Earthquake Geotechnical Engineering;
2. Soil and Rock Mechanics, Geomechanics, Mining, and Geological engineering;
3. Geosynthetics and Reinforced Soil Retaining Structures;
4. Behavior, Identification and In-situ Test Methods for Site Characterization of Soils, and Lateritic, Problematic, Collapsible, Swelling, Soft, Sabkha and Uncommon Soils;
5. Design and Quality Control of Earth Structures and Subgrades;
6. Soil Stability and Landslide, Ground improvement and Seismic Hazards;
7. Soil-Structure Interaction, Advanced Analysis of Shallow and Deep Foundations, Foundation Failure and Repair, and MicroPiles and its innovative applications;
8. Computational Mechanics, Innovative Soil Models, Discrete Element and Boundary Element Modelling, Mesoscale Modeling, and Advanced Numerical and Analytical Analyses;
9. Physical Modelling in Geotechnics;
10. Saturated and Unsaturated Soil Mechanics;
11. Oil and Gas, and Petroleum Geotechnical Engineering; and
12. Geosciences, Geomatics, Geoinformatics, Geophysics and Global Hazards.

#### **Sustainable Civil Infrastructures:**

1. Structures and Bridges Engineering;
2. Tunneling Engineering;

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## MEETING INFORMATION

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3.Pavement Engineering, Airports and Advances in Pavement Techniques

4.Transportation Engineering

5.Railroad and Railway Engineering

6.Engineering geology for urban and major infrastructure development

7.Dams Engineering, Canals and Levees, Irrigation and Water Sources and Structures, and Ports, Offshore and Marine Technologies.

### **Climate Change and effects on Infrastructure:**

1.Sustainability and Energy Engineering;

2.Environmental and Waste / Sediment Management, Characterization, Treatment and Re-Use;

3.Energy Geotechnics and Geo-Energy Infrastructure.

4.Materials Engineering, Nanotechnologies, Advances in Composite Materials, Climate-Friendly Technologies, and Damage Mechanics.

5.Structural Health Monitoring, and Sustainable Construction Technologies;

6.Advanced Analysis for Sustainable Design.

7.Worldwide innovative procedures and precautions for the Design;

8.Building Information Modeling (BIM), Building and Construction Engineering, Project Management, and Contract Administration;

9.Sustainable Infrastructure;

Russia-Magadan, September 5-8, 2017

### **XI International Symposium on Permafrost Engineering**

#### International Symposiums on Permafrost Engineering



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## MEETING INFORMATION

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The XI International Symposium on Permafrost Engineering to be held in Magadan, Russia on September 5-8, 2017.

The aim of the Symposium is to provide a forum for discussion of permafrost engineering issues, as well as for exchange of practical experience in construction and maintenance of engineering structures on frozen ground. We hope that the Symposium will bring together researchers and engineers who work in cold/permafrost regions to discuss the ways and means for early detection of adverse frost-related processes that may cause economic losses and environmental damage, as well as to provide climate change adaptation measures based on permafrost monitoring and experimental research on frozen soil/rock mechanics.

The Symposium will facilitate cooperation within the permafrost community on finding engineering solutions that would lead to comfortable and improving living conditions and effective and sustainable resource management in areas affected by frozen ground, thus contributing to the goals of the Russian Scientific Council on Earth Cryology and the International Permafrost Association.

**Conference Website:** [mpi.ysn.ru/en/permafrost-engineering-symposiums](http://mpi.ysn.ru/en/permafrost-engineering-symposiums)

### **Main Themes**

1. Permafrost as foundation, enclosing and construction material.
2. Physical, thermal and mechanical properties of permafrost and their changes due to external loads
3. Control of engineering properties of permafrost soils during construction and service life of projects
4. Urbanization in permafrost regions: experience, problems and prospects
5. Construction, operation and maintenance of linear, mining and hydro-engineering structures on permafrost: case studies, problems and prospects.
6. Engineering site investigations and construction technologies for permafrost regions
7. Regional climate changes and permafrost response

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Canada-Ottawa, October 1-4, 2017

## GeoOttawa 2017- The 70 Years of Canadian Geotechnics and Geoscience

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### MEETING INFORMATION

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The conference will be held at the Shaw Centre in Ottawa, Ontario, Canada, from Sunday, October 1 to Wednesday, October 4, 2017.

The theme for GeoOttawa 2017 is 70 Years of Canadian Geotechnics and Geoscience and will celebrate the extensive contributions of geotechnical and hydrogeological practitioners to Canada's built form since the Canadian Geotechnical Society was founded 70 years ago. The technical program will cover a wide range of topics, including specialty sessions that are of relevance to the disciplines of geotechnics and hydrogeology. In addition to the technical program and plenary sessions, the conference will include a complement of local tours and short courses.

**Conference Website:** [geottawa2017.ca/index.php](http://geottawa2017.ca/index.php)

**Main Themes:** [geottawa2017.ca/techthemes.php](http://geottawa2017.ca/techthemes.php)

#### **Geotechnical Themes**

- Soil Mechanics and Foundations
- Rock Mechanics and Engineering Geology
- GeoHazards and Landslides
- Mining Geotechnics and Hydrogeology
- Geoenvironmental Engineering
- Transportation Geotechnics
- Geosynthetics
- Cold Regions
- Sustainable Geotechnics
- Professional Practice
- Special Themes

#### **Hydrogeological Themes**

- Groundwater Resources



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Bedrock Hydrogeology  
Contaminant Hydrogeology  
Groundwater and the Public  
Special Themes

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## MEETING INFORMATION

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Malaysia-Kuala Lumpur, October 9-10, 2017  
National Geoscience Conference (NGC) 2017



The National Geoscience Conference (NGC) 2017 is going to be held on October 9-10, 2017 in Kuala Lumpur by the Geological Society of Malaysia (GSM), in conjunction with Geological Society Malaysia (GSM) 50th Anniversary. The main theme for this 30th NGC edition is "Geoscience for a Sustainable Future". As the economy is driving into a continuous uncertainty, geoscientists have to adapt to ensure sustainability in the geological field. In conjunction with the 50th anniversary of GSM, the conference will also look from past experiences to prepare for the future of fellow geoscientists and the direction of geoscience in general.

**Conference Website:** [ngc2017.com/](http://ngc2017.com/)

**Main Themes:**

Engineering Geology and Rock Mechanics  
Petroleum Geology  
Mineral Resources Professionalism, Ethics and Education in Geosciences  
Regional Geology  
Disaster Risk Reduction and Climate Change Adaptation

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## MEETING INFORMATION

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Geoheritage, Geoparks and Geotourism

**Important Dates:**

Submission of Extended Abstract: 30th June 2017

Acceptance of Extended Abstract: 1st August 2017

Early registration deadline: 15th September 2017

Registration deadline is on 15th September 2017. Registration after that date will be considered as late registration.

Kindly submit the full papers once the acceptance notice is issued

London-UK, October 26-27, 2017

### 2017 Ground Related Risk to Transportation Infrastructure

The 2017 Ground Related Risk to Transportation Infrastructure is going to be held in London, UK on October 26-27, 2017. We are pleased to announce a conference for the Society's chosen scientific theme in 2017 (Year of Risk). The meeting will focus on best practice for managing geotechnical infrastructure and is supported by the UK Geotechnical Asset Owners Forum.

The conference will provide an opportunity to showcase innovative, industry leading approaches to holistic and tactical risk management across geotechnical infrastructure.

**Organised by:** Geological Society Events, 2017 Year of Risk

**Venue:** The Geological Society, Burlington House, London

**Conference Website:**

<http://www.geolsoc.org.uk/Ground%20Related%20Risk%20to%20Transportation%20Infrastructure>

**Main Themes:**

Strategic management of risk for portfolios of geotechnical assets, including policy development, application and use within regulated industries

Identification, assessment and management of ground-related hazards to transportation infrastructure

Identification, assessment and management of hazards relating to natural slopes and hazards from third party land in proximity to transportation infrastructure

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## MEETING INFORMATION

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Assessment and management of changing risk during asset deterioration, including monitoring procedures and methods

Operational responses to geotechnical asset failures impacting on transportation infrastructure

Assessment of Whole Life Cost and Value, including modelling, development of input data and validation of outputs

Current state of thinking in assessing climate change and dynamic weather events that impact of geotechnical infrastructure.

### **Call for Papers - deadline Friday 26 May 2017**

We particularly welcome abstracts for oral and poster presentations from geoscientists specialising in geohazards, engineering geology, geotechnics, hydrogeology as well as science communicators, risk assessors and risk managers. An important aspect of the meeting will be to explore case studies and to consider what insights and understanding can be shared across sectors and applications. Abstracts should be no more than 500 words and should be emailed to [georgina.worrall@geolsoc.org.uk](mailto:georgina.worrall@geolsoc.org.uk) as a Word document.

### **Shaoxing-China, October 28-30, 2017**

#### **Shaoxing International Forum on Rock Mechanics and Engineering Geology (SXFRG)**

The Shaoxing International Forum on Rock Mechanics and Engineering Geology, SXFRG-2017, as the first Forum is going to be held in Shaoxing, China, on October 28 -30, 2017. The Forum will focus on "the Rock Mechanical and Engineering Geological problems for the Silk Road Economic Belt and the 21st-Century Maritime Silk Road (B&R)".

The Forum aims at the fundamental innovation of theory and technology in rock mechanics and engineering geology. Around 50 distinguished international scholars will be invited to give 1-2 keynote lectures and around 15 speeches, including the present and previous presidents/vice presidents for IAEG and ISRM, and the editorial board members of BOEG, RMRE and JRMGE.

**Organised by:** Shaoxing University

**Venue:** Conference Room, Center of Rock Mechanics and Geohazards,

Shaoxing University, Shaoxing city, Zhejiang province, China

Conference Website: [www.sxfrg.org/](http://www.sxfrg.org/)

**Shaoxing International Forum on Rock Mechanics and Engineering Geology (SXFRG)**  
 "Rock Mechanical and Engineering Geological problems for the Silk Road Economic Belt and the 21st-Century Maritime Silk Road (B&R)"

Shaoxing, China  
 28-30 October, 2017

**ORGANIZER**  
 Shaoxing University

**CO-ORGANIZERS**  
 International Association for Engineering Geology and the Environment (IAEG)  
 International Society for Rock Mechanics (ISRM)  
 Natural Science Foundation of China (NSFC)  
 Chinese Society for Rock Mechanics and Engineering  
 Engineering Geology Commission of China  
 Bulletin of Engineering Geology and the Environment (BOEG)  
 Journal of Rock Mechanics and Geotechnical Engineering (JRMGE)

**INVITATION**  
 Entering to the new century, Chinese government initiated "The Silk Road Economic Belt and the 21st-Century Maritime Silk Road" (B&R) project to strengthen the connections among the huge populations and numerous economic entities located in Eurasia and Africa, employing the massive infrastructure investment and construction as the foundation of mass transportation. The complex geological and geotechnical problems involved in B&R ask for higher standards in survey, design, and construction, which can only be accomplished by extensive collaborations among nations worldwide and their outstanding scientists and engineers.  
 The SXFRG is a series biennial forum that aims at the fundamental innovation of theory and technology in rock mechanics and engineering geology. The first Forum to be held on Saturday October 28 to Monday October 30, 2017, will focus on "the Rock Mechanical and Engineering Geological problems for B&R". The forum will be held in Shaoxing, China, which is located in the eastern China and is 1.5 hour away from Shanghai by high-speed railway. Shaoxing is a historical city with deep cultural connotations famous as the city of "Oriental Venice".

Shaoxing welcome you!  
 Dr. Shigui Du, Chair of the SXFRG

**SCIENTIFIC COMMITTEE**

**CHAIRS**

Manchao He, China      Scott Burns, USA

**MEMBERS** (in alphabet order)

Raffiq Azzam, Germany	Guowei Ma, China
Fred Baynes, Australia	Silvina Marfil, Argentina
Zuyu Chen, China	Paul Marinos, Greece
Martin Culshaw, UK	Ricardo Oliveira, Portugal
Yogendra Deva, India	Jianbing Feng, China
Shigui Du, China	Qihu Qian, China
Mark Eggers, Australia	Eda Quadros, Brazil
Derek Elsworth, USA	Louis van Rooy, South Africa
Xiating Feng, China	Shengwen Song, China
Maria Heloisa, Brazil	Jun Sun, China
Bunqiu Huang, China	Resat Ulusoy, Turkey
Jianliang Jiang, China	Sijing Wang, China
Yujing Jiang, China	Faquan Wu, China
Shouai Li, China	Caichu Xia, China
Xibing Li, China	Qiang Yang, China
Giorgio Lollino, Italy	Hehua Zhu, China

(To be updated)

**CONFERENCE TIME AND VENUE**

Time : Oct. 28-30 8:00 -18:00 2017  
 Location : Conference Room, Center of Rock Mechanics and Geo-hazards, Shaoxing University, Shaoxing city, Zhejiang Province, China

**ORGANIZATION COMMITTEE** (in alphabet order)

Chair: Shigui Du, Shaoxing University, China  
 Member: Zulie Fang, Yan Feng, Xiating Feng, Long He, Shengwen Qi, Wei Shen, Caichu Xia, Juhua Xiong, Wenli Xu

**SECRETARIAT** (in alphabet order)

Secretary-General: Faquan Wu, L.R. Sousa  
 Secretary: Yunjin Hu, Bo Li, Zhuo Wang  
 Email: sxfrg@uss.edu.cn

**CONFERENCE THEMES**

1. Rock mechanical and engineering geological problems along B&R
2. Engineering geological issues in landslides and deep buried tunnels
3. Monitoring and protection of geo-environment along B&R
4. Rock mechanics and engineering geology in large-scale infrastructure projects
5. New technology in investigation of geological hazards
6. Rockburst in underground excavations
7. Theoretical development in rock mechanics and engineering geology
8. Laboratory testing on rocks
9. Marine geological problems along B&R

**KEYNOTE SPEAKERS**

Manchao He, China University of Mining & Technology, Beijing, China  
 Rock Mechanical and Engineering Geological problems in B&R.

Paul Marinos, National Technical University of Athens, Athens, Greece  
 Engineering geological issues in deep buried tunnels in Himalaya tectonic belt

**CONFERENCE PROGRAM**

YEAR 2017	27 OCTOBER	28 OCTOBER	29 OCTOBER	30 OCTOBER
Morning	Registration	Opening & Keynotes	Technical Sessions	Field Trip
Afternoon	Registration	Technical Sessions	Technical Sessions	Field Trip
Evening	Reception	Banquet	Banquet	

**KEY DATES**

Deadline for full paper submission: 1 August 2017  
 (Submitted papers will be sent to SPRINGER for review and possible publication)  
 Deadline for PPT submission: 1 October 2017

# /10. CONTACT INFORMATION

## IAEG EXECUTIVE COMMITTEE 2015-2018

<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	President Président
<b>Carlos Delgado</b> ESCUELA TÉCNICA SUPERIOR DE INGENIERÍA CIVIL Alfonso XII, 3 y 5 28014 – MADRID <b>ESPAGNE</b>	Tel + 34 91 336 77 36 Fax + 34 91 336 79 61 Mail secretaria.subdireccion.ingenieriacivil@upm.es	Immediate past president Président sortant
<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 wufaquan@mail.iggcas.ac.cn wufaquan001@hotmail.com	Secretary general Secrétaire général
<b>Jean-Alain Fleurisson</b> Mines ParisTech - Centre de Géosciences. 35, rue Saint Honoré. 77305 Fontainebleau <b>FRANCE</b>	Tel +33 (0)1 64 69 48 13 (Sec. 48 94) Mail jean-alain.fleurisson@mines-paristech.fr	Treasurer Trésorier
<b>Martin CULSHAW</b> 49 Shelford Road Radcliffe-on-Trent Nottingham NG12 1AE <b>UK</b>	Tel +44 (0)115 911 9137 Mob +44 (0)7929931358 Mail martin.culshaw2@ntlworld.com	Bulletin Editor in Chief
<b>Louis van Rooy</b> Department Geology University of Pretoria Private bag X20 Hatfield, Pretoria 0028 <b>SOUTH AFRICA</b>	Tel +27124202023 Fax +27123625219 Mail louis.vanrooy@up.ac.za	Vice-president for Africa Vice-président pour l'Afrique [National groups : Algeria ; South Africa]

<p><b>Yogendra Deva</b>          Bhilwara Towers, ICCS Ltd.,          A-12, Sector-1, NOIDA 201          301,          Delhi-NCR  <b>INDIA</b></p>	<p>Mob +919871178299          Fax +911204277847          Mail yogendradeva@gmail.com          yogendra.deva@Injbhilwara.com</p>	<p>Vice-president for Asia          Vice-président pour l'Afrique          [National and regional groups : China ;          Hong Kong S.A.R. regional group; India          ; Indonesia ; Iran ; Japan ; South Korea          ; Malaysia ; Nepal ; Singapore ; South-          East Asia ; Vietnam]</p>
<p><b>Mark EGGERS</b>          Pells Sullivan Meynink          G3, 56 Delhi Road          North Ryde NSW 2113  <b>AUSTRALIA</b></p>	<p>Tel +61 2 98125000          Mob +61 418 677173          Mail mark.eggers@psm.com.au</p>	<p>Vice-president for Australasia          Vice-président pour l'Australasie          [National groups : Australia ; New          Zealand]</p>
<p><b>Jeffrey R Keaton</b>          Amec Foster Wheeler 6001          Rickenbacker Rd,          Los Angeles, CA 90040  <b>USA</b></p>	<p>Tel +1 323 889 5316 office          +1 323 203 6958 mobile          Mail jeff.keaton@amecfw.com</p>	<p>Vice-president for North America          Vice-président pour l'Amérique du Nord          [National groups : Canada ; Mexico ;          United States of America]</p>
<p><b>Maria Heloisa Barros de          Oliveira Frascá</b>          MHB Geological Services          Ltd.          Rua Monte Alegre, 1347          05014-002 São Paulo, SP  <b>BRAZIL</b></p>	<p>Tel + 55 11 38621148          Mob + 55 11 984476247          Mail mheloisa2@yahoo.com.br</p>	<p>Vice-president for South America          Vice-président pour l'Amérique du Sud          [National groups : Argentina ; Brazil ;          Colombia ; Paraguay ; Peru]</p>
<p><b>Giorgio LOLLINO</b>          CNR-IRPI          Strada delle Cacce, 73          10135 Torino  <b>ITALY</b></p>	<p>Tel +39 011 3977810          Fax +39 011 3977820          Mail giorgio.lollino@irpi.cnr.it</p>	<p>Web Editor &amp; Vice-president for Europe          Vice-président pour l'Europe          [National groups : Albania ; Austria ;          Bulgaria ; Croatia ; Cyprus ; France          ; Georgia ; Greece ; Hungary ; Italy ;          Portugal ; Romania ; Slovenia ;          Serbia(Yugoslavia) ; Spain ; Switzerland ;          Turkey]</p>
<p><b>Rafiq Azzam</b>          Engineering Geology RWTH          Lochnerstr. 4-20          52064 Aachen  <b>GERMANY</b></p>	<p>Tel + 49 241 8095741          Fax + 49 241 8092280          Mail azzam@lih.rwth-aachen.de</p>	<p>Vice-president for Europe          Vice-président pour l'Europe          [National groups : Belgium ; Czech          Republic ; Denmark ; Estonia ; Finland ;          Germany ; Iceland ; Ireland ; Lithuania ;          Norway ; Netherlands ; Poland ; Russia          ;Slovak Republic ; Sweden; United          Kingdom]</p>

## 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 / ALGÉRIE**

Norberto Jorge Bejerman

President

presidente@asagai.org.ar

### **ARGENTINA / ARGENTINE**

Hugo Acosta-Martinez

Chairman

hugo.acosta@aecom.com

Peter Robinson

Secretary

secretary@australiangeomechanics.org

### **AUSTRALIA / AUSTRALIE**

Christian Zangerl

President

christian.J.zangerl@boku.ac.at

Reinhold Steinacher

Secretary

reinhold.steinacher@gmx.at

### **AUSTRIA / AUTRICHE**

Philippe WELTER

President

philippe.welter@spw.wallonie.be

Fanny DESCAMPS

Secretary

fanny.descamps@umons.ac.be

### **BELGIUM / BELGIQUE**

Adalberto Aurélio Azevedo

President

presidencia@abge.org.br

Alessandra Corsi

Secretary

abge@abge.org.br

### **BRAZIL / BRÉSIL**

Kiril Anguelov

President

angelov@bondys.bg

Ivailo Ivanov

Secretary

bulgeo@dir.bg

### **BULGARIA / BULGARIE**

Dharma Wijewickreme

President

President@cgs.ca

Nicholas Vlachopoulos

CGS Representative

vlachopoulos-n@rmc.ca

Lisa McJunkin

Secretary

admin@cgs.ca

### **CANADA**

Faquan Wu

President

wufaquan@mail.iggcas.ac.cn

Shengwen Qi

Secretary

qishengwen@mail.iggcas.ac.cn

### **P.R. of CHINA / R.P. de CHINE**

ÉDGAR EDUARDO RODRÍGUEZ GRANADOS

President

sociedadcolombianadegeotecnia@scg.org.co

scgeotecnia1@gmail.com

### **COLOMBIA**

DRAŽEN NAVRATIL

President

drazen.navratil@hgi-cgs.hr; navratil.drazen@gmail.com

**CROATIA / CROATIE**

Clio Grammi

President

geominescy@gmail.com

Niki Koulermou

Vice-President

niki.koulermou@gmail.com

**CYPRUS / CHYPRE**

Jan Novotný

Secretary

iaeg@irms.cas.cz

**CZECH REPUBLIC / RÉPUBLIQUE  
TCHÈQUE**

Jan Dannemand Andersen

President

jda@geo.dk

John Kærsgaard Frederiksen

IAEG representative

JRF@ramboll.dk

**DENMARK / DANEMARK**

Johannes PELLO

President

Tallinn Technical University

Room III-217 Ehitajate tee 5

Tallin 19086

**ESTONIA / ESTONIE**

Arto Koskiahde

President

arto.koskiahde@ohuthiekeskus.com

Pekka Ihalainen

Secretary/Treasurer

pekka.ihalainen@ykl.fi

**FINLAND / FINLANDE**

Aline QUENEZ

President

quenez.a@free.fr

Jeanne-Sylvine Guedon

Secretary

jeanne-sylvine.guedon@ifsttar.fr

**FRANCE**

Zurab Kakulia

President

Shorena Petriashvili

Secretary

zukurakulia@yahoo.com

**GEORGIA / GÉORGIE**

Prof. Dr. Kurosch Thuro

President

thuro@tum.de

Kirsten Laackmann

Managing Director

service@dggt.de

**GERMANY / ALLEMAGNE**

Marinos Vassilis

President

marinosv@geo.auth.gr

Loupasakis Constantinos

Secretary

cloupasakis@metal.ntua.gr

**GREECE / GRÈCE**

Nigel R Wightman

President

Nigel.Wightman@aquaterra.com.hk

**Hong Kong (Special Administration  
Region, SAR) Regional Group**

Akos TOROK

President

BME Epitoanyagok és Mérnökgeologia Tanszek

Budapest Sztoczek u2 1111

**HUNGARY / HONGRIE**



Birgir JONSSON  
President  
University of Iceland  
Department of Environmental and Civil Engineering  
Hjardarhagi 2 Reykjavik 107

**ICELAND / ISLANDE**

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

**INDIA / INDE**

Imam A. SADISUN  
President  
imam@gc.itb.ac.id

**INDONESIA / INDONÉSIE**

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

**IRAN**

Michael LOOBY  
President  
Byrne Looby Partners  
H5 Centre point Business Park  
Oak Road Dubin 12

**IRELAND / IRLANDE**

Giovanni Battista Crosta  
President  
giovannibattista.crosta@unimib.it  
Daniele Giordan  
Secretary  
segreteria@iaeg.it

**ITALY / ITALIE**

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 / JAPON**

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

**MALAYSIA / MALAISIE**

Carlos GARCIA HERRERA  
President  
Apartado Postal 39-137

**MEXICO / MEXIQUE**

Dandapani Adhikari  
President  
himalayawatch@gmail.com  
Ranjan Kumar Dahal  
Nation Coordinator  
ranjan@ranjan.net.np  
rkdahal@gmail.com

**NEPAL / NÉPAL**

Prof. ADEYEMI, Oladapo Gabriel  
adedapodrngus@yahoo.com  
President  
CHUKWUMA, Anthony Obiechina  
Secretary  
naegesecretariat@gmail.com  
tonychukwumaw@gmail.com

**NIGERIA / le nigéria**

Saskia Butler  
Contact Person  
saskia.butler@tekna.no

**NORWAY / NORVÈGE**

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

**PERU / PÉROU**

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

**POLAND / POLOGNE**

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

**LITHUANIA / LITUANIE**

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

**NETHERLANDS / PAYS-BAS**

Charlie Price  
President  
chair@nzgs.org  
Teresa Roetman  
Secretary  
secretary@nzgs.org

**NEW-ZEALAND / NOUVELLE-ZÉLANDE**

Francisco Raúl Mena Knoop  
President  
fundatecsrl@gmail.com  
raulmena@fundatec.com.py  
Angelica García  
Secretary  
apenter.com.py@gmail.com

**PARAGUAY / le paraguay**

António de Matos Fernandes  
President  
spg@Inec.pt  
Ana Vieira  
Secretary  
spg@Inec.pt

**PORTUGAL**

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

**ROMANIA / ROUMANIE**

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

**RUSSIA / RUSSIE**

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  
srmeg@cma.sg

**SINGAPORE**

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

Dušanka Brožič  
President  
dusanka.brozic@gi-zrmk.si  
**SLOVENIA / SLOVÉNIE**

Louis van Rooy  
President  
president@saieg.co.za  
Yolandé van den Berg  
Secretary  
secretariat@saieg.co.za  
Paul Aucamp  
Treasurer  
treasurer@saieg.co.za  
**SOUTH AFRICA / AFRIQUE DU SUD**

Park, Chung-hwa  
President  
chpark@dju.ac.kr  
Woo, Ik  
Secretary  
woo@kunsan.ac.kr  
**SOUTH KOREA/CORÉE DU SUD**

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

Gunilla Franzén  
President  
gunilla.franzen@geoverkstan.se  
Daniel Morfeldt  
Representative  
daniel.morfeldt@mineconsult.se  
**SWEDEN / SUÈDE**

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

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

Reşat ULUSAY  
President  
resat@hacettepe.edu.tr  
Mehmet EKMEKCI  
Secretary  
mekmekci1303@gmail.com  
**TURKEY**

Helen Reeves  
President  
hjre@bgs.ac.uk  
**UNITED KINGDOM / ROYAUME-UNI**

Eldon M. Gath  
NG Leader  
gath@earthconsultants.com  
egath@me.com  
Paul Santi  
President  
psanti629@gmail.com  
Yolanda Natividad  
Secretary  
yolanda@aegweb.org  
**U.S.A.**

Ta Duc Think  
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**

Fred Baynes  
President  
fredb@iinet.net.au

### **C10 Building Stones and Ornamental Rocks**

Björn SCHOUENBORG  
President  
bjorn.schouenborg@cbi.se  
Nike et Hannu LUODES  
Secretary  
nike.luodes@hotmail.com  
Hannu Luodes  
Secretary  
hannu.luodes@gtk.fi  
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  
Vassilis Marinos  
Secretary  
marinosv@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**

Hu Ruijin  
President  
hurl@mail.igcas.ac.cn  
Li Lihui  
Secretary  
lhl2942@mail.igcas.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@igsnr.ac.cn  
Renato Macciotta  
Secretary  
macciott@ualberta.ca

## **IAEG Sub-40 Group**

Ann Williams

Interim Chairman

[ann.williams@beca.com](mailto:ann.williams@beca.com)

Mark Eggers

Vice Chair

[Mark.Eggers@psm.com.au](mailto:Mark.Eggers@psm.com.au)

Regional representatives

Amy Maharaj

Africa representative

[amym@n3tc.co.za](mailto:amym@n3tc.co.za)

Fergus Cheng

Asia representative

[fergus.cheng@arup.com](mailto:fergus.cheng@arup.com)

Pedro Martins

Australasia representative

[Pedro.Martins@beca.com](mailto:Pedro.Martins@beca.com)

Andrea Manconi

Europe representative

[andrea.manconi@irpi.cnr.it](mailto:andrea.manconi@irpi.cnr.it)

Jennifer Bauer

North America representative

[jennbbauer@gmail.com](mailto:jennbbauer@gmail.com)

Francisco Locati

South America representative

[flocati@efn.uncor.edu](mailto:flocati@efn.uncor.edu)