IAEG
NEWSLETTER

Issue No.2, 2018
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Edited by the IAEG Secretariat, Shaoxing, China

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NEWS OF EXECUTIVE COMMITTEE

Midyear Meeting of IAEG Executive Committee in 2018

A two days midyear working meeting of IAEG Executive Committee was held in Mines Paris Tech, Paris, France on May 18-19, 2018. All the 12 members of the Executive Committee attended and Scott Burns, the president of IAEG, chaired the meeting. Eldon Gath represented the Vice President for North America Jeff Keaton attended the meeting.

The Secretary General Faquan Wu reported the recent progress of the National Group, this year we are hopefully welcoming the re-activated national group Croatia and Iceland, and potential new national groups Bhutan and Myanmar. The executive members proposed to make a separate list of active National Groups and inactive National Groups to check the National Groups’ activity status. The Treasurer reported the 2017 balance of finance of IAEG and the web editor in chief Giorgio Lollino report the website works, the website has recently opened the new page of YEG Committee (Young Engineering Geologists Committee), Giorgio gave some suggestions on the improvement of website works as well.

The Executive Committee selected the 2018 awards including the Hans Cloos Medal, Marcel Arnould Medal and Honorary Membership at the meeting, with the secret votes by the Executive Committee, the recipient of Hans Cloos Medal 2018 is Professor Runqiu Huang, nominated by the Chinese National Group and the recipient of Marcel Arnould Medal 2018 is Dr. Louis Primel nominated by the French National Group. The Executive Committee also decided to grant the Honorary Membership 2018 to Professor Cristian Marunteanu, nominated by the Romanian National Group. For the Richard Wolters Prize, 4 candidates have been nominated by national groups, they are Wen Zhang (China), Wei-An Chao (Chinese Taipei), Sarah Bastin (New Zealand) and Andrey I. Kazeev (Russia). The RWP competition is going to take place during the 2018 Congress in San Francisco, USA.

The Editor in chief of Bulletin, Martin Culshaw proposed that the IAEG should fund a project to digitise all undigitised IAEG Congress and Conference Proceedings and make them available to members via the IAEG website. The Executive Committee approved and Martin is responsible to present a financial proposal to support the project firstly. In order to search the possibility of all members with Electronic
Bulletin after 2019, Martin will consult with Springer to see the minimum cost price for all members with Electronic Bulletin, and feed back at the Executive Committee meeting in San Francisco.

The Executive Committee discussed changing the Bylaw and Status as we have not updated them for a long time already, a Committee consist of Scott Burns, Louis van Rooy, Martin Clushaw and Yogendra Deva will be responsible for coming up with a list of things to be changed on the Bylaw and Status and present them as advice to the Council for consideration and approval. The Executive Committee also approved the motion of setting 2 Vice Presidents for Asia which will be presented to the Council for approval at the San Francisco Meeting in September.

Scott Burns reported the updates of the XIII IAEG Congress, on keynotes, technical sessions, abstracts, proceedings, registrations, short courses, field trips, exhibitions, special events, commission symposiums, hotel and visa application. It is highlighted that a Solidarity Fund has been set to to help young conference participants from low-income countries to attend the meeting. IAEG will have a special booth for IAEG promotion during the Congress next to the reception. The Congress organizing work is going smoothly and more participants are expected to register on the official website to get the discount before the deadline.

Scott introduced the first issue of IAEG Connector E-News which is going online and open to all IAEG members, to show what’s happening in IAEG recently, to sharing the conference information with all members. There will also be a special part to highlight the officers of IAEG Executive Committee in the next coming issues.

After the meeting on May 18, 2018, the award ceremony for Giorgio Lollino to receive the 2016 Marcel Arnould Medal took place inside the Mineralogical Museum in Mines Paris Tech. Giorgio Lollino was granted the Marcel Arnould Medal in 2016, for the absence of meetings both in 2016 and 2017, he wishes to take this opportunity to receive the award in Paris which is also the home of Marcel Arnould, making it more meaningful. All the Executive Committee members as well as Council members of the French National Group, Mrs Aline Quenez, Roger Cojean and Jean-Louis Durville presented the award ceremony.
NOTIFICATION OF HANS CLOOS MEDAL RECIPIENT

Dear Professor Runqiu Huang and Professor Shengwen Qi,

I am very pleased to inform you that the recipient of Hans Cloos Medal 2018 is Professor Runqiu Huang, nominated by the Chinese National Group. The decision is made at the Executive Committee Meeting held in Paris on 18th May, 2018. With the secret votes by the Executive Committee members on four candidates nominated by National Groups Australia, Bangladesh, China and USA, the Executive Committee decided to award the Hans Cloos Medal for the year 2018 to Professor Runqiu Huang for his excellent contribution to the development of engineering geology.

 Congratulations to Professor Runqiu Huang and the Chinese National Group!

Best Regards,

[Signature]

Professor Scott Burns
President of International Association for Engineering Geology and the Environment
Portland State University, Dept. Of Geology
Tel: 503-725-3389  Email: burnss@pdx.edu
NOTIFICATION OF MARCEL ARNOULD MEDAL RECIPIENT

Dear Louis Primel and Aline Quenez,

I am very pleased to inform you that the recipient of Marcel Arnould Medal 2018 is Dr. Louis Primel, nominated by the French National Group. The decision is made at the Executive Committee Meeting held in Paris on 18th May, 2018. With the secret votes by the Executive Committee members on three candidates nominated by National Groups China, France and Nigeria, the Executive Committee decided to award the Marcel Arnould Medal for the year 2018 to Dr. Louis Primel for his significant contribution to the engineering geology profession in the region and his outstanding service to the Association.

Congratulations to Dr. Louis Primel and the French National Group!

Best Regards,

Scott Burns
President of International Association for Engineering Geology and the Environment
Portland State University, Dept. Of Geology
Tel.: 503-725-3389  Email: burns@pdx.edu
NOTIFICATION OF HONORARY MEMBERSHIP RECIPIENT

Dear Professor Cristian Marunteanu and Professor Mihaela Stănciucu,

I am very pleased to inform you that the recipient of HONORARY MEMBERSHIP is Professor Cristian Marunteanu, nominated by the Romanian National Group. According to the decision made by the Executive Committee at the Executive Committee Meeting held in Paris on 18th May, 2018, they decided to award the HONORARY MEMBERSHIP to Professor Cristian Marunteanu for his exceptional services to the Association.

Congratulations to Professor Cristian Marunteanu and the Romanian National Group!

Best Regards,

Scott Burns
President of International Association for Engineering Geology and the Environment
Portland State University, Dept. Of Geology
Tel: 503-725-3389 Email: burnss@pdx.edu
ANNOUNCEMENT OF IAEG 2018 RICHARD WOLTERS PRIZE CANDIDATES

All members of Executive Committee and the Council,

The Richard Wolters Prize 2018 competition will be presented at the occasion of the 13th IAEG Congress (September 15-23, 2018, San Francisco, USA). We have already received 4 qualified candidates nominated by National/Regional Groups China, Chinese Taipei, New Zealand and Russia. The 4 candidates who have confirmed that will attend the 2018 RWP competition are listed below:

Wen Zhang (China) - nominated by the Chinese NG
Wei-An Chao (Chinese Taipei) - nominated by the Chinese Taipei Regional Group
Sarah Bastion (New Zealand) - nominated by the New Zealand NG
Kazeev Andrey (Russia) - nominated by the Russia NG

Selection of the winner of the Richard Wolters Prize and runner-up will be made by the jury appointed by the IAEG Executive Committee.

Good luck to the candidates!

Best regards,

Faquan Wu
Professor, Secretary General, IAEG
Shaoxing University
No.508, Huanchengxihu, Shaoxing City, Zhejiang Province, 312000, China
Tel/Fax +86-0575-88346551
Email: iaegsg@163.com
2018 Election of the Officers

Till the deadline of May 15th, the secretariat has received nominations for the 2018 Election of the officers for the term 2019-2022. The overviews of the candidates:

- **Candidates of the President**
  - Rafig Azzam (Germany) - nominated by the German NG
  - Ann Williams and Mark Eggers (New Zealand and Australia) - nominated by the New Zealand and Australian NG

- **Candidates of the Secretary General**
  - Faquan Wu (China) - nominated by the Chinese NG

- **Candidates of the Treasurer**
  - Jean-Alain Fleurisson (France) - nominated by the French NG

- **Candidates of the Vice President for Africa**
  - Tamunoene Kingdom Simeon ABAM (Nigeria) - nominated by the Nigerian NG

- **Candidates of the Vice President for Asia**
  - Tang Huiming (China) - nominated by the Chinese NG
  - Bo-An Jang (Korea) - nominated by the Korean NG
  - Ranjan Kumar Dahal (Nepal) - nominated by the Nepalese NG

- **Candidates of the Vice President for Australasia**
  - Doug Johnson (New Zealand) - nominated by the New Zealand NG

- **Candidates of the Vice President for Europe**
  - Kiril Anguelov (Bulgaria) - nominated by the Bulgarian NG
  - Vassilis Marinios (Greece) - nominated by the Greek NG
  - Eugene A. Voznesensky (Russia) - nominated by the Russian NG

- **Candidates of the Vice President for Southern America**
  - Norberto Jorge Bejerman (Argentina) - nominated by the Argentinian NG

- **Candidates of the Vice President for Northern America**
  - D. Jean Hutchinson (Canada) - nominated by the Canadian NG

**Announcement of the 2018 Council Meeting**

The 2018 Council Meeting will take place on September 16, 2018 at the Hotel Hyatt Regency in San Francisco, USA during the XIII IAEG Congress. The year 2018 is a big year for IAEG, New Executive Members for the term of 2019 - 2022 will be elected by ballot at the Council Meeting. The Candidates who are willing to run for a position should give a five minutes speech during the election part, to state his/her performance of the position. All the Council Members, please mark the important date on your Calendar and participate the 2018 Council Meeting of IAEG.
Elected Editor-in-Chief of Bulletin Met with the Secretary General of IAEG

Doctor Louis N.Y. Wong, the Editor-in-Chief of The Bulletin of Engineering Geology and the Environment, met with the Secretary General of IAEG, Professor Faquan Wu in Shaoxing University on June 30, 2018. They affirmed the development of Bulletin and made agreement on how to improve the quality and expand the influence of it. In addition, they also exchanges opinions on the development direction of Bulletin, regarding the aspect of broadening the areas and fields Bulletin covers.

New Elected President of FedIGS

Professor Xiating Feng from China has been elected the new president of FedIGS for the term of 2019-2022. Congratulations to Professor Xiating Feng and sincere thanks to President Jean-Louis for his efforts and endeavor during the past four years.

The FedIGS meeting will be held on September 24, 2018, during the XIII IAEG Congress.

New Page Open on the Website for YEG

The Young Engineering Geologists (YEGs) are the active young member (under 40 years old) chapter of the International Association of Engineering Geology (IAEG). The young membership is represented by a committee of dynamic representatives of 13 regions of the world.

Our goal is to promote the interests of young members and their involvement within the IAEG, by facilitating networking and organizing relevant events around the world.

The Secretariat has been calling for the update membership of 2018 since January this year. It is highly appreciated for NGs to update the membership as to meet the subscription and delivery of the Bulletin. For the NGs who have not submit the latest memberships yet, please update the information and contact the secretariat as soon as possible.

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OBITUARY

In Memory of Richard Z. T. Bieniawski

Prof. Richard Z.T. Bieniawski, died on 11 December 2017 at his home. He was born in 1936, in Krakow, Poland. He was one of the most prominent and influential rock engineering personalities of the 20th century.

Prof. Bieniawski was trained as a naval architect and marine engineer in Poland, graduated in South Africa as mechanical engineer and obtained a doctorate in mining and tunnel engineering. He taught for 20 years at the Pennsylvania State University and retired on his 60th birthday to Prescott, having become Visiting Professor of Design Engineering at the University of Cambridge, England.

In the ISRM, he was chairman of the Commission on Testing Methods from 1972 to 1979 and Vice President for Africa from 1974 to 1979.

As two who have been to ISRM conferences for a long time, and therefore have known Dick Bieniawski for more than half his life, and during a bigger proportion of our own, it was with sadness we recently heard the news of his death on December 11, 2017.

His enthusiasm for life and work - seemingly at all times - was a foolproof camouflage of the fact that he had a long life, and was truly a senior and respected colleague. Starting in South Africa as a mechanical engineer, where he obtained a PhD in mining and tunnel engineering, he has been through his life a teacher and an engineer.

It is true perhaps, but misleading of his multi-faceted contributions to education, to rock mechanics and to rock engineering, that he is best known for his own RMR rock mass rating, which was a prime member of the 1972, 1973 and 1974 independently developed rock mass classification methods.

It is of interest to underline here that these classification methods miraculously developed almost simultaneously, if we look at the longer time-scale. RMR has of course provided healthy competition for Q, and gave a flying start for GSI.


However, how could Dick’s contributions to rock mechanics and rock engineering, during his first steps in the discipline, be neglected? The invaluable PhD thesis on the Mechanism of the Brittle Fracture of Rock in compression and tension is a remarkable sign of Dick’s ability to couple theory and practice.

The precious contributions of Dick Bieniawski to rock engineering in mining and tunneling are also to be reminded, as well demonstrated with his books on Strata Control in Mineral Engineering of 1987 and on Rock Mechanics Design in Mining and Tunneling of 1989.

The use of consistent design methods in rock engineering has always been Dick’s concern. This is well demonstrated in the books on Tunnel Design by Rock Mass Classifications of 1990 and on Design Methodology in Rock Engineering of 1992, always complemented with important case histories.

Giovanni Barla and Nick Barton
A Tribute to Prof. Don Deere, 1922-2018

Regrettably Prof. Don U. Deere left us on January 14th at the age of 95. He had hardly recovered from a fall a few months earlier. His passing, however, leaves very good memories for his former students, assistants, colleagues and clients. Five years ago, when he was celebrating his 90th birthday, we were invited by his son Don W. Deere and daughter to Gainesville, Florida, to a memorable ceremony, while Prof. Deere was still very active. His last years after he recovered almost totally from a stroke were spent golfing, dancing, etc. at his glamorous retirement resort.

He represented a very important milestone for Engineering Geology and Rock Mechanics in his activities at the University of Illinois, Champaign-Urbana Campus, in the 60s and 70s. Together with Prof. Ralph Peck, they led and pioneered Geotechnics and Rock Mechanics in the USA. His area of expertise covered Civil Engineering (Ph.D.), Mining (B.S.) and Geology (M.Sc.). My own impression is that Prof. Deere was a man who was very kind and respectful of his students and colleagues whom he encouraged the most. Moreover, he was a man who knew how to utilize the potential of his assistants to make them grow together with him. This resulted in a formation of a group of very talented colleagues, such as Ron Heuer, Alfred J. Hendron, Ed Cording, Frank Patton, and later Gabriel Fernandez, among others who were not of my time. Among his former students, you can find many engineers and geologists who reached senior and influential positions, like Andy Merritt (his consulting partner), Ray Miller, Harvey Parker (President of ITA), Jim Coulson (Chief Engineer at TVA), Ray Benson and Bob Conlon (Both Geotechnical Department Heads at Acres), Brian Sinclair, Sergio Brito, Alan Smallwood, Jim Gamble, Alberto Nieto, Jim Mahar and many others including the author of these lines. After many years at the University of Illinois, he moved to the University of Florida where he could devote more time to his consulting practice.

He was a recognized expert in Engineering Geology and Rock Mechanics and has the great merit of integrating Geology in Geotechnical and Geomechanical projects. He consulted on numerous dams, mining, tunnels and other underground projects for the US government, contractors and design engineering companies all over the world. Many of these projects involved precedent structures such as the Churchill Falls hydroelectric project in Labrador, Canada and the World Trade Centre in New York City. He also acted as a member of the Board of Consultants in many other large projects around the world. In Brazil he made very important contributions as a member of Board of Consultants for the following hydroelectric projects: Itaipu, Água Vermelha, Sobradinho, Itaparica, Paulo Afonso, Itumbiara, Sao Felix, Altamira and others. His first mission in Brazil was to help me on the design of the final slopes of the Cauê Open Pit Mine, in 1972.

His experiences in the field became teaching material for his classes. He wrote and co-authored numerous papers and was, of course, the inventor of the rock mass assessment tool, the RQD. Together with Giovanni Lombardi, he invented the GIN method of grouting. He was Chairman of the US Nuclear Waste Technical Review Board. He was the President of the Commission on Standardization of Laboratory and Field Tests of the ISRM from 1968 to 1973. He received numerous distinctions throughout his career including being elected to both the National Academy of Engineering and the National Academy of Sciences. He was also a consummate joke teller.

Milton Kanji
Owen White, the past president of IAEG for the term 1986 to 1990, passed away on Saturday, June 23rd, 2018 aged 92. Deep tributes and Condolences to his family as well as his friends and colleagues of IAEG. He was the first elected president from North America, former IAEG Vice President for North America from 1982 to 1986, the recipient of 1998 Hans Cloos Medal of IAEG, the recipient of Thomas Roy Award of Canadian Geotechnical Society in 1996. During his term as the president of IAEG, a lot of achievements of the technical meetings and some of the great technical presentations have been gained, the membership of IAEG reached 4600 in 1986 and the national groups increased from 50 to 55 by 1990 which has established strong foundation for the followed development of IAEG. After his retirement from IAEG, he keeps doing a great contribution to IAEG for such a long time, Owen White is definitely a conscientious and enthusiastic person. He will live in our memory forever and we sadly miss him.
The first IAEG_BNG NATIONAL EVENT 2018 of BANGLADESH NATIONAL GROUP of the IAEG, was held at Jahangirnagar University, on April 24-25, 2018. Several activities were organized. The event started on the 24th April, 2018 with events for the students, including “Geo-engineering Quiz Competition, documentary and video shows and a students’ rally on geo-engineering issues, highlighting the problems and issues of engineering geology and solutions for sustainable development of Bangladesh which was organized by “Young Engineering Geology Students’ Forum of Bangladesh_JU (YEGSFB-JU). Best participants of the Quiz Competition were awarded. The 2nd day of this event, which was on 25th April, 2018, was mainly focused on the key issues related with “Geological Engineering, Geo-hazards & Development” of Bangladesh. The inaugural session had started with the welcome speech of IAEG_Bangladesh National Group President--Prof. Dr. A.T.M. Shakhawat Hossain. Vice Chancellor of Jahangirnagar University, Professor Dr. Farzana Islam, was present as the Chief Guest. The Dean of the Faculty of “Mathematical and Physical Sciences”- Prof. Dr. Ajit Kumar Majumder, the Director General of the Geological Survey of Bangladesh--Dr. Reshad Md. Ekram Ali & Professor Dr. M. Qumrul Hassan, Professor of Department of Geology, University of Dhaka, were also present as special guests. More than 200 participants, including geoscientists from different National organizations, academics, engineers, policy makers and YEGSFB-JU attended this event on the 25th April, 2018 at JU.
Learned speakers from USA and Bangladesh presented their technical papers in three technical sessions and highlighted the current problems and solutions in geological engineering professional works, site investigations, climate resilient housing for sustainable development of Bangladesh, Climate change impacts at macro and micro levels, challenges and issues of sustainable water resource management of Bangladesh, 3D geological modeling and its importance for sustainable urban development, challenges and issues in managing landslide hazards of Bangladesh and importance of developing an early warning system for Bangladesh. Important construction issues on the construction of Rooppur Nuclear power plant and geotechnical issues on Land development and reclamation of Martarbari Ultra super critical coal fired power plant papers are presented. All the participants acknowledged the importance of geological engineering for future development of Bangladesh. This event was organized successfully by Bangladesh National Group and was really a wonderful event for geoscientists and geo-engineering professionals of Bangladesh.

Canada National Group – Activities

Current CGS-ESD Chair is also on the CGS Executive Committee as the Divisional Chair until 31 Dec 2018. The various Divisions (7) of CGS (https://www.cgs.ca/divisions.php?lang=en) report to the Divisional Chair who then represents them within the CGS Executive Committee.

Dr. Jean Hutchinson from Queen’s University was nominated for the position of IAEG VP North America as determined by the CGS Executive Committee. This motion will be voted upon at the IAEG Congress in San Francisco in Sept 2018.

Dr. Erik Eberhardt was awarded the Thomas Roy Award for 2017 at the CGS annual conference in Ottawa in October 2017. His work on the recognition, prediction and mitigation of complex rock engineering problems, unexpected rock mass responses and failures remains at the top of the Geological Engineering field. With a proven track record of academic and professional achievements with an emphasis on risk assessment, Dr Eberhardt is one of the most important leaders in Geological Engineering in Canada and internationally. More information can be seen here: https://www.eoas.ubc.ca/people/erikeberhardt.

The CGS-EGD increased its collaboration with the CGS Landslides Committee (CGS Geohazards Committee since January 1, 2016) during the year. The Chair of the CGS-EGD is now a member of the Robert Schuster Medal selection committee.
A joint activity is being offered at GeoEdmonton 2018 (the annual CGS Conference - http://www.geoedmonton2018.ca/) between the Rock Mechanics Division and the Engineering Geology Division for a Rock Core Logging Short Course. Registrations for the course are open and can be found at the website above.

EGD provided the GeoEdmonton 2018 (CGS Annual Conference) technical committee with a comprehensive list of reviewers for papers; many from this list were chosen for this purpose. Paper acceptance is being finalized and the conference is to occur 23-26 Sept 2018.

During the CGS-EGD AGM in Ottawa in September 2017, initial plans were discussed for the compilation of an ‘Engineering Geology in Canada Monograph’ and will be placed in an on-line forum. This initiative is being led by the current CGS-EGD Chair. The CGS-EGD is actively seeking individuals to contribute articles for this initiative. The EGD AGM was attended by 10 individuals.

As the CGS representative on CFES Council, the CGS-EGD Chair participated in the CFES AGM in April 2018 in Ottawa, Ontario. The CFES website is: http://earthsciencescanada.com/cfes/.

One of the prime venues for CFES this year was the very successful Resources for Future Generations Conference that took place in Vancouver from 18-21 June 2018 http://www.rfg2018.org/ .

The CGS-EGD web page http://www.cgs.ca/division_engineering_geology.php was updated to include links to further Engineering Geology related societies and to upcoming Engineering Geology events, links to the IAEG Lecture Series and IAEG Conference keynote speaker videos.

EGD Executive was involved in the Eurock 2017 (Czech Rep.) and Eurock 2018 (Russia) Scientific Committees.

The CGS-EGD provided a letter of Nomination for Dr. Keith Turner for the prestigious Han Cloos IAEG Medal. Keith has been an excellent supporter of the EGD for decades.

The CGS-EGD Chair voted on potential Colloquium speakers. As CGS Division Chairs and Editors of the CGJ, CGS-EGD Chair is a member of the Selection Committee for the Canadian Geotechnical Society Colloquium

Executive Member Mr. Andrew Peach is conducting a study into defining Engineering Geology. The Association of Professional Engineers and Geoscientists of Newfoundland and Labrador, PEGNL, has recently undertaken an initiative to define the scope of practice for Geotechnical Engineers, Geological Engineers and Engineering Geologists. Their goal is to provide clarity on overlapping scopes of practice as well as to determine what might be considered restricted scopes of practice specific to each discipline.
As such, EGD has reached out to international bodies and national ones in an attempt to standardize such definitions. Past and present IAEG Presidents were approached to provide input.

**China National Group – Activities**

1. The 11th China Engineering Geology Summit

From March 30 to April 1 2018, the 11th China Engineering Geology Summit was held in Institute of Geophysics and Geology, Chinese Academy of Sciences (IGGCAS), Beijing. This summit was proposed by National Natural Science Foundation of China (NSFC), hosted by Geology Society of China (GSC), undertook by Engineering geology committee, CGS (IAEG China National Group) and co-organized by IGGCAS, Key Laboratory of Shale Gas and Geoengineering, Chinese Academy of Sciences and Institute of Technology, China University of Geosciences (Beijing).

The topic of summit is Engineering Geology in New Era — Earth Dynamic System and Its Environmental disaster effect, emphasizing that the root of engineering geology is always geology, indicating that human activity process is one of the four earth dynamic systems, which deeply control the earth environment and its disaster evolutionary process by interaction. To reach a much higher level, engineering geology should pay close attention to the latest developments of modern earth science. Over 100 scholars and specialists presented the summit.

The opening ceremony was hosted by Prof. Faquan WU, President of IAEG China National Group and Secretary General of IAEG. And the subsequent summit was composed by invited lecture, leading theory and advanced technology and engineering practice and talent cultivation. 4 Academicians made invited lectures on “North China craton destruction and its resource and energy effects”, “The uplift of the Qinghai-Tibet plateau and its environmental effects”, “Energy revolution: from fossil fuels to new energy sources” and “The universality and specificity law of engineering geology”. In the later heated discussion, The first part leading theory and advanced technology was chaired by the Dr. Yueping YIN, chair of IAEG C24 Neotectonics and geo-hazard and Prof. Hengxing LAN, Chair of IAEG C37 Landslide nomenclature. Prof. Shengwen QI, Chair of IAEG C29 Structure and behavior of rock and soil and Prof. Yonggang JIA, Chiar of IAEG C34 Marine engineering geology also attended the summit and contributed their professional opinions and suggestions.
(2) The 5th International Symposium on Mega Earthquake Induced Geo-disaster and Long Term Effects
From May 11 to May 16 2018, the 5th International Symposium on Mega Earthquake Induced Geo-disasters and Long Term Effects was held by the State Key Laboratory of Geo-hazard Prevention and Geo-environment Protection (SKLGP) and Chinese Society for Rock Mechanics & Engineering (CSRME) in Chengdu University of Technology, China, supported by IAEG China National Group, Chengdu University of Technology, International Consortium on Geo-disaster Reduction (ICGDR), Collaborative Innovation Center of Geo-hazard Prevention (CICGP), International Research Association on Large Landslides (IRALL) and Hong Kong Chemical, Biological & Environmental Engineering Society (HKCBES). About 350 top-level scholars and specialists attended the symposium from UK, Japan, German, China and other 10 countries. The past president of IAEG Academician Sijing WANG
and Prof. Niek Rengers, the past president of ISRM Prof. Xiating FENG and past president of ICL Dr. Yueping Yin attended the symposium and made excellent lectures as well.

The 2018 symposium focused on building community resilience to dangerous earth-surface processes and geo-hazards in mega-earthquake areas, including:

• Advances in research on the triggering and development of co-seismic landslides and debris flows
• Long-term initiation and evolution of landslide and debris-flow hazards
• Post-earthquake monitoring and analysis for hazard early warning and design of mitigation measures
• Susceptibility, hazard, and risk assessment for rehabilitation and land-use planning in earthquake-struck areas
• Resilience to earthquake-induced landslide risk
• Geological disaster risk and engineering construction in meizoseismal area
Ten years ago, a devastating earthquake occurred in Sichuan Province, China, causing the death of almost 90,000 people and widespread damage to urban and rural communities, deeply affecting the economy of the region. The earthquake triggered tens of thousands of landslides over a large area, and rainstorms in the years after the earthquake re-activated many of them, triggering debris flows from their deposits. Even though strategies for geo-hazards assessment and risk management have been implemented to reduce the long-term disaster-chain effects from the earthquake, 10 years on, the Wenchuan region is still threatened by various geo-hazards in the aftermath of the earthquake. Spatial and temporal trends in these threats raise international awareness and concerns about the issues of long-term disaster-chain effects in hazard and risk reduction. This symposium is in memory of the many victims and provides opportunity to present and exchange international knowledge and experience on the occurrence of geo-hazards in areas struck by mega-earthquakes and their long-term effects.
About 200 people attended in this report meeting, and over 60% out of them were general local people. They mentioned to be improved their understanding for dangerous natural phenomena after meeting. JSEG intends to continue and spread these engineering geological activities for disaster prevention.

(2) Plan of International Workshop of IAEG and ISRM
IAEG Japan National Group intends to hold following international workshop of co-sponsor with IAEG and ISRM. ISRM has been held four international workshops of rock mechanics in volcanic area from Portugal, 2002 to Italy, 2015. In these days volcanic phenomena are important from several aspects such as disaster prevention, geothermal energy, water resources, and rock and soil mechanics etc. Japan National Group would like to propose to IAEG as co-sponsor with ISRM for this plan. This workshop will be held in 2020 at Fukuoka University of two days discussion and two days field excursion in large and active Volcano Aso area in middle Kyushu.
Korea National Group – 12th ARC Under Intense Preparation

The 12th ARC will be held in Seoul, Korea on September 24 – 26 in 2019. The executive meeting could be on September 21 and National council meeting could be on September 22. The organization committee has arranged pre-conference tour on September 23 and post-conference tour on September 27. The homepage will be ready and open soon. Please pay close attention to the news from the organization committee and IAEG Newsletter.

Nepal National Group—Newly established Organization NSEG serves as the National Group of IAEG

Nepalese Society of Engineering Geologist (NSEG), which was established in 2018 January, will also serve as Nepalese National Group of IAEG. Nearly 40 members joined Nepalese National Group of IAEG through Nepalese Society of Engineering Geologists.and active Volcano Aso area in middle Kyushu.

General Introduction of NSEG

Nepalese Society of Engineering Geologists (NSEG) is a professional and a scientific organization comprising members from the fields of Engineering Geology, Geology, Geomorphology, Geography, Geotechnical Engineering, Civil Engineering and Disaster Risk Management. It is recently established geoscientific organization of Nepal to promote the science of Engineering
Geology and related discipline. The NSEG will bridge between geologists and engineer in Nepal and will provide a vibrant platform for discussing and debating geotechnical and engineering geological problems and will support Nepal for the sustainable development planning.

The Society will regularly organize national/international Symposia/Seminars/Workshops in various parts of the country and will attract experts, students, professionals from related fields of Engineering Geology and Geotechnical Engineering from Nepal and abroad. NSEG will also start the training program on Engineering Geology for young professionals and will encourage them to work in international standard.

**Aim and Objective**

More detailed plan and program will be published soon on the internet, and the major aims of the society currently are as followed:

- To promote the professional works of Engineering Geology and allied sciences and their application
- To promote university courses, training programs and new technologies in engineering geology in Nepal and aboard.
- To disseminate knowledge and provide a forum for discussion of all disciplines by holding periodical meetings, seminars and symposia.
- To support various civil engineering projects of Nepal for engineering geological study through research and investigation
- To publish a journal and newsletter in the topic of Himalayan Engineering Geology
- To support IAEG for its activities in Nepal.
- To support the Government of Nepal for promotion of professional engineering geological study in Nepal.

**General Information**

Website: [www.nseg.org.np](http://www.nseg.org.np)

President and Nepalese National Group of IAEG Coordinator: Dr. Ranjan Kumar Dahal

E-mail: rkdahal@gmail.com

Tel : +977-1-4112090

Mobile : +977-9851060464/9808798877

Secretariat: Dr. Manita Timilsina

Email : manitatimilsina@gmail.com

**Nigerian National Group – Activities**

Arrangements are continuing with the 3rd Annual International Conference of the NIGERIAN ASSOCIATION FOR ENGINEERING GEOLOGY AND THE ENVIRONMENT (NAEGE) between October 7-10, 2018. To increase public
awareness of NAEGE among peoples of the host region, we embarked on pre-conference public sensitization and courtesy visits. The 1st quarter of 2018, witnessed courtesy visits to some major government establishments as follows:

1. Rivers State Ministry Of Energy & Natural Resources
2. Niger Delta Basin Development Authority (Ndbda)
3. Courtesey Visit To The Rivers State Commissioner For Works

Highlights of the President’s address to our hosts emphasized the following:

1. That all core objectives of development, including water resources development, roads and bridges, dams and tunnels are part of the core expertise and practice of Engineering Geology and NAEGE.
2. NAEGE will no longer keep its distance but close ranks and fully identify with the aspirations of government, towards contributing expert knowledge that will help achieve a sustainable environment.
3. NAEGE can assist investigates issues relating to sedimentation/Siltation of dams, especially Kainji and Jebba in the Northern part of the country which impacts on the entire region through accelerated coastal erosion in the region.
4. NAEGE questioned the poor representation of engineering Geologist in establishments which core mandates relate to development, where expertise of Engineering Geology is imperative.
5. NAEGE emphasized that Engineering geologists do not consider soil as a mere construction material but as “an aggregate of minerals with diverse behavioral responses when loaded and with behaviors capable of impacting on the sustainability of civil projects. Also, that engineering Geologist comes with a superior knowledge of soil and rock characteristic and behavior, especially when each of these materials is used as part of an engineering structure.
6. NAEGE pointed out that Natural resources exploration and exploitation from the earth requires detailed geotechnical investigations which are within the purview of NAEGE.
7. NAEGE expressed deep concern with the pervasive uncontrolled dredging activities with potential adverse consequences. Speaking further, NAEGE explained that uncontrolled extraction of sand from river channels, particularly in urban areas remain a potent threat to coastal infrastructure in the region.
8. NAEGE emphasized that all civil engineering projects, buildings, bridges, airfields, rails, canalization, land reclamation and shore protection required detailed geotechnical studies.
9. NAEGE requested the Agencies for collaboration with NAEGE in the sponsorship of the 2018 conference towards the realization of sustainable development goals and development of the region at large.
10. NAEGE President informed the ministries visited that NAEGE has commenced engineering geological mapping of Nigerian cities, starting with Port Harcourt and Lagos; a project aimed at characterizing the subgrades for construction cost optimization. The maps when completed will serve to fill the dearth of planning data that will be useful in the industrial and socio-economic development of our cities and states.
India National Group

India National Group Of IAEG is organizing a National Workshop on “Prospects and Retrospects in Engineering Geology, Geophysics and Instrumentation”. It will be held at Hyderabad, India on December 3 – 4, 2018.

About the Workshop

The workshop will address the upcoming activities associated with engineering geology and its immense societal relevance. At the same time it will also update the knowledge quotient with respect to the developments taking place in recent past. The indispensible role of the subject in mega infrastructural projects of the country with special emphasis on the engineering geological revelations in South Indian states will form the crux of deliberations in the workshop.

Workshop Theme

• Advance Geotechnical Investigation Techniques and its Challenges.
• State-of-the-art Geophysical Investigation Techniques for Deep Probing.
• Rock Support & Monitoring in tunnels and underground caverns.
• Constructing underground caverns in stable hard rock terrain of South India
• Challenges of Pumped Storage Projects
• Slope stability issues and landslides
• Challenges in maintaining good and safe construction practices

Secretary

• Indian Society of Engineering Geology (ISEG)
• Email: india.seg@gmail.com
• Websites: www.isegindia.org; www.joegindia.com

Portugal National Group – 16th National Geotechnical Congress Portugal, Azores, Ponta Delgada, 27-30 May 2018

The 16th edition of the National Geotechnical Congress (16CNG) under the theme “Geotechnics, Natural and Geotechnical Risks and Sustainability” and the 6th edition of the Portuguese–Spanish Geotechnical Conference under the thematic “Geotechnical works on volcanic terrain” took place, for the first time, at S. Miguel Island, Azores, Portugal, from May 27th to 30th 2018.

Organized by the Azorean Regional Laboratory of Civil Engineering (LREC) together with the Portuguese Geotechnical Society (SPG), this SPG’s main event, held every two years since 1985, aims to contribute to the knowledge update and experience exchange in the Geotechnical field.
For this event were submitted an impressive number of abstracts by 911 authors from 26 countries were registered, the most significant from Portugal, Brazil and Spain.

The peer-review process has led to 266 accepted communications more than half related to Engineering Geology and the Environment, as well as 6 outstanding keynote lectures by Brazilian, Italian, Spanish and Portuguese experts. In addition, over 330 participants, 25 sponsors and 12 exhibitors, Azores National Geotechnical Congress proved to be a success. A Technical Exhibition with representative geotechnical institutions and companies could be visited.

The event began with a geo-tourism tour over the island of Santa Maria. In addition to the technical sessions and keynote lectures, delegates had the opportunity to participate in 1 of 3 carefully planned technical visits in order to provide an effective proximity to the specific geological and geotechnical realities of a volcanic region such as the Azores, enriched by a sensorial experience of flavours and warm thermal waters. Young Geotechnical Engineers presented their communications in the annual meeting.

The extensive social program was carefully planned to enhance the interaction between participants and the delight of the Azores, a land of charming and hospitable people, fascinating landscapes and rich gastronomy.

Please visit the congress website: http://16cng.civil-event.pt/ to know all the conference details and a wide range of photographic memories.

Group photo of the 16th edition of the National Geotechnical Congress
Romania National Group – Activities During 2016-2017

• General Assembly, March 3th 2017, with the themes: presentation of ARGI and Director Committee activity; financial report and two scientific presentation of our members Cristina Tomșa and of the President.
• Continuous support for the "Octogon", student association for Engineering Geology associated to the Faculty of Geology and Geophysics; active members of ARGI presented in several sessions aspects of their worldwide activity and support the summer field trips.
• Organizing activities beside Romanian Society for Applied Geophysics and participation with papers to the session of engineering geology and hydrogeology of the annual national symposium “Geology and Geophysics – GEOSCIENCE 2017” organized by the Faculty of Geology and Geophysics, University of Bucharest, on 24th of November 2017 with participation of the European Association of Geoscientists and Engineers (EAGE).
• As members in the Technical Committee No. 6 “Geotechnics and Foundations”, in the Technical Committee No. 1 “Natural Hazards and Risks "of the Ministry of Regional Development and Public Administration, in the ASRO/CT 361 associated to CEN / TC 341 Geotechnical Investigation and Testing, or as Consultants in the ministerial Committee for Emergency Situations of the of the same Ministry, members of our group of engineering geology concur to elaboration of laws and regulations in these fields of activity.
• On behalf of the Romanian National Group the board of our organization advanced two official Memorandum addressed to the Minister of Regional Development and Public Administration, regarding the restriction of the access of engineering geologist at
public auctions for geological and geotechnical studies for highways, motorways, or other public works, during last several years, or to the public competitions for “technical expert” accreditation in the field of “mechanical resistance of earth structures and foundation terrains”.

**Sweden National Group – New President has been selected**

We got the news from Sweden national group that Professor Gunilla Franzén, the president of the Swedish Geotechnical Society retired in March, and Professor Victoria Svahn has been elected as the new president. The new contact information is as follows:

General Information
President: Victoria Svahn
E-mail: victoria.svahn@sbk.goteborg.se
Person in Charge: Mr. Ragna
E-mail: ragna.sgf@gmail.com
Commission 16

M.Sc. "Hydrocarbon Exploration And Exploitation" Is Calling For Applicants

Commission 16 is organizing a two-year international postgraduate course on Gas Exploitation, which is called M. Sc. “Hydrocarbon Exploration and Exploitation”. This course starts on October every year in Thessaloniki, Greece. Four Hellenic Universities are involved in this program, which are:

• School of Geology, Aristotle University of Thessaloniki (Coordination);
• School of Mining and Metallurgical Engineering, National Technical University of Athens;
• Faculty of Geology and Geo-Environment, National & Kapodistrian University of Athens;
• School of Economics, Democritus University of Thrace.

This postgraduate course is a full-time, multidisciplinary course covering a range of earth science, engineering, economics and related subjects, and their application to the exploration and exploitation/production of hydrocarbons. For this Master’s degree program tuition fees of 5,200 Euros are applied. This fee must be paid before the beginning of the 1st and the 3rd Semester (2,600 Euros).

The program enjoys close links with the Hellenic Petroleum Industry, which provides data for use in the courses, presentations to supplement course material and help the students to conduct their internships and their individual research projects with an industry host.

Moreover, Schlumberger, the leading provider of software for the international E&P industry, supports this initiative by providing academic licenses for software to be used by the students [Petrel, Techlog, GeoX, PetroMod, ECLIPSE, Merak, Petrel GPM Carbonate Simulator και Petrel GPM Clastic Simulator].

Furthermore, CMG software for reservoir simulation is available for both teaching and research interests. The following two important items should be paid more attention:

• Master students should apply as soon as possible as we have only a certain number of places,
Housing: housing becomes a problem the closer it comes to September (at the moment it should be no problem). We would like to advise the students to book housing as soon as possible at about the same time the student applies online at our Faculty.

**Registration**

Application deadline: July 31, 2018.

How to apply: send application to hydrocarbons@geo.auth.gr

Click the link of: [http://hydrocarbons.geo.auth.gr/?p=1205&lang=en](http://hydrocarbons.geo.auth.gr/?p=1205&lang=en)

This deadline represents the latest date that a student may begin his application procedure. The Selection Committee will provide a final ranking list of eligible applicants through an objective selection procedure.

Please check the link below for detailed information:


**General Information**

Homepage: [http://hydrocarbons.geo.auth.gr/](http://hydrocarbons.geo.auth.gr/)

Coordinating School: School of Geology, Auth, Greece

Contact Tel: +30-2310-998514

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**Commission 29 – Activities**

C29 has made following progress in the past year.

1. For physical reasons, Professor Hu RuiLin proposed to no longer serve as chairman of Commission No.29. Dr. Shengwen Qi was appointed as the chairperson of Commission No. 29 from December 1st, 2017.

2. There are 16 new members joined in Commission No.29, the number of members increased to 47 from 31.

3. One workshop of Commission No.29 is in schedule to be held in Beijing in October, 2018.

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**Commission 36 – Activities**

1. Commission 36 Jointly work with Zhejiang University, the Chinese Institution of Soil Mechanics and Geotechnical Engineering, the Hongkong Geotechnical Society, the TC 215 Environmental
2. Commission 36 are editing a Special Issue of Engineering Geology on “Engineering Geological problems related to unsaturated soils in waste disposal” to be published early next year (2019).

3. Commission 36 Organized a special session “Unsaturated Soils in Waste Disposal and CO2 storage” in “China‐Europe Conference on Geotechnical Engineering (Aug 13‐16, 2018, Vienna, Austria)”. Thirteen papers were received all over the world. Special Session is organized under the auspices of the Commission for Waste Disposal (C36) under the International Association for Engineering Geology and the Environment (IAEG).
The XIII IAEG Congress is drawing near. Have you finished registering? If not, please click https://www.aegannualmeeting.org/registration for registration. Be sure to join us this September. The 2018 Technical Program Committee has prepared an outstanding technical program for the AEG2018/IAEG XII Congress. Experts from around the world will be presenting.

The XIII IAEG Congress is is still accepting poster abstracts. Please click http://aegpapers18.maniacmonkeymedia.com/ for submitting. The website is available in multiple languages – choose alternate language using the box in the upper right corner of the page. Please log with your AEG username and password.

Username: aeg
Password: sanfrancisco2018

Technical programs are arranged during the congress, from September 17 to 21. There is no Technical Sessions on September 19, instead, there is a All Day Field Course (included in registration fee for all full and three day registrations). The detailed technical information is as shown below.

**Monday, September 17, 2018 - 2:00-5:00pm**

Technical Session #1: Dam Symposium Part I

Technical Session #2: Geology in the Community Symposium

Technical Session #3: Environmental Characterization of Minerals & Pipe Erosion Modeling

Technical Session #4: Landslide Inventory and Susceptibility Mapping

Technical Session #5: Aggregates Symposium

Technical Session #6: Tunnel Symposium Part I

Technical Session #7: Seismogenic Landslide Hazards

Technical Session #8: Quantifying Climate Change

Technical Session #9A: Mineralogy / Rock Mechanics

Technical Session #9B: Geochemical / Water Contamination
Tuesday, September 18, 2018 - Morning - 9:20am-12:00pm

Technical Session #10: Dams Symposium Part II

Technical Session #11: Lidar/Technology: Landslide Application of Unmanned Aerial Vehicles (UAV) - Part I

Technical Session #12: Landslides and Infrastructure

Technical Session #13: Symposium - Landslides and Society: Hazards, Risks, and Communication

Technical Session #14: Tunnel Symposium Part II

Technical Session #15 Engineering Geology of Mélanges, Bimrocks and Soil/Rock Mixtures Symposium Part I

Technical Session #16: Naturally Occurring Asbestos Symposium Part I

Technical Session #17: Geotechnical/Site Characterization for Infrastructure: High Speed Rail, High Rise Buildings, Bay Mud, Coastal Development - Part I

Tuesday, September 18, 2018 - Afternoon - 1:40pm-4:40pm

Technical Session #18: Dam Symposium Part III


Technical Session #20: Lidar/Technology: Landslide Application of Unmanned Aerial Vehicles (UAV) - Part II

Technical Session #21: Symposium - Landslides and Society: Hazards, Risks, and Communication: Part II

Technical Session #22: Tunnel Symposium Part III

Technical Session #23A: Engineering Geology of Mélanges, Bimrocks and Soil/Rock Mixtures Symposium Part II

Technical Session #23B: Miscellaneous Geological

Technical Session #24: Naturally Occurring Asbestos Symposium Part II

Technical Session #25: Geotechnical/Site Characterization for Infrastructure: High Speed Rail, High Rise Buildings, Bay Mud, Coastal Development - Part II

Thursday, September 20, 2018 - Morning - 9:20am-12:00pm

Technical Session #26: Rockfall I: Case Histories and Hazard Studies
Technical Session #27: Landslide Case Histories and Field Methods I

Technical Session #28: Oroville Dam Symposium Part I

Technical Session #29A: Professional Development

Technical Session #29B: Debris Flow and Steep Creek Hazards Symposium

Technical Session #30: Environmental: Site Characterization, Soil and Groundwater Contamination / Remediation Part I

Technical Session #31: Land Subsidence Part I


Technical Session #33: Naturally Occurring Asbestos Symposium Part III

**Thursday, September 20, 2018 - Afternoon - 2:00pm-5:00pm**

Technical Session #34: Rockfall II: Emerging Technology and Mitigation

Technical Session #35: Debris Flow and Steep Creek Hazards Symposium

Technical Session #36: Oroville Dam Symposium Part II

Technical Session #37: Land Subsidence Part II

Technical Session #38: Education, Professional Licensure, Practice Standards and Guidelines: The American Experience Part II

Technical Session #39: Emergency Response to Natural Disasters

Technical Session #40: Naturally Occurring Asbestos Symposium Part IV

Technical Session #41A: Environmental: Site Characterization, Soil and Groundwater Contamination / Remediation Part II

Technical Session #41B: Loess

**Friday, September 21, 2018 - Morning - 9:20am-12:00pm**

Technical Session #42: Landslides Monitoring and Prediction

Technical Session #43: California Earthquake Clearinghouse & Mini-Drill for Emergency Response

Technical Session #44: Getting the Geology Right – the Practical Application of Engineering Geology Models Part I

Technical Session #45: Dam Symposium Part IV
Technical Session #46: Hydrogeology

Technical Session #47: Mining, Mine Reclamation Part I

Technical Session #48: Earthquakes/Faulting: Ground Motion/Rupture - Part I

Technical Session #49: Coastal Hazards: Marine & Coastal Processes Symposium

**Friday, September 21, 2018 - Afternoon - 1:40pm-3:40pm**

Technical Session #50: Landslide Case Histories and Field Methods II

Technical Session #51: Dam Symposium Part V

Technical Session #52: Getting the Geology Right – the Practical Application of Engineering Geology Models Part II

Technical Session #53: Mining, Mine Reclamation Part II

Technical Session #54: Earthquakes/Faulting: Ground Motion/Rupture - Part II

Technical Session #55: Technology

Technical Session #56: Soils / Soil Amendments for Foundations & Infrastructure

Technical Session #57: Karst
Amsterdam, Netherlands, August 13 – 14, 2018

International Conference on Earth Science & Geo Science

Scientific Federation like to take this opportunity to welcome all of you to International Congress and Expo on Earth Science & Geo Science which is to be held during August 13-14, 2018 Amsterdam, Netherlands. Through our theme ‘Stimulating and Analyzing the Changes of Earth & Climate’ the conference will analyze the recent advancements and new modes that can be enforced to the research to take Earth Science & Geo Science, one step further.

Conference Date: August 13 – 14, 2018
Venue: Hyatt Place Amsterdam Airport Rijnlanderweg 800, Hoofddorp, 2132NN

Registration: Standard Registration on/before July 22, 2018, more information by https://scientificfederation.com/earth-science-2018/registration.php

Conference Objectives
• To facilitate opportunities for networking, collaboration and exchange of ideas with internationally renowned leaders in Earth Science & Geo Science.
• To identify research and practice based innovations in optimizing Earth Science & Geo Science.
• To debate gaps and priorities for sustainable development in optimizing Earth Science & Geo Science.
• To discuss and debate the challenges and opportunities in the new era of optimizing Earth Science & Geo Science reforms.
• To identify opportunities for evidence-based practice in optimizing Earth Science & Geo Science.

Contact Information
E-mail: earth_science@scientificfederation.com

Scientific Session
The Scientific Federation brings you an immense opportunity to be a part of scientific acceleration to world class personalities, young scholars, scientific delegates and young scientists to join in this forum to utilize the expertise and novelties that brings a new era for innovations in the fields of Earth Science & Geo Science which brings well versed scrutinizers at one place. It provides a platform to have open discussions, knowledge sharing and interactive sessions with field experts at Earth Science & Geo Science -2018. The participants are required to submit a brief idea or abstract according to their session interest by following the template as shown in https://scientificfederation.com/earth-science-2018/#cfa.

Shanghai, China, August 18 – 19, 2018
The First International Symposium on Seismic Performance and Design of Slopes

Earthquake-induced landslides were always numerous, widespread, and catastrophic. For the seismic design method of slope, it has developed from empirical design, specification design based on pseudo-static method, into performance based design. However, there are still many challenges in the seismic design of slope, such as uncertainties in the seismic design, dynamic behaviors of soil and slopes subjected to earthquake, improvement and innovation of seismic design method, etc.

In order to prevent and mitigate the landslide disaster triggered by earthquake, the First International Symposium on Seismic Performance and Design of Slopes aims to bring together academic scientists, leading engineers, and students to exchange and share their experiences and research results.

Conference Date: August 18-19, 2018
Venue: Sino-French Center, Tongji University, 1239 Siping Road, Shanghai, P.R.China

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Website: http://geotec.tongji.edu.cn/Show.aspx?info_id=1424&info_lb=328&flag=190

Themes
• Uncertainty sources of seismic design of slopes
• Dynamic behaviors of slope subjected to earthquake
• Performance-based seismic design method of slopes
• Prospect to the seismic design of slopes in future
• Practice of seismic design in major slope projects

**Registration fee**

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**Fisciano, Italy, September 3-14, 2018**

**LARAM School 2018**

LARAM is an International School on "Landslide Risk Assessment and Mitigation", which is initiated by the Geotechnical Engineering Group (GEC) of the University of Salerno.

The two-week long school is aiming at selecting 40 Ph.D. students to attend the residential courses, among those working in the field of Civil Engineering, Environmental Engineering, Engineering Geology or those who are with a similar Engineering background. The courses include formal lessons, tutorials and field training.

**Selection of LARAM 2018**

The selection will be based on an evaluation of the candidate's curriculum - including academic performance, previous research experience and publications - and on the content of the recommendation letter(s) in relation to the PhD year, field of expertise and research topic. The list of the selected students will be issued by 22 June 2018.

**School Date:** September 3-14, 2018

**Venue:** the Campus of the University of Salerno

(Via Giovanni Paolo II, 132, 84084 Fisciano SA, Italy)


**School Program**

• Introduction to landslides and LARAM Lecture,
• Landslide risk theory,
• Landslide triggering factors,
• Landslide modelling,
• International experiences
• Landslide risk analysis and zoning,

**Application**

<table>
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<tr>
<th>Candidate Participants</th>
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<th>5 Registered Young Doctors</th>
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<td>Application Form</td>
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<td><a href="http://www.laram.unisa.it/school/2018/registration_young_doctors">Link</a></td>
</tr>
</tbody>
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**Prague, Czech Republic, September 3 – 7, 2018**

**WMESS 2018 - 4th World Multidisciplinary Earth Sciences Symposium**

The main mission of the "World Multidisciplinary Earth Sciences Symposium - WMESS" is to lead to contribute in multidisciplinary studies related with atmosphere, biosphere, hydrosphere, lithosphere and pedosphere of the Earth and interaction of the human with them. As another mission it will provide a forum for this diverse range of studies which report very latest results and document emerging understanding of the Earth’s system and our place in it.

Conference Date: September 3 – 7, 2018

Venue: Hotel Duo (Teplicaka 492, 190 000 Praha 9)

**Contact Information**

World Multidisciplinary Earth Sciences Symposium

Email: symposium@mess-earth.org

Website: [http://www.mess-earth.org/](http://www.mess-earth.org/)

**WMESS Aims**

• to provide a forum for discussion of the latest findings and technologies in different fields of Earth Sciences
• to give opportunities for future collaborations
• to be a platform for sharing knowledge and experiences in the fields of Earth Sciences
• to lead for providing a forum for early career researchers for presentation of their work and discussion of their ideas with experts in different fields of Earth Sciences

**Registration**

Please click [https://www.mess-earth.org/module.html](https://www.mess-earth.org/module.html) for registration.

**Topics**

• Tectonics & Structural Geology
• Engineering Geology
• Geotechnics
• Hydro-Hydrogeological Sciences
• Natural Hazards
• Oil, Gas & Coal
• Geothermal Energy
• Geomorphology
• Geochemistry, Mineralogy, Petrology & Volcanology
• Stratigraphy, Sedimentology & Palaeontology
• Geophysics & Seismology
• Geodesy, Photogrammetry & Cartography

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**Singapore, October 29-November 3, 2018**

10th Asian Rock Mechanics Symposium

The 10th Asian Rock Mechanics Symposium cum the ISRM International Symposium for 2018 will be held from October 29 – November 3, in Singapore. The theme for ARMS 10 is “Rock Mechanics in Infrastructure and Resource Development”.

ARMS 10 Singapore 2018 offers an ideal opportunity and platform
for professionals from the international rock mechanics community to exchange experiences and new ideas. In addition, we will organize training courses, workshops, technical visits, exhibitions, as well as social programs. We will also offer attractive programs for young researchers and students, such as the Rock Bowl, student nights, and some scholarships for selected young researchers.

Conference Date: October 28 – November 3, 2018
Venue: Suntec Singapore Convention & Exhibition Centre
1 Raffles Boulevard, Suntec City, Singapore 039593

**Topics**
- Rock property and rock mass characterization
- Rock dynamics
- Mining engineering
- Rock tunnel and caverns
- Numerical modelling and design methodologies
- Environmental impact and risk assessment in rock engineering
- Site investigation and monitoring
- Smart technologies in mining and rock engineering
- Special rock engineering projects and case studies
- New frontiers in rock mechanics/engineering

**Contact Information**
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Phone: +65-6472 3108 Email: ARMS10@meetmatt.net

**Fees and Registration**

<table>
<thead>
<tr>
<th>Registration</th>
<th>If Paid By 17 Sep 2018</th>
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<tr>
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<td>SGD 480</td>
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</table>

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