



# IAEG NEWSLETTER

**Electronic Version**

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Edited by the IAEG Secretariat, Beijing

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# 1. LETTER FROM THE PRESIDENT OF IAEG

Dear colleagues,

I would like to express my gratitude and respect for your efforts towards IAEG and your support for my post as the IAEG president.

As we are nearing the end of 2014, I am pleased to share with you all the great progress of IAEG during the 4 years period as from 2011.

First of all, IAEG has been increasingly active and attractive in the engineering geology community. We have increased the number of IAEG individual members from 3130 in the year 2011 to 3808 in 2013, with a 21.7% increase. The Council has approved to set up the Hong Kong Regional Group, and has reactivated the Viet Nam and Malaysian National Groups. There are now in total 57 national/regional groups in the IAEG family, but our biggest challenge is still to continue our growth in membership in order to guarantee our future.



To direct and stimulate the activity of Commissions, IAEG has set up the Technical Oversight Committee (TOC). The Council has decided to close 6 inactive commissions and set up 5 new commissions for the common concerned fields of engineering geology. Ten commissions are still active in their subjects.

The Bulletin of IAEG has made much progress in the past 4 years. The IAEG Executive Committee appointed a new editor-in chief for our Bulletin. Martin Culshaw and his team work are doing excellent work. The volume of the Bulletin has been increased to 200 pages for each issue, and they have rapidly increased the Impact Factor of the Journal from 0.617 to 0.721 in the last 2 years.

The IAEG website has a new countenance with the contribution of Giorgio Lollino and his team since 2011. More and more valuable information including video lectures, courses, conference presentations and historical data of IAEG are provided to our members by the website.

We successfully organized the IAEG2014 congress in Torino Italy last September. More than 1030 engineering geologists attended the distinguished gathering, and more than 1700 papers have been published in 8 volumes of proceedings. This congress is unprecedented in the history of IAEG which has attracted much more outstanding scientists, engineers and enterprises together than before, within and beyond the field of engineering geology. And we also organized two Regional Conferences in Moscow and Beijing in 2011 and 2013 respectively. A series of symposia have been hosted by national groups during the past 4 years.

The last Executive Committee meeting and Council meeting were held in Torino on the occasion of IAEG2014 congress. The officers of the Executive Committee for the next 4 years period were elected by the Council and will start to work as from January 1<sup>st</sup>, 2015. Scott Burns from the United States has been elected as the next president of IAEG, and 7 vice presidents for geographical regions have been created by election. The Secretariat will remain in Beijing.

To promote the development of the discipline of engineering geology, the Council meeting in Torino also approved to set up the IAEG International Research Program and IAEG Science-Technology Awards. TOC is instructed to evaluate and oversee the projects of the program and select the projects for the S-T awards.

The celebration for the 50th anniversary of IAEG was organized at the Opening Ceremony of the IAEG2014 congress in Torino. A very well designed autograph book was released to all the participants of the congress and will be sent to all IAEG members with the Bulletin and also to those who have made a great contribution to the IAEG history.

Awards of IAEG were presented to those who have made an important contribution to the development of the discipline of engineering geology and IAEG. The Hans Cloos Medal was

awarded in 2012 to Professor Victor Osipov from Russia and this year 2014 to Professor Roger Cojean from France; the Richard Wolters Prize was received by Dr. Saroglou Haralambos from Greece in 2012 and by Dr. Louis Wong from Singapore in 2014, and the first Marcel Arnould Medal, recently created in recognition of special services to IAEG, was presented to Professor Brian Hawkins from the United Kingdom.

As the president of IAEG, I would like to express my sincere gratitude to all the members of this association, the members of the Executive Committee and the Council, who have worked with me and have witnessed the progress of IAEG in the past 4 years and I am fully confident of a very good future for IAEG and Engineering Geology worldwide.

A handwritten signature in blue ink, appearing to read 'C. Delgado', with a stylized flourish extending to the right.

Carlos Delgado

President of IAEG

## 2. EXECUTIVE COMMITTEE AND COUNCIL MEETING 2014

By the Secretariat

Before the IAEG Congress 2014 in Torino, Italy on 15th - 19th September, 2014, IAEG held the Executive Committee meeting and Council meeting on 13rd and 14th.

The President, Secretary General, Treasurer, Vice Presidents, members of TOC, Chair of the Congress, Editor in Chief of Bulletin and website have given their reports, and some important issues have been discussed and voted by the Council referring finance management, membership fee adjustment, the strategy of commission development, relationship with sister societies, Bulletin, website, 50th anniversary book, proposal for IAEG-International Research Program (IRP) & IAEG Science-Technology Awards (S-T Awards). Most importantly, by secret ballot, the Council voted the Executive Committee 2015-2018.

### **The Council has reached agreements and made the following major decisions:**

The reports of President, Secretary General and Treasurer have been approved.

The Council approves 7.5k€ this year and 5k€ next year for video record and online including Congress video.

The Council approves 10k€ for website development every year.

The Council approved the proposal from TOC and decided to close the C22, establish C35-engineering geology for waste disposal and merge C17 and C27.

Besides english and french, the Council approves to offer a third language for author's option in online only abstract of Bulletin.

The Council approved the membership will be all with online version Bulletin without the printed paper version in the future as long as the approval of the proposal on membership fee adjustment.

The Council approved to establish a four members committee, nominated by ExCom members, on membership fee adjustment, which should include the treasurer. The committee will do the survey, research and make the proposal to the Council.

The Council approved the proposals for IAEG-International Research Program (IRP) & IAEG Science-Technology Awards (S-T Awards) and approves 10k€ to IRP.

The Council approved to award the past secretary general Michel Deveughele as the IAEG honorary member.

After secret ballot by the Council, the meetings of the Executive Committee and the Council 2015 will be held on 25 and 26 October separately at the occasion of the International conference of "Engineering Geology in New Millennium, New Delhi, 27-29 October 2015 and 50th anniversary celebration of IAEG India National Group.



Photos of the ExCom (left) and Council (right) meeting 2014

The Council approved the IAEG sponsorship to 10th Asian regional conference hosted by Japan NG on 26-27 September in Kyoto, Japan.

The Council approved the the official proposal to host IAEG Congress 2018 and invitation to ExCom and Council meeting 2018 by USA NG and AEG .

After secret ballot by the Council, the ExCom 2015-2018 is elected.

President	Scott Burns (USA)
Secretary General	Faquan WU (China)
Treasurer	Jean-Alain Fleurisson (France)
Vice-Presidents	
Asia	Yogendra Deva (India)
Africa	Louis van Rooy (South Africa)
Australasia	Mark Eggers (New Zealand and Australia)
North Europe	Rafiq Azzam (German)
South Europe	Giorgio Lollion (Italy)
North American	Jeffery Keaton (USA)
South American	Maria Heloisa B. Oliveira Frascá (Brazil)

Minute of Council meeting 2014 please view:

<https://www.dropbox.com/s/x9aqlvd8ee2a7r1/Minute%20of%20IAEG%20Council%20Meeting%202014.pdf?dl=0>

### 3. ELECTION RESULT OF IAEG OFFICERS FOR 2015-2018



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

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#### Election Result of IAEG Officers for 2015-2018

Dear colleagues,

The election of members of the Executive Committee took place on the Council meeting by secret ballot at IAEG International Congress XII in Torino, September 14, 2014. The new office of members of the Executive Committee is as below.

President:	Scott Burns (USA)
Secretary General:	Faquan WU (China)
Treasurer:	Jean-Alain Fleurisson (France)
VP for Asia:	Yogendra Deva (India)
VP for Africa:	Louis van Rooy (South Africa)
VP for Australasia:	Mark Eggers (New Zealand and Australia)
VP for North Europe:	Rafiq Azzam (Germany)
VP for South Europe:	Giorgio Lollino (Italy)
VP for North America:	Jeffery Keaton (USA)
VP for South America:	Maria Heloisa B. Oliveira Frascá (Brazil)

The term of office of members of the Executive Committee will be four years, effective on January 1st, 2015. Members of the Executive Committee, except the Secretary General and the Treasurer, are not immediately eligible for reelection to the same office.

Any questions regarding these procedures should be directed to Secretary General by e-mail to [iaegsg@163.com](mailto:iaegsg@163.com)

Carlos Delgado  
IAEG President 2011-2014  
October 1st, 2014

## **President Scott Burns (USA) Curriculum Vita**

Email:burns@pdx.edu	Portland state University
Office:503-725-3389	Dept.of Geology
Fax: 503-725-3025	P.O.Box 751
	Portland,OR 97207

As a Professor of Engineering Geology, Prof. Scott Burns has been an IAEG Member from the United States since the 2004 and has served as US National Group Representative since the IAEG Congress in 2004. Throughout his career of more than 40 years, Dr. Burns has been continuously active with AEG, as well as with the Environmental & Engineering Geology Division of the Geological Society of America as Chair giving him a firm basis for promoting IAEG throughout the US.

### **Education**

1980 PhD-Geology, University of Colorado  
1970 MS-Physical Science, Stanford University  
1969 BS-Chemistry, Stanford University

### **Employment**

- a) Professor and Department Chair, Portland State University, 2008-2009
- b) Professor, Portland State University, 1999-current
- c) Professor and Associate Dean, College of Liberal Arts & Sciences, 1997-99
- d) Associate Professor, Portland State University, 1990-97
- e) Associate Professor, Louisiana Tech University, 1982-90
- f) Visiting Professor, University of Colorado, Boulder, 1982
- g) Visiting Professor, Western Washington University, 1981
- h) Post-Doctoral Fellow, Lincoln College, New Zealand, 1980-81
- i) Research Assistant, University of Colorado, 1977-80
- j) Teaching Assistant, University of Colorado, 1976-77
- k) Laboratory Associate, Community College of Denver, 1976
- l) Head of the Dept. of Natural Sciences, American College of Switzerland, 1971-75
- m) Assistant Professor, American College of Switzerland, 1970-75
- n) Teaching Assistant, Stanford University, 1969-70

Prof. Scott Burns has many years of experience in leadership, not only in engineering geology, but in academia and service organizations:

- a) Vice president for North America for IAEG,
- b) President of AEG,
- c) Chair, Engineering Division of Geological Society of America,
- d) Chair, my academic department at three different universities,
- e) President of the Faculty Senate at three different universities,
- f) Associate Dean for the College of Liberal Arts and Sciences, Portland State University,
- g) President, Rotary Club of Portland (15<sup>th</sup> oldest in world and 26<sup>h</sup> largest of 33,000 clubs internationally),
- h) President, Oregon Soil Science Society,
- i) Kellogg National Leadership Fellow, Kellogg Foundation, United States.

A 36 pages Prof. Scott Burns' CV could be downloaded via

<https://www.dropbox.com/s/ysbya6gtrbakvl4/Scott%20Burns%20CV.pdf?dl=0>

## 4. CHANGE OF TREASURER

Dear all,

As you know, I have been working as Treasurer of the IAEG for 16 years. However, next year, according to the vote of the IAEG Council in Torino, last September, Alain Fleurisson will replace me in this function.

So I ask you now not to transfer money to the IAEG account at Société Générale but on the Crédit Agricole account 119 boulevard Saint Germain, Paris 06 (IBAN: FR76 1820 6002 0335 3617 7900 103).

I want to inform you that it has been very interesting for me to work for IAEG because it gave me the opportunity to visit some wonderful countries and to meet very nice people all over the world.

I wish you the best things for Xmas and the New Year 2015 celebrations and for years to come.

Sincerely yours

Pierre Potherat

11, rue du Temple

21570 THOIRES

mobile: 0621883853



## 5. REPORT OF IAEG CONGRESS 2014

[www.iaeg2014.com](http://www.iaeg2014.com)

By the Secretariat

IAEG Congress 2014 was held in Lingotto Conference Centre in Torino, Italy on 15th - 19th September, 2014, with more than 1060 delegates from over 60 countries attending the Congress. The Congress celebrated IAEG 50th Anniversary.



Opening ceremony

The theme of Congress is “Engineering Geology for Society and Territory”, with 8 topics included: Climate change and engineering geology, Landslide processes, River basins, reservoir sedimentation and water resources, Marine and coastal processes, Urban geology, sustainable planning and landscape exploitation, Applied geology for major engineering projects, Education, professional ethics and public recognition of engineering geology and Preservation of cultural heritage. Refer to 8 topics, the Congress also arranged 21 keynote speakers and 141 sessions. Besides the sessions, the Congress offered the facilities for 14 workshops and short course. IAEG C4, C17, C28, C32 and C35 held workshops and IAEG Bulletin held a short course on how to write a scientific paper. The Congress has received more than 1760 abstracts. Springer published the proceedings in a series of 8 volumes on 8 topics above.

The Congress organized 7 field trips in Italy and an intensive course on geodiversity and geoheritage: evaluation and interpretation.

The Congress opening ceremony was grandly held at 9 AM, on 15th. September. Giorgio Lollino, Chair of the IAEG 2014 Congress, made the welcome speech firstly and then the greetings from the authorities: President of IAEG (Carlos Delgado), Council member of the Torino Municipality (Enzo Lavolta), Council member of the Piedmont Region (Alberto Valmaggia), Secretary General Camera di Commercio Torino (Guido Bolatto), Representative of the Valle d’Aosta Regional Government (Raffaele Rocco), Director of CNR-IRPI (Fausto Guzzetti), and Honorary President of IAEG Italian Group (Vincenzo Cotecchia).



Giorgio Lollino, Chair of the IAEG 2014 Congress, made the welcome speech

After the opening ceremony in the morning, there were 8 keynote speeches and IAEG 50th anniversary ceremony activities in the day. The keynote lectures were as following.

Carlos Delgado – Problems in buildings and public works derived from soils with unsteable structure and soils with large volume instability

Scott Burns – Urban Landslides: A Challenge for forensic engineering geologists

David Cruden – Using the Working Classification of Landslides to assess the danger from a Natural Slope

Runqiu Huang – Understanding the mechanism of large-scale landslides

Luciano Picarelli – Observing, modelling and checking slope behaviour: is there a better way to fully exploit the expertise of geologists and engineers at the same time?

Roger Cojean - Engineering Geology, some feedbacks regarding the practice of a scientific and technical discipline

Paul Marinos – Engineering Geology for tunneling in difficult ground

Alessandro Palmieri – Translating Geotechnical Risk in Financial Terms

Victor Osipov – Large-Scale Thematic Geological Mapping of Moscow Area

Faquan Wu – Large deformation of tunnel in slate-schistose rock

During IAEG 50th Anniversary Celebration in the afternoon on 15th, September, IAEG published the IAEG 50th Anniversary Book, as a reflection on the past, present and future of engineering geology and IAEG. As the most important contributions to IAEG 50<sup>th</sup> anniversary, this precious book is edited by Carlos Delgado, Sébastien Dupray, Paul Marinos, Ricardo Oliveira and published by China Science Press. The book took nearly 3 years, including many images, papers and documents. The book describes the facts that motivated the founding of the IAEG, its evolution throughout the years, the people who have directed it, the services provided by its publications, congresses and meetings, and the awards given. It also reflects on the Association's present situation among the societies of earth sciences and geoengineering, and its perspective for the future. After then, FedIGS President Jean-Louis Briaud made a congratulation speech to IAEG 50<sup>th</sup> anniversary and led all the people sing the Happy Birthday song.



The official release of IAEG 50<sup>th</sup> anniversary book



IAEG 50<sup>th</sup> anniversary book distribution desk on the Congress

IAEG printed 3000 copies of IAEG 50th Anniversary Book including CDs. Besides 700 copies distributed on Congress, the rest will be mainly send to members with Bulletin and past Executive committee members by Springer soon.

In the award ceremony, IAEG awarded Hans Cloos Medal 2014 to Prof. Roger Cojean(France). The Hans Cloos Medal is the senior award presented by IAEG, given to an engineering geologist of outstanding merit in commemoration of the "founder of Geomechanics". The recipient should therefore be a person of international repute who has made a major contribution to engineering geology in his/her written papers or to the development of engineering geology. The medal is awarded every two years.

More HCM2014 materials about Prof. Roger Cojean please refer to

[https://www.dropbox.com/s/gf7bbtv7ny6eu0h/HCM2014\\_Roger%20Cojean.zip?dl=0](https://www.dropbox.com/s/gf7bbtv7ny6eu0h/HCM2014_Roger%20Cojean.zip?dl=0)

IAEG awarded Marcel Arnould medal 2014 to Brian Hawkins (UK), editor-in-chief of IAEG Bulletin from 1998 to 2012. It is the first time that IAEG awards this Medal. The Marcel Arnould Medal, awarded every two years, is named after one of the founders of IAEG, a former President and Honorary President, and as such is awarded to an IAEG member who has made a significant contribution to the engineering geology profession in their region and given outstanding service to IAEG.





Marcel Arnoud medal 2014 winner Brian Hawkins (R) and Carlos (L)



Hans Cloos Medal 2014 winner Roger Cojean (L) and Carlos (R)

At 4 pm on 16th, September, IAEG held the Richard Walters Prize contest. The Jury was led by Prof. Osipov (Russia) and the Jury members were Resat Ulusay (Turkey), Jeffery Keaton (USA), Chigira Masahiro (Japan), Silvina Marfil (Argentina), Rafiq Azzam (Germany) and John Stiff (South Africa). There are 6 qualified candidates nominated by National Groups. They are Daniela Anna Engl (Austria), Matthieu Sturzenegger (Canada), Shengwen Qi (China), Vassilios P. Marinos (Greece), Chris Massey (New Zealand) and Louis N.Y. WONG (Singapore). Finally, Louis N.Y. WONG (Singapore) from Nanyang Technological University won the RWP 2014. Shengwen Qi (China) from Chinese Academy of Science and Vassilios P. Marinos (Greece) from Aristotle University of Thessaloniki took the runner-up together. After the new rule of RWP approved by the Council in Beijing 2013, it is the first time to award the RWP according to new rule, which limits the candidates in younger age and value more on oral presentation.



The RWP2014 Contest

The Congress closing ceremony was held at 12:30 on 19th, September. IAEG awards the Richard Walters Prize 2014 to Louis N.Y. WONG (Singapore). The Congress announced the top three of Photo Contest Awards. The Congress ended in a satisfactory way after the final Greetings from IAEG President 2011-2014 Carlos Delgado, IAEG New elected President 2015-2018 Scott Burns and Chair of the Congress Giorgio Lollino.



RWP2014 winner Louis N.Y. WONG (right) ,  
Jury Chair Osipov (left) and Carlos (middle)

All the photos in Photo Contest are in <http://www.iaeg.info/contest/the-contest/> .

During The XII IAEG Congress held in Turin (15-19 september), a number of presentations delivered in the 500 Hall have been video-recorded and available in <http://www.iaeg.info/iaeg2014/web-streaming/> .

The IAEG Congress 2018 will be hold in San Francisco, California by IAEG USA National Group and San Francisco Section of AEG.

## 6. REPORTS FROM VICE PRESIDENTS

### ● AFRICA

By John Stiff

South Africa is still currently the only national group in good standing in the African Region. Algeria is the only other country listed with the IAEG Secretariat but has not reported statistics nor paid affiliation fees for a number of years.

Historically there were national groups in Africa affiliated to IAEG in Cote d'Ivoire, Egypt, Ghana, Morocco, Nigeria, Senegal, Sudan and Tunisia and there is hope that these countries can again be activated. In 2012 interest was shown from Ethiopia and Kenya, but lack of a critical mass has resulted in these countries not being able to get off the ground.

There has been a phenomenal economic growth in West Africa and in particular East Africa over the past couple of years and these economies have seen large scale infrastructure development, particularly in the energy and mining sectors. This bodes well for the prospects and sustainability of establishing national groups in the member countries of these regions. The north African countries are still suffering the aftermath of the Arab Spring and until stability and political tolerance is achieved in these countries there is little prospect of economic stability and growth needed to improve the chances of establishing national groups again in these countries. I still believe that a possible recipe for the African Region is to establish at first sub-regional groups to initially gain a critical mass of membership from which national groups can later separate and gain independence. These can be structured on a similar basis to the existing African Development and Economic Communities of SADC (South Africa), ECOWAS (West Africa), UMA (Arab states of North Africa), COMESA (East Africa), ECCAS (Central Africa) and CEN-SAD (Sahel-Saharan States).

#### **South Africa National Group (SAIEG)**

The South African National Group (Group) has shown an increase in membership in 2013 and now numbers 237 drawing members from South Africa, Namibia, Zimbabwe and Botswana and fulfils to some extent the sub-regional role suggested above. This figure includes 59 student members who are being actively canvassed to membership at the universities. Corporate members of SAIEG are automatically members of IAEG and SAIEG pays affiliation fees to IAEG on these member's behalf.

Within South Africa, SAIEG still actively liaises with the Geotechnical Division of the South African Institution of Civil Engineering (SAICE), together with which we run various meetings and Conferences. We are also actively involved with the South African Council for Natural Scientific Professions (SACNASP), from which South African Engineering Geologists gain their professional registration to practice. SAIEG still liaises closely with the local national groups of ISRM (SANIRE), ISSMGE (SAICE), International Tunnelling Association (SANCOT) as well as the Geological Society of South Africa (GSSA) and has a South Africa Branch of the AEG (USA) totalling 27 full members.

The following events were offered by SAIEG in 2013:

Courses:

- Rock Identification, Midrand, 16-17 August 2013
- Soil profiling, core and chip logging courses, Midrand, 10-12 April 2013
- Soil profiling, core and chip logging courses, Midrand, 2-4 October 2013

Conferences:

- SAIEG & AEG Shlemon Specialty Conference, Sandton, 7-8 March 2013

Lectures:

- Recent Christchurch Earthquakes, by Trevor Pape, Midrand, 29 August 2013
- The Risks To The Public Posed By Large Seismic Events In The Gold Mining Districts Of South Africa, By Professor Ray Durrheim, Midrand, 24th April 2013
- 6th Tony Brink Memorial Lecture, Geo-Engineering in South Africa: What we have achieved and where we are going, by Peter Day: Midrand 7 November; Durban 19th November; Cape Town 20th November 2013

Site visits:

- Geotechnical Centrifuge Laboratory at the University of Pretoria, 19 June 2013

## **Bulletin**

The IAEG Bulletin is bulk posted by the secretariat of SAIEG to those members who have elected to receive it. Members continue to be encouraged to use the IAEG Bulletin to publicise work carried out in South Africa. Very few members are, however, actively publishing work locally and very few publications are forthcoming.

## **In conclusion**

I had hoped to have more opportunities from my professional work in African countries for establishing contact in direct contact through my travels, but this has not realised in the past year. Without regular face-to-face contact it has been difficult to gauge and encourage interest in IAEG. SAIEG intends to host a programme for Engineering Geology at the 35<sup>th</sup> IGC in Cape Town in 2016 and will be canvassing IAEG's support and endorsement. IAEG's support of this congress may just be the catalyst to kick start African interest in IAEG again and I would encourage IAEG to take this opportunity of 'advertising' the Association to the African continent in this way, as many delegates from the continent are expected to attend.

## **● AUSTRALIA**

By Ann Williams

### **International Association for Engineering Geology and the Environment Australasia VP Annual Report: July 2014**

#### **Introduction**

Australasia is made up of the Australian and New Zealand National Groups. The Australian National Group of the IAEG is part of the Australian Geomechanics Society(AGS) and the New Zealand National Group of the IAEG is part of the New Zealand Geotechnical Society(NZGS). All members of the AGS and NZGS are affiliated to one or more of the IAEG, ISRM or ISSMGE.

Both Societies produce a publication: the AGS produces Australian Geomechanics, a Journal published four times each year that contains predominantly peer-reviewed articles: the NZGS produces Geomechanics News twice a year, a bulletin that reports news and activities of the society, new products, and short technical, industry and training related articles as well as advertising.

#### **Contacts**

General correspondence:

Secretary of the NZGS, Amanda Blakey, [secretary@nzgs.org](mailto:secretary@nzgs.org)

Secretary of the AGS, Peter Robinson, [secretary@australiangeomechanics.org](mailto:secretary@australiangeomechanics.org)

IAEG VP, Ann Williams, [ann.williams@beca.com](mailto:ann.williams@beca.com)

IAEG Liaison, Australia, Mark Eggers, [mark.eggers@psm.com.au](mailto:mark.eggers@psm.com.au)

Mark has been selected for the role of IAEG VP Australasia for the period 2015-2018



David Burns will take on the IAEG Liaison role for New Zealand([David.Burns@aecom.com](mailto:David.Burns@aecom.com))

### **Membership Information**

Total number of Australian members affiliated to IAEG at June 2014(down 4%) 310  
Members with Bulletin at June 2014 147

Total number of NZ members affiliated to IAEG at June 2014(up to 12.5%) 387  
Members with Bulletin at June 2014 161

The membership of IAEG within New Zealand has continued to grow at a steady rate, but now only 40% subscribe to the Bulletin (a reduction of 10%). This growth is in part attributed to the seismic and landslide activity in NZ in recent years and growing workforces, however it is also reflection of the activity of the NZGS and the level of participation in events, training.

However the membership within Australia has dropped by a small amount; just under half of all members subscribe to the Bulletin. This loss of membership is partly a reflection of the very limited teaching of engineering geology in Australia, a downturn in the local economic conditions coming out of the Australian mining boom and a reduction in conversion of student members into full members of AGS over the last 12 months.

### **Group Activity- New Zealand**

The NZGS has been working on development of formal guidance in earthquake geotechnical engineering, collaboratively with other national societies, research and government agencies. The completed guidelines are freely available on the NZGS website. The first module, on liquefaction, is being updated. Subsequent modules on foundation design, retaining walls, ground investigation for liquefaction assessment and a specification for ground improvement for residential properties in Christchurch, are in production and are intended to be finished by early 2015.

### **Young Professionals**

New Zealand Geotechnical Society Student Awards:

The New Zealand Geotechnical Society Student Awards are presented to recognize and encourage student participation in the fields of engineering geology and geotechnical engineering. The 2013 recipients of the awards are:

- Luke Storie: Soil foundation structure interaction in shallow foundation spring bed modeling(first place)
- Simon Farquhar and Michael Jones: Effect of vertical acceleration on liquefaction(second)
- Robert Boddington and Charlie Wilkinson: Rockfall probability of failure and hazards assessment in the Port Hills area(third)

The 2014 Young Geotechnical Professionals Conference Award was awarded to 10 members of the NZGS to support their attendance at the Australia/New Zealand Young Geotechnical Professionals Conference being held in Noosa, Australia.

Winners of the 2014 award are: Emella Belczyk, Elby Tang, Martin Barrientos, David Bruxton, Bebecca Ryder, Frances Neeson, Holly Le Heux, Gemma Hayes, Daniet Scott, Mark Hill.

### **2014 New Zealand Geotechnical Society Scholarship**

The NZGS Management Committee has agreed to provide funding for scholarships to enable two members of the Society to undertake postgraduate research in New Zealand that would advance the objectives of the Society. Through the scholarship, the Society hopes to encourage members to enroll for post-graduate research or undertake research which not otherwise be possible for them.

**The 2014 New Zealand Geotechnical Society Scholarship was awarded to:**



- Maxim Millen to complete his PhD studies at Canterbury University on ‘Integrated Performance-based Design of Building-foundation System’; and
- Kelly Robinson for completion of PhD studies at Canterbury University on ‘Liquefaction induced Lateral Ground Displacements(Lateral Spreading) in the Christchurch Area following the 2010 Darfield and 2011 Christchurch Earthquakes’.

### **Richard Wolters Prize**

The NZGS has nominated Chris Massey(from the Institute of Geological and Nuclear Sciences in Wellington) for the Richard Wolters Prize. Chris will contest the Award in Torino.

### **Registration of Engineering Geologists in New Zealand**

Last year we reported that the Institute of Professional Engineers New Zealand (IPENZ) has agreed to the registration of Engineering Geologists as “Professional Engineering Geologists” (PEngGeol) and that Guidelines for evaluating engineering geologists’ competency had been developed. The PEngGeol register was opened on 3 April 2013 with the assessment of the first ten applications; these registrants were then trained as technical assessors to aid in the assessment of future applicants. It is now our task to socialize the register and work to ensure that the quality mark of PEngGeol is applied in industry. As a first step a letter jointly signed by the NZGS and IPENZ has been sent to CEOs of all relevant government bodies in New Zealand explaining the reasons for establishment of PEngGeol as distinct from CPEng.

### **NZGS Symposium**

The 19<sup>th</sup> NZGS Symposium: Hanging by a thread- Lifelines, Infrastructure and Natural Disasters was held in Queenstown in November 2013. Three hundred delegates were treated to 100 presentations over two days of technical sessions. We were fortunate to have keynote lectures by Dr Lelio Mejia, Professor Harry Poulos, and Dr JP Giroud, alongside a wide range of presentations by local academics and practitioners. The symposium was preceded by a series of workshops, and followed by a selection of field trips. All who attended considered the symposium a great success.

### **Group Activity- Australia**

The AGS sponsors and organizes a number of courses in engineering geology partly in recognition of the lack of formal educational courses in Australian universities and also to provide professional development opportunities for practitioners. Activity in this area over the last 12 months is summarized as follows.

- The latest edition of the Geology for Engineers courses was held in Adelaide from 28 September to 6 October 2013. This course is designed for geotechnical engineers involved in civil and mining projects who have a limited geological background. The course was presented by Fred Baynes, Phil Flentje and MARK Eggers.
- A new course has been designed by the AGS entitled Field Techniques for Landslide Assessment which will be run for the first time from 14 to 16 November 2014 to be based out of Melbourne. The principal objective of this course is to teach students how to collect information and make observations in the field to support effective landslide risk assessments. The teaching method is based on guided field exercises, in which the students learn by carrying out realistic project related work in the field whilst being supervised by very experienced practitioners. The course will be delivered by Fred Baynes, Phil Flentje, Tony Miner and Darren Paul.
- Due to the introduction of the new landslides course the next version of the field based course on Engineering Geology has been postponed from 2014 to September 2015. This course, normally held every two years, is based out of Wollongong and is presented by Fred Baynes, Phil Flentje and Mark Eggers.
- A series of Soil and Rock Logging courses continue to be held in a number of locations throughout Australia by Fred Baynes. These courses are organized by local chapters of AGS with the aim to educate geotechnical engineers, geologists, geo-technicians and other relevant professionals in logging and/or interpreting soil and rock logs in accordance with AS1726-Geotechnical Site Investigations. The latest course was held in Sydney during August 2014.

The AGS has organized for Prof Jim Griffiths from University of Plymouth to visit Australia and New Zealand in February 2015. Jim will present his 14<sup>th</sup> Glossop Medal lecture entitled ‘Feet in the

Ground Engineering Geology, Past, Present and Future' in the main centers of both countries during a tour lasting about two weeks.

### **Upcoming Regional Conferences**

The 6<sup>th</sup> International Conference on Earthquake Geotechnical Engineering will be held in Christchurch over the period 2-4 November 2015. Expressions of interest are requested for the organization of mini-symposia for 6ICEG. Join the mailing list on [www.6ICEGE.com](http://www.6ICEGE.com).

The 12<sup>th</sup> Australia New Zealand Conference on Geomechanics, Changing the Face of the Earth, will be held in Wellington, NZ in February 2015. [www.anz2015.com](http://www.anz2015.com). IAEG has agreed to co-sponsor of the conference with ISSMGE. Keynote speakers are Fred Baynes, Jonathan Bray and George Gazetas.

## **● SOUTHERN EUROPE**

By Atiye Tugrul

Annual activity reports have been received from the following fifteen IAEG National Groups in Southern Europe Region till August 22, 2014: Albania, Austria, Bulgaria, Cyprus, France, Georgia, Greece, Hungary, Italy, Romania, Serbia (Yugoslavia), Slovenia, Spain, Switzerland and Turkey. Some general remarks could be made for the last period 2013 June -2014 September.

The Vice-President for Southern Europe, Prof. Dr. Atiye TUGRUL has been involved as a member of Steering Committee, for an IAEG sponsored "IAEG XII CONGRESS, Engineering Geology for Society and Territory" Torino, Italy (September 15-19, 2014). She attended to IAEG International Symposium & 9th Asian Regional Conference, in Beijing, China, 24th - 25th September 2013.

Membership level has been accordingly on the same level as the year before. We are hopeful that the active web page will improve both the number of members and the activities of the Association. The proposal to join several national groups in a conference arrangement with our help from executive committee is a way to increase the member activity. We all helped the web master and editor of bulletin as needed in the expansion of IAEG.

Considering the annual reports received from National Groups of the geographic area of competence activities of the National Groups have mainly resulted in:

- Interaction with other National Organizations and Associations acting in the Engineering Geology domain,
- Participation to Congress and thematic symposiums/conferences/working groups,
- Organization/funding of thematic workshops, seminars, field trips, publications.
- Collaboration in some standards and recommendations
- Publishing informative and technical newsletters and bulletins
- Develop relationships with other scientific or technical groups in the field of geosciences, hydrological sciences, mechanical sciences, materials and minerals.
- Field studies and technical visits

The most covered topics related with:

- Renewable energy sources
- Hydroelectric power plant under constructions
- Environmental effects of mining
- Monitoring of debris flows
- Landslides and other collateral seismic hazards

- Advanced methodologies for land instability hazard mapping and landslide occurrence forecasting models
- Flood hazard assessments
- Tunnels and underground structures: construction and technical assistance,
- Geological materials, building stones and aggregates,
- Mining, quarrying
- Ready mix concrete
- Geology and Geotechnic, Geology and Geophysics,
- Engineering Geology-Rock Mechanics,
- Geological Engineering in Historical sites
- The contribution of Engineering Geology to the infrastructure projects
- Hydrogeology
- Geothermal energy

Together with this letter, follow the attached reports issued by National Groups of: Albania, Austria, Bulgaria, Cyprus, France, Georgia, Greece, Hungary, Italy, Romania, Serbia (Yugoslavia), Slovenia, Spain, Switzerland and Turkey. Unfortunately, we could not receive any reply and information from four NGs, these are as following: Croatia and Portugal.

Istanbul, August 22, 2014

Prof. Dr. Atiye TUGRUL, IAEG Vice-President for Southern Europe

## ● SOUTH AMERICA

By Silvina A. Marfil

### Introduction

The South America region includes Argentina, Brazil, Colombia, Paraguay and Peru National Groups. The Argentina NG is represented by the Asociación Argentina de Geología Aplicada a la Ingeniería – ASAGAI (Argentine Association of Geology Applied to Engineering) with 123 members.

The Brazil NG is represented by the Associação Brasileira de Geologia de Engenharia e Ambiental – ABGE (Brazilian Association for Engineering Geology and the Environment). They has his head office in São Paulo City, with three subgroups (Rio de Janeiro, Belo Horizonte and Porto Alegre cities) and 12 regional representatives in different state capitals of Brazil, with 1199 ABGE members professionals associated and 35 associated companies.

The Colombia NG is represented by the Sociedad Colombiana de Geotécnica (Colombian Geotechnical Society).

The Paraguay NG by the Sociedad Paraguaya de Geotécnica (Paraguayan Society of Geotechnical) and the Peru NG by the Asociación Peruana de Ingeniería Geológica (Peruvian Association of Engineering Geology).

### ARGENTINA ACTIVITIES REPORT 2013 - 2014

**Name of the national group:** Asociación Argentina de Geología Aplicada a la Ingeniería - ASAGAI (IAEG National Group of Argentina).

**Current office holders:**

President:	NORBERTO JORGE BEJERMAN
Vice President:	FABIO SERGIO LUNA
Secretary:	CRISTINA DAPEÑA

**Number of members with Bulletin:** 35

### **Activities 2014**

Organization of the Symposium on Engineering Geology and the Environment. Córdoba. June 2-3.  
Publication of the Journal of Geology Applied to Engineering and the Environment, No 32.  
Creation of the Working Group "The Cities. Development and environmental, geological and geotechnical context". Chairperson: Luis Mario Giaconi. Secretariat: Liliana Abascal, Norberto Jorge Bejerman and Mirian G. Viqueira Palazzo. Assessor: Sergio Mora Castro. email address: ciudades@asagai.org.ar

### **BRAZIL**

**Name of the national group:** Associação Brasileira de Geologia de Engenharia e Ambiental – ABGE. BRAZILIAN ASSOCIATION FOR ENGINEERING GEOLOGY AND THE ENVIRONMENT – ABGE.

**Number of members:** 47: 32 with bulletin and 15 without bulletin.

#### **Current office holders:**

President: Adalberto Aurélio Azevedo  
Vice-President: Delfino Luiz Gouveia Gambetti  
Secretary: Alessandra Cristina Corsi  
Secretary Adjunct: Fabricio Araujo Mirandola

ABGE keeps its members updated on general issues related to Engineering Geology by an e-mail informative, called INFOMAIL. ABGE also keeps a homepage [www.abge.org.br](http://www.abge.org.br) and a Fanpage on Facebook; that is updated daily. This year ABGE will start deploying live broadcast of its major events.

There is permanent exchange of publications with U.S. Geological Survey and National Library (Brazil) and sponsorship of several meetings, lectures and events.

### **Activities 2014**

**EVENT:** Induction Ceremony of New Board and Release of the book: Guidelines of Drilling Description, in São Paulo, February, 2014

**COURSES:** Tunnelling - Geology and Construction Processes, in São Paulo in April, 2014. Applied Geophysics to Engineering Geology, Geotechnical and Environment, in São Paulo, April, 2014. Erosion and Sediment Control, in São Paulo in May, 2014

**WORKSHOP:** Disasters in 2014 in Southeastern Region, in São Paulo, May, 2014

#### ***Supporting Events (in Portuguese)***

Release of book: Geology and cases, in São Paulo in February, 2013

New Technologies and Practices for efficient Minerals Extraction, in Belo Horizonte in February, 2013

**SEMINAR:** Nitrate in Groundwater in the State of SP, in São Paulo in April, 2013

Seminar on Mechanized Tunneling, in São Paulo in April, 2013

**COURSES:** SIG Fundamentals Applied to Geology, in São Paulo, August, 2013. Environmental Expertise, in São Paulo, October, 2013. Applied Hydrogeology, in Ceará, October, 2013. Seminar on Immersed Tunnels, in São Paulo, November, 2013.

**FAIR:** VI FENAFEG – National Fair of Suppliers and Companies of Geology, in São Paulo, August, 2013

Geocenter 2013, in Cuiabá, May, 2013

VI Brazilian Conference on Slopes, in Rio de Janeiro, October, 2013

**CONGRESS:** National Congress of Geotechnical, in Portugal, April, 2014. World Tunnel Congress 2014, in Foz do Iguaçu, May, 2014

#### ***Publications (in Portuguese)***

Guidelines for Drilling Description. Coordinators: João Jeronimo Monticelli and Marilda Tressoldi. Soils Permeability Test. Coordinator: Adalberto Aurélio Azevedo and José Luiz Albuquerque Filho.

Translation of the Hans Cloos Lecture: The contribution of urban geology to development and conservation of cities, by Martin Culshaw and Simon Price. Coordinator: Francisco N. de Jorge and Katia Canil. Translation of “Guidelines for Landslide Susceptibility, Hazard and Risk Zoning for land use planning”. Coordinators: Eduardo Soares de Macedo and Luiz Antônio Bressani. ABGE 45 Years: Geology and Environmental Engineering (GEA) Prospects and the ABGE Role. Coordinators: João Jeronimo Monticelli and Fernando Kertzman. Geotechnics of underground and earth-rocky materials built: beginnings, questions, updates, by Victor de Mello. in partnership to ABMS.

### ***Forthcoming Publications***

The History of the Mathematization of Nature, by Milton Vargas. Coordinator: Adalberto Azevedo and Eduardo Soares de Macedo. Applied Geophysics. Coordinator: Luiz Antonio Pereira de Souza

### ***Technical Journals***

Journal of Engineering Geology and Environmental – Volume 3 – Number 1

### ***Forthcoming ABGE Events***

COURSES: Natural Geological Risks, in September, São Paulo, 2014. Drilling Classification, in October, São Paulo, 2014. Applied Geophysics to Engineering Geology, Geotechnical and Environment, in São Paulo, October, 2014. Geotechnical Mapping, in São Paulo, October, 2014. Risks in Engineering Constructions, in São Paulo, November, 2014. Land Contamination – Site Investigation and Management, in São Paulo, November, 2014.

SYMPOSIUM: 9th Brazilian Symposium of Geotechnical and Geological Mapping, in April 2015, Cuiabá (MT)

CONGRESS: 15th Brazilian Congress on Engineering Geology and the Environment, from 18<sup>th</sup> to 22<sup>nd</sup> October 2015, in Bento Gonçalves (RS).

## **COLOMBIA**

**Name of the national group:** Sociedad Colombiana de Geotecnia

**President:** Mario Camilo Torres Suarez

**Number of members:** 20: 16 with bulletin and 4 without bulletin.

### **Activities 2013**

The main activities are related with several technical aspects relevant for the Country such as Relocation of Gramalote village in the north of Santander. This village was destroyed by an event of mass wasting, associated with rainfall in 2010. Ecopetrol: Geotechnical concepts on landslides that affected the failure of pipelines carrying crude oil, in two different places in the country (Dosquebradas in the Department of Risaralda and Chinácota in the North of Santander), associated with rainfall events in late 2010 and early 2011.

FOPAE: Geotechnical concepts on slope instability problems and bioengineering workshop for the promotion of such practices in the Capital of the country.

ETSA-CONCOL: Geotechnical concept on the failure of an oil exploration plant.

These and other activities are developed by SCG members belonging to different technical committees, which also promote other meetings and the publication of the Colombian Bulletin of Geotechnical (Issues No. 15 and 16) and other relevant documents to implement the organization purposes.

**PARAGUAY** and **PERU** No information has been submitted.

## 7. NEWS OF TOC AND COMMISSIONS

### ● Commission 36

#### - Engineering Geology for Waste Disposal



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

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

#### **China National Group of IAEG and Tongji University,**

In order to improve international communication in the field of waste disposal, the China National Group has proposed in 2014 to the Executive Committee of IAEG to establish a special commission under IAEG. The Executive Committee of IAEG has formally approved the application for setting-up a new commission named as Commission on Waste Disposal (C36) in Sep.13, 2014 during the 12th IAEG Congress at Torino. We are pleased to appoint Prof. Ye Weimin as the chairperson of C36, and Dr. Chen Yonggui as the secretary, and the commission relies on Tongji University, China.

Hereby letter

Yours sincerely,

**Carlos Delgado**

President,

The International Association of Engineering Geology and the Environment

September 20, 2014



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

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IAEG Secretariat:  
Institute of Geology and Geophysics, Chinese Academy of Sciences  
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Tel./Fax: +86 10 8299 8284, Mobile: +86 13910509506  
Email: [iaegsq@163.com](mailto:iaegsq@163.com)

## Call for Core Members of C36 on Waste Disposal

National Groups and members of the Council of IAEG,

Problems related to hazardous and non-hazardous waste management (nuclear waste disposal, landfill of municipal solid waste (MSW) and CO<sub>2</sub> sequestration) are widely concerned issues and therefore have attracted particular attentions of many countries, including lots of deeply involved engineering geological challenges.

In order to promote the development and foster international cooperation and intercourse on the domain, the council has approved Torino to set-up the Commission 36 - Engineering Geology for Waste Disposal under IAEG.

This letter is a call for the core members of C36, IAEG. The candidates must be members of IAEG and nominated by National Group. Each national group recommends not more than 1 candidate. Please send the nomination with CV of candidate to the Secretary of C36 before 31 Dec, 2014:

Yonggui CHEN Professor, Ph.D  
Secretary of C36, IAEG  
Tongji University  
Add: 1239 Siping Rd., Shanghai 200092, P.R. China  
Tel: +86 21 6598 1286; Fax: +86 21 6598 5210  
E-mail: [cyg@tongji.edu.cn](mailto:cyg@tongji.edu.cn)

Yours Sincerely,

Professor Weimin Ye  
Chair of IAEG C36 - Engineering Geology for Waste Disposal  
Tongji University  
Shanghai, China



## ● **Commission 17 and Commission 27** **- Aggregates and Environmental Aspects of Construction Materials**

### **Proposal for Merging two Commissions C17 and C27**

Aggregates are most widely used construction materials in the World. One of the important subject is environmental effects of aggregate quarries.

Terms of reference of Commission C17 is to consider the bedrock investigation, categorization, sample acquisition, preparation and testing of natural rock aggregates and to provide examples of the best ways of presenting this information to authorities, the lay public and the construction industry. The Commission was established in 1998. This organization encompasses members in over 35 countries. All members are encouraged to share their knowledge and contribute to the aggregate industry. Most of the member of this Commission are also working on environmental aspects of the quarries.

The aim of Commission C27 is to exchange experience and research between engineering geologists from different parts of world, whose work touches on environmental aspects of construction materials. This Commission was established in 2011 and have 10 members from Sweden, Turkey, Australia, Greece, Spain, Portugal, Italy and Germany. Most of the members are also president/member of C17 and C10.

Environmental aspects of construction materials cannot be addressed without combining the approaches of different disciplines (geology, hydrogeology, geography, chemistry, meteorology, ecology, engineering (mining, civil, environmental, agriculture and forest), biology, zoology, architecture, (landscape, urban and regional planning). Therefore there a few number of Engineering Geologist related with this area. Most of the Engineering Geologist working on aggregates, building stones and other construction materials are also related with environmental effects of quarries.

Purposes of two Commissions are:

- To increase the relation of the commission to other scientific fields, and of its role in the Association.
- To enhance the role of Engineering Geology and its application in the aggregate and construction industries
- To provide continuous and uniform information source about aggregates.
- Foster the sharing of knowledge on research results and methodologies.
- Facilitate cross-institutional and cross-disciplinary networks among researchers and practitioners in the world.
- Increase opportunities for collaborative research

Unfortunately meeting only once a year and because of members are generally occupied with their ordinary positions, and lack of time for other activities and financial support for attending the meetings, it is very difficult to activate the members.

We believed that if we merge two Commission under the name of Aggregate Commission the activities will be stronger.

Prof. Dr. Atiye TUGRUL  
Chairperson, Commission C17 on Aggregates)

Dr. Silvina A. Marfil  
Chairperson, Commission C27 on Environmental Aspects of Construction Materials)



## ● Commission 17

### - Aggregates

#### Commission Board

##### Chairperson

Prof. Dr. Atiye Tuğrul  
Istanbul University, Engineering Faculty  
Department of Geological Engineering  
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##### Secretary

Akseli Torppa  
Geologian tutkimuskeskus The Geological Survey of Finland  
Itä-Suomen yksikkö Neulaniementie 5 PL 1237 70211  
Kuopio - FINLAND  
Tel: +358 50 348 6311  
Email: [akseli.torppa@gtk.fi](mailto:akseli.torppa@gtk.fi)

#### General Information:

The Commission was established in Vancouver, September 20, 1998. This organisation encompasses members in over 35 countries. All members are encouraged to share their knowledge and contribute to the aggregate industry.

Objectives of the Commission are:

- To increase the co-operation with other scientific fields, and of its role within the Association.
- To enhance the role of Engineering Geology and its applications within the aggregate and construction industries.
- To provide a source of continuous and uniform information of aggregates and environmental issues.
- To foster the sharing of knowledge on research results and methodologies.
- To facilitate cross-institutional and cross-disciplinary networks among researchers and practitioners around the world.
- To increase opportunities for collaborative research

In order to fulfill these objectives we plan to undertake the following activities:

- To publish the technical report titled “ Geological Material Aspects for Construction Industry”
- To increase the use of the commission’s homepage that is readily available for up-to-date information.
- To provide information of aggregates in the IAEG Bulletin.
- To collect, correlate and publish data on the performance of various rocks with respect to their properties and end-use applications.
- To produce harmonised international guidelines for investigation of potential deposits.
- To assist the European standardisation body (CEN) with supporting activities and information for further development and improvement of standards.
- To create international co-operation and new international projects.

#### Earlier meetings and workshops:

The Commission has had information meetings at all official IAEG meetings, i.e. in Kathmandu, Nepal, September 1999, at the 31<sup>st</sup> IGC meeting in Rio de Janeiro, Brazil, August 2000, at GeoEng2000 in Melbourne, Australia, November 2000, at Aggregate 2001 in Helsinki, Finland, August 2001, in Durban, South Africa, September 2002, in Istanbul, Turkey, September 2003, in Florence, Italy, August 2004, in Lyon, France, May 2005, in Nottingham, UK, September 2006,

in Oslo, Norway, August 2008, in Auckland, New Zealand, September 2010, Brisbane, Australia, September 2012 and in Beijing, China, September 2013.

**Date and venue of last meeting:**

Last meeting was held during The International Symposium & 9th Asian Regional Conference of IAEG in Beijing, China, six members attended to the meeting.

**Next meeting:**

The next meeting will take place in Torino, Italy, during “IAEG XII CONGRESS, Engineering Geology for Society and Territory” (15-19 September 2014).

**Activities:**

- An essential task of the commission is to continuously establish new contacts in various countries, for example by sending information about aggregate occasions to potentially interested persons. Currently, the Commission has contact persons from 21 countries.
- There is a good scientific relationships between UEPG (European Aggregates Association)
- The chairperson and a group of geologist visited some quarries in Beijing, China. She gave information about commission’s activities.
- A project will be completed at the end of October. This project was submitted by South European Countries to European Community 7th framework program. The title of the Project is “*SNAP-SEE – Sustainable Aggregates Planning in South East Europe*”.

**Web site:**

The Commission has a web site: [www.iaeg.info](http://www.iaeg.info)

The website of the commission is open to service and is being updated regularly. The web site has following contents:

- Updated list of members of the Commission
- All reports to the IAEG from information meetings
- Latest news
- Information of international aggregate standards
- Aggregate glossary
- References related to aggregates
- Related aggregate links

**Coming Events:**

- There is a special session on aggregates during IAEG 2014 Congress, 15-19 September 2014. During session on “Construction Materials” aggregates will also be discussed.
- Global Stone Congress will be organized between 22-25 October in Antalya, Turkey. Special Aggregate Session will also be held in this congress.  
Website: [www.globalstone2014.org](http://www.globalstone2014.org)
- A Special National Symposium on Aggregates will be organized by Chamber of Mining Engineers in Turkey on March 2015, in İstanbul, Turkey.

## ● Commission 27

### - Environmental Aspects of Construction Materials

The aim of the commission is to exchange experience and research between engineering geologists from different parts of world, whose work touches on environmental aspects of construction materials.

In 2014, The Portuguese Environmental Geotechnics Commission (CPGA) accepted to participate in the activities of C27 with the incorporation of António José Roque (President of CPGA) as member of the Commission.

The first meeting will take place in Torino next September in the IAEG Congress.

#### **Chairperson**

*Dr. Silvina A. Marfil*

Dpto. de Geología, Universidad Nacional del Sur. San Juan 670, 8000 Bahía Blanca

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**ARGENTINA**

#### **Secretary**

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**ARGENTINA**

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## GERMANY

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## PORTUGAL

*António José Roque*

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

## ● Commission 1 - Engineering Geological Characterisation and Visualisation

Jeffrey R. Keaton, Chair & Helen J. Reeves, Secretary

IAEG Commission No. 1 has languished since Keaton became the Chair in 2007. Two basic initiatives were undertaken: a) a digital initiative and b) an actuarial initiative. Holger Kessler, then Secretary, was leading the digital initiative, whereas Keaton was leading the actuarial initiative. Opportunities for meeting of the Commission have been limited and efforts to announce meeting times and places at conferences where IAEG Council was meeting have been unsuccessful.

Numerous presentations at IAEG-sponsored conferences and other conferences attended by IAEG members have met the intent of the C1 digital initiative; in nearly all cases, including those in which Kessler participated, the opportunity for IAEG C1 sponsorship was missed.

The actuarial initiative is less popular than the digital initiative; however, potentially for IAEG it is a more important area that deserves focus because it seeks to consider and communicate engineering geological information for non-geologists to use in making important decisions. Keaton has been successful in getting IAEG C1 listed as a co-sponsor for technical sessions at Geological Society of America (GSA) and Association of Environmental & Engineering Geologists (AEG) conferences. A number of abstracts by Keaton and co-author Richard Roth, Jr., have pushed the actuarial initiative in terms of landslides and insurance (Roth is an insurance actuary).

In 2013, Helen Reeves agreed to take over the Secretary duties as a stop-gap measure. However, both the Chair and Secretary have been preoccupied with job-related tasks and other activities competing with IAEG C1. Consequently, the only genuine C1 activity for the IAEG Congress in Torino is Session 6.4 which received too few abstracts to constitute a full oral session.

Keaton is completing his second term as Chair of C1. Secretary Reeves is not in a position to succeed Keaton as Chair. Sadly, the reality is that C1, and possibly other IAEG Commissions, is suffering from a lack of priority at conferences where IAEG Council meets, particularly the IAEG Congress. The leadership of IAEG is encouraged to promote Commission meetings and activities in planning and advertising IAEG-sponsored conferences. IAEG C1 Chair Keaton believes that the

work of C1, with its title approved by IAEG Council in 2007, is or should be a vital part of IAEG operations in the modern global affairs.

Therefore, the recommendation is that IAEG Council suspend operation of Commission C1 until a suitable Chair is identified who can be effective in rebuilding its role in IAEG activities. Keaton and co-author Roth are preparing a paper for publication in IAEG's *Bulletin of Engineering Geology and the Environment* addressing the issues of landslides and insurance which will be the final formal activity for the C1 actuarial initiative under Keaton's ineffective leadership.

## ● **Commision 10** **-Building Stones and Ornamental Rocks**

Combined Workshop with IUGS/HSTG  
Wednesday 17 September 2014, IAEG Congress, Turin, Italy

The meeting was opened by the IAEG C10 "Building stones and ornamental rocks" chairman Björn Schouenborg, who also gave a short introduction of the commission C10, its organization and the board.

**Accessibility of Turin presentations.** The authors of the IAEG meeting in Turin were kindly asked to provide the presentations and posters for the use of the commission. It was agreed by the presenters to carry on with this initiative and Björn will ask IAEG for permission to upload pdf-versions of the presentations.

**Activation of members.** A concern was expressed about the activation of the C10 work and getting more people involved in the organization work of conferences, meetings etc. More volunteers are needed and reviewers as well as writers should be activated. Some ideas of the possible actions were given:

- Mailing list update (active / non-active), correct addresses
- Possible membership fee? This concerns the IUGS/HSTG members/correspondents (se below)
- Template for publications might be provided
- Should be arranged own, smaller conferences that might be easier and cheaper to attend
- Local activities and meetings in countries to support the main initiatives

### **A summary of project development since IAEG C-10 meeting in Auckland, NZ in 2010 was presented by the Chairman**

- Additional link with IUGS with formal establishment of the Heritage Stone Task Group (HSTG) in 2012. IAEG C-10 Chair is also HSTG President. Associated international board of management and IUGS approved "Terms of Reference".
- The establishment of Interim List of potential nominations for the proposed Global Heritage Stone Resource (GHSR) has been done.
- Approved Check Lists for Global Heritage Stone Resource and Global Heritage Stone Province. Requirements are under discussion and a revised version will be issue later this year

- Publication of model paper in “Episodes” nominating Portland Stone from the United Kingdom as a potential GHSR. (<http://www.episodes.co.in/contents/2013/september/pp221-226.pdf>)
- Organisation of dedicated heritage stone meetings in association with the following conferences
  - EGU Vienna, Austria April 2013
  - GSA (North Central section), Kalamazoo, Michigan, May 2013
  - EGU Vienna, Austria April 2014
  - GSA (North Central Section), Lincoln, Nebraska, May 2013
- Emanating from EGU 2013 conference papers, a group of Board members have edited and compiled a Special Publication of the Geological Society of London entitled “Global Heritage Stone: Towards International Recognition of Building and Ornamental Stones”. Final publication expected in end 2014/early 2015. The articles available so far can be seen in the address: <http://sp.lyellcollection.org/online-first/407>
- Ongoing issue of “Global Heritage Stone Circular” at least once annually. Maintenance of website [www.globalheritagestone.org](http://www.globalheritagestone.org).
- Project correspondents number 212 from 50 countries (28 July 2014).

### **Current and future heritage stone project work**

- Development of formal procedure to approve nomination for a Global Heritage Stone Resource. Review Form already approved. Approval of first nominations planned by end 2014.
- Compilation of a special heritage stone issue of the IUGS Journal “Episodes” with publication planned by mid-2015.
- Publication of Asian volume entitled “Stone heritage in East and Southeast Asia” in 2015.
- Preparation of a submission for international UNESCO funding via the International Geoscience Programme (IGCP), drafts of which have already been prepared. The deadline for submission is 15 October 2014.
- Future meetings have been planned as follows:
  - EGU Vienna, Austria, April 2015
  - GSA Baltimore, Maryland, USA, November 2015
  - International Geological Congress, Cape Town, South Africa, August/September 2016

Some points of view were presented about the heritage stone concept:

- Should the “heritage names” (local names) be used with the nomination?
- Part of the requested data for historical nomination may be confidential as it comes from the companies
- The acceptance of the industry for the nominations
- Difference of the historical denomination and CE marking has to be clear for the producer

- The possibility to use the historical stones in the future is an important aspect
- Adoption of evaluation system like LEED (<http://www.usgbc.org/leed>) that would use the criteria of the heritage stone concept
- What is the actual “Global heritage” of different stones”?
- There will be a European “Public consultation on a possible extension of geographical indication (GI) protection of the European Union to non-agricultural products – Making the most out of Europe’s traditional know-how” by the European Commission. The aim is to enlarge the geographical indications to certain product categories, such as the heritage stones. The consultation can be seen on the pages:  
[http://ec.europa.eu/internal\\_market/consultations/2014/geo-indications-non-agri/index\\_en.htm](http://ec.europa.eu/internal_market/consultations/2014/geo-indications-non-agri/index_en.htm)
- It was also presented an idea to publish the heritage articles of the Turin congress as larger articles in a special volume
- Also an idea of establishing a discussion forum about the heritage matters was presented
- UNESCO publications from other parts of the world (Argentina, Brazil, East Central Europe, Korea) are in planning in the future
- The possibility for an IGCP project to get UNESCO funding for heritage matters.
- Deadline for submission October 15 2014
- Volunteers are needed also for arranging and also representing the heritage work in different seminars
- Free form workshops could be considered, probably 2 days (presentations + field trip)
- Connections with American colleagues should be strengthened
- Choosing of the main annual meeting venue (EGU Vienna?) is an alternative but most likely to often
- Check list: Lecce stone (example of the characteristics)
- Dissemination and publicity of the heritage matters in the future

#### **Additional Agenda item affecting all facets of IAEG C-10 (including heritage stone project)**

- A potential IAEG C-10 & IUGS/HSTG Newsletter
- It has been considered that an annual newsletter dedicated to all matters of stone geology would be of value in enhancing communications among stone researchers.
- Lola Pereira has offered to edit this and welcomes assistance
- It is suggested that such an annual stone geology newsletter could include:
  - country reports on stone geology
  - personal reports on stone research
  - issues about stone from around the world
  - information on stone conferences,
  - short informal articles on stone
  - book announcements/reviews etc.
- Reports of stone R&D projects, publications and present industrial challenges - Contributions from various countries





Participants at the IAEG C-10/HSTG workshop in Turin

### Activities in the near future

**EGU 2015:** We are organizing a third edition of Natural Stone Heritage. Abstract submission deadline is 7<sup>th</sup> of January. [EGU 2015](#)

A regional heritage stone conference as part of the **North Central Section** conference of the **Geological Society of America** in Madison, Wisconsin 19-20 May 2015. The theme will be “Cultural Geology and Geoarchaeology: Millstones, Dimension Stones, Capitol Buildings, Heritage Stone, and More” [GSA 2015 Madison](#)

**Geological Society of America, Baltimore 2015.** A heritage stone conference is being planned as a session at the Annual Meeting of Geological Society of America in Baltimore, Maryland, 1-4 November 2015. Field trips examining the stone heritage of Baltimore and local stone quarries are being planned. More details will be announced at the GSA web page. [GSA 2015](#)

### The first annual Newsletter of C10

With Lola Pereira and Björn Schouenborg 's effort, now you can download an Annual Newsletter via <https://www.dropbox.com/s/cvpltpozh30jt1t/HSTG%20Newsletter%201-%20Dec%202014.pdf?dl=0> .

## ● Commission 19 - 3D Terrestrial Laser Scanning Technology in the Geosciences

The main objective of C 19 Commission is to provide a framework where codes of practice and working methods of this technology can be worked out. The target group are professionals working within various areas on geosciences-related projects where precise documentation and measurements are needed from the site investigations to the construction stage. The terrestrial laser scanning technique can provide accurate and precise geometry as an input for 3D numerical models and CAD drawings. 3D laser scanning also allows creating very realistic 3D visualization and animation of objects and scenes, which improves the communication within a project and to the outside world.



The first C19 Commission meeting was held in May 2005 in Lyon, France, the second in September 2006 in Nottingham, UK and the third one in September 2008 in Madrid, Spain. The minutes of those C19 Commission meetings can be found on the IAEG website under C19 mark.

During the first Commission meeting, Kennert Röshoff(The Chairman) proposed the main objectives of IAEG Commission 19, which are the following:

- Investigate the various areas for 3D scanning technology to be used within geosciences
- Be a guide for the development of the technology
- A forum for discussion of ideas and practical use
- Establish quality standards of the method
- Establish methods and standards for calibration, accuracy etc. of measurements
- Requirements for Hardware and Software tools for measurements, processing, analysis and visualization

From the very beginning up to the last meeting in 2008, Madrid C19 Commission has 19 members. During almost seven years Chairman, Secretary and members have tried to promote application of 3D terrestrial laser scanner technology in many fields of applied geological sciences, especially on rock mass stability and discontinuity characterization. They did all the best from themselves to realize proposed objectives from the first Commission meeting. On the IAEG website one could find very useful information of 3D LIDAR technology, application in geological sciences and relevant scientific references, manuals and books. Some of those information are prepared by students and Prof. Scot Burnes from Portland University, USA. Unfortunately, Chairman asked IAEG Executive Committee for his replacement during Moscow Council Meeting in September 2011.

IAEG Executive Committee and TOC agreed during 2011 Moscow Council Meeting for replacement Chairman of C19 Commission Dr Kennert Röshoff with Ass. Prof. Dr. Biljana Abolmasov on which they both agreed.

The main idea of establishing C19 IAEG Commission is to encourage international collaboration and exchange of ideas and information amongst engineering geologists and other experts involved in the field of application 3D terrestrial LIDAR technology.

The objectives established on the first IAEG C19 meeting are still ongoing, but we could be upgraded by the following:

- To organize occasional articles and papers on application of 3D terrestrial laser scanner technology in engineering geology and other field of applied geosciences, based on findings of the Commission primarily for publication in the Bulletin of the International Association of Engineering Geology and the Environment(IAEG)
- To prepare and to regularly update a list of articles, manuals and text books that can be used by IAEG members who need to inform themselves on the topic of study of the C19 Commission.
- To prepare an informative glossary explaining the terminology used in the field of application on 3D terrestrial laser scanner technology
- To prepare lists of technical norms and guidelines for application of 3D terrestrial laser scanner technology that are recommended by the Commission for use by IAEG members and give the sources where they can be accessed
- To communicate progress via IAEG web site and meetings

The proposed action plan for 2012-2013 was:

- Update the C19 email mailing list of members(partially done)
- Update Commission documents on the IAEG web site(partially done)
- Search for papers and extend the network of resource persons to the C19(partially done)
- Update and add relevant papers to the IAEG web site(done)
- Organize Commission meeting during ISL2012 in Banff(not done)

- Prepare state of the art report or review paper for the Bulletin of IAEG(in preparation)
- The proposed action plan for 2014-2015 is:
- Update the C19 email mailing list of members
  - Update Commission documents on the IAEG web site(with missing documents)
  - Update and add relevant papers to the IAEG web site
  - Organize Commission meeting during IAEG 2014 Torino
  - Prepare state of the art report or review paper for the Bulletin of IAEG

Prof. Dr Biljana Abolmasov  
Chair of IAEG Commission C19  
University of Belgrade  
Faculty of Mining nad Geology  
[Biljana.abolmasov@rgf.bg.ac.rs](mailto:Biljana.abolmasov@rgf.bg.ac.rs)

## ● **Commission 24**

### **- Active Tectonics and Environmental Hazards**

Due to the coming Congress of IAEG2014, I would like to give an introduction of the activities of C24 during the past year. C24 has made following progress:

(1) The commission chairman, Prof. Yin Yueping was voted as the chairman of the International Committee of Landslide (ICL) in the third World Forum of Landslide (WFL3) in June, 2014. The WFL3 was sponsored by China Geology Survey. The core members have participated the Forum and convened a session on Neotectonics and Geohazards.

(2) An international cooperation sponsored by C24 has been underway. The cooperation was carried out by Institute of Geomechanics of Chinese Academy of Geological Sciences and The Austrian Institute of Technology. Now, the Scientists from the two institutes are doing field investigation in Tianshui of Gansu Province, China.

(3) Just after the Ms6.0 Ludian Earthquake on 2 August in Yunnan Province, the core members participates the emergency geohazard investigation and control under the arrangement by the Ministry of Land and Resources of China.

(4) On commemoration of the Wenchuan earthquake, a new monograph entitled "Formation background of the earthquake induced geohazards in the eastern marginal of the Tibetan Plateau, China", by Yongshuang Zhang, Jusong Shi et al, Secretiates of C24, has been published by Science Press of China.

(5) The commission 24 will give assistance to China National Congress of Engineering Geology, which is sponsored by China National group of IAEG and will be held in Taiyuan, China.

Yongshuang Zhang  
SG of C24

## ● **Commission 25**

### **- Use of Engineering Geological Models**

**Objective:** To develop guidelines for the preparation and use of engineering geological models. C25 is one of a number of IAEG commission established as a result of wide-ranging discussions following the First Hans Cloos Lecture (Knill, 2001) at the 9th IAEG Congress in Durban, South

Africa. Baynes & Rosenbaum (2004) noted that the primary focus of these discussion was the use of models within engineering geology, in particular do we need guidelines for the preparation of models and how should uncertainty be addressed?

**Background:** C25 was established in March 2009 and commission members are located around the world and so discussions are primarily by e-mail. However, meetings of the Commission were held during the 7th Asian Regional Conference of IAEG in Chengdu, China Chengdu in September 2009, during the 11th IAEG Congress in Auckland New Zealand in September 2010 and during the 11th International Symposium on Landslides and Engineered Slopes in Banff, Canada in June 2012.

**Reports:** C25 has recently issued a report in the Bulletin of Engineering Geology and the Environment

<http://link.springer.com/article/10.1007/s10064-014-0576-x>

A report will also be made at the 12th IAEG Congress in Turin in September 2014.

Steve Parry  
Chair C25

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

## ● Commission 29

### - Structure and Behavior of Soil and Rock Mass

Dear Secretariat of IAEG,

Thank you for your email. Corresponding to your email, C29 has made following progress in the past year 2013-2014:

(1)workshop of C29

On sept.24-25, 2013, a workshop and working meeting of Commission 29 were held during the international symposium & 9<sup>th</sup> Asia regional conference of IAEG. Prof.Hu Ruilin and Prof.Anguelov are the chairs of the workshop. There are three invited speeches presented by Prof. Hu Ruilin, Prof. Anguelov and Prof.Harry Saroglou. The details can be seen in the table.

Wednesday, September 25, 2013: IAEG2013 Symposium Workshop C29: Structure-behavior of Soil & Rock Mass Room 305DE, Chair: Ruilin Hu (China), Kiril Anguelov (Bulgaria)	
10:20-10:50	Ruilin Hu (China): Structural effects on mechanical properties of soil-rock mixtures
10:50-11:20	Kiril Anguelov (Bulgaria): Structural bonds in the Clays from Landslides
11:20-11:50	Harry Saroglou (Greece): Engineering geological behaviour of anisotropic and heterogeneous layered rocks
11:50-12:10	Chengzhi Qi (China): Reology property at different structural levels of rock mass
12:10-12:30	Chaosheng Tang (China):Microstructural analysis on the hydro-mechanical behaviour of compacted soil
12:30-12:50	Wenjie Xu (China): Biaxial compression numerical test of soil-rock mixture
12:50-13:10	Pavel A. Tsoy (Russia): Experimental study of the surface crack propagation for rock-disk specimens
13:10-13:30	Zhiqing Li (China):FEM application to loess slope excavation and support: Case study of Dong Loutian coal bunker, Shouzhou, China



The chair of the workshop



Prof. Hu Ruilin gave a keynote speech

## (2) Working meeting of C29

The working meeting of C29 was held at 20:30-23:00, Sept.24 2013 in Beijing, China. The core members (Prof. Shi Bin, Osipov, Chen Jianpin and Zhang Wei) and other about 30 researchers took part in the meeting and hot discussion.

The topic of the working meeting is the Future of C29. The chairperson Prof. Hu Ruilin gave a brief introduction of the commission 29 firstly. And then, the two sessions. The 1<sup>st</sup> one is what is the tendency of research on structure and behavior of soil and rock mass, the second one is How to guide the international research activities by C29.



In the first session, there are 4 keynote speeches given by Prof. Osipov (Russia, core member of C29), Prof. Chen Jianping (China, core member of C29), Prof. Harry Saroglou (Greece, member of C29) and Prof. Tang Chaosheng (China, member of C29).

Prof. Osipov pointed out if we want to do better work of C29, we should input investigations on contacts interactions. The physical chemical mechanics of soil should be studied.

Prof. Wu Faquan, the general secretary of the IAEG, give some suggestions about how to operate the commission, and how to promote the productivity of the commission.

Finally, Prof. Hu Ruilin gave a closing address. He hoped that this meeting will be considered as a beginning and arouse more consideration after meeting so as to gradually form universal standpoints about structural research orientation in the future. He thanked for everyone's participating in this meeting and hoped everyone to keep paying attention on structural research and the activities of C29. Through the joint efforts of all, Prof. Hu believed the globe structural research will be accelerated and go up to new level. After the working meeting of C29, more than 30 scholars joined the commission.

## ● Commission 34 - Marine Engineering Geology

Marine engineering environment is distinct from the terrestrial environment. It is constantly changing under the marine dynamic conditions of waves, currents, tides etc, and it is the typical area where geologic hazards occur frequently, such as coastal erosion, submarine landslide, which can threaten the safety and construction of marine engineering facilities. Furthermore, the difference on sediment source, sedimentary environment and the suffered environmental load to land engineering geological environment determines the research on marine engineering geology can not simply follow the way of land engineering geology study. The commission is initially established in Banff, Canada in June 2012 to promote the development and foster international cooperation and

intercourse on the marine engineering geology.

## ACTIVITIES

- (1) During the International Symposium & 9th Asian Regional Conference of IAEG held in Beijing, the IAEG C34 Workshop on the theme “How to Promote the Development of Marine Engineering Geology Using the IAEG Platform” was held during 20:30-22:30 on September 24, 2013, attracting more than ten scholars and unit representatives interested in Marine Engineering Geology to participate. Professor Yonggang Jia, the Chairman of C34, chaired the workshop and gave a keynote lecture titled “Opportunities and Challenges in the Marine Engineering Geology”. Professor Faquan Wu, the Secretary General of IAEG spoke briefly according to current development of marine engineering geology and proposed new expectations for the future work of C34. The attendees from China, Russia and Vietnam gave valuable advice on “how to promote the development of the marine engineering geology using the IAEG platform”, that initially laid the foundation to the international cooperation and exchange of talents.



C34 Workshop on “Promote the Development of Marine Engineering Geology Using the IAEG Platform”

- (2) An International Cooperation Session was held during the International Symposium & 9th Asian Regional Conference of IAEG on September 25, 2013. This session was chaired by Professor Yonggang Jia, the Chairman of C34. Representatives from 4 Chinese organizations respectively introduced their international cooperation research projects on marine engineering geology based on their in-research projects. These projects are respectively titled: 1) “In-situ Observation Technology Research on Marine Geological Hazard Processes -- Case study in the subaqueous Yellow River Delta, China” proposed by Ocean University of China, 2) “Engineering Geological Characteristics of Coral Reef in the Southern South China Sea” proposed by Wuhan Institute of Rock and Soil Mechanics, Chinese Academy of Sciences, 3) “Engineering geological stability assessment and geo-hazards mitigation for coastal reclamation” proposed by Qingdao Institute of Marine Geology, and 4) “Assessment of seabed geo-hazards in China EEZ” proposed by the First Institute of Oceanography, SOA. These cooperation concepts have aroused strong interest to international marine engineering geology colleagues and obtained good response.







Representatives from Ocean University of China, Wuhan Institute of Rock and Soil Mechanics, Qingdao Institute of Marine Geology, and First Institute of Oceanography, SOA, respectively

- (3) Under the active operation of the IAEG C34, a Special Commission of Marine Engineering Geology was formally set up by Engineering Geology Commission, China Geology Society and led by Professor Yonggang Jia as the chairman. This special commission has absorbed more than 20 members from different units such as Ocean University of China, Tongji University, Chinese Institute of Oceanology, Wuhan Institute of rock and soil mechanics, the First Institute of Oceanography, SOA, etc.
- (4) A special funding on In-situ Surveying Equipment of Engineering Geology in Complex Deep Sea (SEEGeo) has been founded by National Natural Sciences Foundation of China. The project aims to develop a set of in-situ surveying equipment of engineering geology in complex deep sea, establish automatic long-term continuous field observation technology and data analysis method, achieve quantitative depict of engineering geological conditions of deep seabed, learn the dynamic variation process of engineering geological environment and influencing factors, in order to provide technology support for the research of engineering geology in deep sea.
- (5) C34 has expanded the number of its core members during the past year. The core members are listed below.

Region/ Nationality	Person	Affiliation	Email
America	Ass. Prof. Liu P	North Carolina State University	jpliu@ncsu.edu
Australia	Prof. Jeng D S	University of Dundee	d.jeng@griffith.edu.au
China	Prof. Peng X M	Qingdao Institute of Marine Geology	pxc1993221@sohu.com
China	Prof. Sun Y F	The First Institute of Oceanography, SOA	sunyongfu@fio.org.cn
China	Prof. Wang R	Institute of Rock and Soil Mechanics, CAS	rwang@whrsm.ac.cn
German	Prof. Kopf A J	University of Bremen	akopf@marum.de
Hong Kong	Prof. Yue Z Q	Hong Kong University	yueqzq@hku.hk
Italy	Dr. Silvia Ceramicola	National Institute of Oceanography and Experimental Geophysics (OGS)	sceramicola@inogs.it
Japan	Prof. Yamada Y	Kyoto University	yamada@earth.kumst.kyoto-u.ac.jp
Japan	Prof. Wang F W	Riko University	wangfw@riko.shimane-u.ac.jp
Spain	Ass. Pof. David Romero	Polytechnic University of Madrid	david.romero@upm.es
Turkey	Prof. Atiye Tuğrul	Istanbul University	tugrulatiye@gmail.com
Vietnam	Ass. Pof. Do Minh Duc	Vietnam National University	ducdm@vnu.edu.vn

## PLAN FOR 2014-2015

- (1) To construct the website of IAEG C34;
- (2) To hold the second seminar on Developing Strategy of Marine Engineering Geology;
- (3) To hold the first International Symposium on Marine Engineering Geology;
- (4) To promote the substantive international cooperations based on current specific projects;
- (5) To set international standards on the in-situ surveying for subsea engineering geology.

## CHAIR AND CONTACT DETAILS

**Chairperson:** Dr. Prof. Yonggang Jia

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CHINA

**Secretary:** Dr. Xiaolei Liu

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### ● Commission 35

#### - Monitoring methods and approaches in engineering geology applications

Commission C35, Monitoring methods and approaches in engineering geology applications, will have its first meeting during the IAEG 2014 congress. Moreover, during the IAEG 2014 Congress C35 organizes a Workshop with the title: Unmanned Aerial Vehicles applications in the field of Engineering Geology and the Environment. Please see here below the details.

#### **Workshops of Wednesday 17 September 2014 (16:05 – 18:00)**

IAEG COMMISSION C-35 Unmanned Aerial Vehicles applications in the field of Engineering Geology and the Environment

Chair: Giorgio Lollino    ROOM: 500 Hall

The use of Unmanned Aerial Vehicles (UAV) for civilian purpose is a new important research topic, which is more and more having important and operative effects also in the field of engineering geology. In particular, the wide diffusion of micro- and mini-UAV is now a reality, which has to be carefully considered for its impact on the control and management of the environment. The main goal of these systems are the restitution of aerial images of the study areas, which can be used to derive products as digital surface models and/or perform multi-temporal analysis. The use UAVs is very wide and various, and it ranges from micro-UAVs (small remote controlled systems often lighter than a kilogram) to MALE systems (very complex systems that are characterized by performances very similar to a real aircrafts). Also the possible uses in the field of engineering geology and of the environment are very different considering the diverse performances and potentialities of the different UAV classes. Currently, in Torino several research groups are involved in the development of UAVs, as well as in the definition of possible methodologies for their use in the field of engineering geology. Because of the actual importance of this topic, the Scientific Committee of XII IAEG Congress has decided to promote a Workshop dedicated to the UAVs and to their use in the field of engineering geology.

## 8. REPORT FROM THE BULLETIN

Dear Editorial Board members,

First, let me wish you all a Happy New Year for 2015 but I should also like to thank you all for your contribution to the management and progress of the Bulletin of Engineering Geology and the Environment. 2014 has seen a large rise in the number of papers submitted in the Bulletin, which I shall discuss below, and this has resulted in a larger than expected work-load for all of you. Thank you for accepting this with good grace!

I should also like to thank the retiring Executive of the IAEG for their willingness to join the Editorial Board and for helping me out over the last two+ years. Without their contribution, particularly in the 'early days' the backlog of papers might have become unmanageable. I hope that many of the new Executive of the IAEG will volunteer to become members of the Editorial Board. This is not a condition of being an Executive member but, given that all Executive members have considerable experience, their contribution would be most welcome. So, can I ask all the new Executive members to inform me if they are willing to join the Editorial Board? Also, would outgoing members let me know if they are willing to continue or wish to retire? If any other members of the Editorial Board have decided that they have had enough and wish to retire, please let me know as soon as possible. Thank you for all you have done.

Can I ask you all to identify a few more new members? I particularly need specialists in *engineering geophysics, contaminated land, landfill/waste disposal site location, site investigation, tunnelling, dam construction and quarrying/blasting*. Remember, when trying to recruit colleagues or professional friends, Editorial Board members do not have to review papers themselves. Rather, they need to identify two experts to review each paper that is allocated to them. Alternatively, if they do not mind reviewing a paper, they can find a single reviewer and themselves act as the second reviewer. Once reviewing is complete, the Editorial Board member makes the recommendation as to whether the paper is accepted, rejected or requires major or minor revision. Of course, I make the final decision and carry all responsibility for it. Sometimes papers need revising more than once but I should like to reduce the number of revisions necessary. Last year, a few papers needed four or even five revisions and I wonder if we should not be harder on authors who do not carry out the revisions required in the first or second revision.

The paper management statistics for 2014 are given in detail in the table below. All the papers from 2012 and 2013 have been given a final decision. Indeed, only seventeen papers submitted in the first half of 2014 remain to receive a final decision and most of these are awaiting the revisions from the authors.

The year was noteworthy for the massive increase in the number of submissions, from 24.2 papers per month to 38.9 per month – an increase of greater than 60% on the previous year. This has placed great strains on the Editorial Board but we are coping (just). However, I hope that the number of submissions has 'plateau-ed out' or might even reduce a little. To deal with the increase – 467 papers submitted in 2014 compared with 290 in 2013 – I increased the size of the Editorial Board. By the end of 2014, partly as a result of a recruitment drive in Torino, the number of members had reached 56, including myself. But, as I indicated above, I still need a few more. Currently, the Board members come from 22 different countries, with the UK, China and Turkey being the most strongly represented.

It is my intention that Editorial Board members should not be responsible for more than



three papers at any one time. This is the situation at the present time with the exception of one Board member (Ergun Tuncay), so I apologise to him.

The rejection rate for 2013 was 65.5% and for 2014 it is currently 65.3% with final decisions made on 377 papers out of 467 received, 80.7%. The acceptance rate for 2013 was 34.5% and for 2014 is currently 15.4%. I expect this figure to rise to about last year's level. I think that this is a 'healthy' level of rejection and shows that we are trying to maintain standards. The number of papers withdrawn has fallen over the last three years from 21 in 2012 to 11 in 2013 and 7 in 2014. This is partly a reflection of the reduction in the length of time that papers are in the 'system.' So, thanks to you all for helping achieve that. The impact factor for 2013 was 0.721, the highest that the Bulletin has ever achieved. However, this has relatively little meaning (because it can be manipulated). In any case, we remain a long way behind 'Engineering Geology.' So, all of you, when writing papers, need to refer to more papers from the Bulletin!!!!

In 2014, the first thematic set of papers under my Editorship was published. Five papers and an Introduction were published in Part 2 on the subject of "Quantitative analysis of landslide risk." A further thematic set of papers is planned for the end of 2015 or early 2016. Overall, 98 papers were published in 2014, after a low point of 58 in 2013. This is the third highest total in one year over the 45 year life of the Bulletin. The average for the three years 2012-14 is 76 papers per year.

The geographical split in the papers published is both slightly surprising and worrying. 49% of papers were from Europe, with Turkey being the main source followed by Italy, Spain and Greece. 43% came from Asia, with China as the main source and Iran and India making significant contributions. North America, South America, Africa and Australasia contributed a rather small number of papers each. China is far and away the largest national contributor with almost 23% of all published papers. Though authors came from 29 different countries, why does the Bulletin fail to attract many papers from so many other parts of the world, such as Argentina, Australia, Brazil, France, Germany, New Zealand, Poland, Russia, South Africa and the USA, to name but ten? Authors from these countries contributed to only five published papers between them during the year.

Finally, if you want to know more about the history of the Bulletin, have a look at the book recently published by the IAEG (Delgado, C., Dupray, S., Marinós, P. & Oliveira, R. 2014. The International Association for Engineering Geology and the Environment: 50 years. A reflection on the past, present and future of engineering geology and the Association. Beijing: Science Press). Section 10 discusses the Bulletin.

	<b>2012 (Apr-Dec)</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
No. of papers submitted	199	290	467	3
Monthly average submissions	22.1	24.2	38.9	
Papers rejected	123	179	298	3
Papers withdrawn	21	11	7	0
Total no. of rejections	144	190	305	3
Rejections (percentage)	72.4%	65.5%	65.3%	100%
Papers with Editors and	0	0	60	0

reviewers				
Papers with authors requiring major revision	0	0	22	0
Papers with authors requiring minor revision	0	0	8	0
Total no. of papers 'in the system'	0	0	90	0
Papers accepted	55	100	72	0
Papers accepted (percentage)	27.6%	34.5%	15.4%	0%
Papers published in whole year) (lags behind papers accepted) (average = 76 per year)	72	58	98	-

Very best wishes and once again, thank you.

Martin  
(Bulletin Editor-in-Chief)

3 January 2015

## 9. INTERNATIONAL RESEARCH PROGRAM



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

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IAEG Secretariat:  
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Tel./Fax: +86 10 8299 8284, Mobile: +86 13910509506  
Email: [iaegsg@163.com](mailto:iaegsg@163.com)

### **Ocean University of China and Professor Jia Yonggang,**

In order to promote the research and international collaboration in the field of marine engineering geology, the China National Group has proposed in 2014 to the Technical Oversight Committee (TOC) of IAEG to establish a project under the framework of IAEG. The TOC of IAEG has formally accepted the project on “In-situ Long-term Observation for Engineering Geological Conditions and Geologic Hazard Processes in Complex Deep Sea” as a project of the IAEG International Research Program. We are pleased to appoint professor Jia Yonggang as the chairperson of the project during the research period.

Hereby letter

Yours sincerely,

**Carlos Delgado**

Chairman,

Technical Overseeing Committee,

The International Association of Engineering Geology and the Environment

September 20, 2014

## 10. MEETING INFORMATION

### ● Indian-New Delhi, 27-29 October 2015 International Conference on Engineering Geology

An International Conference titled "International Conference on Engineering Geology in New Millennium" shortly called as EGNM 2015 will be hosted by Indian Society of Engineering Geology on 27-29th October 2015 in New Delhi.

Official page of the congress: <http://www.egnmindia2015.org>

#### **Main topics:**

The conference will focus on the following topics:

- 1) History and scope of engineering geology
- 2) Investigation techniques and explorations
- 3) Rock mechanics
- 4) Construction stage engineering geology and geotechnical investigations
- 5) Geotechnical engineering and soil mechanics
- 6) Geotechnical studies and engineering design of large caverns
- 7) Mining
- 8) Geoenvironment, hydrology, geohydrology, ground water hydrology and contamination
- 9) Landslide studies, hazards and seismicity
- 10) Urban engineering geology

#### **Important Dates**

Abstract Submission Deadline	December 31, 2014
Abstract Acceptance Before	February 28, 2015
Full Paper Acceptance Before	May 31, 2015
Full Paper Submission Deadline	June 30, 2015
Revised Full Paper Deadline	July 31, 2015
Registration Opens	April 1, 2015

#### **Registration fee**

Participant	Early bird	Standard	Spot
General	US\$ 500	US\$ 550	US\$ 600
IAEG members	US\$ 450	US\$ 500	US\$ 550
Student/ Accompany	US\$ 200	US\$ 250	US\$ 300
SAARC Delegates	INR10,000		INR15,000

## ● Japan-Kyoto, 26-27 September 2015 10<sup>th</sup> anniversary Asian Regional Conference(Symposium)

IAEG Japan National Group hosts 10th anniversary Asian Regional Conference (Symposium), providing academic researchers, engineering geologists in the community of engineering geology with opportunities to present and share the state of the art views in this field. 10th Conference will be held in Tokyo, Japan on 26<sup>th</sup>-27<sup>th</sup> September, 2015.

Official page: <http://2015ars.com/>

### **Main topics:**

The conference will focus on the following topics:

- 1) Landslides: landslides, debris flows and rock mass collapse, risk reduction of geohazards .
- 2) Meotectonics and Geohazards: active fault, earthquake, tsunami, volcanic hazards, tsunami hazard.
- 3) Engineering geology in construction and maintenance: foundation, underground geology, groundwater.
- 4) New technology: new technology and equipment for engineering geology

### **Important Dates**

Call for abstract: September 1, 2014.

Abstract due: Oct. 15, 2014

Acceptance of abstract: Nov. 15, 2014.

Full paper due: Feb. 15, 2015

Early birds registration due: Feb. 28, 2015

### **Registration fee**

Participant	Early bird	Standard
Delegate	35000JPY	40000JPY
IAEG members	30000	35000
Student	20000	20000
Accompany	20000	20000

## ● Russia-Perm, 26-29 May 2015 Environmental safety and construction in karst areas ( International Symposium)

The International Symposium «Environmental safety and construction in karst areas» is planned to be held in Perm, Russia, at the Perm State University **on May 26-29, 2015.**

**Symposium website:** [karst.psu.ru](http://karst.psu.ru)

Almost all karst types and forms are manifested in Perm. Over an area of 30 000 km<sup>2</sup>, limestones, dolomites, gypsums, anhydrites and rock salts crop out or occur close to the surface. This variety of karst forms gave birth to a number of complex problems in economic development of the karstified

areas; however, at the same time, it has triggered the priority development of practical and theoretical concepts of karstology in this region.

**Symposium invites to discuss the following issues:**

- 1) Engineering research methods in karst regions and organization of karst monitoring;
- 2) Evaluation of karst hazard and risk;
- 3) Pollution of the geological environment in karst regions and protective measures;
- 4) Device of the foundations and underground construction in karst areas;
- 5) Examples of designing buildings in karst regions;
- 6) Karst-control measures upon projecting of highly dangerous and technologically complex objects;
- 7) Analysis of emergencies and insurance specifics of engineering structures with the account of karst risks;
- 8) Regulatory and methodical documents on survey, design and construction in karst regions;
- 9) Construction and exploitation of buildings and structures in karst areas.

**Important Dates**

Filled request form, paper and copy of receipt payment of organization fee must be send in address of organization committee till 15 May, 2015.

**Registration fee**

Form of participation	Registration fee(including VAT)
Full-time(Ordinary persion)	200€
Full-time(IAEG members)	180€
Full-time(Students, Graduate Students)	100€
Distance	100€
Accompanying persion	50€

● **Italy- Torino, 1-3 July 2015**  
**International conference on structural earth monitoring of intelligent infrastructure**

The 7<sup>th</sup> International conference on structural earth monitoring of intelligent infrastructure will be held in Torino, Italy on 1-3 July 2015.

Official site: <http://www.shmii2015.org>

**Main topics:**

The conference will focus on the following topics:

- 1) Sensors and sensor systems.
- 2) Monitoring, maintenance and lifecycle.
- 3) Vibrational identification and testing.
- 4) NDE and local observations.
- 5) Monitoring for active, semi-active, hybrid, passive control.



- 6) Weigh-in-motion and related monitoring actions.
- 7) Monitoring for geotechnics and early warning.
- 8) Risk analysis, monitoring and interdisciplinary strategies for sustainable and resilient infrastructures and urban systems.
- 9) Applications and case studies.

#### **Important Dates**

Final papers, along with a one-page abstract and the copyright transfer document, must be submitted by January 15, 2015 via the online system.

## ● **Italy- Isle of Ischia, 24-25 September 2015** **International workshop on Volcanic Rocks & Soils**

The International Workshop on Volcanic Rocks & Soils is planned to be held in the island of Ischia, Italy, on 24-25 September 2015.

The aim of the Workshop is to bring together international researchers and practitioners dealing with volcanic rocks and soils. These materials exhibit a peculiar mechanical behaviour at both laboratory and in-situ scale, due to their specific structural properties, which makes difficult characterization

Official Page: <http://www.wvrs-ischia2015.it/>

#### **Main topics**

The Workshop occurs in two full days, divided in five sessions devoted to the main Conference topics. Each session is opened by an invited conference followed by the presentation of selected regular contributions.

Papers on any issue which is relevant to the topics of the Workshop, even if not specifically listed in the Conference Topics (e.g. modelling, documented case histories, etc.) are well-accepted.

#### **Conference Topics**

1) Geotechnical characterization under both static and cyclic/dynamic conditions, with special regard to structural properties at different scales:

- Technical classifications;
- Microstructural features;
- Laboratory characterization;
- Field characterization;
- Construction materials

2) Geotechnical aspects of natural hazards:

- Slope stability
- Seismic risk
- Active volcanoes

3) Geotechnical problems of engineering structures:

- Foundations
- Embankments, earthworks and dams

Excavations and earth retaining structures

Tunnels

### Important Dates

Abstract submission	8 December, 2014
Abstract review & acceptance	22 December, 2014
Full paper due	15 March, 2015
Provisional acceptance of paper	30 April, 2015
Camera-ready manuscripts of full paper due	31 May, 2015
Early bird registration	15 July 2015

### Registration

Registration Types	Early bird (before July 15th)	Regular rate (after July 15th)
Member	390 €	450 €
Non Member	490 €	560 €
Student/Trainee	190 €	190 €

## ● Portugal-Porto, 22-24 July 2015

### 2nd International Conference on Preservation, Maintenance and Rehabilitation of Historic Buildings and Structures

REHAB 2015 – 2<sup>nd</sup> International Conference on Preservation, Maintenance and Rehabilitation of Historic Buildings and Structures, will be held in Porto, Portugal, 22-24 July 2015.

2<sup>nd</sup> International Conference aims to proceed with the discussion on built heritage and the preservation of its legacy, establishing a settle of knowledge and experience from several parts of the world, that was established in the first edition of the event. The importance of conservation of historical constructions (built landscape, urban fabrics, buildings, and engineering works) are of utmost importance to preserve the cultural references of a community and was deeply discussed on March 2014, in Tomar.

Under the main topics of discussion, subjects of preservation and rehabilitation methodologies and technologies, as well the importance of the economic and social impacts of preservation practices are here covered as the main leading guidelines for the conference debate.

Conference website: <http://rehab.greenlines-institute.org>

### Important Dates

ACTION	DEADLINE
Submission of abstracts (1st call)	November 30, 2014
Notification of abstracts acceptance (1st call)	December 20, 2014
Submission of abstracts (2nd call)	January 15, 2015
Notification of abstracts acceptance (2nd call)	January 31, 2015
Submission of full papers	April 30, 2015
Notification of papers acceptance	May 31, 2015
Submission of revised papers	June 15, 2015
Full registration for Pack A and ERS Reduced Fee	June 30, 2015
Attendants registration (Pack B) and Reduced Fee (Pack C)	No deadline
Conference	July 22-24 2015

## Registration

PACK A (Presenters)	PACK B (Attendants)	PACK C (Reduced fee)
Full technical programme (parallel sessions, workshops and technical visit). Oral presentation (20 minutes). Paper publication (ebook). Conference proceedings (CD). Lunches, coffee breaks, and social dinner.	Full technical programme (parallel sessions, workshops and technical visit). Conference proceedings (CD). Lunches, coffee breaks, and social dinner.	Full technical programme (parallel sessions, workshops and technical visit). Conference proceedings (CD). Lunches, coffee breaks, and social dinner.

## Fees and registration deadlines

PACK	PAYMENT DEADLINE	FEE (EUROS)
<b>A (Presenters)*</b>	Regular registration: until June 30, 2015 Late registration: until June 7, 2015	400 460
<b>Additional paper</b>	Until June 30, 2015	200
<b>B (Attendants)**</b>	No deadline	400
<b>C (Reduced fee)***</b>	No deadline	250

## ● New Zealand-Wellington, 22-25 February 2015

## 12th Australia New Zealand Conference on Geomechanics

The New Zealand Geotechnical Society and the Australian Geomechanics Society will hold the **12th Australia New Zealand Conference on Geomechanics** (ANZ 2015) on 22-25 February 2015 in Wellington, New Zealand, which is the regional conference of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and is held approximately every 4 years. The conference theme is “The Changing Face of the Earth – Geomechanics & Human Influence”.

Official site: <http://www.anz2015.com>

## Key dates

30 September 2014, Deadline for Paper submission for review

October 2014, Notification of acceptance of papers

10 November 2014, Deadline for modifications to your paper post review

## Registration fees

Conference Categories	Standard Fee
NZ\$ incl GST	(for payments after 28 November 2014)
Member	\$1500.00
Life-time Member	\$1140.00
Non-member	\$1700.00
Student	\$665.00
Day	\$795.00

## ● New Zealand- Christchurch, 2-4 November 2015

The 6th International Conference on Earthquake Geotechnical Engineering and Structures, will be held in Porto, Portugal, 22-24 July 2015.

The sixth ICEGE will provide an excellent opportunity for earthquake and geotechnical engineers, geologists and seismologists, consulting engineers, public and private contractors, city and national authorities, and all those involved with engineering works and research related to earthquake geotechnical engineering, to exchange ideas and present their recent experience and developments.

Official site: <http://www.6icege.com/>

### Important Dates

Event	Key date
Submission of abstracts close	September 15, 2014
Registrations open	February 1, 2015
Paper submission close	March 1, 2015
Earlybird registrations close	July 1, 2015

## ● Canada- Montreal, 10-13 May 2015

The 13th ISRM Conference will be held on 10-13 May 2015 in Montreal, Canada.

Official site: <http://www.isrm2015/>

### Topics

- Application of geophysics in rock mechanics
- Enabled rock mechanics: scope of augmented reality, virtual reality and artificial intelligence
- Explosive free rock breakage techniques for rock excavation and drilling
- Fracture mechanics and fracture propagation
- Fractured rock and rock mass discontinuities
- Ground freezing
- High temperature geomechanics
- In-situ stress measurement
- Lab and in-situ rock characterization and modelling
- Numerical, analytical, constitutive modelling or rock processes
- Prediction and modelling
- Remote sensing and seismicity
- Reservoir geomechanics
- Rock mechanics risk assessment
- Rock physics models for enhanced hydrocarbon recovery
- Role of uncertainties in rock engineering design
- Slope stability and land slides
- Stability and excavation support
- Subsidence - prediction and mitigation of its impacts
- Underground storage of petroleum, gas, CO<sub>2</sub>, and nuclear waste disposal

### Important Dates

- Abstract submission deadline May 1st 2014
- Abstract acceptance July 1st 2014
- Full paper submission deadline extended to October 1st 2014
- Review deadline November 1st 2014
- Paper with final revision submission deadline January 15th 2015
- Author registration deadline February 15th 2015

## **Registration will be open in January 2015**

### **Full Conference Registration**

- ISRM 2015 Registration Prices in Canadian Dollars. Bank transfer charges must be paid by the registrants.
- Includes: Technical program, Plenary, Sunday Opening Reception, The Expo, 3 luncheons, and Proceedings
- Does not include: ISRM Gala ticket - Subsidized ISRM gala tickets available at \$95 (Regular gala ticket: \$150)

REGISTRATION CATEGORIES	Before April 3, 2015	After April 3, 2015
<b>ISRM Member Conference registration</b>	\$875	\$925
<b>Conference Registration</b>	\$925	\$975
<b>Student Registration*</b>	\$350*	\$350*
<b>Author Registration</b> (Must register before February 15, 2015)	\$825	N/A

- Add an extra \$150 to one of the above registration categories to gain full access to the CIM Convention.

## **● Czech Republic-Prague, 7-11 September, 2015**

### **The World Multidisciplinary Earth Sciences Symposium-WMESS**

The World Multidisciplinary Earth Sciences Symposium-WMESS 2015 will be held during 7-11 September 2015 in Prague (Czech Republic).

Office site: <http://mess-earth.org>

## **● China-Beijing, 2016**

### **International Conference on sustainable infrastructure**

Given the global implications of China's infrastructure development, the 2016 International Conference on Sustainable Infrastructure-ICSI 2016 will be held in Beijing, China.

CRAES-Chinese Research Academy of Environmental Sciences will serve as the leader organizer with the help of ASCE. Tsinghua University and RCEES-Research Center of Eco-Environmental Sciences will be co-organizers. The Chinese Academy of Engineering-CAE will be the lead sponsor. CAE is leading efforts in developing guidelines, promoting ecocity demonstration projects in addition to sponsoring ICSI 2016. CAE believes that this conference is integral to developing the blue print for more sustainable cities in China, the Asian Region and the World.

## **● South Africa-Cape Town, 27 August to 4 September 2016**

### **The 35th International Geological Congress**

The 35<sup>th</sup> IGC event will be held in Cape Town, South Africa from August 27 to September 4, 2016.

South Africa will be hosting the 35th 'World Cup of Geosciences' in 2016 - , the Prestigious prestigious International Geological Congress (IGC), which is undoubtedly the most important

activity of the International Union of Geological Sciences (IUGS). The South African event will be hosted/take place at the Cape Town International Convention Centre from 27 August to 4 September 2016.

The Council for Geoscience, together with the Geological Society of South Africa and other collaborators from academia and industry, is currently spearheading the preparations for the 35th IGC in South Africa.

The objectives of the IGC are as follows:

Contribute, in collaboration with and under the sponsorship of the IUGS, to the advancement of fundamental and applied research in the geological sciences.

Provide a general assembly of geoscientists, spanning a wide range of geoscience disciplines, where ideas and information can be freely exchanged.

Emphasise the geological specialities or challenges of the host country or region.

Provide the opportunity, by way of geological excursions, to examine geological problems and features in the field.

Official site : <http://www.35igc.org/>

## ● **USA-San Francisco, California, 2018**



***Association of Environmental & Engineering geologists***

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***Engineering Geology for a Sustainable World***

**-----2018 IAEG Congress**

**San Francisco 2018**

### **Location: San Francisco, California, USA**

In 2018 it will have been 61 years since AEG was founded in California, and 54 years since IAEG was started. California has a long history of geologic hazards and human interaction. The centralized location of San Francisco along the western coast of the United States is easily accessible to numerous geologic features and academic institutions. One of the world's most famous fault systems, the San Andreas, passes through the City of San Francisco. The mélange complex of the Franciscan formation provides abundant opportunities for slope stability investigations. Further, the National Park Service's internationally recognized and supported research facility at Yosemite National Park specializes in rock fall and mass movement. These are but a few of the engineering geology related features located in or near San Francisco, a city with a long and storied history of interactions with geology. California is also a state with a long history of employing legislative and regulatory means to address geologic hazards, starting with some of the nation's first environmental laws to control placer gold mining in the late 1800's.

### **Venue:**



San Francisco is a city with well - established and efficient meeting facilities. The planning committee issued a request for proposal from several potential hotels to host the congress and has chosen the Hyatt Regency Embarcadero Center hotel and conference center to host the IAEG 2018 Congress. The Hyatt Regency is located in downtown San Francisco along the waterfront, directly across the street from the famous Ferry Building. The hotel features 67,000 square feet of meeting space, high-speed internet access, a full service business center, on-site catering, and 802 guest rooms with city or bay views.

### **Transportation:**

San Francisco is an easy destination to reach and is a major gateway to both Asia and Europe. SFO is the 20<sup>th</sup> largest airport in the world and is located only 13 miles south of San Francisco. The local public transportation infrastructure is excellent and easy to navigate. Conference attendees will not require rental cars to get to and from the Airport or get around the city. The Hyatt Regency hotel is at the foot of the California Street Cable Car line and adjacent to the Embarcadero station for Bay Area Rapid Transit (BART) and the Municipal Railway (MUNI). BART has service directly to the San Francisco and Oakland International Airports. For those local attendees who wish to drive to the facility it is conveniently located a few blocks off a major interstate highway and there is ample valet or self parking.

### **Tourist Attractions (geologic and non - geologic) for attendees and their partners:**

San Francisco has long been a major tourist center. The list of local and regional attractions accessible from San Francisco is extremely impressive and includes: Golden Gate Bridge, Fisherman's Wharf, SF Bay Embarcadero, Chinatown, Napa Valley, Cable Cars, Lombard Street, Alcatraz, Yosemite National Park, Muir Woods, Point Reyes National Seashore, Golden Gate Park, and during the meeting there is the baseball of the Oakland A's and SF Giants. Downtown San Francisco additionally houses world-class shopping destinations in Union Square.

San Francisco is considered one of the culinary centers of the world and features culinary walking tours of various San Francisco neighborhoods including North Beach (Italian), Chinatown, the Ferry Building gourmet shops and Farmer's Market, and Fisherman's Wharf.

### **Planning Committee Members:**

Our planning committee thus far includes:

Gary Luce (AEG 2013-2014 President, presenter at 2014 Torino Congress)  
Jeff Keaton (presenter at 2014 Torino Congress)  
Scott Burns (presenter at 2014 Torino Congress)  
Sarah Kalika (co-chair)  
Garry Maurath (co-chair)  
Dave Bieber (field trips chair)  
Abdul Shakoor (publications chair)  
Bob Tepel  
Dick Gray  
Bruce Hilton  
Tom Barry  
Kerry Cato  
Pete Holland  
Becky Roland  
Heather Clark (meetings manager)

### **Technical and Scientific Themes/Sessions:**

Potential themes and sessions include the following:

- Seismic Hazards: liquefaction and building design, particularly seismic retrofit of buildings
- Slope Stability Hazards: urban landslides and problems associated with development in a mélange complex
- Tsunamis: study of the coastal impacts of Pacific tsunamis and other coastal processes
- Geotechnical Foundation Issues: construction on Bay area muds and organic soils of the Sacramento/San Joaquin area Delta, liquefaction in the South Bay, San Francisco, and Oakland
- Tunnelling: both rock tunnelling through the Coast Range and soft sediment tunnelling through the Sacramento/San Joaquin Delta
- Levee systems: More than 1,700 miles of levees along the Sacramento/San Joaquin Rivers are currently being evaluated and these levees will be undergoing major renovation and rehabilitation during the conference.
- Naturally-Occurring Asbestos: a major environmental problem affecting construction projects, mining operations, and infrastructure in California, Washington, Nevada, Alaska and other states
- California High Speed Rail: By the Summer/Fall of 2018 this project may be in the final stages of design and initial stages of construction
- Water Supply: issues with restoration of the Sacramento/San Joaquin river deltas, California's surface water distribution systems including the Central Valley Project, LA Aqueduct, Delta Habitat Conservation and Conveyance Program
- Legislative and regulatory means to address geologic hazards

• **Potential Field Trips:**

*Two or three-day pre or post Congress trips:*

- Death Valley (originating in Los Angeles, with one-way travel to SF)
- San Andreas Fault tour up the coast from Los Angeles to Mendocino (originating in Los Angeles or San Francisco, with one-way travel)
- Drive from Portland to San Francisco (or reverse) to view urban landslides, volcanics, and coastal erosion along the Cascade Range (originating in Portland or San Francisco)
- Mts. Shasta and Lassen and the volcanics and geothermal resources of the Modoc Plateau (round-trip from SF)
- Geology of the Mono Basin/Mammoth Lakes (round-trip from SF)
- Geology of the Lake Tahoe basin and the high Sierras (round-trip from SF)
- Glacial geology of Yosemite or combined Mammoth Lake/Yosemite field trip and traversing the Sierra Nevada Batholith ending at the Rock Fall and Mass Movement research facility in Yosemite National Park (round-trip from SF, or one-way from Reno, Nevada to SF)

*One-day Congress Trips on Wednesday (field trip day):*

Engineering Geology: Explore the slope stability issues of the Franciscan complex and examine various engineering solutions to construct highways, dams, and buildings in this landslide prone mélange complex.

Seismicity: San Andreas Fault / Hayward Fault – one day trip in the San Francisco and East Bay

area

Tsunami risk and impacts: Half Moon Bay, Santa Cruz, and Monterey

Tunneling:

- Fourth bore Caldecott Tunnel and Devil's Slide Bypass Tunnels – completed in 2013 using the New Austrian Tunnelling Method
- SF Central Subway Tunnel Construction, conducted beneath existing infrastructure, will extend MUNI streetcar service into Chinatown – will be completed in late 2018 using two large tunnel boring machines commissioned for this project
- Delta Habitat Conservation and Conveyance Program: twin 40 - foot diameter tunnels beneath the Sacramento Delta will be nearing completion in 2018

Dams:

- Linked hydropower generation systems in the Sierra Nevada such as the Upper American River Project consisting of an extensive system of dams and tunnels of various designs build between the 1950's and today.
- Iowa Hill Pumped Storage Project should be nearing completion in 2018. This will be the first large (400MW) pumped storage project constructed in the United States in almost 20 years.
- Numerous dams in the San Francisco Bay area, recently re-built or upgraded to withstand severe earthquakes

Wind Power: Solano and Eastern Alameda County Wind projects and geotechnical issues with foundations of wind towers

Levees: Sacramento/San Joaquin river levee system rehabilitation: this 1,700 mile long levee system protects millions of people in California's Central Valley

Bridges: Engineering marvel of the new Eastern span of the Bay Bridge – completed in 2013, walk/bike on pedestrian path to Treasure Island for a close-up view of the bridge

California High Speed Rail: site inspection tour

Napa Valley: environmental issues, groundwater, and soils of one of the world's premier wine growing regions

Urban Geology: geology of San Francisco and development of the city by expansion into SF Bay and construction on organic and liquefiable soils

Santa Clara Water District: groundwater infiltration and barriers to salinity contamination from SF Bay

Economic Geology:

- California Gold Country - visit the Mother Lode gold district of the Sierra Foothills from Malakoff Diggings and Nevada City in the north to Sutter's Mill and Angels Camp in the South, enter the Empire Mine, one of the largest hardrock gold mines in the world, and visit the Yuba River Gold fields home to a currently operating placer dredge mining operation.
- Visit the geothermal resources of the Geysers/Clearlake area of the Coast Range and

compare it to the basin and range geothermal resources of Steamboat Springs and Dixie Valley areas of Nevada.

Environmental: Large scale coordinated groundwater contamination and SVE cleanup of Silicon Valley, Lawrence Berkley Laboratory, Hunters Point former Naval Shipyard, or any of dozens of superfund sites within a 2 - hour drive of the convention center.

**Potential Spouse/Guest Activities during the meeting:**

- Alcatraz tour
- Angel Island tour
- Bus, walking, bike tours of San Francisco, Golden Gate Bridge, and Fisherman's Wharf
- Culinary walking tours of San Francisco neighborhoods
- Golden Gate Park
- Site seeing lunch cruises and romantic dinner cruises on San Francisco Bay
- Bus/Train tours of Napa - Sonoma vineyards and wineries
- Tours of Muir Woods and their grove of Giant Sequoias
- Tours of Pt. Reyes National Seashore
- Tours of Santa Cruz/Monterey
- Indian Casino tours
- Amusement Park visits
- Baseball games

**Letters of Support Received from Affiliated Organizations:**

We are actively seeking letters of support from affiliated organizations. The following organizations have extended their support thus far.

- American Geosciences Institute (AGI)
- American Rock Mechanics Association (ARMA)
- ASFE/Geoprofessional Business Association
- Geological Society of America (GSA)

**IAEG 2018 Global Advisory Group:**

We have obtained support from the following individuals to serve on our advisory group and are actively seeking additional support.

Helder Chaminé (Portugal)  
Steve Parry (UK, Hong Kong)  
Bruce Riddolls (New Zealand)

We look forward to presenting our final bid at the Torino Congress in September!



Gary Luce, PE

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