



# IAEG

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## NEWSLETTER

Issue No.2, 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. NEWS OF EXECUTIVE COMMITTEE

## IAEG Executive Committee Midyear Meeting

A two days working meeting of IAEG Executive Committee was held in Hyatt Place London Heathrow Airport, London on April 22-23, 2017. Scott Burns, the IAEG president, chaired and 12 members of the IAEG Executive Committee attended the meeting. Eldon Gath represented Jeff Keaton attended the meeting.

In the opening address, Scott thanked Faquan Wu and Qian Huang for setting up the meeting, and thanked all of the participants for making this meeting a priority. For the second year in a row we have a full contingent of participants. This is "Miracle Meeting II"! We are now 58% of the way through our term. The aims of the meeting are to take the Strategic Plan to the next level, talk about committees and commissions, the San Francisco congress and many ways to improve our society!



Working Meeting of IAEG Executive Committee on April 22-23, 2017

Led by Mark Eggers, the meeting continued talking about the Strategic Plan. All the discussion, the feedback from national groups on the definition of the Strategic Plan will be taken into consideration when doing the revisions. The strategic goals and actions of IAEG will be developed, and these will be presented to the Council in Nepal at the Council Meeting.

Members of TOC gave report on the Commissions. Each vice president have kept contacting the commissions they are in charge of, a part of the commissions have no chair and are not active while some are fully active. The meeting analyzed the commissions as a whole, pointed out that the commissions are a major important part of IAEG and they should function well. We need to develop new commissions in the areas we have needs, and close those that have lost their purpose and are not active. The vice presidents should encourage their contacted commissions to hold symposia or sessions in San Francisco during the 13th IAEG Congress.

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Group Photo of IAEG Executive Committee

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The newly formed 8 board level committees of IAEG will have administrative functions for IAEG, the chairpersons of the committees were discussed at the meeting. Several committees, like Strategic Plan, TOC, Membership, YEG and Fees - Finances, have started to get work moving and progresses are developed. Scott and Faquan will develop the first draft the Terms and Reference for each of the committees which will be presented to the Executive Committee in Nepal.

Martin Culshaw, the chief editor of Bulletin and Giorgio Lollino, the web editor gave reports respectively. Martin said that, when the Bulletin goes fully electronic in 2019, the cost for subscription of Bulletin will reduce and Springer fee per volume/member will increase. He hopes to have more papers of case studies in the journal and have

# **/1. NEWS OF EXECUTIVE COMMITTEE**

more thematic issues in the future without losing quality. The Bulletin will celebrate its 50th anniversary in 2019 and it is hoped to have an issue with a section on “heroes in engineering geology.” Giorgio reported that the website has a new platform CMS and a new page for webinar authors, upcoming events, and award winners, some restricted part only opened for IAEG members. The website did a member survey to all IAEG members this year. Some problems were also mentioned about the website work.

The Treasurer, Jean-Alain, reported the financial situation for the 2016 fiscal year a predicted budget for 2017. In order to have a sustainable budget, it is suggested to keep the increase rates of membership to balance the budget.

The Secretary General, Faquan Wu, presented some suggestions on the implementation of the Strategic Plan, mainly regarding commissions work, awards, membership services, and membership database. Yogendra Deva, the vice president for Asia suggested that more direct communication with members is needed, and we need new membership data help us in planning and defining who we are.

For some upcoming conferences, the important dates of the 11th ARC in Nepal, November 2017 has been confirmed, and the abstracts are due in September 2017, and the Council Meeting in 2017 will take place on 26th November there. The Korea national group has submitted the application for hosting the 12th ARC in 2019 and the Singapore national group is to apply for hosting the 13th ARC in 2021. Both of them will present applications to the Council for approval in Nepal. Scott reported on updates from the local committee of the 13th Congress in San Francisco in 2018, some dates and schedule of the Congress has been settled.

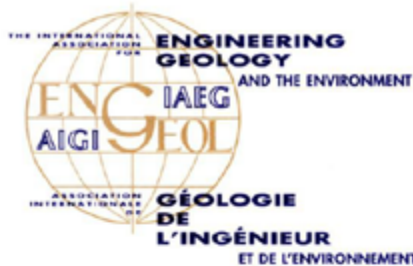
## **Date and Venue of the 2017 IAEG Council Meeting**

We are pleased to announce that the 2017 Council Meeting will take place on 26th November 2017 at the Yak and Yeti Hotel in Kathmandu, Nepal during the 11th Asian Regional Conference. Please make the important date in your calendar.

## **NOTIFICATION FOR MANAGEMENT COMMITTEES**

At the council meeting which was held on August 28th , 2016, in Cape Town, South Africa, IAEG has set five management committees and the chairperson and assistant chair have been appointed for each committee, the appointment letters are followed:

# /1. NEWS OF EXECUTIVE COMMITTEE



<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>Vice Presidents</b>	
Africa:	Prof. Louis Van Rooy
Asia:	Dr. Yogendra Deva
Australasia:	Dr. Mark Eggers
Europe:	Prof. Giorgio Lollino
	Prof. Rafiq Azzam
North America:	Dr. Jeffrey Keaton
South America:	Dr. Maria Heloisa Frascá

IAEG Secretariat:  
Shaoxing University  
No. 508 Huanchengxilu, Shaoxing City, Zhejiang Province, 312000, CHINA  
Tel./Fax: +86 -0575 -8834 6551, Mobile: +86 13910509508  
Email: [iaegsg@163.com](mailto:iaegsg@163.com)

## Appointment for IAEG Enterprise Committee

According to the decision of the IAEG Council Meeting in Cape Town, South Africa on August 28th, 2016, we are going to set up the Enterprise Committee to promote engagement with companies, corporations and agencies of the association. I am pleased to appoint Jeff Keaton as the chairperson and Wei Zhang as the assistant of the Committee from January 1st, 2017.

The responsibilities for the chairperson are as followed:

1. Propose the objective and plan of the committee including the goals, actions and procedure for their accomplishments.
2. Promote engagement with companies, corporations and agencies of the association.
3. Organize activities and provide services to the Committee members.
4. Annually report to the Executive Committee and the Council.

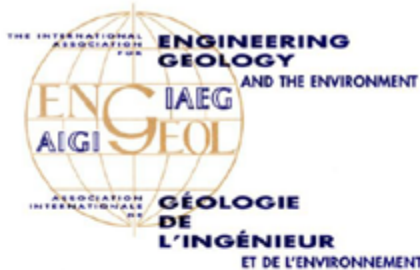
Scott Burns

President, International Association for Engineering Geology and the Environment

January 1st 2017



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## Appointment for IAEG Fees and Finance Committee

According to the decision of the IAEG Council Meeting in Cape Town, South Africa on August 28th, 2016, we are going to set up the Fees and Finance Committee to manage the finances and review the cost of services, fee structure and fee level. I am pleased to appoint Jean-Alain Fleurisson as the chairperson of this Committee from January 1st, 2017.

The responsibilities for the chairperson are as followed:

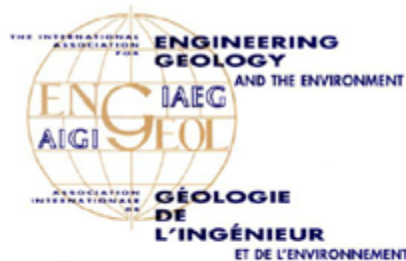
1. Propose the objective and plan of the committee including the goals, actions and procedure for the committee.
2. Manage the finances and review the cost of services, fee structure and fee level.
3. Annually report the financial results and budget of IAEG to the IAEG Executive Committee and Council.

Scott Burns

President, International Association for Engineering Geology and the Environment

January 1st 2017

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## Appointment for IAEG Membership Committee

According to the decision of the IAEG Council Meeting in Cape Town, South Africa on August 28th, 2016, we are going to set up the Membership Committee to monitor, promote and manage the membership of the association. I am pleased to appoint Faquan Wu as the chairperson and Yogendra Deva as the assistant chair of the Committee from January 1st, 2017.

The responsibilities for the chairperson are as followed:

1. Propose the objective and plan of the committee including the goals, actions and procedure for their accomplishments.
2. Promote the recruitment of IAEG membership through the help of all national groups and regional vice presidents.
3. Improve and enhance the services to the members of IAEG through the help of the Bulletin, website, commissions and national groups.
4. Annually report the progress of the membership recruitment and services to the IAEG Executive Committee and Council.

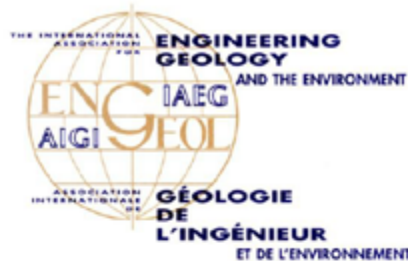
Scott Burns

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January 1st 2017



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## Appointment for IAEG Strategic Plan Committee

According to the decision of the IAEG Council Meeting in Cape Town, South Africa on August 28th, 2016, we are going to set up the Strategic Plan Committee to develop and periodically review the Strategic Plan of the association. I am pleased to appoint Scott Burns as the chairperson and Mark Eggers as the assistant chair of the Committee from January 1st, 2017.

The responsibilities for the chairperson are as followed:

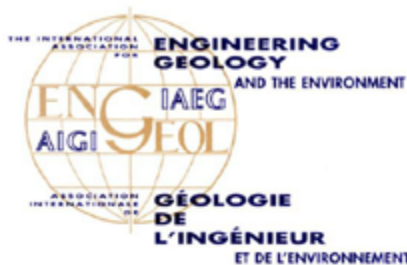
1. Propose the objective and plan of the committee including the goals, actions and procedure for their accomplishments.
2. Develop and periodically review the Strategic Plan of the association.
3. Propose the drafts of modified IAEG Statutes and Bylaws to the Executive Committee and the Council.

Scott Burns

President, International Association for Engineering Geology and the Environment

January 1st 2017

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## Appointment for IAEG Young Engineering Geologists Committee

According to the decision of the IAEG Council Meeting in Cape Town, South Africa on August 28th, 2016, we are going to set up the Young Engineering Geologists Committee to promote activities and engagements for younger members of the association. I am pleased to appoint Louise Vick as the chairperson and Morley Beckman as the assistant of the Committee from January 1st, 2017.

The responsibilities for the chairperson are as followed:

1. Propose the objective and plan of the committee including the goals, actions and procedure for their accomplishments.
2. Promote activities and engagements for younger members of the association.
3. Provide services to the young members.
4. Annually report the state and progress to the Executive Committee and the Council.

Scott Burns

President, International Association for Engineering Geology and the Environment

January 1st 2017

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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				
	14	Romania	28	19	9	0
	15	Serbia				
	16	Slovenia	27	4	23	0
	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	75	30	45	0
	24	Czech Republic	29	16	13	0
	25	Denmark				
	26	Estonia				
	27	Finland	21	1	20	0
	28	Germany	521	52	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	148	34	114	0
	39	Canada				
Maria Heloisa	40	Mexico				
	41	USA				
Yogendra Deva	42	Argentina				
	43	Brazil	26	19	7	0
	44	Colombia	19	16	3	0
	45	Paraguay				
	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				
	56	Singapore	120	3	117	0
	57	SEAGS				
	58	Vietnam				
Individual Member			2			
Total			3282	1219	2042	19

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## EVENTS OF IAEG NATIONAL GROUP

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//////////China

### **China National Group-iRALL School 2017 “Field data collection, monitoring and modelling of large landslides” on 15–27 October 2017 in Chengdu, China**

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

The objectives of iRALL are to promote:

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

iRALL Chairman:

Dr. Runqiu HUANG, Chengdu University of Technology, China

**Vice Chairmen:**

Dr. Mauri MCSAVENEY, GNS Science, New Zealand

Dr. Alexander STROM, Geodynamics Research Center, JSC "Hydroproject Institute", Russia

Dr. David PETLEY, University of Sheffield, UK

Dr. Gonghui WANG, Kyoto University, Japan

**Secretaries**

Dr. Wei HU, Chengdu University of Technology, China

Dr. Xuanmei FAN, Chengdu University of Technology, China

iRALL offers annually a 2 weeks high-level course, the “iRALL School”, focusing on investigation, analysis, and management of large landslides for Ph.D students and postdocs from all over the world, with international

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## EVENTS OF IAEG NATIONAL GROUP

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//////////China

experts on the research of large landslides as teaching staff.

### Hosting Institution for the iRALL School 2017

State Key Laboratory of Geohazard Prevention and Geoenvironment Protection (SKLGP) of the Chengdu University of Technology (CDUT), Chengdu, Prov. Sichuan, China. CDUT has excellent facilities, including lecture rooms, computer rooms, laboratories, and a guesthouse. Most part of the program of the iRALL School 2017 will be conducted in the new conference center in the nearby New Beichuan area where 60 000 landslides were generated during the great 2008 Wenchuan earthquake.

### Topics taught in the 2017 iRALL School:

1. Occurrence of large/giant landslides:
  - Types (rock avalanches, large rockslides, debris avalanches, etc.) - Identification criteria - Geological context (morpho-structural setting, lithology, etc.).
2. Investigation and mapping of large landslides
  - Characterization and mapping - Surface and subsurface data collection - Monitoring (in-situ, remote) of movement
3. Initiation and movement mechanism of large landslides
  - Initiation mechanisms - Triggers - Runout analysis and modeling
4. Monitoring and early-warning of large landslides
5. Mitigation, prevention and protection strategies for large landslides
  - Hazard and risk analysis - Risk scenarios - Risk prevention and mitigation - Early warning
6. Disaster-chain effects

During 3 days of fieldwork, each with a different theme, and supervised by the teaching staff of the iRALL School 2017, the participants can apply in a small group the acquired knowledge in the area hit by the 2008 Great Wenchuan Earthquake.

Theme 1: Field inventory and mapping of a very large

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## EVENTS OF IAEG NATIONAL GROUP

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//////////China

landslide

Theme 2: A giant landslide from the inside

Theme 3: Resonance seismic delineation of a large landslide body

### Teaching staff of the iRALL School 2017

Dr. Wei HU, Chengdu University of Technology, China  
(Course director)

Dr. Xuanmei FAN, Chengdu University of Technology,  
China (Course director)

Dr. Hans-Balder HAVENITH, University of Liege, Belgium

Dr. Runqiu HUANG, Chengdu University of Technology,  
China

Dr. Hengxin LAN, Academy of Sciences, Beijing, China

Dr. Vaughan GRIFFITHS, Colorado School of Mines, USA

Dr. Mauri MCSAVENEY, GNS Science, New Zealand  
(Emeritus)

Dr. Niek RENGERS, ITC, University of Twente, the  
Netherlands (retired)

Dr. Theo VAN ASCH, University of Utrecht, the  
Netherlands (retired)

Dr. Cees VAN WESTEN, ITC, University of Twente, the  
Netherlands

Dr. GongHui WANG, Kyoto University, Japan

Dr. Yunsheng WANG, Chengdu University of  
Technology, China

Dr. Janusz WASOWSKI, CNR, IRPI, Bari, Italy

Dr. Qiang XU, Chengdu University of Technology, China

Dr. Xiujun DONG., Chengdu University of Technology,  
China

### Application procedure for PhD students and postdocs:

The school is open to 20 Ph.D students and 10 doctors/  
postdocs, which will be selected after an international  
call. Applications should be made by sending an  
application form and by providing a CV (max 2 pages)  
and 1 or more letters of recommendation.

The deadline for applications is August 1st, 2017 and



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## EVENTS OF IAEG NATIONAL GROUP

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### /Czech Republic

selection of participants will be announced by August 15th, 2017. For information, you can send an email to [sklgp\\_cdut@126.com](mailto:sklgp_cdut@126.com).

iRALL School website:

<http://irall.sklgp.com/en/index.html>

Attachments of Application Form:

[https://www.dropbox.com/sh/ankgr9h90mvjxjq/AAD4VbIVTxrVT\\_ZCUTIWWjITa?dl=0](https://www.dropbox.com/sh/ankgr9h90mvjxjq/AAD4VbIVTxrVT_ZCUTIWWjITa?dl=0)

### **Czech Republic National Group - Report of activities for a period May 2016 - May 2017**

President:

Assoc. Prof. Pavel Pospíšil

Institute of Geotechnics and Underground Engineering,  
Faculty of Civil Engineering

VSb – Technical University of Ostrava

17. listopadu 15, 708 33 Ostrava-Poruba, Czech Republic

Phone: +420 604843987, e-mail: [pavel.pospisil@vsb.cz](mailto:pavel.pospisil@vsb.cz)

Secretary:

Dr. Jan Novotný

Institute of Rock Structures and Mechanics

V Holešovičkách 41, 182 09 Prague 8, Czech Republic

Phone: +420.724330154, e-mail: [iaeg@irms.cas.cz](mailto:iaeg@irms.cas.cz), [jan.novotny@geology.cz](mailto:jan.novotny@geology.cz)

Past President:

Assoc. Prof. Jan Rybář

Institute of Rock Structures and Mechanics

V Holešovičkách 41, 182 09 Prague 8, Czech Republic

Phone: +420.266009231, e-mail: [rybar@irms.cas.cz](mailto:rybar@irms.cas.cz)

The IAEG Czech National Group has 29 members now, the group of 16 members from that is with the Bulletin.

# /3.

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## EVENTS OF IAEG NATIONAL GROUP

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### /Czech Republic

Members of the IAEG Czech National Group are in contact with the other professional organisations in the scope of view of geology and geotechnics. It is especially with the Czech Association of Engineering Geologists (CAIG), where some members of the IAEG Czech National Group work in the board of CAIG now, but also with the Czech Geological Society, the Czech Geotechnical Society and the Czech Chamber of Authorized Engineers.

Members of the IAEG Czech National Group are involved in organisation of traditional seminars of engineering geology held periodically each month during the academic year at the Faculty of Civil Engineering in Prague and Brno in the Czech Republic.

Members of the IAEG Czech National Group together with members of CAIG finished after three years of work final preparation of new Czech technical standard "Ground investigation" in November 2016 when the standard was published.

Members of IAEG Czech National Group were involved into preparation of the conference Engineering Geology 2016 organized by Slovak National Group of IAEG and Slovak Association of Engineering Geologists (SAIG) as members of scientific committee. The conference was held in Nový Smokovec in July 2016.

Members of IAEG Czech National Group are involved into a scientific committee of the 3rd Czech Engineering Geological Congress and are organizing the congress on behalf of IAEG and CAIG and Faculty of Science of Masaryk University in Brno. The Congress is to be held from 4th to 7th September 2017 in Brno.

Pavel Pospíšil

Jan Novotný

President

Secretary

Prague, May 30, 2017

# /3.

## EVENTS OF IAEG NATIONAL GROUP

//////////Japan

### Japan National Group - Activities and News

#### 1) Debrief meeting of the 2016 Kumamoto Earthquake held on April 29, 2017

The 2016 Kumamoto Earthquake of magnitude 7.3 occurred on April in the middle area of Kyusyu, southwest Japan. Seven terrible shocks continuously attacked in three days. JSEG formed a special investigation team of about 40 members of engineering geologists just after the earthquake. They investigated surface faults traces, many collapsed slopes, and damages of infrastructures such as roads, bridges and dams.

The investigation team plainly presented the survey report and discussed preparation for future disasters with local people on April 29, 2017. About 200 people participated in this meeting.



Debrief meeting of the 2016 Kumamoto Earthquake



Observation of the Stripped Fault

# /3.

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## EVENTS OF IAEG NATIONAL GROUP

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//////////Japan



Investigation of the Earthquake

### **2) JpGU-AGU Joint Meeting held on May, 2017**

Japan Geoscience Union (JpGU) and American Geophysical Union (AGU) had the joint meeting in May 2017 near Tokyo. JSEG cooperated this meeting of disaster prevention sessions. Prof. Masahiro Chigira performed the program committee and convener of the session of Landslides on May 24.

### **3) Forum of Disaster Reduction for Civilians held on June 3, 2017**

JSEG held a forum of Civil Disaster Prevention for the people of Sendai City, Tohoku Japan on June 3. The Tohoku region suffered an enormous earthquake of magnitude 9 and dreadful tsunami disaster in 2011. Sendai City was threatened by a large and shallow earthquake of magnitude 7. About 130 people gathered, and learned urban historical and geological features and earthquake disaster risks around Sendai City in this forum.



Forum of Disaster Reduction for Sendai City People

# /3.

## EVENTS OF IAEG NATIONAL GROUP

//////////Japan

### 4) Memorial lecture held on June 9, 2017

JSEG held a special lecture by Prof. Masahiro Chigira, who was recently awarded by the Japanese Ministry of Education, Science and Technology for his excellent research on deep-seated landslide. The lecture followed after the JSEG's general meeting on the same day.



Memorial Lecture by Prof. Chigira

### Forthcoming events

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

The annual study meeting of JSEG will be held in Okayama Prefecture, western Japan, on 12–13 Oct., 2017.

#### 2) Slope Tectonics Conference (October), in English

The 4th Slope Tectonics Conference will be held at Kyoto University on 14–18 Oct. 2017. It 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

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

### 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 hold the 12th IAEG Asian Regional Conference in Jeju Island, Republic of Korea in 2019. It is planned to celebrate the 30th anniversary of the establishment of the KSEG together with the 12th ARC.

Meantime they are wishing to invite the Executive committee and Council members to hold their annual meetings in Jeju Island at the occasion of 12th ARC. This year the Korea National Group will also send representatives to attend the 2017 IAEG Council meeting and present the proposal to the Council for approval.

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

### **Proposal Letter**

June 1<sup>th</sup> 2017

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, 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 November 2019 on Jeju Island, Republic of Korea. In addition to 12<sup>th</sup> ARC of IAEG, we are willing to host the 2019 Council Meeting and IAEG Executive Committee meeting during the 12<sup>th</sup> ARC meeting on Jeju Island.

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. 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.

The candidacy will be fully supported by the government of Jeju Special Self-Governing Province. 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.

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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//////Paraguayan

### Paraguayan National Group

#### 2016 PARAGUAYAN GEOTECHNICAL SOCIETY ANNUAL REPORT

Asunción, April 25 of 2017.

Dear ISSMGE/ISRM/IAEG members:

It's my pleasure to introduce you the 2016 Annual Report, in regard to the activities performed by the Paraguayan Geotechnical Society (SPG) during the past year. Sincerely,

Ing. Roberto Andrada Baumann Ing. José Pavón  
Mendoza

Secretary General President

#### 1) Background

The Paraguayan Geotechnical Society was founded in the city of Asunción, on the 23 of August 1978.

In the Founding Act, it was established that natural or legal persons could become members, but only natural persons have the right to vote.

To better accomplish its goals, the Paraguayan Geotechnical Society is administered by a Board of Directors. Among its members, there is a President and three Vice-Presidents, for the divisions of Soils, Rocks and Engineering Geology.

The current Board of Directors was elected on December 2015, and it is renewed every two years in accordance with the Society Statutes.

#### 2) 2016/7 Paraguayan Geotechnical Society Board of Directors

President: José Pavón

Vicepresident for Soils: Juan Carlos Andrada

Vicepresident for Rocks: Rubén Zárate

Vicepresident for Engineering Geology: Juan Bernié

Secretary General: Roberto Andrada

Treasurer: Hugo Cacace

Chair: Norma Cantero

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## EVENTS OF IAEG NATIONAL GROUP

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/////Paraguayan

Chair: Lisa Lugo

Chair: Laura Motta

Honor Tribunal: Carlos Bellassai

Honor Tribunal: César López

Honor Tribunal: Miguel Stanichevsky

Alternate Honor Tribunal: Fernando Amábile

Alternate Honor Tribunal: Felipe Ramírez

Alternate Honor Tribunal: Rubén López

Regular Syndic: Leticia Ramírez

Alternate Syndic: Julio Bareiro

Past President: Raúl Mena

### 3) Technical events

The Paraguayan Geotechnical Society, along with other associations and sponsors, has organized some technical lectures and conferences open to the general public. These are the main ones:

Seminar "Solutions in civil, geotechnical and environmental engineering", June 13 2016, Asunción.  
Sponsor: Maccaferri

Workshop "Anchors", 19-21 September 2016, Asunción.  
Sponsors: "Asociación Latinoamericana de Control de Calidad, Patología y Recuperación de la Construcción" – ALCONPAT, "Asociación de Profesionales de la Construcción" – APROCONS and Sociedad Paraguaya de Geotecnia (SPG).

An invaluable support for the Workshop "Soil Anchors" was received by the Brazilian Association for Soil Mechanics and Geotechnical Engineering (ABMS) and the "Brazilian Association of foundation engineering and Geotechnics Companies" (ABEF).

All these events have had special participation prices for university students

### 4) Participation in technical events and conferences

Members from the Paraguayan Geotechnical Society (SPG) have participated in many Conferences both locally and internationally. The main ones are:

IV ALCONPAT Paraguay Conference, September 19-21

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## EVENTS OF IAEG NATIONAL GROUP

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### //////Paraguayan

2016, Asunción. Sponsors: "Asociación Latinoamericana de Control de Calidad, Patología y Recuperación de la Construcción" – ALCONPAT, "Asociación de Profesionales de la Construcción" – APROCONS and Sociedad Paraguaya de Geotecnia (SPG).

II Paraguayan Transportation Conference, October 6-7 2016, Encarnación. Asociación Paraguaya de Carreteras (APC).

XVIII Brazilian Conference on Soil Mechanics and Geotechnical Engineering, October 19-22 2016. Sponsor: Asociación Brasileira de Mecânica de Suelos e Ingeniería Geotécnica (ABMS).

VII Brazilian Symposium on Rock Mechanics, October 19-22, Belo Horizonte – Brazil. Sponsor: Asociación Brasileira de Mecânica de Suelos e Ingeniería Geotécnica (ABMS).

XXIII Argentinian Conference on Soil Mechanics and Geotechnical Engineering, November 9-11 2016, Santa Fe – Argentina. Sponsor: Sociedad Argentina de Ingeniería Geotécnica (SAIG).

### 5) Publications

Member from the SPG have published and presented papers and articles in different Conferences that the SPG has organized, as well as in Conferences where the SPG representatives have participated.

### 6) Technical Committees

Three Technical Committees have been formed to work together with other associations and Government institutions, in areas of interest for the SPG members as well as for the local scientific community.

#### - Bridges

Under formation, to define and establish technical specifications, guidelines, and the scope of work for a geotechnical site testing program for the construction of bridges. A manual for "Geotechnical testing program for bridges" will be presented to the Ministry of Public Works.

- Geotechnical information necessary for urban construction projects. Evaluation of the necessary geotechnical information and testing program for large open excavations and foundations for projects in the city of Asunción, in order to establish regulations by the

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## EVENTS OF IAEG NATIONAL GROUP

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////////Singapore

City Council.

- Experimental testing field

Initial phase of an agreement between the Paraguayan Geotechnical Society and the Engineering School of the Catholic University of Asunción. The main goal is to have a piece of land on campus destined to on-site large scale geotechnical experimental testing.

### 7) Board of Directors meetings

Monthly meeting are held to discuss different aspects regarding the institutional life of SPG. These meetings are focused on establishing goals and coordinating the different activities set by the SPG.

### 8) ISSMGE – ISRM – IAEG

The SPG is in permanent contact with the international societies through the regional vice presidents. All the information received by these societies is sent to the SPG members by e-mail.

### 9) Reports

Communication between the SPG and its members is performed mainly by e-mail. The Association also has a Webpage, in which the information is updated periodically.

### 10) Social events

The Paraguayan Geotechnical Society formal dinner was held in December 2016.

Asunción, April 2017

## Singapore National Group Submitted Application for Holding the 13th IAEG Asian Regional Conference

The Singapore National Group, the Society for Rock Mechanics & Engineering Geology (SRMEG) has submitted a letter of intent to host the 13th IAEG Asian Regional Conference in Singapore in 2021.

This year the Singapore National Group wishes to send representatives to attend the 2017 IAEG Council meeting in Nepal and present the proposal to the Council for approval.

## Application Letter From Singapore National Group:



**Society for Rock Mechanics & Engineering Geology (Singapore)**

1 Liang Seah Street #02-11 Liang Seah Place, Singapore 189022

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7 April 2017

Professor Faquan WU  
Secretary General, IAEG  
Institute of Geology and Geophysics  
Chinese Academy of Sciences  
Beijing, China

Dear Professor Wu,

### **LETTER OF INTENT TO HOST THE 13TH ASIAN REGIONAL CONFERENCE OF IAEG (2021) IN SINGAPORE**

The Society for Rock Mechanics & Engineering Geology (Singapore) would like to express our intent for hosting the 13th Asian Regional Conference of IAEG in Singapore in 2021.

Singapore, as a land scarce country, has been very active in underground space development in recent years, and the development of engineering geology practices and skills plays a key role for deep underground space creation in Singapore.

SRMEG has hosted the 13<sup>th</sup> International Conference of ACUUS (Nov 2012 Singapore) and will be hosting the 10<sup>th</sup> Asian Rock Mechanics Symposium in late 2018 in Singapore. Also we have conducted many international workshops and seminars on rock mechanics, engineering geology, and tunneling related subjects.

If needed, we can send an SRMEG representative to present our proposal at the IAEG Council Meeting during the 11th Asian Regional Conference in Nov 2017, in Nepal.

Yours sincerely

Zhiye ZHAO  
President, Society for Rock Mechanics & Engineering Geology (Singapore)

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SRMEG Secretariat, 1 Liang Seah Street, #02-11 Liang Seah Place, Singapore 189022

Tel: +65 6336 2328 | Fax: +65 6336 2583

Email: [srmeg@cma.sg](mailto:srmeg@cma.sg) | Website: [www.srmeg.org.sg](http://www.srmeg.org.sg)

# /3. EVENTS OF IAEG NATIONAL GROUP/// USA



## Lessons Learned from GeoLegends

### Jeffrey R. Keaton, PhD, PE, PG, D.GE, F.ASCE

By Amy Getchell, EIT, S.M.ASCE, Anahita Modiriasari, S.M.ASCE, Eimar Sandoval, S.M.ASCE, Mohammadhasan Sasar, S.M.ASCE, and Rodrigo Borela Valente, S.M.ASCE



Jeffrey R. Keaton

With a love of geology that dates back to third grade fieldtrips with his best friend, Jeffrey Keaton is a master multitasker with a resume to prove it. His academic achievements include a bachelor's degree in engineering geology from the University of Arizona (1971), a master's in geotechnical engineering from UCLA (1972), and a PhD in geology from Texas A&M University (1988). He has worked in both industry and academia, and has over 45 years of experience in locations covering five continents.

Keaton started his career at Dames and Moore (now AECOM), also serving part of that time as an adjunct associate professor at the University of Utah. He later moved to a regional company (now part of Amec Foster Wheeler), where he has been working for 27 years and currently holds the position of principal engineering geologist.

He has experience in geologic, seismologic, and geotechnical projects associated with a wide variety of topics, from energy development to radioactive waste disposal facilities. A number of these projects have involved evaluation of natural hazards, such as landslides, earthquake-induced liquefaction and faulting, and earth fissures. Some of the more prominent projects include the Hoover Dam Bypass Bridge Design in NV, and the Ruby Pipeline Construction in WY-OR.

Additionally, Keaton has made significant contributions to the advancement of the profession through 16 projects funded by different institutions. For example, he served as the principal investigator for "Scour at Bridge Foundations on Rock" for the National Cooperative Highway Research Program. He was also the leader for the Geotechnical/Foundations Team for Applied Technology Council's "Project 33," a five-year, \$8 million project funded by the Federal Emergency Management Agency (FEMA), entitled:





Roller-compacted concrete Olivenhain Dam in San Diego, CA.

*Guidelines and Commentary for Seismic Rehabilitation of Existing Buildings.*

Keaton served on an 11-person task force to prepare the 1996 Transportation Research Board's (TRB) *Special Publication 247 Landslides: Investigation and Mitigation*. He has authored or co-authored 250 technical articles and papers on engineering geology mapping, earth fissures, seismic ground motion, fault rupture, design of dams and pipelines, and application of emerging technologies in the engineering geology practice. As an adjunct associate professor in the Department of Geography at the University of Utah from 1984 to 1996, he taught an undergraduate class entitled "Principles of Geomorphology" and two upper-division/graduate classes entitled "Applied Geomorphology" and "Urban Natural Hazards."

Keaton is an active member of numerous professional organizations. He has been a member and fellow of the American Geophysical Union, the Geological Society of America, ASCE, and the Geo-Institute. He is a past president

of the Association of Environmental & Engineering Geologists, an emeritus member of the TRB, and a member of the steering committee of the Geotechnical Extreme Event Reconnaissance (GEER) Association. His other memberships include: the International Association for Engineering Geology and the Environment, the International Erosion Control Association, the International Society for Soil Mechanics and Geotechnical Engineering, and the Society for Mining, Metallurgy, and Exploration. He has also served as a program evaluator for ABET to assess the quality standards of professional degree-granting programs at colleges and universities.

**Q: How important do you think it is to have a graduate degree?**

It's essential. I say this because when we need to fill a position in my office, we get inquiries from a variety of applicants, including many who hold their master's. We would be almost foolish not to select one of those master's

students over those who hold just bachelor's degrees, because they clearly have additional skills and training. Sometimes, a PhD degree is seen as a negative in the sense that it implies too much interest on narrow, tiny things, and in the consulting environment we have a scope that we have to follow. We do have a number of PhDs in my office, about seven right now, but we are all consultants. I mean we are *really* consultants. I'm probably the most research-orientated among them.

**Q: What do you believe is the most valuable skill required for consulting?**

I believe there are two skills that need to be connected. The first part is a person's technical capability to complete things. That's why a master's degree is so helpful — because it's something that you've had to do yourself. The other part is a person's communications skill. You could be the smartest individual around, but if you cannot communicate the results of your analyses and designs, then your technical skills are not valued

## // Lessons Learned from GeoLegends



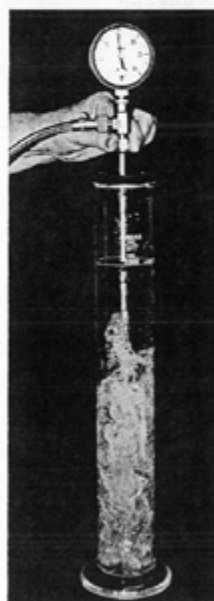
Left abutment of State Highway 262 bridge across Montezuma Creek in San Juan County, UT; evaluated as part of NCHRP rock scour study.



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in the consulting environment in terms of satisfying a client's needs.

**Q: What are the most exciting projects you've worked on?**

The two highest-profile projects I've worked on are the Hoover Dam Bypass Bridge and the Olivenhain Dam. For the Hoover Dam Bypass Bridge, my role was developing the earthquake ground motion for design, and it was very challenging. In 1999, I was a professional fellow at the Earthquake Engineering Research Institute. My proposal was to work with two seismologists at the University of Nevada, Reno, using a composite source model for the distribution of patches of rupture on two different faults crossing the bridge. I compiled the ground motion at these faults and discovered that the bridge went into a multimodal deformation, instantly. After all of that study, it turned out that seismic loading didn't govern the design — wind did! It's very windy at the bridge site. It blows down the canyon, putting the bridge into harmonic motion.

When it was constructed between 1998 and 2003, the Olivenhain Dam, located near Escondido in southern California, was then the tallest, roller-compacted concrete dam in North America. I did a number of different things on that project, including establishing the seismic design criteria for the dam and designing a wall that enlarged the reservoir. During the course of my work on the project, I had the opportunity to defend my earthquake design parameters to Bruce Bolt, a well-known seismologist and professor from Berkeley, which was great.

**Q: What lessons have you learned from working in the industry?**

I've learned many lessons over the years. First, have fun! If you're having fun, you'll want to go to work, and you'll be engaged and eager. Second, do a





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FOR INFORMATION & REGISTRATION, VISIT:  
**WWW.UTENG.ORG/GROUTING**

TECHNICAL INFO: Scott Kieffer  
skieffer@utgraz.ut



# TEXAS

## Engineering

## // Lessons Learned from GeoLegends

good job. Doing a good job is personally satisfying, limits liability exposure for your firm, and generates your clients' desire to come back for more service. Third, learn something new that makes you a more valuable employee. It's professionally satisfying and good for career development. And fourth, work toward earning a reasonable profit so you can afford to write a proposal to repeat the first three again! There's a succession and sustainability component in there. So, what's the lesson? Practice those principles.

### **Q: Did you consciously make a decision to go after challenging problems and projects?**

No! They found me because I participated. I made my first professional presentation in 1975. It was an abstract that got accepted, and I presented with some slides. Then, I evolved into writing conference papers. Now I have a resume that's more than 30 pages long, and most of that is a list of abstracts and conference papers. I also have a few meaningful, peer-reviewed papers. I am findable! People in my company ask, "Who do we have that knows about rock mechanics? Who do we have that knows about rheometry? Who knows about sinkholes?" The answer to each question was Keaton. That happens because I'm easy to find, I'm very responsive, and I'm recognized as being a team player, being available, and being connected.

### **Q: Do you think that today's engineers depend too much on technology?**

No, technology is useful. Where I see fault is some young engineers who accept the results of technology without validating whether the results are accurate. But I don't think there's too much dependence on using technology to do things that are otherwise very tedious. For example, just look at

statistics; we can do statistical analysis now with just a couple of mouse clicks. And why do we still represent soils using  $c$ - $\phi$  parameters? Because years ago, a nonlinear analysis was a big challenge. Now, it's nothing.

### **Q: What do you recognize as the biggest shortcoming in geotechnical engineering?**

We do the technical stuff well, so I would say the shortcomings are people skills like sociology and communication. I have three degrees, but I never took a course in sociology. I once worked on a low-level radioactive waste disposal project in west Texas that was being organized by the Rio Grande Council of Governments. My counterpart on the project was a sociologist who had three degrees in sociology. I greatly enjoyed my interactions with him. He had a real talent for asking me questions to draw out the information he needed so that he could explain things clearly to the community. That experience also helped me to understand and appreciate the value of communication skills. Engineers generally can communicate well with other engineers and technical staff, but when you're in a public setting and a question is asked from someone who has no technical background, you must be able to explain it in a way that's easy to understand. The message has to be heard, processed, and believed; the person who just asked the question now has to decide if he's going to take action as a result of what he was just told.

### **Q: So how can we improve on these skills?**

It would be valuable to have more discussions with persons who "get it" and understand what we are talking about in this interview. Perhaps the Geo-Institute should provide workshops on how to do this; and be sure to bring in people who are not engineers. Students like you are



Seismic refraction survey used to forecast rock excavation for design of a pipeline in Humboldt County, NV.

the leaders of the future, and you should be guiding that.

**Q: What do you see for the future of geotechnical engineering?**

Sustainability will be an important driver. I hesitate to use that word because it means so many different things to people. Many times the word is a barrier. When people say "sustainability," they envision added costs without added value. I serve on the ASCE Committee on Sustainability, and I'm chair of the Strategic Communications subcommittee for that group. In that subcommittee, we're moving forward in what I call a "renaissance in civil engineering," where we're learning now that we don't have tools that will allow us to define today what loading conditions will be 50 years from now. We need new standards to help us estimate what the range of conditions might be in 50 years so we can make intelligent decisions today. It's a huge challenge.

Geotechnical engineers want to help improve the quality of life for communities by making our designs sensible, appropriate, and adjustable. A good example is the foundation (bridge, embankment, etc.) for the replacement

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## // Lessons Learned from GeoLegends



(l to r): Eimar Sandoval, Anahita Modiriasari, Jeffrey R. Keaton, Amy Getchell, Rodrigo Borela Valente, and Mohammadhasan Sasar.

of the rail line on the coast of California. What will the sea level be there in the future? This is a real question. We don't know the answer, but we have some ideas. The foundations being designed today are big enough to take higher structural loads, but we're building the structure in a modular way so that it can be raised in the future if needed. Of course we won't actually spend the money to do that until the future, when we'll know better what is needed. We can't go back and rebuild the foundation later on... but we must do something today. This situation represents an interaction where the geotechnical engineer's contribution is important and urgent. We need to know how to participate in this process because it's vital to our communities in the near future and long term. ☐

► **AMY GETCHELL, EIT, S.M.ASCE**, is a PhD student at Purdue University. She is researching the effects of pore fluid on the static triaxial behavior of sand. She can be contacted at [agetchel@purdue.edu](mailto:agetchel@purdue.edu).

► **ANAHITA MODIRIASARI, S.M.ASCE**, is a PhD candidate at Purdue University. She is researching the fracturing mechanism in rock by coupling mechanical and geophysical methods. She can be contacted at [amodiria@purdue.edu](mailto:amodiria@purdue.edu).

► **EIMAR SANDOVAL, S.M.ASCE**, is an assistant professor at the Universidad del Valle (Colombia), and a PhD student at Purdue University. He is researching the undrained seismic response of underground structures through dynamic numerical analysis. He can be contacted at [esandov@purdue.edu](mailto:esandov@purdue.edu).

► **MOHAMMADHASAN SASAR, S.M.ASCE**, is a PhD student at Purdue University. He is working to improve understanding of how high molecular-weight polymeric flocculants interact with mature fine tailings to affect ground improvement. He can be contacted at [msasar@purdue.edu](mailto:msasar@purdue.edu).

► **RODRIGO BORELA VALENTE, S.M.ASCE**, is a recent graduate of Purdue University and a current PhD student at Georgia Tech. His research is focused on the stochastic and numerical modeling of ground movements in granular materials. He can be contacted at [rborelav@gatech.edu](mailto:rborelav@gatech.edu).

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## EVENTS OF IAEG COMMISSION

### //////////C34

#### **C34-The Advanced Short Course on Offshore Cone Penetration Test and Geotechnical Test was held in Qingdao, China**

The Advanced Short Course on Offshore Cone Penetration Test and Geotechnical Test was held in Qingdao, from 24th to 26th, April, 2017. This short course was jointly sponsored by the Marine Engineering Geology Commission (C34), International Association for Engineering Geology and the Environment (IAEG) and the Ocean Commission of Engineering Geology Committee, Geological Society of China, and was hosted by Shandong Provincial Key Laboratory of Marine Environment and Geological Engineering.

With the development of offshore resources, the cone penetration technology has been concerned widely and plays a fatal role in engineering geological survey. This short course was to improve the operational skills and interpretation of testing data for cone penetration tests, especially for engineers and researchers in China.

The course was lectured by Tom Lunne, a senior consultant in Norwegian Geotechnical Institute and a world-class expert in in-situ investigation, and Shaoli Yang, a senior engineer of Norwegian Geotechnical Institute. More than 40 trainees from 28 companies or universities including China Petrochemical Corporation, China National Petroleum Corporation, China National Offshore Oil Corporation, PowerChina Huadong Engineering Corporation, Shanghai Survey and Design Institute, Tongji University, Zhejiang University, Southeast University, got benefits from the lecture.



Tom Lunne in presentation



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## EVENTS OF IAEG COMMISSION

//////////C34



Shaoli Yang in presentation



Demonstration of offshore cone penetration test

Tom Lunne and Shaoli Yang brought 12 wonderful courses from 24th to 25th, April, including the overview of offshore in-situ testing methods, overview of advanced soil lab tests, operation of offshore cone penetration test and methods of data acquisition, processing and analysis. Geomil, a Dutch company, introduced their

# /4.

## EVENTS OF IAEG COMMISSION

//////////C37

equipment used onshore and offshore, and an engineer in Powerchina Huadong Engineering Corporation shared their experience in offshore geological survey for wind turbine farm. On 26th April, participants went to the Dongying Port for demonstration of offshore cone penetration test.



The group photo of lecturers and trainees

### **C37- Second Meeting held on June 1st, 2017 during the 4th World Landslide Forum in Ljubljana, Slovenia**

The second meeting of C37 was held at 17:15 to 19:00 pm on June 1st, 2017 during the 4th World Landslide Forum in Ljubljana, Slovenia. The president of C37 Hengxing Lan chaired the meeting.

#### **Meeting Highlights:**

- 1..Review the current status of five tasks and discuss the future plan;
2. Emphasize the working procedure;
3. Setup three new tasks:
  - 1) Landslide volume classes (Lead: Phil Flentje)
  - 2) Landslide instrumentation (Lead: David Elwood)
  - 3) Compilation of Case histories (Lead: Srđan Kostić)

Hengxing presents some background on the c37, including the objectives and tasks after opening address. The Motion to accept the minutes of the IAEG C37

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## EVENTS OF IAEG COMMISSION

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//////////C37

meeting in Naples, Italy on June 13, 2016 is seconded and approved. Working draft has been presented and debate is ongoing with regards to: PF presents the draft and suggestions as per SK's communications:

- Should ground water levels relative to surface of rupture be considered?

- Should such water level be associated with water conditions?

- Should include values for Liquidity Index and Consistency Index for soils with high-clay content?

- The graphing issue with regard to the water content

OH and DE raise some concerns about the variation of moisture content and saturation with respect to the position of the water table, which is not always consistent for different materials. OH raises the concern that directly linking position of water table with water content could lead to wrong conclusions.

OH raises the concern that plasticity is applicable to fine grain soils only and suggests the use of degree of saturation as a simplified approach which would be applicable to all types of material. SK clarifies that plasticity could be used as side-note applicable for plastic soils, following the latest updates to the Varnes Classification. SK raises the importance of a quantitative approach.

NC proposes to separate the attributes related to the water content and those related to the ground water location. He believes both are important but it is better to separate these. He suggests the use of both as separate descriptors.

HL agrees to the difficulties of illustrating the water condition, but suggests it would be good to have a concept graph showing the water conditions. This might refer to the soil water characteristic curve.

JC addresses the audience and mentions the draft document. Presents a brief history of how the risk nomenclature moved forward since inception of the members through how the draft was circulated. There is a list of 60 terms that were presented. There were discussions and an agreement was achieved. Then it was sent to chair. SM provided a review of the English.

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## EVENTS OF IAEG COMMISSION

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//////////C37

Japanese group (Prof. Masahiro Chigira) suggested 20 more terms afterward and proposed amendments. However they were major and the document was stopped to agree on how to proceed in case other societies might also disagree.

An example is the concept of landslide hazard. In English it is used with 3 meanings.

HR proposes the use of HAZARD FOOTPRINT for the area and "hazard" as a probability.

OH highlights the confusion between intensity and magnitude. He suggests consistency with earthquake science where intensity is related to the area and magnitude is a value. JC agrees and considers it is already taken into account in the draft.

OH says it might be a mistake to try to define hazard too specific and that maybe it should be general and then use descriptors. JC raises the problem of the use of the term in different contexts. OH mentions that hazard should be a general term.

JC suggests that "hazard" is a qualifier. It is something that has not occurred yet so intrinsically has a probability into it. Because it is there, there is a potential, therefore it is intrinsically a probability.

OH suggests it would depend on what is the intent of communication.

PF suggests keeping the section "A condition with the potential of causing an undesirable consequence" and leave other statement out of the definition. Characteristics can be added such as magnitude, probability, etc.

NC agrees but that we need to maintain consistency with other ground hazards. He highlights that the definition of "hazard" should be kept clear and not ambiguous.

AS states that we could solve it by starting from the end goal. Risk calculated as a product of hazard and vulnerability is a probabilistic concept. Thus, despite AS mentioned that he, personally, doesn't like probabilistic approach, it should be included in the determination of the "hazard" term.

# /4.

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## EVENTS OF IAEG COMMISSION

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### //////////C37

AS does not agree with the general term geohazard, he says it is better to be specific to the phenomena. OH says we need the general terminology and then go to the particular. AS clarifies that his concern is the use of the term for referring to specific phenomena.

AS suggests care with the word magnitude. He says that for phenomena such as earthquakes it is clear from its introduction, however there is uncertainty regarding what the magnitude of a landslide is. JC mentions that there is a trend for landslides. For some practitioners, magnitude it is volume and for others it is area.

HL emphasized the working procedure to follow. Since the task of landslide risk has been gone through most of the working procedures, the task could be finalized by addressing the comments during the second meeting and language issues even though there might also have the consensus issue. HR and PF will help edit English before the translation.

JC proposes to submit an explanation of the process to develop the nomenclature. JC says that consensus will be difficult. The document will be circulated.

AS states that classifications (types) addresses part of some landslides but not some characteristics. He provides the example of the post failure behaviour. And that this would potentially be very important when dealing with risks. He proposed increased description during their motion as some landslides can cover larger areas. He suggests this could be an addition to what has already been done.

AS will distribute some ideas and proposals among colleagues and will try to collect the opinion on the matter.

HL asked AS to provide the proposals and a brief note of where should it come from. AS says the we could use some additional classification for run out. AS would try to have this done by the end of 2017.

RM will send communication to language leads. These should send RM a list of their members. RM will remind that languages spoken worldwide should try to have members from different countries speaking the language.

# /4.

## EVENTS OF IAEG COMMISSION

### //////////C37

Multilingual Glossary 2nd Edition to include Rate of Movement, Water Conditions, Types of Material

HR says that publishing for several countries might be tricky. Some already follow a standard such as the UK. This would raise issues about publishing two standards at national level. So publication by the national group could be an issue and should be left to the discretion of each national committee.

PF suggests landslide volume classes.

DE mentions there is such a classification for avalanches. OH mentions there is one for debris flows. DE and OH will send these to PF. JC mentions he agrees with the proposal and will also distribute some information for PF. PF agrees to be the lead for the landslide volume nomenclature task.

DE will be the lead for a nomenclature on landslide instrumentation. HR and PF volunteer to be part of the group.

#### **Next Meeting and new business**

Next meeting is proposed to be at the XIII IAEG Congress in San Francisco, September 17-21, 2018. It is agreed.

OH thinks that not all members need to agree in everything proposed and the Chair should consider that it will not be perfect but this needs to be driven through and published.



Group Photo of Second Meeting of C37 in LJUBLJANA on June 1st, 2017



# /5. YOUNG ENGINEERING GEOLOGISTS EVENT



*IAEG Young Engineering Geologists Committee*

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## **Invitation For Young Engineering Geologists**

*- To Attend the ARC-11 Young Engineering Geologists Event*

*27<sup>th</sup> November 2017 in Kathmandu, Nepal*

*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 27<sup>th</sup> 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, and no later than the 29<sup>th</sup> of September. To register please email your completed form to [yegevents2017@gmail.com](mailto:yegevents2017@gmail.com).*

*If you wish to participate by giving a technical presentation, please submit your abstract by the 25<sup>th</sup> of August. Abstracts should be submitted using the provided registration form, and emailed to [yegevents2017@gmail.com](mailto:yegevents2017@gmail.com). A prize will be awarded for the best technical talk!*

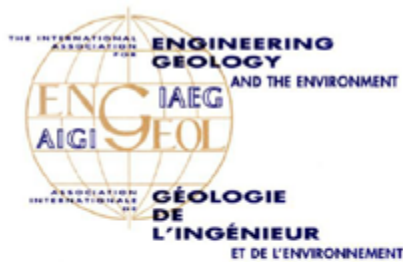
*There is no specific theme for technical talks, but should be related to IAEG interests. Submitted abstracts should be no more than 350 words.*

*Note: If you wish to attend the pre-conference excursion there will be a tour bus ready to deliver you back to the YEG event venue after the excursion lunch.*

**Please download the Registration Form via the followed link:**

<https://www.dropbox.com/sh/ihp2vbexs3tfxzj/AADmalNplFhBNBOyzR4BFolza?dl=0>

# /6. CALL FOR NOMINATIONS OF RWP 2018



President:	Prof. Scott Burns
Past President:	Prof. Carlos Delgado
Secretary General:	Prof. Wu Faquan.
Treasurer:	Dr. Jean-Alain Fleurisson
Vice Presidents	
Africa:	Prof. Louis Van Rooy
Asia:	Dr. Yogendra Deva
Australasia:	Dr. Mark Eggers
Europe:	Prof. Giorgio Lollino
	Prof. Rafiq Azzam
North America:	Dr. Jeffrey Keaton
South America:	Dr. Maria Heloisa Frascá

## CALL FOR NOMINATIONS OF IAEG RICHARD WOLTERS PRIZE FOR 2018

All National Groups, the members of Executive Committee and the Council,

The next Richard Wolters Prize for 2018 will be presented by IAEG at the occasion of 13th IAEG Congress in San Francisco, California on September 17-21, 2018. This letter is to call for the nominators of this Prize.

The Richard Wolters Prize has been awarded biannually since 1986 to commemorate the life and work of Dr Richard Wolters, his significant achievements in the advancement of engineering geology and his important role in the development of the IAEG. The Richard Wolters Prize specifically recognises meritorious scientific achievement by a younger member of the engineering geology profession. The candidates should be members of IAEG and less than **35 years** of age on 1<sup>st</sup> January 2018 in which the award is to be made.

National Groups and members of Executive Committee and the Council may consider finding potential candidates for the 2018 Richard Wolters Prize Competition.

Competition will be held during 13th IAEG Congress in San Francisco, California on September 17-21, 2018.

You may also contact [iaegsg@163.com](mailto:iaegsg@163.com) for more information if you have any questions about the prize.

Best regards,

*Faquan Wu*

Professor Faquan Wu  
Secretary General, IAEG  
Shaoxing University  
No.508,Huanchengxilu,Shaoxing City,Zhejiang Province,312000,China  
Tel/Fax:+86-0575-88346552 +86-0575-88346551  
Email: [iaegsg@163.com](mailto:iaegsg@163.com)

# **/7. THE THIRD CIRCULAR 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 in pre-registration form and submit the abstracts.

The full 3rd circular of 11th ARC can be downloaded via the link:

[https://www.dropbox.com/sh/qckep7695wgrj7e/AABl0HVywp5q9x9AlchOaZ\\_9a?dl=0](https://www.dropbox.com/sh/qckep7695wgrj7e/AABl0HVywp5q9x9AlchOaZ_9a?dl=0)

## **11th Asian Regional Conference of IAEG on Engineering Geology for Geodisaster Management**

**28–30 November 2017**

**Kathmandu, Nepal**



***Third Circular***

**(Release on 2017/05/27)**



**The 11th Asian Regional Conference (ARC-11) of IAEG**  
**November 28-30, 2017**  
**"Engineering Geology for Geodisaster Management"**

## Background

Engineering geology and geodisaster management are intimately linked with each other and it is a challenge to develop infrastructures without adversely impacting surrounding environment. The circumstances become even more complex if the region is frequented by large earthquakes, floods, debris flows, and landslides. Climate change, land use alterations, population growth, mass migration, and urbanisation are some of the pertinent issues to be dealt with by the engineering geologists of the twenty-first century.

Nepal is resplendently located at the heart of the 2400 km-long Himalayan arc and the country can be defined as the natural museum of every kind of geodisaster. In this regard, the Mw 7.8 Gorkha Earthquake of 25 April 2015 is the latest example. The tremor hit central Nepal and brought about 9000 deaths and many thousands of injuries. The total economic loss by the quake exceeded US\$ 6 billion. It is estimated that the reconstruction and recovery phase will last for more than 5 years. 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.

The Nepal Geological Society was founded in 1980, and since then it has organised various national and international workshops, symposia, and conferences. It conducts geological congress regularly and the recent one was the Eighth Nepal Geological Congress held during 27-29 November 2016 in Kathmandu. The Society has also successfully conducted the Himalaya-Karakoram-Tibet Workshops.

For last 50 years, the International Association for Engineering Geology and Environment (IAEG) has been bringing together all engineering geological professionals and researchers into a single forum through various regional and international conferences. Such congregations are serving excellently not only to enhance the skills and knowledge of engineering geology, but to promote as well many national groups around the globe. The Nepal Geological Society also has a long history of affiliation with the IAEG and is assisting it by conducting various conferences and meetings, including the IAEG international symposium in 1999 and IAEG conference in 2005. The 1999 and 2005 events were attended by 419 and 209 geoscientists from 34 and 22 countries, respectively.

## IAEG ARC-11

With the above background of successfully conducting many national and international gatherings, the Nepal Geological Society, along with its partner organisations in Nepal, is going to organise the Eleventh IAEG Asian Regional Conference (ARC-11) in Kathmandu, Nepal, on 28-30 November 2017. Apart from the conference, there will be five field excursions in various parts of the country to give first-hand information to the delegates of the engineering geological challenges in the Himalayan region.

Though such international meetings have been instrumental to the advancement of engineering geology in Asia, geoscientists 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 geo-engineering 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.





**The 11th Asian Regional Conference (ARC-11) of IAEG**  
**November 28-30, 2017**  
**"Engineering Geology for Geodisaster Management"**

After the circulation of the First Circular on ARC-11, the Nepal Geological Society has received an overwhelming response from geoscientists around the globe. Hence, this event will certainly be another milestone in the history of Asian Regional Conference.

## Venue

The IAEG ARC-11 will take place in Kathmandu, an important historic city and the capital of Nepal. With an estimated population of about four million, Kathmandu is the largest metropolis in Nepal. Lalitpur and Bhaktapur are neighbouring cities of Kathmandu, and all of them are located within the Kathmandu Valley. The Kathmandu Valley has historically important cultural monuments that attract millions of international and domestic tourists every year. At an average altitude of 1300 m, the Kathmandu Valley is filled up with ancient lake sediments that at their deepest point are about 550 m thick. All the major events of IAEG ARC-11 will be held in Kathmandu, while the field excursions will be held in various parts of the Nepal.

## Conference 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 sub-themes in order to provide all participants an opportunity to present from all presentations.

## Conference excursions

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

### Pre-conference tour

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

2017/11/27, 8:00 AM – Departure from Hotel

2017/11/27, 9:00 AM – Arrival at Changunarayan Hills, Observation of Geomorphological settings of The Chagunarayan Hill and Kathmandu valley.

2017/11/27, 11:00 AM - Arrival at Bhaktapur City. Observation of ongoing earthquake reconstruction works in heritage site. Evaluation of Nyatapal Temple which was survived in the 2015 Gorkha Earthquake.

2017/11/27, 12:00 AM - Typical Nepali style lunch at Bhaktapur Darbar Square area.

2017/11/27, 2:15 PM – Arrival at Swayambhu Hill. Observation of earthquake reconstruction works and effects of creep landslide in and around Swayambhu Hill. Evaluation of engineering geological settings of World Heritage site.

2017/11/27, 4:00 PM – Arrival at Pashupatinath Temple, observation of Hindu temple and cremation culture of Hindu. Observation of creep landslide problems in the temple area. Discussion on engineering geology of the Pashupati Temple area which was survived in the 2015 Gorkha Earthquake.



**The 11th Asian Regional Conference (ARC-11) of IAEG**  
**November 28-30, 2017**  
**"Engineering Geology for Geodisaster Management"**

2017/11/27, 6:30 PM – Arrival at Hotel Yak and Yeti.

Excursion coordinator: Dr. Ananta Gajurel

Excursion Fee: **US\$85.00**

(\*includes all entrance fee, transportation and lunch. Minimum number of participants required for this tour is *12 persons*)



Kathmandu - city of temples and World Heritages



Kathmandu City

World Heritage site, Kathmandu city

**Post-conference excursions**

**Ex-2: Kathmandu-Pokhara roadside slope protection work and Pokhara Valley tour (three-day)**

Excursion two (Ex-2) is basically a field excursion tour on the first day and partly on second day. Kathmandu-Pokhara roadway is about 200 km, but in Nepal it takes about six hours to travel this distance at an average speed of 40 km/h. So, on the first day, we will see a few landslide sites on the way to Pokhara, and on the second day, we will go to an area in Pokhara valley and observe geology of the Pokhara valley. In Pokhara, especially in the morning time, we can see marvelous panoramic view of the Annapurna Range of the Himalaya, and also take a pleasure flight on an ultralight plane for 30 minutes to one hour. You may stay longer in Pokhara if you wish, but you will have to notify us of your plan so that we can book your return air ticket to Kathmandu appropriately. The schedule basically is as follows.





## The 11th Asian Regional Conference (ARC-11) of IAEG November 28-30, 2017 "Engineering Geology for Geodisaster Management"

### Conference Plan

The ARC-11 is going to be a special event for IAEG. In this conference, executive and council meetings of IAEG will be held in Kathmandu before the main events. There will be Hans Cloos Lectures of IAEG also in the first day of ARC-11. There will be four parallel technical sessions as per the expected number of submitted abstracts.

	Date																		
Time	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov				29-Nov				30-Nov			1-Dec	2-Dec	3-Dec	
8:00					Registration - on site														
9:00	Executive Meeting of IAEG - 1st day REGISTRATION on-site	Inauguration Meeting of IAEG - 2nd day REGISTRATION on-site	General Meeting REGISTRATION on-site	Pre-Conference Excursion (R+1)	Inauguration and Award Ceremony of IAEG				Keynote Lecture-8		Keynote Lecture-9		Keynote Lecture-10		Keynote Lecture-11				
					Hans Cloos Lecture				Keynote Lecture-6		Keynote Lecture-7		Keynote Lecture-10		Keynote Lecture-11				
					Keynote Lecture-1				Technical Session-9 (Parallel)		Technical Session-10 (Parallel)		Technical Session-11 (Parallel)		Technical Session-12 (Parallel)		Technical Session-13 (Parallel)		
					Keynote Lecture-2				Technical Session-14 (Parallel)		Technical Session-15 (Parallel)		Technical Session-16 (Parallel)		Technical Session-17 (Parallel)		Technical Session-18 (Parallel)		
					Keynote Lecture-3				Technical Session-19 (Parallel)		Technical Session-20 (Parallel)		Technical Session-21 (Parallel)		Technical Session-22 (Parallel)		Technical Session-23 (Parallel)		
10:00					Lunch				Lunch				Lunch						
11:00					Technical Session-1 (Parallel)				Technical Session-13 (Parallel)				Technical Session-15 (Parallel)						
12:00					Technical Session-2 (Parallel)				Technical Session-14 (Parallel)				Technical Session-16 (Parallel)						
13:00					Technical Session-3 (Parallel)				Technical Session-15 (Parallel)				Technical Session-17 (Parallel)						
14:00					Technical Session-4 (Parallel)				Technical Session-16 (Parallel)				Technical Session-18 (Parallel)						
15:00					Technical Session-5 (Parallel)				Technical Session-17 (Parallel)				Technical Session-19 (Parallel)						
16:00					Technical Session-6 (Parallel)				Technical Session-18 (Parallel)				Technical Session-20 (Parallel)						
17:00					Technical Session-7 (Parallel)				Technical Session-19 (Parallel)				Technical Session-21 (Parallel)						
18:00					Technical Session-8 (Parallel)				Technical Session-20 (Parallel)				Technical Session-22 (Parallel)						
19:00					Free Time								Closing Session						
20:00					Welcome Reception														
21:00	Disser - Executive members	Disser - Executive members	Disser - Executive members	Disser - General members															

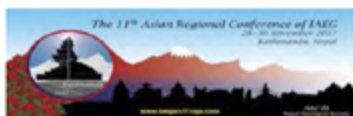
### Special Programs

#### Soil and rock logging course

The Conference organizers are planning to hold a one day course on Soil and Rock Logging. The course will aim to educate geotechnical engineers, engineering geologists, and other relevant professionals in the fundamental principles involved in logging and/or interpreting soil and rock logs in accordance with National and International Standards for soil and rock description.

The course consists of a series of presentations from an experienced Engineering Geologist, Dr Fred Baynes from Australia, followed by a hands-on practical session where course participants will work in small groups to log a range of real soil samples and rock cores under the guidance and instruction of experienced industry professionals. Upon completion of the logging exercises, the work of the participants will be reviewed in a group forum and the details that may be observed in each sample will be described and discussed.

Venue and participation procedure will be announced later. If you are interested to the course, please write email to [rkdahal@gmail.com](mailto:rkdahal@gmail.com).



**The 11th Asian Regional Conference (ARC-11) of IAEG**  
**November 28-30, 2017**  
**"Engineering Geology for Geodisaster Management"**

### Special Lectures

The organizing committee has requested to Prof. Dr. Martin Culshaw for a special short course on **"How to write scientific paper?"** during the conference. We feel very honored that he has agreed on our request. He will deliver max 1 h lecture on the topic followed by Q and A session of 30 min. This course will be conducted during the conference on September 29. The venue hall and time for the course will be announced later.

### 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 early bird registration fee payment will be started from 15 March 2017. Registration fee will cover conference kits (bag, abstract volume, program booklet, and stationery), a reception dinner, conference lunches, and tea/coffee during the session break. It does not cover the cost of other dinners and hotel accommodations.

The details of registration fee are given below. Field excursion fees will be provided after 15 March 2016. The Conference organising committee is planning for online payment and bank transfer system. Detail platform will be provided later.

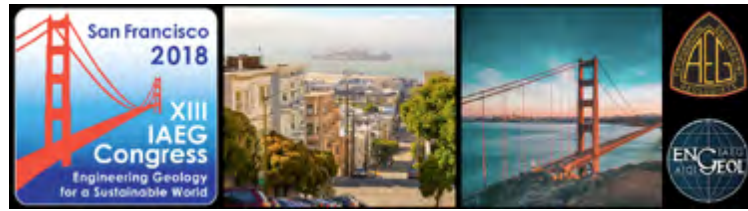
Category	Timeline		
	March 15 - June 15, 2017, "Early Bird"	June 16 - August 15, 2017	After August 15, 2017
Foreign participants	US\$ 450	US \$ 500	US\$ 550
Accompanying persons of foreign participants	US\$ 250	US \$ 300	US\$ 350
Foreign students	US\$ 225	US \$ 250	US\$ 275
Participants from SAARC nations	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

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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**

**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.

Authors must submit abstracts and papers online. The deadline for submission of published paper abstracts is **June 30, 2017**. Authors will be notified of abstract acceptance by July 15, 2017. Final papers must be received by **September 30, 2017**.

[Submit your paper abstract here](#)

Note- Website is available in multiple languages, choose alternate language using box in upper right corner of page. Do not login with your AEG username and password.

**Username:** aeg

**Password:** sanfrancisco2018

Papers will be considered peer-reviewed papers (with 2 reviews) and published in the Congress proceedings.

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

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## 2018 IAEG CONGRESS - CALL FOR PAPER

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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.

### Paper Formats

The IAEG/AEG 2018 Congress is accepting full papers for the proceedings with a limit of ten pages. Please read the Guidelines for Paper Submittal and Full Paper Template prior to submitting your paper.

### SAMPLE ABSTRACT:

#### **"Your Country is Falling Apart" Response to Recent Landslides by the North Carolina Geological Survey**

Bauer, Jennifer, North Carolina Geological Survey, jennifer.bauer@ncdenr.gov; Richard M. Wooten; Kenneth A. Gillon; Thomas J. Douglas

Since August 2009, the mountains of Western North Carolina have received 42 inches of rainfall, 16 inches above normal, relieving the region of a two-year drought. These rain events have also increased soil moisture, raised groundwater levels, and triggered over 40 landslide events in the region. As part of its commitment to public safety, the North Carolina Geological Survey has responded to fifteen of these events to evaluate slope stability and provide information to assist state and local agencies and the public. These response efforts have included requests from emergency management officials, erosion control officers, and town planners concerned about the life, health, safety and property of their citizens. Response activities include stability assessment and monitoring of sites during recovery and clean-up efforts; assisting in determining the nature and extent of the slope failures; mapping the affected area and areas that could be affected (e.g. hazard zonation and debris flow inundation modeling), making Geographic Information System (GIS) maps to assist emergency management officials in their response and contingency planning; and communicating findings to the appropriate officials, public, and the media. Mapping and data collected at these sites is incorporated into a slope movement-slope movement

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**2018 IAEG  
CONGRESS  
- CALL FOR  
PAPER**

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deposit geodatabase. All of the slope movements to which the NCGS responded occurred on slopes that have been modified in some way by human activity; four of them have damaged six structures and four threaten homes, one of which has been condemned. This paper will illustrate several of these landslide investigations and responses, as well as give a brief timeline of rainfall events correlating to these slope failures.

**Invited Papers:** If your paper was invited for one of the symposia sessions, please indicate the appropriate session on your submittal.

**Preliminary Technical Program**

**Symposia** (many papers / speakers are invited, however please submit your abstract for consideration to complete a symposium session):

- Advancing our Profession: the Past is NOT the Key to Our Future! (**Robert E. Tepel**)
- Dams: sedimentation / rivers / failures (**Brian H. Greene**)
- Education & Preservation of Engineering Geology / Recognition / Licensure (**Keith Turner, Ken Neal**)
- Landslides: slope stability, rockfall, rock mechanics (**Bill McCormick & others**)
- Land Subsidence (**Michelle Sneed**)
- Lidar / Technology: landslide application of unmanned aerial vehicles (UAV), remote sensing (**Bill Haneberg**)
- Mélanges and mélange forming processes (**Julien Waber**)
- Naturally Occurring Asbestos (**Mark Bailey**)
- Training & IAEG C4 (**Fred Baynes**)

**Suggested Technical Sessions:**

- Coastal Hazards: Marine & Coastal Processes
- Earthquakes / Faulting: Ground motion / rupture
- Emergency response to Natural Disasters
- Environmental: site characterization, soil and groundwater contamination / remediation

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**2018 IAEG  
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- Groundwater Basin Management, clean water resources
- Geotechnical / Site Characterization for Infrastructure: High Speed Rail, high rise buildings, bay mud, coastal development
- Incremental Sampling Methodology
- Karst Topography
- Mining, Mine Reclamation
- Naturally Occurring Hazardous Minerals: arsenic, mercury, silica, etc.
- Quantifying Climate Change
- Volcanics of Northwest United States and Hawaii, Hydrothermal Energy
- Others not already listed



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## MEETING INFORMATION

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Guide, Qinghai, China, July 6-7, 2017

The 3rd International Symposium on Transportation Soil Engineering in Cold Regions (TRANSOILCOLD2017)



The 3rd International Symposium on Transportation Soil Engineering in Cold Regions (TRANSOILCOLD2017) will be held on July 6-7, 2017. The TRANSOILCOLD2017 aims to provide an opportunity for researchers and practitioners in the transportation community to share the latest research advances and experiences in the construction of transportation infrastructure in cold regions.

**Conference Website:**

<http://transoilcold2017.applinzi.com/index.php>

Conference Date and Location:

Arrival and Registration: July 5, 2017

Conference: July 6-7, 2017

Venue: Jingyuege Hotel, Gui-De, Qinghai, China

Notice: Shuttle bus will be arranged from Xining Airport to Guide Transoilcold2017 Venue.

**Main Topics:**

- Mechanical behavior of soil and aggregate
- Non-destructive testing of subgrade and aggregate
- Coupled modeling of mechanical and physical processes
- Frost heave and thaw weakening of subgrade, ballasted subgrade and base of slab track
- Field experiments in roadway embankments
- Long-term monitoring of subgrade functionality
- Dynamic/seismic behavior of transportation infrastructure
- Soil-structure interaction related to transportation

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## MEETING INFORMATION

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infrastructure

- Experience in the construction and maintenance of subgrade in cold region
- Artificial Groud Freezing in transportation
- Other related topics related to transportation soil engineering in cold regions

**Vancouver, BC, Canada, July 16-19, 2017**

**The 3rd International Conference on Performance-based Design in Earthquake Geotechnical Engineering (PBD-III)**



The 3rd International Conference on Performance-based Design in Earthquake Geotechnical Engineering (PBD-III) will be held in Vancouver, BC, Canada, from July 16-19, 2017. The theme of PBD-III Vancouver 2017 encompasses all aspects of performance based design in earthquake geotechnical engineering. The coverage will be diverse, covering a broad range of civil infrastructure problems and including case histories and practice-oriented papers, recent research findings, innovative technologies, and the emerging arts.

### **Key Dates:**

July 16, 2017 - Conference starts with Featured Keynotes, Perspectives Panel and Opening Reception

July 17-19, 2017 - Plenary, technical and special sessions

July 20, 2017 - Technical Tour

# /9.

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## MEETING INFORMATION

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**Prague, Czech Republic, July 18-20, 2017**

### **9th International Conference on Sustainable Water Resources Management**



The ninth International Conference on Sustainable Water Resources Management will be held in Prague, Czech Republic, from 18 - 20 July, 2017. The ninth International Conference on Sustainable Water Resources Management will present recent technological and scientific developments, associated with the management of surface and sub-surface water resources. The Conference provides a platform for professionals involved in water resources management to exchange knowledge and gain an insight into the state of the art in the current technology, techniques and solutions in sustainable water management as they have been developed and applied in different countries. Participants include a wide variety of stakeholders from research and academia, to industrial sectors as well as government organisations.

**Conference Website:** [http://www.wessex.ac.uk/conferences/2017/water-resources-management-2017?utm\\_source=wit&utm\\_medium=email&utm\\_campaign=wrn17rem4&utm\\_content=15499](http://www.wessex.ac.uk/conferences/2017/water-resources-management-2017?utm_source=wit&utm_medium=email&utm_campaign=wrn17rem4&utm_content=15499)

#### **Conference Topics:**

The following list covers some of the topics to be presented at Water Resources Management 2017. Papers on other subjects related to the objectives of the conference are also welcome.

- Water management and planning
- Water rights and accessibility
- Water markets economics and policies
- Climate change
- Sedimental soil erosion
- Irrigation

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## MEETING INFORMATION

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- Water resources in arid regions
- Ground water
- Urban water management
- Hydraulic engineering
- Water quality and pollutant control
- Water quality and health
- River basin management
- Flood risk management
- Hydroinformatics
- GIS and remote sensing
- Trans-boundary water management
- Water, food and energy
- Socio-economic aspects
- Water resources strategies
- Innovative technologies
- Water and the community
- Integrated water analysis
- Wetlands as water sources

**Leeds, West Yorkshire, England, September 6th-7th, 2017**

### **The Second International Symposium on Coupled Phenomena in Environmental Geotechnics (CPEG2)**

The Second International Symposium on Coupled Phenomena in Environmental Geotechnics (CPEG2) that will be held at the University of Leeds on September 6th and 7th, 2017. CPEG2 follows on from the very successful 1st CPEG that was held in Torino (Italy) in 2013. Like CPEG1, CPEG2 is being organised under the auspices of the International Society for Soil Mechanics and Geotechnical Engineering TC215 (Environmental Geotechnics), and CPEG2 will be hosted in conjunction with the British Geotechnical Association.

**Conference Website:** <http://tinyurl.com/cpeg2017>

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## MEETING INFORMATION

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### Symposium Themes:

#### Coupled Processes

- Improved understanding of the coupling of any natural and/or anthropogenic thermohydro-mechanical-chemical-bio-gas processes within soils and rocks
- Biogeochemical processes for improving or stabilizing soils
- Multi-phase flow

#### Surface Containment

- Waste characterization
- Landfill liners and environmental barriers
- Gas generation and extraction
- Waste degradation and settlement
- Capping systems for landfills and polluted sites
- Mine and mineral extraction wastes

#### Subsurface Containment

- Waste characterization
- Radioactive waste disposal
- Carbon capture and storage

#### Clean-up

- Novel procedures for the characterization of contaminated sites
- Pollutant retardation and degradation processes
- Active barriers for polluted sites
- Bioremediation / bio-management of metals and radionuclides
- Natural attenuation and enhanced bioremediation of organic pollutants
- Contaminant extraction from polluted soil

#### Energy (to be coordinated by TC308)

- Thermal properties of soils and rocks
- Energy geostructures
- Shale gas exploitation



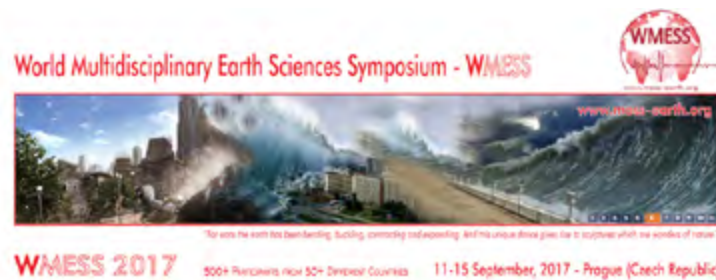
## MEETING INFORMATION

### Vegetation

- Role of vegetation in sustainable management of slopes and geostructures
- Vegetation controls on urban flooding
- Geotechnics of the soil critical zone: creation or restoration of full soil functionality

**Prague, Czech Republic , September 11-15, 2017**

### World Multidisciplinary Earth Sciences Symposium (WMESS)



World Multidisciplinary Earth Sciences Symposium (WMESS) is going to be held in Prague, Czech Republic from 11-15 September, 2017. WMESS is the meeting point for the Earth Scientists and a forum for discussion of the latest findings and technologies in different fields of the Earth Sciences.

#### Conference Website:

<http://www.wmess-earth.org/index.html>

#### Main Topics:

- Tectonics & Structural Geology
- Engineering Geology
- Geotechnics
- Hydro-Hydrogeological Sciences
- Natural Hazards
- Oil, Gas & Coal
- Geothermal Energy
- Geomorphology
- Geochemistry, Mineralogy, Petrology & Volcanology

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## MEETING INFORMATION

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- Stratigraphy, Sedimentology & Palaeontology
- Geophysics & Seismology
- Geodesy, Photogrammetry & Cartography
- Informatics, Geoinformatics & Remote Sensing
- Mining Engineering
- Mineral Processing
- Blasting & New Technologies
- Natural Resources
- Environmental Sciences
- Energy, Resources & Pollution & the Environment
- Environmental Legislation
- Biogeosciences
- Geological Heritage & Geoparks
- Urban Planning
- Atmospheric Sciences
- Oceanography
- Climatology
- Glaciology
- Modelling and Soft Computing in Earth Sciences
- Medical Geology
- Occupational Health and Safety

**Pathumtani, Thailand, September 14–15,  
2017**  
**50th Anniversary Symposium of Southeast  
Asian Geotechnical Society**



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## MEETING INFORMATION

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The 50th Anniversary Symposium of Southeast Asian Geotechnical Society to be held in Pathumtani, Thailand on September 14 – 15, 2017.

The Symposium consists exclusively of invited papers. There are about 35 distinguished invited lecturers. More details can be found on the Advisory Committee, the Lecture topics, biographies of the lecturers, opening ceremony, session chairmen etc as contained in the conference website. The Histories of SEAGS and AGSSEA are also contained in the conference website.

### CONFERENCE TOPICS

- Achievements, Looking Ahead and Case Histories
- Foundations, Tunneling and Soil Movements
- Ground Improvement: Ground Investigation Challenges and Hazards
- Slope Stability, Excavations and Landslides

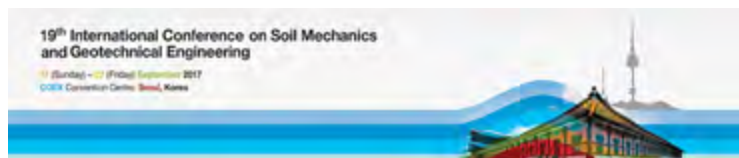
### CONFERENCE VENUE

The conference will be held at AIT Conference Center Pathumtani, Thailand.

**Conference Website:** <http://www.aitcc.ait.ac.th/>

## Seoul, Republic of Korea, September 17- 22, 2017

### The 19th International Conference on Soil Mechanics and Geotechnical Engineering



The 19th International Conference on Soil Mechanics and Geotechnical Engineering (ICSMGE 2017) will be held in Seoul, Korea from 17 to 21 September 2017. The conference will be hosted by Korean Geotechnical Society and organized by the organizing committee of ICSMGE 2017.

The theme of the 19th ICSMGE is "Unearth the Future, Connect Beyond." It is about bridging the gaps between

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## MEETING INFORMATION

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past and future, between young and senior engineers, and between developing and developed nations among others. Making these connections is the key to greater innovations.

**Conference Website:** <http://www.icsmge2017.org>

### Main Themes

Topic 1: Laboratory Testing and Modelling

Topic 2: Small and Large Works

Topic 3: Natural Hazards

Topic 4: Environmental Preservation and Sustainable Development

Topic 5: Geotechnical Cultures and Responsibilities

Topic 6: Future Technological Innovation

**Bali, Indonesia, September 25-27, 2017**  
**International Conference on Advancement  
of Pile Technologies and Case Histories (PILE  
2017)**



International Conference on Advancement of Pile Technologies and Case Histories (PILE 2017) is going to be held on September 25 - 27, 2017 in Bali.

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## MEETING INFORMATION

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**Conference Website:** <https://www.pile2017.com/>

**CONFERENCE THEMES:**

- Method of Pile Installation
- Design and Analysis of Pile Foundations
- Piles and Insitu Testing
- Pile in Moving Ground
- Negative Skin Friction on Piles
- Piles in Liquefiable Soils
- Pile in Problematic Soils and Non-Textbook Soils
- Offshores Piles
- Effect of Pile Installations on Surrounding Soils and Structures
- Numerical Modeling of Pile-Soil Interaction
- Quality Assurance of Pile Production with Various Field Problem
- Auger Piles and Mini Piles
- Energy Piles
- Pile Static and Dynamic Test
- Pile Raft Foundation
- Case Histories on Pile Foundations
- Innovation in Pile Technology
- Performance of Pile Group and Pile Group Settlement
- Issues on Pile Groups Efficiency
- Piles in Moving Ground

**Minneapolis, Minnesota, USA, September 26-28, 2017**

**International Intelligent Construction Group Conference (IICTG 2017)**



The IICTG 2017 conference will be held at the Renaissance Minneapolis Hotel, The Depot, in Minneapolis, Minnesota, USA from September 26 to



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## MEETING INFORMATION

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28, 2017. The theme is "ICT (Intelligent Construction Technologies) – Past and Future". This conference will cover the history and future development of intelligent construction technologies (ICT). Other main topics will include intelligent compaction (IC), Paver-Mounted Thermal Profiling (PMTP) and data management , etc. The language for this conference is English.

### Conference Website:

<http://www.iictg.org/2017-conference/>

### Main topics:

- Integration of Intelligent Construction Technologies (ICT)
  - Research and Implementation on Intelligent Compaction (IC) Equipment and Systems
  - Research and Implementation on Paver-mounted Thermal Profiling (PMTP) Equipment and Systems
  - Positioning Systems and Automated Machine Guidance (AMG) for Intelligent Construction
  - Data Analysis and Reporting of Intelligent Construction Data
  - Cloud Computing and Data Management for Intelligent Construction
  - Standardization of IC Measurements, Data Exchanges, and Storag
  - IC Specifications and Case Studies – Lessons Learn
- Important Dates

- November 18, 2016 – Call for Presentations
- March 15, 2017 – Submission abstracts of presentations
- March 28, 2017 – Notification of accepted titles/ abstracts for presentations
- June 28, 2017 – The early-bird registration
- July 28, 2017 – The early-bird hotel reservation at the conference rates

### **Dubai, UAE, October 16-17, 2017 3rd World Congress on Climate Change and Global Warming**

The 3rd World Congress on Climate Change and Global Warming is going to be held in Dubai , on October 16-17, 2017. Climate Congress will provide a unique scientific and technical platform to share the research experiences among the best-available experts and professionals

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## MEETING INFORMATION

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from all over the world engaged in different fields of Climate Science. Climate Change conferences aims is to aggregate the eminent researchers, academicians and scientists from the field of Meteorology, Oceanography, Sustainability and specific related areas to create a platform for strong exchange of ideas and development for a sustainable environment. Climate Change Conferences includes invited plenary lectures, symposia, workshops, invited sessions and oral and poster sessions of unsolicited contributions.

**Conference Website:**

<http://climatecongress.conferenceseries.com/#homeCarousel>

### **Tehran, IRAN, October 17-19, 2017 4th International Conference on Long-Term Behaviour and Environmentally Friendly Rehabilitation Technologies of Dams (LTBD 2017)**

The 4th International Conference on Long-Term Behaviour and Environmentally Friendly Rehabilitation Technologies of Dams (LTBD 2017) will be held at IRIB International Conference Centre in Tehran, IRAN from 17 to 19 October, 2017.

**Conference Website:** <http://www.ltbd2017.ir/en/>

### **New Orleans, LA, USA, October 24-26, 2017 DFI 42nd Annual Conference on Deep Foundations**



DFI 42nd Annual Conference on Deep Foundations will be held at the New Orleans Marriott, in New Orleans, LA from October 24 - 26, 2017. The conference will also include meetings of DFI's 18 Technical Committees

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## MEETING INFORMATION

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and 3 Working Groups, technical sessions, networking receptions, luncheons, over 120 exhibitor displays, and the annual DFI Awards Reception and Banquet.

DFI's Annual Conference attracts industry professionals from around the globe to gather and share experiences, exchange ideas and learn the current state of the practice from various disciplines. Over 1,000 engineers, contractors, manufacturers, suppliers, owners, government agencies and academicians are expected to meet in New Orleans to attend informative technical sessions, learn more about the latest innovations in deep foundations technology in the Exhibit Hall and much more.

**Conference Website:**

<http://www.deepfoundations2017.org>

**Aristotle University of Thessaloniki, Greece,  
November 3-9, 2017**

**International Seminar on Roads, Bridges  
and Tunnels**



The International Seminar on Roads, Bridges and Tunnels will be held at the Aristotle University of Thessaloniki (AUTH), in Greece from 3-9 November 2017. The lectures focused on applied engineering issues and methods of construction in infrastructure engineering projects. The cornerstone and the scope of the Seminar was to transfer knowledge from construction projects to both well-qualified and entry-level engineers, either to improve their professional skills or to enhance their qualifications in search of a job position.

**Conference Website:** <http://isrbt.civil.auth.gr>

**Main topics:**

- Construction management of motorway projects

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## MEETING INFORMATION

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- Motorway concession projects
- Motorway construction projects in international context
- Road earthworks and environment
- Landslides and stabilization measures
- Construction methods for bridges
- Suspended bridges
- Motorway operations
- NATM tunnelling method for motorways
- Motorway pavements and asphalt courses
- Traffic safety on motorways
- ITS systems for motorways

### **Dallas, Texas, USA, November 12-15, 2017 Second Pan-American Conference on Unsaturated Soils (Unsaturated Soil Mechanics for Sustainable Geotechnics)**



The Second Pan-American Conference on Unsaturated Soils (Unsaturated Soil Mechanics for Sustainable Geotechnics) will be held in Dallas, Texas from November 12-15, 2017. PanAm-UNSAT 2017 will follow this series of successful regional and international conferences on Unsaturated Soils, bringing together researchers, practitioners, students and policy makers from around the world, particularly the Americas, to share the latest research advances, engineering applications, and pedagogical approaches in the unsaturated soil mechanics discipline. Focusing on characterization, modeling, design, construction, and field performance.

#### **Conference Website:**

<http://www.geoinstitute.org/event/2017-pan-am-unsat/>

#### **Main topics:**

- Short Courses
- Keynotes/State-of-the-Art/State-of-the-Practice lectures
- Multi-Session Symposium honoring Professor Del

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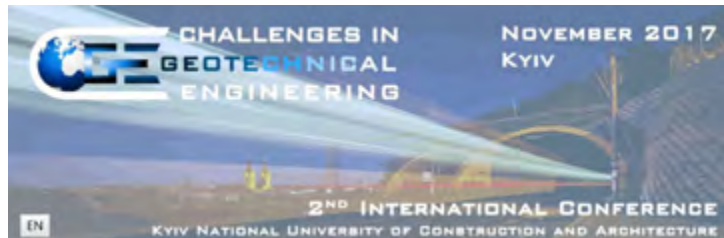
## MEETING INFORMATION

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Fredlund

- Technical Sessions
- Panel Discussions
- Posters
- Exhibitors
- Social and Networking Opportunities
- Student Program

### **Kyiv, Ukraine, November 24-26, 2017 Second International Conference "Challenges in Geotechnical Engineering" 2017**



The Second International Conference "Challenges in Geotechnical Engineering" 2017 will be held in Kyiv, Ukraine from November 24-26, 2017. The conference is organized under the framework of the international scientific cooperation between Ukraine and Poland. It further expands more than 70 years of experience in conducting scientific conferences by KNUCA and a 40-year tradition of organising conferences on engineering geology by the University of Zielona Gora. The conference aims to improve scientific and technical levels in solving geotechnical problems.

**Conference Website:** <http://www.cgeconf.com/en>

#### **Main topics:**

- Numerical simulation.
- Analysis of the interactions of the elements in the "soil - foundation - structure" system.
- Construction of high-rise buildings and deep foundation pits.
- Ensuring slope stability.
- Construction in the seismically dangerous areas or under dynamic loads.
- Installation of foundations under difficult geological



## MEETING INFORMATION

conditions.

- Areas with a complex geological and glacitectonic structures
- Modern methods of soil research and other geotechnical and related issues.

### Hunan, China, November 24-27, 2017 2nd International Symposium on Asia Urban GeoEngineering



The 2nd International Symposium on Asia Urban GeoEngineering will be held in Hunan, China from November 24-27, 2017. The aim of this symposium is to share ideas and experiences about urban geoengineering in Asian countries among engineers, researchers and academia professors. The emphasis will be on improving our knowledge in meeting geoengineering requirements for a long-term sustainable urban development and the need to protect and preserve our environment.

**Conference Website:** <http://www.isaug2017.org/>

#### Main topics:

- Fundamental behavior and constitutive model of geomaterials;
- Excavation engineering;
- Tunneling;
- Urban environmental geotechnical problems and disaster effects;
- Risk and safety assessment, management and control in urban geoengineering;
- Design standards of deep excavation among Asian countries

#### Important Dates

- Abstract submission deadline: Feb. 28, 2017
- Abstract submission notice: Mar. 31, 2017

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- Full paper submission deadline: May. 31, 2017
- Full paper submission notice: Jul. 31, 2017
- Early bird registration open: Mar. 1, 2017
- Symposium: Nov. 24~27, 2017

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## MEETING INFORMATION

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

**11 th International Conference on  
Geosynthetics (11ICG)**



The 11 th International Conference on Geosynthetics (11ICG) will be held in Coex, Seoul, Korea from September 16 - 21, 2018. The theme of the 11ICG is "Geosynthetics: Innovative Solutions for Sustainable Development," and will cover diverse disciplines of geosynthetics from fundamentals to applications.

**Conference Website:** [www.11icg-seoul.org](http://www.11icg-seoul.org)

**Main topics:**

- Sustainability and Green Technology with Geosynthetics
- Geosynthetic Barriers
- Geosynthetics in Filtration, Drainage and Erosion Control
- Reinforced Walls and Slopes
- Ground Improvement Using Geosynthetics
- Roads, Railways and Other Transportation Applications
- Soil-Geosynthetic Interaction
- Hydraulic Applications
- Innovative Uses and New Developments
- Case Histories
- Durability and Long Term Performance
- Physical and Numerical Analysis
- Geosynthetics Properties and Testing
- Quality Control and Quality Assurance
- Design Approaches and Other Applications

# /10. CONTACT INFORMATION

## IAEG EXECUTIVE COMMITTEE 2015-2018

**Scott F. Burns**

Portland State University  
Dept. of Geology  
P.O. Box 751  
Portland, OR 97207  
**USA**

Tel +1 503-725-3389  
Fax +1 503-725-3025  
Mai burnss@pdx.edu

President  
Président

**Carlos Delgado**

ESCUELA TÉCNICA SUPERIOR  
DE INGENIERÍA CIVIL  
Alfonso XII, 3 y 5  
28014 – MADRID  
**ESPAGNE**

Tel + 34 91 336 77 36  
Fax + 34 91 336 79 61  
Mail secretaria.subdireccion.ingenieriacivil@upm.es

Immediate past president  
Président sortant

**WU Faquan**

Shaoxing University  
No.508 Huanchengxilu  
Shaoxing City,  
Zhejiang Province  
**CHINA**

Tel + 86-0575-88346551  
Fax + 86-0575-88346551  
Mail wufaquan001@hotmail.com

Secretary general  
Secrétaire général

**Jean-Alain Fleurisson**

Mines ParisTech - Centre de  
Géosciences. 35, rue Saint  
Honoré. 77305 Fontainebleau  
**FRANCE**

Tel +33 (0)1 64 69 48 13 (Sec. 48 94)  
Mail jean-alain.fleurisson@mines-paristech.fr

Treasurer  
Trésorier

**Martin CULSHAW**

49 Shelford Road  
Radcliffe-on-Trent  
Nottingham  
NG12 1AE  
**UK**

Tel +44 (0)115 911 9137  
Mobile +44 (0)7929931358  
Mail martin.culshaw2@ntlworld.com

Bulletin Editor in Chief

**Louis van Rooy**

Department Geology  
University of Pretoria  
Private bag X20 Hatfield,  
Pretoria 0028  
**SOUTH AFRICA**

Tel +27124202023  
Fax +27123625219  
Mail louis.vanrooy@up.ac.za

Vice-president for Africa  
Vice-président pour l'Afrique  
[National groups : Algeria ;  
South Africa]

**Yogendra Deva**

Bhilwara Towers, ICCS Ltd.,  
A-12, Sector-1, NOIDA 201  
301,  
Delhi-NCR

**INDIA**

Mob +919871178299  
Fax +911204277847  
Mail yogendradeva@gmail.com  
yogendra.deva@lnjbhilwara.com

Vice-president for Asia  
Vice-président pour l'Asie  
[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]

**Mark EGGERS**

Pells Sullivan Meynink  
G3, 56 Delhi Road  
North Ryde NSW 2113

**AUSTRALIA**

Tel +61 2 98125000  
Mob +61 418 677173  
Mail mark.eggers@psm.com.au

Vice-president for Australasia  
Vice-président pour l'Australasie  
[National groups : Australia ; New  
Zealand]

**Jeffrey R Keaton**

Amec Foster Wheeler 6001  
Rickenbacker Rd,  
Los Angeles, CA 90040

**USA**

Tel +1 323 889 5316 office  
+1 323 203 6958 mobile  
Mail jeff.keaton@amecfw.com

Vice-president for North America  
Vice-président pour l'Amérique du Nord  
[National groups : Canada ; Mexico ;  
United States of America]

**Maria Heloisa Barros de  
Oliveira Frascá**

MHB Geological Services  
Ltd.  
Rua Monte Alegre, 1347  
05014-002 São Paulo, SP

**BRAZIL**

Tel + 55 11 38621148  
Mob + 55 11 984476247  
Mail mheloisa2@yahoo.com.br

Vice-president for South America  
Vice-président pour l'Amérique du Sud  
[National groups : Argentina ; Brazil ;  
Colombia ; Paraguay ; Peru]

**Giorgio LOLLINO**

CNR-IRPI  
Strada delle Cacce, 73  
10135 Torino

**ITALY**

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

Web Editor & 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]

**Rafiq Azzam**

Engineering Geology RWTH  
Lochnerstr. 4-20  
52064 Aachen

**GERMANY**

Tel + 49 241 8095741  
Fax + 49 241 8092280  
Mail azzam@lih.rwth-aachen.de

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]

# IAEG National Group

Defrim SHKUPI  
President  
defrim\_shkupi@yahoo.com

## **ALBANIA / l'albanie**

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**

Christian TREVE  
President  
ctreve@cfe.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 / 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  
sociedadcolombianadegotechnia@scg.org.co  
scgeotecnia1@gmail.com

## **COLOMBIA/ la colombie**



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**

Pavel Pospíšil

pavel.pospisil@vsb.cz

Jan Novotný

Secretary

iaeg@irms.cas.cz

jan.novotny@geology.cz

**CZECH REPUBLIC / RÉPUBLIQUE  
TCHÈQUE**

Jan Dannemand Andersen

President

jda@geo.dk

John Kærgaard Frederiksen

IAEG representative for the Board of the Danish  
Geotechnical Society

JRF@ramboll.dk

**DENMARK / DANEMARK**

Johannes PELLO

President

Tallinn Technical University

Room III-217 Ehitajate tee 5

Tallin 19086

**ESTONIA / ESTONIE**

Arto Koskiahde

President

artokoskia@gmail.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 / la 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 Építőanyagok és Mérnökgeológia Tanszék

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/ l'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**

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

**PORTUGAL / le 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 / la serbie**

Zhiye Zhao  
President  
CZZHAO@ntu.edu.sg  
Angeline Long  
Secretary  
srmeg@cma.sg

**SINGAPORE / singapour**

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  
mekmekci62@gmail.com  
**TURKEY/ la turquie**

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

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

Ta Duc Thinh  
President  
taducthinh\_dcct@yahoo.com  
Do Minh Duc  
Secretary  
ducdm@vnu.edu.vn  
ducgeo@gmail.com  
**Vietnam / le 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  
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  
chistar@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 Ruilin

President

[hurl@mail.igcas.ac.cn](mailto:hurl@mail.igcas.ac.cn)

Li Lihui

Secretary

[lhli2942@mail.igcas.ac.cn](mailto:lhli2942@mail.igcas.ac.cn)

**C32 Engineering Geology and Rural Infrastructure**

Jasper Cook

President

[jcook@otbeng.com](mailto:jcook@otbeng.com)

**C34 Marine Engineering Geology**

JIA Yonggang

President

[yonggang@ouc.edu.cn](mailto:yonggang@ouc.edu.cn)

Liu Xiaolei

Secretary

[ffnlxl\\_001@sina.com](mailto:ffnlxl_001@sina.com)

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

Daniel Giordan

President

[segreteria@iaeg.it](mailto:segreteria@iaeg.it)

**C36 Engineering Geology for Waste Disposal**

YE Weimin

President

[ye\\_tju@tongji.edu.cn](mailto:ye_tju@tongji.edu.cn)

CHEN Yonggui

Secretary

[cyg@tongji.edu.cn](mailto:cyg@tongji.edu.cn)

**C37 Landslide Nomenclature**

Hengxing Lan

President

[Lanhx@igsnr.ac.cn](mailto:Lanhx@igsnr.ac.cn)

Renato Macciotta

Secretary

[macciott@ualberta.ca](mailto:macciott@ualberta.ca)

## IAEG Management Committees

**Enterprise Committee**

Jeffrey R Keaton

Chairperson

[jeff.keaton@amecfw.com](mailto:jeff.keaton@amecfw.com)

Wei Zhang

Assistant Chair

[zhangwei@jk.com.cn](mailto:zhangwei@jk.com.cn)

**Fees and Finance Committee**

Jean-Alain Fleurisson

Chairperson

[jean-alain.fleurisson@mines-paristech.fr](mailto:jean-alain.fleurisson@mines-paristech.fr)

**Membership Committee**

Faquan Wu

Chairperson

[iaegsg@163.com](mailto:iaegsg@163.com)

Yogendra Deva

Assistant Chair

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

**Strategic Plan Committee**

Scott Burns

Chairperson

[burnss@pdx.edu](mailto:burnss@pdx.edu)

Mark Eggers

Assistant Chair

[mark.eggers@psm.com.au](mailto:mark.eggers@psm.com.au)

**Technical Oversight Committee-TOC**

Scott Burns - Chairperson

[burnss@pdx.edu](mailto:burnss@pdx.edu)

Jeffrey R Keaton - C01, C19 and C21

[jeff.keaton@amecfw.com](mailto:jeff.keaton@amecfw.com)

Mark Eggers - C4, C25 and C34

[mark.eggers@psm.com.au](mailto:mark.eggers@psm.com.au)

Maria Heloisa Barros de Oliveira Frascá - C10, C17

[mheloisa2@yahoo.com.br](mailto:mheloisa2@yahoo.com.br)

Louis van Rooy - C16 and C29

[louis.vanrooy@up.ac.za](mailto:louis.vanrooy@up.ac.za)

Yogendra Deva - C28 and C32

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

Rafiq Azzam - C20 and C24

[azzam@lih.rwth-aachen.de](mailto:azzam@lih.rwth-aachen.de)

Giorgio Lollino - C35, C36 and C37

[giorgio.lollino@irpi.cnr.it](mailto:giorgio.lollino@irpi.cnr.it)

### **Young Engineering Geologists Committee**

Louise Vick

Chairperson

[louise.m.vick@uit.no](mailto:louise.m.vick@uit.no)

Morley Beckman

Assistant Chair

[mbeckman@kleinfelder.com](mailto:mbeckman@kleinfelder.com)