



# IAEG

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## NEWSLETTER

Issue No.3, 2017

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Electronic Version



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Edited by the IAEG Secretariat, Shaoxing, China

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# /1. NEWS OF EXECUTIVE COMMITTEE

President and Vice-President for Africa attended the 1st African Regional Conference of IAEG held in Livingstone, Zambia on 11-13 July ,2017

This conference was organized by the School of Mines, University of Zambia and linked to this event was the 1st Africa IAEG Regional Meeting. The organizing committee included Prof Louis van Rooy from South Africa as the IAEG Vice President for Africa and with the assistance from the chair of the LOC, Dr Osbert N. Sikazwe and Prof Bishal Upreti (previously from Nepal) a session on Engineering Geology was accommodated within the conference programme.

The conference was inaugurated by the President of the Republic of Zambia His Excellency Mr. Edgar Chagwa Lungu. Prof. Scott Burns, President of the IAEG, also attended and presented a keynote paper. There were 121 delegates from 5 continents and 25 countries and during the engineering geology session 10 papers were presented.



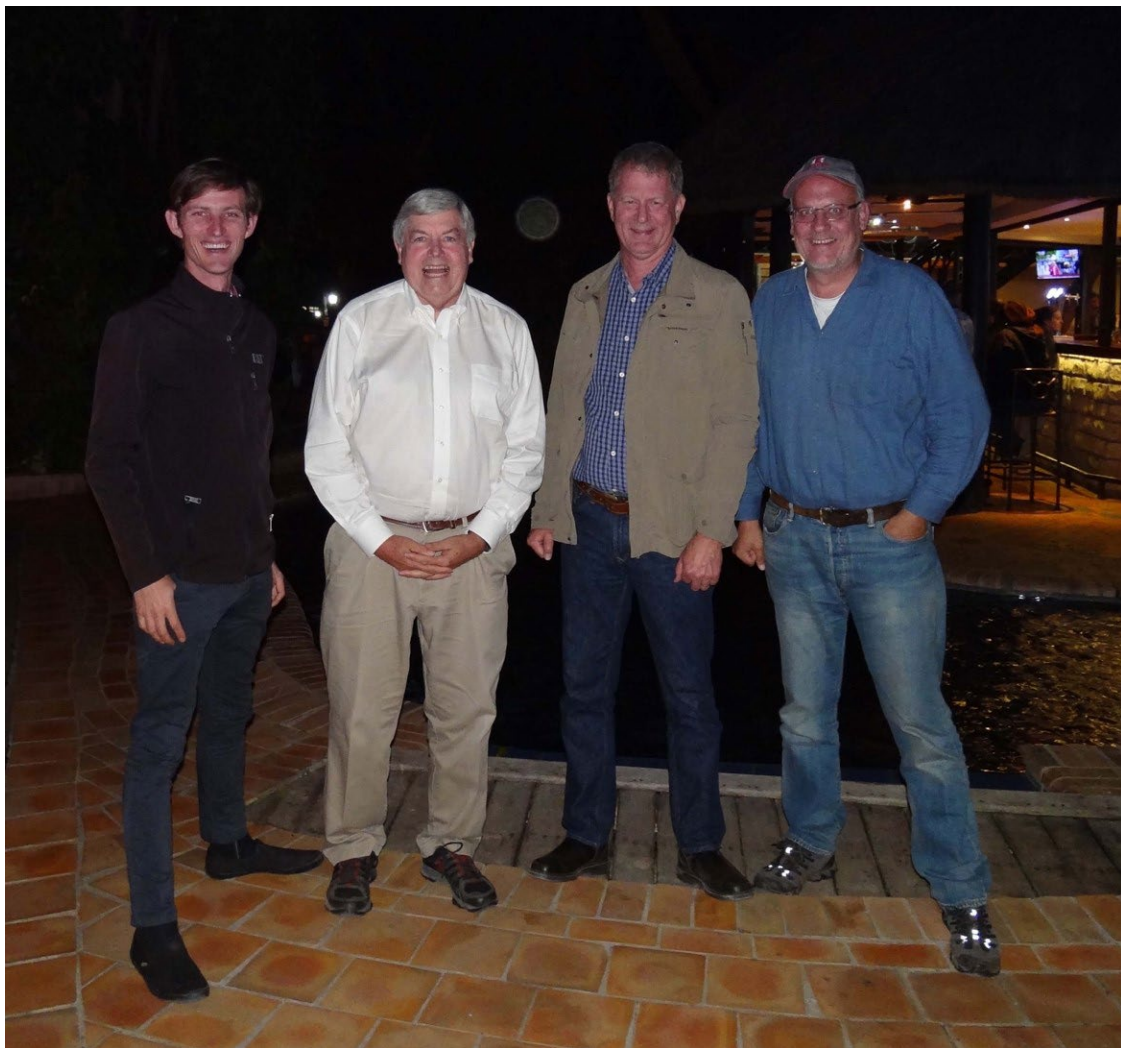
A photograph showing some of the participants who attended the conference

The Africa Regional meeting of IAEG was held on 12 July 2017 and the activities of IAEG and benefits of being a member were highlighted by Louis van Rooy (Vice-President for Africa) and the discussion facilitated by the IAEG President, Prof Scott Burns. The meeting was attended by 20 participants from Ethiopia, India, Namibia, South Africa and Zambia with representation from Germany and the USA.

The main point from the discussion was the problems experienced by engineering geologist in countries where there are no IAEG National Group, especially the problem of low numbers of engineering geologist leading to the inability to organize and establish a local (country based) National Group.

# /1. NEWS OF EXECUTIVE COMMITTEE

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Relaxing after the IAEG Africa meeting: Dr Matthys Dippenaar (South Africa), Prof Scott Burns (IAEG President), Prof Louis van Rooy (Vice-President IAEG Africa) Prof Joachin Röhn (Germany).

Provided By Louis van Rooy  
August 2017

# /1. NEWS OF EXECUTIVE COMMITTEE

## Potential New Members of IAEG- Bangladesh, Chinese Taipei, Iraq are Wishing to Form New National Group/Regional Group

### **Bangladesh**

With the introduction of Dr. Ranjan Kumar Dahal, Prof. A.T.M. Shakhawat Hossain and Dr. Mohammad Feruj Alam from Jahangirnagar University, Bangladesh have sent emails to IAEG Secretary General and Vice-President for Asia trying to establish a new Bangladesh national group of IAEG. Prof. A.T.M. Shakhawat Hossain is the head of Engineering Geology, Geotechnics and Geo-hazards Research Group of the Dept. of Geological Sciences, Jahangirnagar University, his research is mainly focused on the climate variability and impact on the landslide, liquefaction and other Geo-hazards in Bangladesh. This is the only department in Bangladesh producing 30-40 Geo-scientists to work on Geo-hazards for the national sector of Bangladesh. They also have contacts with some Asian and European Engineering Geologists who are the current IAEG members. From last few years' experience, the department is trying to establish IAEG NATIONAL GROUP for their country, Bangladesh. In this regard they wish to start the process to form a new Bangladesh national group. With sustainable development of Bangladesh, they want to promote the research in Engineering Geology area to reduce the current hazards and disasters.

#### **Professor Dr. A.T.M. Shakhawat Hossain**

Engineering Geology, Geotechnics, Geohazards & Disaster Sciences

Jahangirnagar University, Savar, Dhaka-1342, Bangladesh

Email Address: [shakhawathos2004@yahoo.com](mailto:shakhawathos2004@yahoo.com)

#### **Dr. Mohammad Feruj Alam**

Engineering Geology, Geohazards and Disaster Sciences Research Group

Department of Geological Sciences, Jahangirnagar University, Savar, Dhaka, Bangladesh.

Email Address: [ferujgsb@yahoo.com](mailto:ferujgsb@yahoo.com)

### **Chinese Taipei**

By several contacts with Prof. Faquan Wu, Prof. Hengxing Lan and Mr. Yogendra Deva, Prof. Jia-Jyun Dong from National Central University, Taiwan submitted an official letter to the vice-president for Asia to propose join IAEG and form a new Regional Group. In order to avoid some nationality problem, it is proposed to use the name of Chinese Taipei as a Regional Group. Prof. Dong introduced that they have 102 active members in Geological society of Taiwan (<http://www.gst.org.tw>), and the Engineering Geology Research Group Located in Taipei is a branch organization of Geological society of Taiwan.

The colleagues in the field of Engineering Geology plan to organize a new organization in the future. This new organization could include the members working in the field of Rock Mechanics. Then the members could attend 150 (for some overlapping in two fields). Prof. Dong is confident that they can contribute a lot to the IAEG, Asia in the near future.

# /1. NEWS OF EXECUTIVE COMMITTEE

## **Professor Jia-Jyun Dong**

Graduate Institute of Applied Geology,

National Central University, Taiwan

Email Address: [jjdong@geo.ncu.edu.tw](mailto:jjdong@geo.ncu.edu.tw)

## **Iraq**

With the help of Prof. Rafiq Azzam, Dr. AQEEL Al-ADILI from Iraq whose field is Engineering Geology and Geo-techniques, got contact with IAEG and expressed that he is interested in joining IAEG and establish a new Iraqi national group. The Secretariat has advised the official procedure, rules and steps on how to join IAEG as new national group. Dr. AQEEL Al-ADILI will follow the direction and trigger the process to establish Iraqi national group.

## **Dr. AQEEL Al-ADILI**

University of Technology,

Building and Construction Engineering Department, Baghdad, IRAQ.

Email Address: [aqeeladili@hotmail.com](mailto:aqeeladili@hotmail.com)

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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	311	144	166	1
	2	New Zealand	400	169	231	0
Giorgio Lollino	3	Albania				
	4	Austria	22	11	11	0
	5	Bulgaria	16	10	6	0
	6	Croatia				
	7	Cyprus				
	8	France	181	117	52	12
	9	Georgia	15	1	14	0
	10	Greece				
	11	Hungary				
	12	Italy	75	69	6	0
	13	Portugal	76	46	29	1
	14	Romania	28	19	9	0
	15	Serbia	15	8	7	0
	16	Slovenia	27	4	23	0
	17	Spain	49	49	0	0
	18	Switzerland				
	19	Turkey	132	9	123	0
Rafiq Azzam	20	Netherlands	34	34	0	0
	21	Lithuania				
	22	United Kingdom				
	23	Belgium	75	30	45	0
	24	Czech Republic	29	16	13	0
	25	Denmark				
	26	Estonia				
	27	Finland	21	1	20	0
	28	Germany	520	51	469	0
	29	Iceland				
	30	Ireland				
	31	Norway				
	32	Poland				
	33	Russia	85	30	55	0
	34	Slovak Republic				
	35	Sweden	33	33	0	0
Louis VanRooy	36	Algeria				
	37	Nigeria				
Jeff Keaton	38	South Africa	153	34	119	0
	39	Canada				
Maria Heloisa	40	Mexico				
	41	USA				
Yogendra Deva	42	Argentina	34	34	0	0
	43	Brazil	26	19	7	0
	44	Colombia	19	16	3	0
	45	Paraguay	29	0	29	0
Yogendra Deva	46	Peru				
	47	China P.R.	585	227	358	0
	48	Hong Kong SAS				
	49	India	134	39	95	0
	50	Indonesia				
	51	Iran				
	52	Japan	89	79	4	6
	53	Korea	125	5	121	0
	54	Malaysia				
	55	Nepal	60	4	56	0
	56	Singapore	120	3	117	0
	57	SEAGS	17	17	0	0
	58	Vietnam				
Individual Member			2			
Total			3562	1351	2189	20

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EVENTS  
OF IAEG  
NATIONAL  
GROUP

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//////////India

India National Group - Engineering Geological Solutions for Sustainable Development (EGCON-2017) on 7th & 8th October, 2017 in New Delhi, India



Indian Society of Engineering Geology (ISEG), the India National Group of IAEG is organising a two day International Conference on “**Engineering Geological Solutions for Sustainable Development (EGCON-2017)**” on 7th & 8th October, 2017 at New Delhi, India. Main purpose of this conference is to provide a platform to discuss and ponder upon recent developments in the field of Engineering Geology, advanced technologies in use for development of infra-projects that are economically viable, sustainable and environment friendly.

Apart from regular theme-based presentations and lectures by the speakers from different related fields, the conference shall be providing best opportunity to researchers and entrepreneurs in this field to listen and interact with the key-note speakers who will share their vast experiences and give insight on most-relevant technical issues. This international conference will also be a great opportunity for the private developers, consultancy agencies and manufacturers engaged in this field to exhibit their capabilities and develop rapport.



President ISEG releasing the Second Circular of the International Conference EGCON-2017 on 5th August 2017 at New Delhi, India.

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## EVENTS OF IAEG NATIONAL GROUP

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//////////Japan

The venue of the conference Eros Hotel is centrally located in New Delhi, the capital city of India at Nehru Place. The main venue of the conference is the Royale Ballroom of Eros hotel which offers state-of the art facility for holding conferences. All updates w.r.t. International Conference are available on ISEG websites [www.isegindia.org](http://www.isegindia.org) and [www.joegindia.com](http://www.joegindia.com). Foreign delegates are invited to submit abstracts & attend the conference.

Provided by Imran Sayeed  
Secretary of Indian National Group

### Japan National Group - Activities and News

#### 1) JSEG Investigation Team for Disaster Prevention

The JSEG Investigation team has been organized for Northern Kyushu flood and debris flow disaster induced by extreme heavy rain in July, 2017. JSEG organized the commission of Engineering Geology for Disaster Prevention, and investigation teams for Hiroshima debris and landslides disaster in 2014, and for Kumamoto earthquake in 2016. We, JSEG had the meeting with peoples in the disaster regions, and reported results of investigation and discussed the topographical and geological features in those areas, disaster prevention point of view. After the Hiroshima debris and landslides disaster, JSEG had field excursion with local young students who want to learn regional topographical and geological features, and disaster risk. Moreover, JSEG had the forum with main city peoples for understanding the geological features, history of the disasters, disaster risks, and relation between culture and natural features mainly in their living area.

#### Northern Kyushu debris and slope disaster

Recently, increasing number of extreme heavy hourly rain have occurred. It was about 130mm in 1 hour and 280mm in 3 hours in Northern Kyushu, July 5, 2017. This extreme heavy rain was caused by linear rainfall belt along the energetic seasonable front. This will be due to extreme weather caused by climate change. Many landslides about 300 places occurred in narrow area and in a short period, and debris flow with many destructive driftwoods attacked houses and peoples.

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## EVENTS OF IAEG NATIONAL GROUP

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//////////Japan



Numerous landslides occurred in Northern Kyusyu Disaster in 2017



Awful flood and debris flow with driftwoods attacked the peoples



Investigation of the landslide by JSEG members in Northern Kyushu Disaster

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EVENTS  
OF IAEG  
NATIONAL  
GROUP

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//////////Japan

**2) Slope Tectonics Conference**

Slope tectonics conference will be held on 14-18 October 2017, Kyoto. Slope Tectonics is a young geosciences discipline that deals with slope movement processes controlled by various factors, such as geological structures, topography, hydrology, rock weathering, and geotechnical properties of slope materials. The main aim of the conference is to bring together researchers dealing with slope movements from different approaches in order to improve the general understanding of slope processes. The location of the post conference field trip provides us the perfect setting to view sites related to one of the main topics: rock slope deformation and catastrophic failure in accretionary complexes and granitic rocks.

This conference follows the successful three Slope Tectonics Conferences in Lausanne (2008), Vienna (2011), and Trondheim (2014). The result of the previous conferences have been published as Geological Society of London, Special Publication v. 351, and as a special issue of Tectonophysics v. 605, and another one is in preparation for a special issue of Geomorphology. This conference also aims to produce a special issue in a relevant journal.



Deep-seated landslide  
occurred in 2011



Conference Chair: Prof.  
Masahiro Chigira-Chairman  
of IAEG Japan National  
Group

Provided By  
Daisuke Yamada

Secretary of the Japanese National Group of the IAEG

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## EVENTS OF IAEG NATIONAL GROUP

///////Malaysia

### Malaysian National Group - Geoscience Conference 2017 to be held on 9 to 10 October, 2017 in Kuala Lumpur, Malaysia

The Geological Society of Malaysia (GSM) will celebrate its 50th Anniversary next year. GSM will organize Geoscience Conference 2017 (NGC2017) from 9 to 10 October, 2017 in Kuala Lumpur. GSM has commissioned IAEG Malaysia National Group and Society for Engineering Geology and Rock Mechanics Malaysia (SEGRM) to manage one of the thematic/sub-conference on Engineering Geology and Rock Mechanics. IAEG has given the sponsorship to this GSM National Geoscience Conference 2017. As the event is part of IAEG bigger events, the Malaysian National Group hope more participants from IAEG could take part in this event.

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

#### Invitation



The Geological Society of Malaysia (GSM) proudly presents the National Geoscience Conference (NGC) 2017. The Society invites the international geoscientists community to join the event and engage in the knowledge sharing session in Kuala Lumpur on 9<sup>th</sup> – 10<sup>th</sup> October 2017.

The main theme for this 30<sup>th</sup> 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 50<sup>th</sup> 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.

#### Themes

##### Main Theme

#### **Geoscience for a Sustainable Future**

Limited natural resources and increasing concerns on the environment has forced geoscientists to venture into multiple fields to cater to the ever changing needs. While several traditional geoscience sectors are currently experiencing a slump, new arising opportunities are waiting to be capitalized and ensuring the sustainability.

##### Sub Themes

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

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## EVENTS OF IAEG NATIONAL GROUP

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////////Nigeria

### Nigeria National Group - Gradual Steps Of Nigerian Association for Engineering Geology and the Environment (NAEGE)

The journey of a thousand miles, they say begins with just a step and that is how it has been with the Nigerian Association for Engineering Geology and the Environment (NAEGE), a specialist group under the Nigerian Mining and Geosciences Society (NMGS). The group was one of the many specialist groups at the NMGS inception but only succeeded in organizing a conference in 1977. However, since 2006, the group had consistently met during NMGS International conferences and began their quarterly Technical meetings in 2008. From 2008 to date, the association has had two presidents in the persons of Prof. Clifford Sango Teme and Prof. Gabriel Oladapo Adeyemi with Mr. Tony Chukwuma serving as secretary to the association for the period.

From Technical meetings which had been robust, the association had her maiden International conference from 25th to 28th September, 2016 at the Lagos Airport Hotels, Ikeja, Lagos. The theme of the conference was Sustainability of Infrastructure and the Environment. The sub-themes were Sub-soil Investigation for Structures, Environmental Management, Naturally Occurring Construction Materials and Sustainability of Drilling and Mining Environment. During the conference which had more than 75 persons in attendance, so many papers were presented with the following lead papers.

**Waste to Wealth: Key to Sustainable Development in Nigeria by Prof. Oladele Osibanjo**

**Sustainability of Structures and Environment: Challenges for Engineering Geology Profession in the 21st Century by Prof. Eduvie G. Akpokodje**

**Aspects of the Influence of Engineering Geology on the Sustainability of Civil Engineering Infrastructure by Prof. Ebenezer A. Meshida**

**Sustainable Management of Biophysical Environment in Nigeria by Prof. Eduvie G. Akpokodje and**

**Engineering Geophysics: A Veritable Tool in Geotechnical Investigation by Prof. Gabriel O. Adeyemi.**

The conference had goodwill messages from the then Minister for Environment, Hajia Amina J. Mohammed, The President of Nigerian Association for Hydrogeologists (NAH), Chief D.O. Nwachukwu, the Minister for Water Resources, Engr. Sulaiman Adamu, and the

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## EVENTS OF IAEG NATIONAL GROUP

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////////Portugal

Director General, Nigerian Building and Road Research Institute,  
Prof. D.S. Matawal.

The second International conference of NAEGE comes up between 24th and 27th September, 2017 at the Lagos Airport Hotels, Ikeja, Lagos. The theme of the conference is Sustainability of Buildings and the Environment. The Sub-themes are Preconstruction Investigation for Buildings, Naturally Occurring Construction Materials, Environmental Impact Assessment (EIA) and Location and Evaluation of Waste Disposal Sites. With these theme and sub-themes, the association is preparing for a robust conference where one of the lead papers will be on training for Engineering Geologists. The Nigerian Association for Engineering Geology and the Environment is a registered Trustee in the Federal Republic of Nigeria.

Provided by

Tony Chukwuma

National Secretary, NAEGE

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

+2348023425200

### Portugal National Group - New Board Formed

On 7th September 2016 the Board of Directors of the Portuguese Geo-technical Society (SPG) has changed in the last year, the new Board of Portugal National Group (2016-2019) formed.

The New Board Members of Portugal National Group (2016-2019):

President: Manuel Matos Fernandes ([matos.fernandes@fe.up.pt](mailto:matos.fernandes@fe.up.pt))

Vice Presidente: Alexandre Pinto ([apinto@jetsj.com.pt](mailto:apinto@jetsj.com.pt))

Secretary General: Ana Vieira ([avieira@lnec.pt](mailto:avieira@lnec.pt))

Secretary: Hélder Chaminé ([hchamine@sapo.pt](mailto:hchamine@sapo.pt))

Treasurer: António Cristovão ([ajfcristovao@gmail.com](mailto:ajfcristovao@gmail.com))

Provided By

Catarina Luis

SPG secretariat

[spg@lnec.pt](mailto:spg@lnec.pt)

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## EVENTS OF IAEG NATIONAL GROUP

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////Switzerland

### Switzerland National Group - Conference on Progressive Rock Failure held on 5th-9th June, 2017 in Ascona, Switzerland

From the 5th – 9th of June 2017 the Engineering Geology group hosted PRF 2017, a conference on Progressive Rock Failure and time-dependent aspects of rock mass damage and strength degradation held at Congressi Stefano Franscini in Ascona, Switzerland. Addressing these topics offered an excellent opportunity to bring together a range of participants from the rock mechanics, engineering geology, material sciences and geomorphology communities. In total 54 practitioners and scientists from 37 separate institutions attended, with 30 participants remaining for a numerical modelling workshop held on the final day.

The conference included three days of talks and discussions from international experts with one day of integrated field excursions, and a workshop on the practical implementation of PRF in numerical models. The oral programme was split into five sessions, with keynotes, field investigations, lab investigations, theory and conceptual modelling, state-of-the-art numerical modelling, and was closed out with an afternoon of working groups focused on monitoring and modelling progressive failure, progressive failure in a changing climate, and safer infrastructure. Three field excursions were integrated into the middle of the week, visiting the Preonzo rock slope failure, the Schollenen Gorge and Sasso San Gotthardo on the Gotthard Pass, and the Bedretto Tunnel. The numerical modelling workshop included topics covering micro-mechanical to practical engineering approaches to modelling time-dependent rock degradation, Continuum and discontinuum based approaches to simulate time-dependent processes, and Simulation of fracture initiation and propagation using Fracture Mechanics code FRACOD. Please visit [www.prf2017.ethz.ch](http://www.prf2017.ethz.ch) to view extended abstracts and additional conference details.

We are grateful for financial and logistic support from the ETH, the Swiss National Science Foundation (SNF), the Swiss Federal Nuclear Safety Inspectorate (ENSI), Schweizerische Fachgruppe für Ingenieurgeologie (SFIG), the International Society for Rock Mechanics (ISRM), and ITASCA Consulting Group Inc. Two Early Career Scientist travel awards were awarded to Ms Anne Voigtländer, and Ms Chrysothemis Paraskevopoulou. The CSF Award for best young scientist presentation was awarded to Dr Odin Marc.

On behalf of the organizing committee, we'd like to thank all participants that made this a thoroughly successful event!

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## EVENTS OF IAEG NATIONAL GROUP

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////////Turkey



Group Photo - the Participants of PRF 2017

Provided By  
Simon Loew  
Professor for Engineering Geology  
ETH Zurich  
Switzerland

### Turkey National Group - News and Activities

General Assembly of Turkish National Group of Engineering Geology

General assembly of Turkish Society for Engineering Geology was hold on 10 June, 2017 in the congress room of the Turkish Chamber of Geological Engineering in Ankara. In the meeting, annual activity report of the executive committee and the inspection committee report of the society were explained to the members of the society.

In the same meeting, new members of the Executive Committee and Inspection Committee of the Society were elected.

**The executive committee and their positions are given below:**

President : Prof. Dr. Remzi KARAGÜZEL

Secretary General: Prof. Dr. Halil KUMSAR

Treasurer: Dr. Ayhan KOÇBAY

Member : Prof. Dr. Atiye TUĞRUL,

Member : Prof. Dr. Mahmut MUTLUTÜRK

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EVENTS  
OF IAEG  
NATIONAL  
GROUP  
//////////Turkey

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Member : Assoc. Prof. Dr. Yılmaz MAHMUTOĞLU

Member : Assoc. Prof. Dr. Hakan ERSOY

**The inspection committee of the society are given below:**

Mustafa Kemal AKMAN

Sina KIZIROĞLU

Assoc. Prof. Dr. Ergün TUNCAY

In the General Assembly meeting, Hüseyin ALAN (President of the Chamber of Geological Engineering of Turkey) thanked to the former and current executive committee members of the society. He also implied the coordination between engineering societies.

Prof. Dr. Reşat ULUSAY (former president) talked about the National Symposium on Engineering Geology and Geotechnics - MühJeo'2017 to be held in Adana between 12-14 October, 2017. He expressed that this symposium will be a good meeting for engineers to share new developments and their applications in engineering geology and geotechnical engineering.

Attended members of the society thanked to the former members of the executive committee for their great effort on implementing the society activities.

The members also wished success for the new members of the executive committee for future activities of the society.



Photo of General assembly on 10th June, 2017

Provided By  
Prof. Dr. Halil KUMSAR  
Secretary General of Turkish NG  
[kumsarh@gmail.com](mailto:kumsarh@gmail.com)

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## EVENTS OF IAEG COMMISSION

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### C20-The First International Standard on Sustainable Remediation Published in August 2017

The International Standards Organisation (ISO) published in August 2017 the first international standard on sustainable remediation. ISO 18504:2017 was drafted by a working chaired by IAEG member, Professor Paul Nathanail (University of Nottingham, UK). It includes a definition of sustainable remediation and builds on the principles of risk based contaminated land management that our own commission No. 20 is concerned with.

Sustainable remediation is the elimination and/or control of unacceptable risks in a safe and timely manner whilst optimising the environmental, social and economic value of the work. The ISO guidance will allow countries without the capacity to develop their own guidance to benefit from work done over the past decade by various groups around the world. The risk based approach to managing the legacy of historically contaminated soil and groundwater has been incorporated into policy, legislation and practice around the world. It helps determine the need for remediation and the end point of such remediation. A remediation strategy, comprising one or more remediation technologies, should deliver safe and timely elimination and/or control of unacceptable risks. ISO 18504:2017 will help assessors identify the most sustainable among the shortlisted valid alternative remediation strategies. The simplest means of ranking alternative remediation strategies should be adopted.

If anyone would like further information, please email Paul Nathanail (Professor of Engineering Geology, University of Nottingham) at [paul.nathanail@nottingham.ac.uk](mailto:paul.nathanail@nottingham.ac.uk).

Provided by  
Professor Paul Nathanail  
University of Nottingham  
President of IAEG Commission 20

## /5. NOTICE OF HANS CLOOS LECTURE



Prof. Resat Ulusay

The winner of 2016 Hans Cloos Medal, Prof. Resat Ulusay from Turkish National Group is invited by IAEG to give the Hans Cloos Lecture on 28th October, 2017 at the occasion of inauguration and award ceremony of 11th Asian Regional Conference. Prof. Resat Ulusay is selected as the winner of Hans Cloos Medal in 2016 by the Executive Committee, for the absence of the 2016 General Assembly in Cape Town, South Africa, the awarding ceremony was put off to 2017 in Nepal's 11th Asian Regional Conference. Prof. Resat Ulusay is going to give the 2016 Hans Cloos Lecture with the theme of Geo-engineering aspects on the structural stability and protection of historical man-made rock structures: An overview of Cappadocia Region (Turkey) in the UNESCO's World Heritage List, and the related paper will be published in the official journey of IAEG, the Bulletin of Engineering Geology and the Environment.

### The 2016 Hans Cloos Lecture

#### **Geo-engineering aspects on the structural stability and protection of historical man-made rock structures: An overview of Cappadocia Region (Turkey) in the UNESCO's World Heritage List**

**\*Reşat Ulusay<sup>1</sup> and Ömer Aydan<sup>2</sup>**

<sup>1</sup> Applied Geology Division, Department of Geological Engineering, Hacettepe University, Ankara, Turkey

<sup>2</sup> Department of Civil Engineering and Architecture, University of the Ryukyus, Okinawa, Japan

\*Corresponding author: [resat@hacettepe.edu.tr](mailto:resat@hacettepe.edu.tr)

**Abstract:** Underground space has long been used through the history for the purposes of human accommodation, religious ceremony, protection from climatic conditions, defence, food storage etc. by humankind. There are a number of man-made underground rock structures in different areas all over the world which are also called "rupestrian settlements". Although some of them preserved their structural integrity, some of them have been mainly affected by weathering in different rates, natural hazards such as earthquakes, volcanic activities and landslides, and human activities. These effects may cause damage to these structures, their partial or total collapse and their failure if they are located next to steep cliffs, their erosion and even some have been completely destroyed and no longer exist.

Therefore, both protection of their structural stability and minimizing the effects of internal and external factors on them have vital importance for all nations. Today the interest to utilization of underground space is still continuing. Besides assessment of the above mentioned issues is a complex endeavour, requiring expertise from the sciences of archaeology, architecture, conservation and geo-engineering such as engineering geology, rock mechanics and rock engineering.

The Cappadocia region in Turkey is one of the typical examples of these settlements. The Cappadocia region of Turkey is a typical example for rupestrian settlements and one of the sites in the world included in the World Heritage List by UNESCO in 1985. In this region, there are historical churches, dwellings, monasteries, cave

houses, semi-underground (cliff) settlements and underground cities carved in soft tuffs which are still survive, and modern man-made cavities used for multi-purposes. Easy carving and thermal isolation properties of the soft Cappadocian tuffs have been the main reasons for the extensive multi-purpose underground use in the region from the past to the present. In addition, short- and long-term behaviours of these rock-hewn structures and the surrounding soft tuffs are also important data source in terms of underground geo-engineering.

The main goals of this paper are to point out the importance of engineering geology and its

harmonization with rock mechanics and rock engineering in the assessments of short- and long-term mechanical behaviour of the host rocks, stability of rock-hewn structures and geo-engineering problems and environmental conditions associated with the historical rock-hewn structures with prime emphasize on the Cappadocia region. In addition, some cases selected from the Cappadocia region are also briefly discussed for highlighting the role of geo-engineering aspects on the stability and integrity of the historical rock-hewn structures and possible measures of their protection and mitigation are also given.

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UP COMING  
EVENT - The  
11th Asian  
Regional  
Conference

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**The 11th Asian Regional Conference of IAEG  
(ARC-11)**

**November 28-30, 2017**

**Kathmandu, Nepal**

Nepal Geological Society (NGS) is a professional geoscientific organization with over 840 members and nearly one third of them are international scientists. The Society is the National Group Member of International Association of Engineering Geology and the Environment (IAEG) and was member of Nepal National Committee on International Decade for Natural Disaster Reduction (IDNDR) to led the IDNDR activities in Nepal for a decade. The Society was honored with: the 1998 United Nations Sasakawa Disaster Prevention Award Certificate of Merit in appreciation for its contribution to disaster prevention, mitigation and preparedness and Science and Technology Promotion Award from Nepal Academy of Science and Technology (NAST) in recognition of its contribution in the research and promotion of geo-science. Since its establishment, NGS is providing platforms for scientists from all the continents to present research findings and exchange professional experiences and views on various aspects of geosciences. A number of regional and international symposiums, conferences and workshops in the past, including the IAEG international symposium on 'Engineering Geology, Hydrogeology and Natural Disaster' in 1999 and the Fifth Asian Regional Conference on 'Engineering Geology for Major Infrastructure Development and Natural Hazards Mitigation' in 2005. It has successfully organized the 8th Nepal Geological Congresses on November 27-29, 2016. All these scientific events have provided NGS a foundation for building effective geo-scientific cooperation among the geoscientists of the Himalaya, Tibet and Karakoram regions and other parts of the world.

As part of its scientific activities of this year, NGS is going to organize the Eleventh IAEG Asian Regional Conference (ARC-11) in Kathmandu, Nepal on 28-30 November 2017. Geoscientists

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**UP COMING  
EVENT - The  
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and engineers around the globe have contributed and also benefited from such Asian Regional Conferences of IAEG. Hence, we are confident that the forthcoming event is going to be yet another building block to enhance the geoengineering knowledge and to understand further the engineering geology in this part of the globe. This is the third time that an IAEG conference is going to be held in Nepal - a popular destination for geo-scientists and tourists. The conference will be an opportunity to all geoscientists and engineers for congenial discussions and sharing of new research findings in the field of engineering geology and geodisasters.

**THEME AND SUB-THEMES**

The main theme of the ARC-11 is Engineering Geology for Geodisaster Management, and it has the following sub- themes:

- 1. Engineering geology of landslides**
- 2. Neotectonics**
- 3. Geohazards in Asia**
- 4. Engineering geology in sustainable development and urban planning**
- 5. Foundation, underground geology, groundwater**
- 6. Tunnelling and related geodisaster management**
- 7. New technology**
- 8. 2015 Gorkha Earthquake**
- 9. Climate modelling for geohazard assessment**
- 10. Marine engineering geology and related geohazards**
- 11. Engineering geology of mines and quarry sites**
- 12. Geoethics in engineering geology and geodisaster information**
- 13. Prevention of geodisaster sites and geopark management**
- 14. Relationship between slope instabilities and road or railway**
- 15. Land subsidence in coastal and inland areas**
- 16. Engineering geology for disaster risk reduction**
- 17. Response and reaction of earth materials to natural phenomena**
- 18. Integrated engineering geology in infrastructural development for stability and sustainability**
- 19. Case studies for geohazard management**

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## UP COMING EVENT - The 11th Asian Regional Conference

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**20. Rock fall hazard and its mitigation**

**21. University courses on engineering geology**

**22. Other geohazards and hazard management**

**23. Others – related to engineering geology and geodisaster management**

Apart from the conference, there will be five field excursions in various parts of the country to give first-hand information of the engineering geological challenges in the Himalayan region to the delegates.

### **Pre-conference Tour**

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

### **Post-conference Excursions**

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

Ex-3: The 2015 Gorkha Earthquake Epicentre area visit (two- days)

Ex-4: Arniko Highway–China Border and observation of landslides, floods and slope protection works (two-day)

Ex-5: Japan Society of Engineering Geology (JSEG) Special Excursion (three days) - Gorkha and Pokhara area including Kathmandu-Pokhara roadside slope mitigation

### **Special Events**

The conference organizers are planning to hold few courses, special lectures and events in the conferences. Details of these events are available in [www.iaegarc11ngs.com](http://www.iaegarc11ngs.com).

1.Special Lecture on “How to write scientific paper?”:

Prof. Dr. Martin Culshaw - Chief Editor of Bulletin of Engineering Geology and Environment, Official journal of the International Association for Engineering Geology and the Environment (IAEG)

2.Special Lecture on “Landslide Hazard and Risk Management - From Slope Analysis to Engineering Practice” by Prof. Dr. Robin Chowdhury, University of Wollongong, Australia.

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**UP COMING  
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3. Young Engineering Geologists Event: The International Association for Engineering Geology and the Environment invites all members under 40 years of age to attend the ARC-11 Young Engineering Geologists event in Kathmandu on the 27th of November 2017. The event will take place on the afternoon of the pre-conference excursion, and will include short technical talks, a question-answer session with an expert panel, refreshments and an ice-breaker evening. All young members are welcome to attend regardless of participation. The event is free, but numbers are limited. Please register your attendance as soon as possible. Detail about this event is available in [www.iaegarc11ngs.com](http://www.iaegarc11ngs.com).

**Abstract submission**

Total number of participants already registered in the conference as of September 20, 2017, is 182 from 23 countries. The conference will accept abstract till October 30, 2017. This is extended date for abstract submission. Previously it was September 30, 2017.

All interested participants are requested to fill the registration form. For registration, if you wish to participate with a presentation, please prepare abstract as per the template provided in the web. Each participant can submit maximum two presentations in the ARC-11. 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. Interested participants can submit full paper after the conference for peer review. **Full paper submission deadline is January 31, 2018.** All peer reviewed full papers will be published in the Journal of Nepal Geological Society and will be published on 1 April 2018.

**Important Dates**

15 Oct. 2017: Closing of discounted registration fee

30 Oct. 2017: Abstract submission deadline

20 Nov 2017: Field excursion booking closes

21 Nov 2017: Conference final program and standard online registration closes

27 Nov 2017: Conference on site registration (only cash payment) starts

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## UP COMING EVENT - The 11th Asian Regional Conference

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### Keynote speakers:

In total, 11 geo-scientists around the world, are going to deliver key note speech in the conference. Their names and tentative titles are given below.

•**Prof. Scott F. Burns:** A major role for engineering geologists and geotechnical engineers internationally - help produce resiliency plans for major hazards with an example from Oregon, USA

•**Dr. Fausto Guzzetti:** Challenges for operational forecasting and early warning of rainfall induced landslides

•**Prof. Dr. Faquan Wu:** Statistic-Mechanical model of Rock Mass and its applications.

•**Prof. Dr. Fawu Wang:** Failure prediction of landslide dam and motion simulation of landslide.

•**Prof. Dr. Masahiro Chigira:** Preparatory processes of catastrophic landslides triggered by rainstorms and earthquakes.

•**Prof. Dr. Shuichi Hasegawa:** Engineering geology in active mountain belts.

•**Dr. Eldon Gath:** Paleoseismic studies of the Gatún, Limón, and Pedro Miguel faults for seismic hazard input to the Panama Canal expansion in Central America.

•**Dr. Janusz Wasowski:** Multi-temporal interferometry and high-resolution radar satellite data enable long-term slope monitoring and capturing of pre-failure signs of instability.

•**Dr. Surya Prakash (IAPG nominated keynote speaker):** Geoethics in Engineering Geology, Georisks Reduction, and Resilience.

•**Dr. Gopal Dhawan:** Managing geological situations at hydropower projects in Himalayas.

•**Dr. Prabhas Pande:** Seismotectonics and seismic hazard potential of northwest Himalaya

### Hans Cloos Lecture

Prof. Resat Ulusay from Hacettepe University, Faculty of Engineering, Dept. of Geological Engineering, TURKEY will give Hans Cloos Lecture in the conference. His presentation title will be “Geo-engineering aspects on the structural stability and protection of historical man-made rock structures: An overview of Cappadocia Region (Turkey) in the UNESCO’s World Heritage List”

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## UP COMING EVENT - The 11th Asian Regional Conference

### Online Registration and Registration fee

All interested participants are requested to fill registration form available in the conference website ([www.iaegarc11ngs.com](http://www.iaegarc11ngs.com)). The Conference organising committee is planning for online payment and bank transfer system. Detail platform is provided in web site [www.iaegarc11ngs.com](http://www.iaegarc11ngs.com).

Category	Timeline		
	March 15 - July 15, 2017, "Early Bird"	July 15 to October 15, 2017	After October 15, 2017
Foreign participants	US\$ 450	US \$ 500	US\$ 550
Accompanying persons of foreign participants	US\$ 250	US \$ 300	US\$ 350
Foreign students	US\$ 225	US \$ 250	US\$ 275
Participants from SAARC nations	US\$ 250	US \$ 300	US\$ 350
Accompanying persons of participants from SAARC nations	US\$ 175	US \$ 200	US \$ 225
Students from SAARC nations	US\$ 125	US\$ 150	US\$ 175
Participations from international organisations based in Nepal	US\$ 250	US\$ 300	US\$ 350
Institutional registration in Nepal	-	-	NRs. 15,000
Individual registration in Nepal	-	-	NRs. 7,000
<b>Pre-conference tour</b>			
Ex-1: A full day historical monument and geomorphological tour of Kathmandu Valley			US\$ 85
<b>Post-conference excursions</b>			
Ex-2: Kathmandu-Pokhara roadside slope protection work and Pokhara Valley tour (three-day) Pokhara - city of lakes and mountains			US\$ 320.00
Ex-3: The 2015 Gorkha Earthquake Epicentre area visit (two-day)			US\$ 275.00
Ex-4: Arniko Highway – China Border and observation of landslides, floods and slope protection works (two-day)			US\$ 250.00
Ex-5: Japan Society of Engineering Geology (JSEG) Special Excursion (three days) - Gorkha and Pokhara Area including Kathmandu-Pokhara roadside slope mitigation			US\$ 340.00

### Registration fee payment

All interested participant can pay registration fee by Bank Transfer and online payment system given in web [www.iaegarc11ngs.com](http://www.iaegarc11ngs.com).

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UP COMING  
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**Bank Transfer detail for Payment:**

Account name: Nepal Geological Society

Account Type: CURRENT

Account No: 0203217500574

SWIFT: NARBNPKA

Bank Name and Address: Nabil Bank Limited, Durbarmarg, Kathmandu, Nepal

Please send email to [rkdahal@gmail.com](mailto:rkdahal@gmail.com) and [societyngs@gmail.com](mailto:societyngs@gmail.com) for Invoice.

After the bank transfer, do not forget to send scan copy of bank transfer slip to [rkdahal@gmail.com](mailto:rkdahal@gmail.com) and [societyngs@gmail.com](mailto:societyngs@gmail.com).

**Organizers**

**Lead Organizer:** Nepal Geological Society

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

**1. Associated Partners:**

Department of Mines and Geology, Government of Nepal

Nepal Academy of Science and Technology (NAST)

National Reconstruction Authority (NRA)

President Chure-Terai Madhesh Conservation Development Board

Department of Irrigation, Government of Nepal

Tribhuvan University, Central Department of Geology, Geodisaster Research Centre

Department of Geology, Tri-Chandra Campus

Nepal Electricity Authority

International Centre for Integrated Mountain Development (ICIMOD)

Nepal Engineers' Association (NEA)

National Society for Earthquake Technology-Nepal (NSET Nepal)

Nepal Tunnelling Association

Nepal Landslide Society

Himalayan Landslide Society

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Nepal Hydrogeological Association

Society of Hydrologists and Meteorologists (SoHaM)

Nepal Hydropower Association

**2. International Partners:**

- International Consortium on Geo-disaster Reduction (ICGdR)
- Center for Disaster Management Informatics Research, Ehime University
- Faculty of Engineering, Kagawa University, Japan
- TrumerSchutzbauten, Austria
- Japan Society of Engineering Geology (JSEG)
- Indian Society of Engineering Geology (ISEG)

**Contact:**

**Chair:** Dr. Kabi Raj Paudyal, President, Nepal Geological Society,

Tel.: +977 9841528891, Email: [paudyalkabi1976@gmail.com](mailto:paudyalkabi1976@gmail.com)

**Convener:** Dr. Danda Pani Adhikari, Tel.: +977-9841712360,

Email: [adhikaridpntc@ntc.net.np](mailto:adhikaridpntc@ntc.net.np)

**IAEG National Group Coordinator – Nepal**

**Dr. Ranjan Kumar Dahal, Co-Convener**

Tel.: 977- 9851060464

Email: [rkdahal@gmail.com](mailto:rkdahal@gmail.com), [ranjan@tugeology.edu.np](mailto:ranjan@tugeology.edu.np)

**Secretariat:** Dr. Kamala Kant Acharya, General Secretary, Nepal Geological Society

Tel.: +977-9849121877,

Email: [kkantacharya@gmail.com](mailto:kkantacharya@gmail.com)

**Conference Email:**

[iaegarc11ngs@gmail.com](mailto:iaegarc11ngs@gmail.com)

cc to: [info@iaegarc11ngs.com](mailto:info@iaegarc11ngs.com)

**Conference Web:**

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

For further information, please visit following websites:

<http://www.ngs.org.np>; <http://iaegarc11ngs.com>

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## 2018 IAEG CONGRESS - CALL FOR PAPER

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### XIII IAEG Congress / AEG Annual Meeting

San Francisco, California, USA

September 17-21, 2018

### Call for Published Papers

Mark your calendar to join us for the 61st AEG Annual Meeting/13th IAEG Congress in San Francisco, California on September 17-21, 2018!

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.

#### **The abstract collection system is now open for published papers.**

If you prefer not to publish a paper, but instead prepare an abstract for an oral presentation or poster to be presented during the Congress, the call for abstracts for oral presentations and posters will be open January 15, 2018 - April 1, 2018. Deadline for Submission of Papers is Nov. 1st, 2017.

For more information about the XIII IAEG Congress / AEG Annual Meeting, visit our website: <http://www.aegweb.org/SanFrancisco2018>

#### **Registration Requirement for Publication**

Please plan to register and attend the Congress if your paper / oral presentation, or poster is accepted. Papers will not be published without a corresponding registration by at least one listed author who plans to present a paper / oral presentation, or poster.

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## MEETING INFORMATION

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Kyoto University, Kyoto, Japan, October 14-18, 2017

The 4th Slope Tectonics Conference



*Welcome to the 4th Slope Tectonics Conference!*

The 4th Slope Tectonics Conference at Kyoto University in Kyoto, Japan is going to be held on October 14-18, 2017. It will have two days meeting in Kyoto and following three days field trip in the Kii Mountains, a world heritage, in Kii Peninsula, central Japan.

Slope Tectonics is a young geoscience discipline that deals with slope movement processes controlled by various factors, such as geological structures, topography, hydrology, rock weathering, and geotechnical properties of slope materials. The main aim of the conference is to bring together researchers dealing with slope movements from different approaches in order to improve the general understanding of slope processes. The location of the post-conference field trip provides us the perfect setting to view sites related to one of the main topics: rock slope deformation and catastrophic failure in accretionary complexes and granitic rocks.

This conference follows the successful three Slope Tectonics Conferences in Lausanne (2008), Vienna (2011), and Trondheim (2014). The results of the previous conferences have been published as Geological Society of London, Special Publication v. 351, and as a special issue of Tectonophysics v. 605, and another one is in preparation for a special issue of Geomorphology. This conference also aims to produce a special issue in a relevant journal.

Conference Website: <http://www.slope.dpri.kyoto-u.ac.jp/SlopeTectonics2017/st2017.html>

**Conference Date and Venue:**

**Date:** October 14-18, 2017

**Venue:** Oubaku Plaza, Uji Campus at Kyoto University in Kyoto, Japan

Please download the 1 st Circular of Slope Tectonics 2017 via the followed link:

<http://www.slope.dpri.kyoto-u.ac.jp/SlopeTectonics2017/circulars.html>

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## MEETING INFORMATION

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### 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 Geo-hazards,

Shaoxing University, Shaoxing city, Zhejiang province, China

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



**Oct. 28-30 8:00 - 18:00**

**2017**

Center of Rock Mechanics and Geo-hazards, Shaoxing University

# Shaoxing International Forum on Rock Mechanics and Engineering Geology

**B | The Rock Mechanical and Engineering & Geological problems for the Silk Road Economic Belt and the 21st-Century Maritime Silk Road**

**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)

Rafiq 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 Peng, China
Shigui Du, China	Qihu Qian, China
Mark Eggers, Australia	Eda Quadros, Brazil
Derek Elsworth, USA	Louis van Rooy, South Africa
Xiating Feng, China	Shengwu Song, China
Maria Heloisa Frasca, Brazil	Jun Sun, China
Runqiu Huang, China	Resat Ulusay, Turkey
Jianliang Jiang, China	Sijing Wang, China
Yujing Jiang, China	Faquan Wu, China
Shuai 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: Zulle 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@us.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 JRMGE for review and possible publication)

Deadline for PPT submission: 1 October 2017

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Atlanta, USA, November 16-17, 2017

World Congress on Geo Chemistry

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## MEETING INFORMATION

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November 16-17, 2017  
Atlanta, Georgia, USA



The World Congress on Geo Chemistry is going to be held in Atlanta, USA on November 16-17, 2017. Geochemistry conference 2017 points towards addressing main issues as well as future strategies of Geo chemistry. This is going to be the largest and most promising international conference where geology and chemistry professionals as well as decision makers will come to discuss and debate on various aspects of the challenges, risks and investment opportunities throughout the complete integrated energy and utilities supply chain.

Conference Website: <http://geochemistry.cmesociety.com>

**Conference Theme:** Current Trends and Innovations in Geo Chemistry.

**Conference Topics:**

- 1.Environmental geochemistry and health
- 2.Isotope geochemistry
- 3.Organic and Inorganic geochemistry
- 4.Petroleum geochemistry
- 5.Water chemistry
- 6.Soil geochemistry
- 7.Eutrophication
- 8.Applied geochemistry
- 9.Photo geochemistry
- 10.Regional geochemistry
- 11.Aqueous geochemistry
- 12.Material science
- 13.Bio-geochemistry

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## MEETING INFORMATION

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**Tehran, Iran, February 25-27, 2018**

**The 36th National and the 3rd International Geosciences Congress**



The 36th National and the 3rd International Geological Congress of Iran will be held in Tehran, from 25th to 27th February 2018. This is a well established event with more than three decades national meeting being organized by Geological Survey of Iran (GSI) every year since 1982. The congress covers all aspects of earth sciences from regional to local scales studies, and from deep process to surface features, as well as human and earth interaction through mining or dealing with natural hazards. The congress aims to bring together leading academic scientist and researchers and share their experience and new research results with others. The congress provides also an opportunity to visit natural beauties and geological attractions of Iran along with unique civilization which offers visitors a distinct charm of oriental traditions.

Conference Website: <http://36nigc.conference.gsi.ir/en/download/Download.html>

### **Conference Date and Venue:**

**Date:** 25th - 27th February, 2018

**Venue:** Geological Survey of Iran, Tehran

### **Important Dates:**

- 21st August: Registration open
- 23rd August: Article submission open
- 24th November: Deadline for article submission
- 25th December: Notifications of acceptance
- 25th -27th February: Congress dates

### **Conference Main Topics:**

The scientific program includes oral and poster sessions of technical works and keynote speeches by outstanding scientist. The congress covers all fields of earth sciences and categorized in the following major topics:

1.Fundamental Geology

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## MEETING INFORMATION

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- 2.Natural Hazards and climate change
- 3.Environmental Geology
- 4.Mineral Exploration
- 5.Mineral Processing and Ore Dressing
- 6.Earth Sciences Education and Geotourism

**Ilheus, Bahia, Brazil, April 26-29, 2018**

The Global Stone Congress 2018 (GSC)



The Global Stone Congress 2018 is going to be held in Ilheus, Bahia, Brazil on April 26-29, 2018. In the course of its history, the Global Stone Congress(GSC) has witnessed significant changes in the natural stone industry, with marked growth in world production and international trade, as well as the transfer of quarrying and processing activities to countries outside Europe. Commercial conditions, linked to increasingly rigorous sustainability criteria, permeate mining-industrial production chains, such as the stones industry. From now on, materials for the coverings market require examination under the guise of the so-called, circular economy, which is based on a broader concept than sustainability alone.

The new conditions were governed by the globalization of the market, and this resulted in the transposition of laws, standards and regulations that are increasingly stringent for natural stone producing countries. It is in this context that the organization of GSC 2018 is being conducted, as a forum for expert discussion of the challenges and opportunities relative to sustainability and the growth of the industry in the 21st century.

Conference Website: <http://www.globalstonecongress2018.com.br/ing/>

**Conference Date and Venue:**

**Date:** April 26-29, 2018

**Venue:** JardimAtlântico Beach Resort

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## MEETING INFORMATION

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Ilheus-Olivença Road – km 2 – s/n – Jardim Atlântico

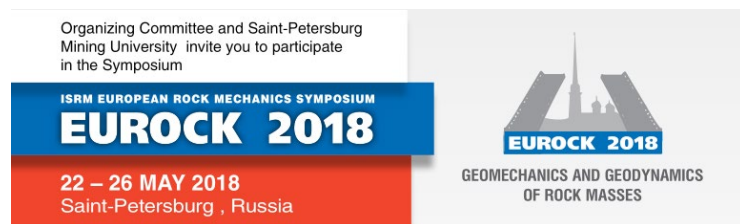
Ilheus, Bahia State, Brazil

### Objectives:

1. Gather internationally renowned specialists to share knowledge and discuss the latest advances in the natural stone industry.
2. Promote international technical cooperation for the natural stone industry, with a view to development of projects and research.
3. Evaluate specification criteria, application and coverings design, in addition to adaptation of standardized testing of the stones' technological characterization.
4. Discuss the historical and contemporary usage of stones in buildings.
5. Connecting minds in the world of stone: industrialists, architects, civil engineers, designers, real estate market professionals, scientific researchers, among others, drawing them closer together to think collectively and seek solutions to the challenges of the 21st century.

**Saint-Petersburg, Russia, May 22-26 , 2018**

**ISRM European Rock Mechanics Symposium  
EUROCK 2018**



The ISRM European Rock Mechanics Symposium EUROCK 2018 is going to be held in Saint-Petersburg, Russia on May 22-26, 2018. The Symposium is organized by the Russian Geo-mechanics Association, the theme major in Geo-mechanics and Geo-dynamics of Rock Masses.

Conference Website: [www.euRoCK2018.com](http://www.euRoCK2018.com)

### Important Dates:

- Abstracts shall be submitted before **31.08 8.17**
- Informing about the acceptance of abstracts **15.09 9.17**
- Full papers shall be submitted before **20.11.17**

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- Informing about the reception of full papers **20.12.17**

The publication of accepted papers is possible only with payment of registration fees before **10.02.2018**.

### **Conference Main Topics:**

1. Physical and mechanical properties of fractured rock (laboratory testing and rock properties, field measurements and site investigations)
2. Geophysics in rock mechanics
3. Rock mass strength and failure
4. Nonlinear problems in rock mechanics
5. Effect of joint water on the behavior of rock foundation
6. Numerical modeling and back analysis
7. Mineral resources development: methods and rock mechanics problems
8. Rock mechanics and underground construction in mining, hydropower industry and civil engineering
9. Rock mechanics in petroleum engineering
10. Geodynamics and monitoring of rock mass behavior
11. Risks and hazards
12. Geomechanics of technogenic deposits

### **Registration Fee:**

- 560 \$ (USD) ISRM members
- 700 \$ (USD) Regular participants
- 230 \$ (USD) Participants up to 35 years

Early registration (-15%) before 10.02.2018

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**Coex, Seoul, Republic of Korea, September 16- 21, 2018**

**The 11th International Conference on Geosynthetics**



The 11th International Conference on Geosynthetics is going to be held in Coex, Seoul, Korea on September 16-21, 2018. The conference will be hosted by Korean Geotechnical Society (KGSS) and the theme is Geosynthetics: Innovative Solutions for Sustainable Development. A wealth of scientific programs have been prepared to promote a wide selection of experts from geotechnique and geosynthetics professions and to exceed expectations of participants of 11ICG. A total of 63 sessions of scientific programs will include invited lectures such as Giroud Lecture, welcome lecture, keynote lecture, prestigious lectures by distinguished experts in this field, short courses and technical sessions.

Conference Website: <http://www.11icg-seoul.org/>

**Important Dates:**

- Paper Submission Deadline SEP. 29, 2017
- Paper Acceptance Notice DEC. 29, 2017
- Final Paper Submission Deadline MAR. 30, 2018
- Early Registration Deadline MAR. 30, 2018

**Main Themes and Topics:**

1. Sustainability and Green Technology with Geosynthetics
2. Geosynthetic Barriers
3. Geosynthetics in Filtration, Drainage and Erosion Control

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- 4.Reinforced Walls and Slopes
- 5.Ground Improvement Using Geosynthetics
- 6.Roads, Railways and Other Transportation Applications
- 7.Soil-Geosynthetic Interaction
- 8.Hydraulic Applications
- 9.Innovative Uses and New Developments
- 10.Case Histories
- 11.Durability and Long Term Performance
- 12.Physical and Numerical Analysis
- 13.Geosynthetics Properties and Testing
- 14.Quality Control and Quality Assurance
- 15.Design Approaches and Other Applications

### **Cairo, Egypt, November 24-28, 2018**

### **GeoMEast 2018 International Congress and Exhibition-Sustainable Civil Infrastructures: Structural Integrity**



GeoMEast 2018 International Congress and Exhibition will be held in Cairo, Egypt from November 24 to 28, 2018. The GeoMEast SERIES is managed by SSIGE and supported by a number of leading international professional organizations.

Recent rapid construction in Middle East has provided great opportunities for bridge, pavement, geotechnical, geological, tunnel and all engineers to use their knowledge and talents to solve many challenging problems involving highways, bridge structures, pavements, materials, ground improvements, slopes, excavations, dams, canals and tunnels with innovative solutions and cutting-edge technologies.

GeoMEast 2018 will provide a showcase for recent developments and advancements in design,

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## MEETING INFORMATION

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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: [www.GeoMEast2018.org](http://www.GeoMEast2018.org)

### **Important Dates:**

**October 1, 2017:** Open for Abstract submission

**December 15, 2017:** Deadline for Abstract submission

**Jan 15, 2018:** Notify authors of accepted Abstracts

**April 15, 2018:** Deadline for Full Paper submission

**May 15, 2018: Notify authors of Accepted Papers**

**June 30, 2018:** Final Camera-Ready Papers

**November 24~28, 2018:** Conference Days

### **Conference 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

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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 Geosciences, Geomatics, Geoinformatics, Geophysics and Global Hazards

### **Sustainable Infrastructures**

12. Structures and Bridges Engineering: Advanced Analysis of Structures; Non-Destructive

13. Tunneling Engineering: Tunnel Management and Inventory, Monitoring and Settlement

14. Pavement Engineering, Airports and Advances in Pavement Techniques: Airfield pavement

15. Transportation Engineering; Highway Pavements: Design, Materials, and Construction;

Transportation Operations and Safety; Advanced Technologies, Infrastructure Systems,

Intermodal Transportation, Planning, and Development; Rail and Transit; Aviation.

16. Railroad and Railway Engineering; Railway and Railroad Track Substructure; High Speed Rail System; Seismic Design for Railway and Roadway Structures; Economics of Railway Engineering and Operations; Structures, Maintenance and Construction; Innovative Procedures and Precautions; Long Term Pavement Performance Contest; BIM and Contract Administration.

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

18. Engineering geology for urban and major infrastructure development.

### **Climate Change and its effects on Civil Infrastructure**

19. Sustainability and Energy Engineering;

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

21. Energy Geotechnics and Geo-Energy Infrastructure.

22. Materials Engineering, Nanotechnologies, Advances in

## MEETING INFORMATION

Composite Materials, Climate-Friendly Technologies, and Damage Mechanics.

23. Structural Health Monitoring, and Sustainable Construction Technologies, and Advanced Analysis for Sustainable Design.

24. Worldwide innovative procedures and precautions for the Design;

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

### Guimarães, Portugal, March 27-29, 2019

IABSE Conference Guimarães 2019 “Towards a Resilient Built Environment–Risk and Asset Management”



The upcoming event IABSE Conference Guimarães 2019 “Towards a Resilient Built Environment -Risk and Asset Management” is going to be held in Guimarães, Portugal on March 27-29, 2019. The IABSE Conference is organised by the Portuguese Group of the International Association for Bridge and Structural Engineering (IABSE). The Conference aims to provide an international forum for the debate on, among others, important issues such as the sustainability of the built environment, risk assessment and asset management in infrastructures.

Conference Website: [www.iabse.org/guimaraes2019](http://www.iabse.org/guimaraes2019)

#### Conference Venue:

Vila Flor Cultural Centre

Avenida D. Afonso Henriques 70

4810-431 Guimarães, Portugal

#### Important Dates:

Submission of Abstracts opens: **September 1, 2017**

Deadline for submissions of Abstracts: **February 28, 2018**

Notifications to Authors (accept/reject): **April 30, 2018**

Deadline for submissions of full papers: **July 15, 2018**

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Notifications to Authors (accept/reject): **October 30, 2018**

**Conference Themes:**

1. Novel Management Tools for the Built Environment
2. Lifecycle Quality Control of New and Existing Infrastructures
3. Advanced Frameworks for a Sustainable Built Environment
4. Risk Analysis Procedures, from Theory to Practice
5. Future Trends in Structural Engineering

**Deadlines for Registration:**

Early Bird fee until: **November 30, 2018**

Standard Fee: **December 1, 2018 - March 25, 2019**

On site: **March 26, 2019**

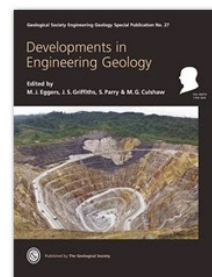
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**SPECIAL  
PUBLICATION-  
Developments  
in Engineering  
Geology**

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The  
Geological  
Society



#### Description

Engineering Geology Special Publication 27.

Developments in Engineering Geology is a showcase of the diversity in the science and practice of engineering geology. All branches of geology are applicable to solving engineering problems and this presents a wide frontier of scientific opportunity to engineering geology. In practice, diversity represents a different set of challenges with the distinctive character of the profession derived from the crossover between the disciplines of geology and engineering. This book emphasizes the importance of understanding the geological science behind the engineering behaviour of a soil or rock. It also highlights a continuing expansion in the practice areas of engineering geology and illustrates how this is opening new frontiers to the profession thereby introducing new knowledge and technology across a range of applications. This is initiating an evolution in the way geology is modelled in engineering, geohazard and environmental studies in modern and traditional areas of engineering geology.

Published online 21/09/2016. Print copies available from 12/10/2016.

Other Societies rate: please see the Bookshop FAQ for a list of qualifying membership organisations.

Type:	Book
Ten Digit ISBN:	
Thirteen Digit ISBN:	9781862399686
Publisher:	GSL
Binding:	Hardback
Pages:	253
Weight:	1 kg

For more information, you may visit the website:

Website: <https://www.geolsoc.org.uk/spe27>

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