



IAEG

NEWSLETTER

Issue No.4,2021
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Electronic Version

Cover Story



This photo is a view of the Southern Fortescue River valley taken from near the summit of Mt Bruce, located in Karijini National Park which is in the Pilbara region of Western Australia. The Pilbara Basin is a major iron ore province which hosts an Archean to Paleoproterozoic volcanic and sedimentary sequence including extensive intervals of banded iron formation, mineralised to martite-goethite and hematite ore. Iron ore is Australia's single largest commodity export with more than 30 open pits mines currently operating in the Pilbara. Engineering geology plays a major role in mining and associated infrastructure development in the Pilbara, including feasibility studies to mine operations and mine closure design. Around Australia it is estimated upwards of around 50% of engineering geologists are employed directly by mining companies or working on mining projects as consultants.

Provided by Mark Eggers

Past IAEG Vice-President (Australasian region)



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Edited by the IAEG Secretariat, Shaoxing, China

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01

NEW YEAR ADDRESS FROM IAEG PRESIDENT



Dear Friends, Colleagues, Members of IAEG, Ladies and Gentlemen,
Now, that a new year has begun, I would like to take this opportunity to address few words of appreciations to IAEG members.

The last year was marked by Covid19 lockdowns and travel restrictions. We had to comply with the new living circumstances and adjust our IAEG activities to the new situation. Although it was not easy to deal with this new situation we could perform our IAEG activities with the help of our National Groups. Online meetings have become a valuable tool in this process.

I do not want to list our achievements in 2020 in this message, as they all listed in my annual report. Here, I would like to express my appreciation for all achievements and accomplishments in the Executive Members, Council, National Groups, and individual members.

Just like every new year, we all expect new aspirations and projects in 2021. We continue our strife for success, prosperity, and relentless work toward our association wishing that the new dawn becomes a year of better performance with the awesomeness of all IAEG members.

The new year is a chance to continue our performance and to pounce on new opportunities to enhance our IAEG services and to grow. Let us go hand in hand altogether as a team to achieve our targets. This year has lots of projects, tasks, and goals. No matter how many goals we set, they can be achieved only if we unify our efforts and work together.

One milestone in 2022 is the IAEG Congress in September in Chengdu, China. We all are looking forward to this great event, especially because new Executive and IAEG president will be elected. Our thanks go to the Chinese National Group who organized this congress.

Thank you for making IAEG what it is now. Thank you for your support and dedication toward IAEG. I appreciate you all for all achievements in the last years. Our success is defined by your hard work and we dedicate our growth to you. We all set a journey into this new year with great hopes and million dreams.

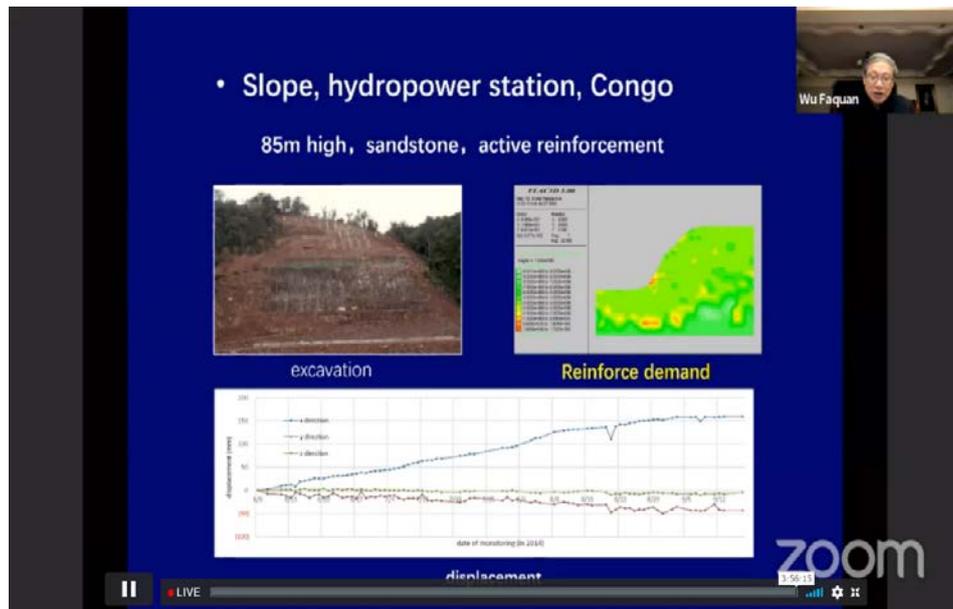
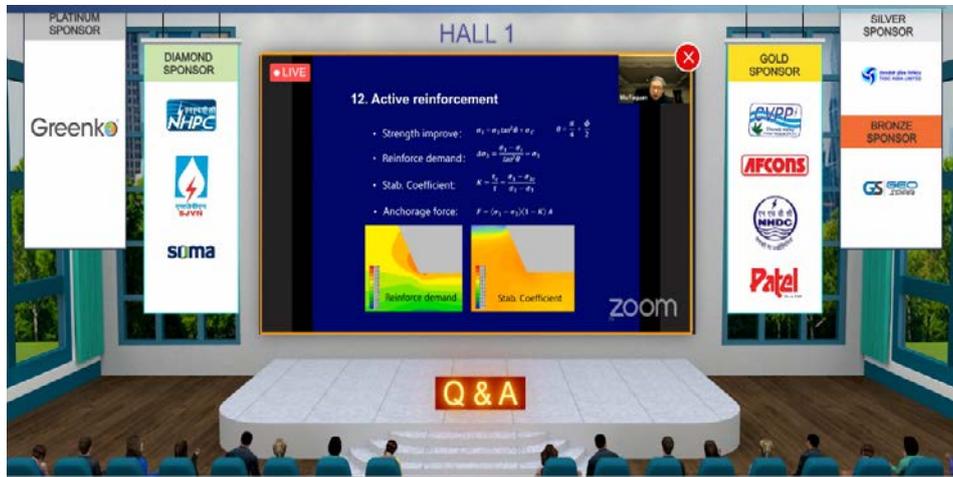
I wish all a very happy New Year, may this year to be safe for everyone and bring to all of us joy, happiness, peace, and prosperity.

Cheers

Rafiq Azzam

The Secretary General Faquan Wu and Editor in-chief attended EGCON-2021

The Secretary General Faquan Wu and Editor in-chief Louis Wong have been invited to attend the International Conference EGCON-2021 and give keynote lectures. The International Conference EGCON-2021 was organized by the Indian National Group through virtual platform on December 9-11th, 2021 with the theme “Recent Advances in Geotechnics”. Faquan Wu gave the lecture with theme “Statistical Mechanics of Rock Mass--Theory and Application” and Louis Wong gave lecture with theme “ Insights gained from discrete element modelling of rocks” .The conference covered a wide spectrum of themes to discuss various geological and geotechnical challenges being faced during construction stage of infrastructure projects. The Chairman of EGCON 2021 S. L. Kapil greatly appreciates the supports from Secretary General and Editor in-chief to this conference.





CALL FOR NOMINATIONS OF STA-IAEG

IAEG Secretariat is now calling for nominations of Science and Technology Awards of IAEG (STA-IAEG), which are awarded biennially. The first STA-IAEG will be awarded at the occasion of the IAEG XIV Congress 2022 in Chengdu, China on September 14-20, 2022. The President of IAEG has shown his strong support on this award and given a President's address for the STA-IAEG.

The nominations should be submitted to the Secretary General by the deadline requested in the notification. For more information and guidelines for the STA-IAEG nomination, please refer to the Ordinance of S-T Awards of IAEG. If you have any questions about the STA-IAEG Nomination, just feel free to contact iaegsg@163.com.

Link of the Ordinance of S-T Awards of IAEG:

<https://www.dropbox.com/s/t8d7nf92cvct3l5/Ordinance%20of%20S-T%20Awards%20of%20IAEG.pdf?dl=0>

Application form:

<https://www.dropbox.com/scl/fi/x2k3yferm63ntlw9gsmhw/Application-Form-of-STA-IAEG.doc?dl=0&rlkey=zikr8ui4r9hez1ozcx39ilvl1>

Brief Introduction on STA and IRP

As one of the leading academic societies, IAEG is containing huge superiority in excellent membership in many NGs and RGs around the world, persistent high quality academic activities, influential website and high index official journal and so on.

In Statue, IAEG is aiming in promoting and encouraging the advancement of Engineering Geology through technological activities and research. Therefore, Science and Technology Awards of IAEG (STA-IAEG) and International Research Program of IAEG (IRP-IAEG) were initiated in IAEG Council meeting on September 23, 2013, Beijing, China, and approved in IAEG Council meeting on September 14, 2014, Torino, Italy.

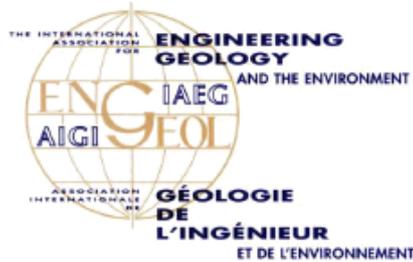
STA-IAEG is aiming at promotion of the development of the engineering geology discipline, awarded biannually, includes two separate prizes: the Academic Achievement Award (AAA) and the Technology Progress Award (TPA). The AAA is awarding outstanding new developments in understanding and the TPA is awarding innovative new methods, new technologies, new processes, new software, new materials or new equipment in the field of engineering geology and the environment.

IRP-IAEG is intended to comprise several international research projects focusing on the theme, suggested and selected by IAEG Executive Committee in the purpose on the promotion of the development of the discipline of Engineering Geology. The IRP-IAEG is conducted through the IAEG Commissions. Any project can be proposed under the program, but generally no more than 5 projects will be active over the same period. The maximum duration of each research project is 4 years.

On August 3 2021, IAEG President Prof. Rafiq Azzam made the president's address on the First Science and Technology Awards of IAEG (STA-IAEG), awarding the outstanding achievements of engineering geological activities on a world wide basis. A call for STA-IAEG has been issued,

the award result will be announced in April, 2022 and the award ceremony will be hosted at the occasion of the IAEG XIV Congress 2022 in Chengdu, China, September 14-20, 2022.

IRP-IAEG will be launched about April in 2022, with the theme "Engineering Geology and Habitable Earth". The contest and award ceremony of IRP-IAEG will be hosted at the occasion of the IAEG XIV Congress 2022 in Chengdu, China, September 14-20, 2022.



President:	Prof. Rafiq Azzam
Past President:	Prof. Scott Burns
Secretary General:	Prof. Wu Faquan
Treasurer:	Dr. Jean-Alain Fleurisson
Vice Presidents	
Africa:	Prof. Tamunoene Kingdom Abam
Asia:	Prof. Huiming Tang
	Prof. Bo-An Jang
Australasia:	Mr. Doug Johnson
Europe:	Dr. Vassilis Marnos
	Prof. Eugene A. Voznesensky
North America:	Prof. Jean Hutchinson
South America:	Mr. Norberto Jorge Bejerman

PRESIDENT'S ADDRESS ON INTERNATIONAL RESEARCH PROGRAM AND SCIENCE AND TECHNOLOGY AWARDS OF IAEG

Dear IAEG members, colleagues and friends,

The IAEG is pleased to announce the first start of the applications of International Research Program (IRP) and Science and Technology Awards (STA). We have very high expectations for IRP and STA on the purpose to encourage the advancement of Engineering Geology through supporting research program and awarding the outstanding achievements of engineering geological activities on a worldwide basis.

At such significant moment, I would like to express my sincere thanks for the involvement of our Past Presidents, our members of Executive Committee and Council meeting, as well as for the strong commitment of Secretary General.

In the future, the IAEG will firmly keep up with the times and promote the development of the discipline of Engineering Geology, playing a more important role in the scientific and technical achievements.

Finally, I wish all of IAEG members, colleagues and friends good health and happiness in life!

Professor Rafiq Azzam
President of IAEG
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MEMBERSHIP UPDATE 2021

By December 30, 2021, the number of IAEG memberships is 4436 from 69 national/regional groups, 1767 with Bulletin, 2649 without Bulletin. The Bulletin will be delivered to the members through the email address provided by the national groups.

VP	No.	NG	total	With B.	Without B.	Associate members	
Doug Johnson	1	Australia	335	151	183	1	
	2	New Zealand	457	173	284	0	
Vassilis Marinos	3	Albania					
	4	Austria	20	10	10	0	
	5	Bulgaria	10	7	3	0	
	6	Croatia	24	6	18	0	
	7	Cyprus					
	8	France	91	50	30	11	
	9	Georgia	16	1	15	0	
	10	Greece	92	23	69	0	
	11	Hungary					
	12	Italy	95	85	10	0	
	13	Portugal	66	38	27	1	
	14	Romania	18	0	18	0	
	15	Serbia					
	16	Slovenia	27	17	10	0	
	17	Spain	35	35	0	0	
	18	Switzerland	66	66	0	0	
	19	Turkey	116	0	116	0	
	Eugene A. Voznesensky	20	Belorussia	6	3	3	0
		21	Netherlands	30	30	0	0
22		Lithuania					
23		The United Kingdom	384	384	0	0	
24		Belgium	68	31	37	0	
25		Czech Republic	25	11	14	0	
26		Denmark					
27		Estonia					
28		Finland					
29		Germany	468	41	427	0	
30		Iceland					
31		Ireland					
32		Norway					
33		Poland					
34		Russia	85	30	55	0	
35		Slovak Republic	7	3	4	0	
36		Sweden					
37		Kyrgyzstan	1	1	0	1	
38		Uzbekistan					
Tamunoene Kingdom Simeon Abam	39	Algeria					
	40	Nigeria	82	29	53	0	
	41	South Africa	208	3	205	0	
D. Jean Hutchinson	42	Canada	105	94	11	0	
	43	USA	152	0	152	0	

Norberto Jorge Bejerman	44	Argentina	15	15	0	0
	45	Bolivia	15	12	3	0
	46	Brazil	24	15	9	0
	47	Chile	30	9	21	0
	48	Colombia	13	12	1	0
	49	Costa Rica	18	13	5	0
	50	Mexico	5	5	0	0
	51	Paraguay				
	52	Peru	11	6	5	
Bo-An Jang Huiming Tang	53	Bangladesh	61	3	58	
	54	China	585	227	358	
	55	Chinese Taipei	60	9	51	0
	56	HongKong SAS	7	4	3	0
	57	India	64	25	39	0
	58	Indonesia				
	59	Iran				
	60	Iraq	14	0	14	0
	61	Japan	73	61	6	6
	62	Korea	79	0	79	0
	63	Malaysia				
	64	Mongolia	12	3	9	0
	65	Myanmar				
	66	Nepal (NGS)	130	0	130	
		Nepal (NSEG)	128	2	126	0
67	Singapore	83	3	80	0	
68	SEAGS	7	7	0	0	
69	Vietnam	32	6	26	0	
Individual Member			10	8	2	0
Associate Member			1	0	0	0
Total			4436	1767	2649	20



CO-OPERATION WITH SISTER SOCIETIES

Invitation for IAEG to Interact with IGS in Toronto

The North American Chapter of IGS is planning for the 5th Pan-American Regional Conference on Geosynthetics (GeoAmericas 2024) in Toronto. This event will be hosted around April 28 - May 1, 2024 or May 12 - 15, 2024 with IGS Council meeting dates potentially on either side.

Ms. Chris Kelsey, the senior editor of Geosynthetica is managing the conference on behalf of IGS North America. They hope that IAEG can be a supporting organization for the event. They are planning to arrange some activities, such as a space for an IAEG meeting, an IAEG - IGS or FedIGS meeting, a technical forum linking the organizations, etc.

They take this event as a great opportunity to strengthen bonds between their groups. The North American Vice President of IAEG is welcomed, and a line of communication is anticipated.

Invitation for Sister Societies to attend the 2022 IAEG Congress

In order to promote the collaborations and enhance academic exchanges between sister societies, IAEG has invited sister societies to attend the 2022 IAEG Congress. Sister societies IGS, ISRM, ISSMGE and ITA have gladly accepted our invitation. The organizing committee of the congress have sent invitations to sister societies to propose proper speakers to give plenary speech at our 14th congress on behalf the societies. The invited plenary speeches will be based on the theme of Congress "Engineering Geology for a Habitable Earth", IAEG sincerely appreciates the strong supports from sister societies to our 14th Congress.

Election of the next President of FedIGS

The FedIGS Board is going to have the election of the next President of FedIGS Board, president Xia-Ting Feng has triggered the procedure of election, a suggested election procedure for FedIGS president which was used for the last election 4 years ago has been approved by all board members. The Nomination and Election Committee (NEC) to proceed with the election of the next president of FedIGS consists of the secretary general of the IAEG, ISRM, ISSMGE, and IGS, president Xia-Ting Feng has invited Dr. Luís Lamas, the Secretary General of ISRM to lead the NEC. The board members will send nominations to NEC by March 31st, 2022 and NEC collects ballots by June 15th, 2022. The final result of the election will be announced by NEC when the procedure is done no later than June 30th, 2022. The President starts the 4-year presidential term in September 2022 at the FedIGS Board meeting which will be host by IAEG during the 14th IAEG Congress in Chengdu, China September 14-20th, 2022.

CANADA

The Premier Engineering Geology Award in Canada – The Thomas Roy Award - Spotlight on Recent Recipients



Dr. Davide Elmo
2021 Recipient



David Wood
2020 Recipient



Dr. Nicholas Vlachopoulos
2019 Recipient

The Thomas Roy Award is the premier Engineering Geology Award in Canada. It is administered by the Engineering Geology Division within the Canadian Geotechnical Society (CGS) and is awarded annually at the award banquet as part of the CGS's annual conference. The award honors the memory of Thomas Roy who may well have been North America's first engineering geologist. The award was established in 1982 by CGS. It is presented to "*honor an outstanding contribution to the field of Engineering Geology in Canada*". As per the CGS's website, eligible persons for the award are individuals that reside in Canada and who contribute to the field of Engineering Geology in Canada through a landmark publication that has had important and lasting impact on the field; or a recent publication which represents an outstanding contribution to engineering geology, his/her excellence along his/her career, or his/her involvement in the promotion of Engineering Geology in Canada (for example in the education for Engineering Geology). More information concerning the award can be seen at https://www.cgs.ca/division_engineering_geology.php

A summary of the background, activities and accomplishments of deserving individuals who most recently won this coveted award appear below. Additional past recipients are summarized in the document within the following link:

<https://cgs.ca/pdf/CGS%20Awards%20and%20Honours%20Past%20Recipients%20February%202019%20FINAL.pdf>

Davide Elmo, 2021 Thomas Roy Award Winner



Davide Elmo is originally from Bologna (Italy). He was born in a maternity hospital which first opened its doors in the 13th century, surrounded by medieval buildings and towers. The Asinelli and Garisenda towers in Bologna may not be famous as their cousin from Pisa, but they share “similar inclinations” and foundations problems. He grew up in a very small village outside Bologna that the Romans used as military outpost and lived in a house built at that time when Baroque music was popular in Europe. Davide has lived and worked in 4 different countries, Italy, UK, Ireland and for the past 15 years in Canada (if he could choose a fifth country, it would be Israel). His dream as a little boy was to pilot F-104 Starfighters, which at the time he could see flying low on the deck

above his house. Growing up, his passion changed to geology and natural sciences, which would eventually lead him to a career in Engineering Geology. In his free time, he enjoys reading books about history (not surprisingly), philosophy and risk analysis, and building Lego Technic sets (which he needs to hide from his two small kids). Few years ago, he met his beautiful wife, who is from Beijing (China); geographically his life journey now includes 3 continents. On the work side, he graduated from the University of Portsmouth (UK) with a B.Eng (Hons) in Engineering Geology and Geotechnics, followed by a PhD in Geomechanics from the University of Exeter (UK). He spent two and a half years as a postdoctoral fellow At Simon Fraser University in Vancouver working under the supervision of Prof. Doug Stead (a past Thomas Roy Recipient himself). There is no doubt that working with Prof. Stead positively shaped his career. He joined the NBK Institute of Mining Engineering in 2021, where he teaches and researches in the field of engineering geology and rock engineering. His main areas of research include advanced numerical modelling of rock engineering problems, mining methods and discrete fracture network models. He has been fortunate to combine his numerical modelling experience with field work, including geotechnical discontinuity mapping in room-and-pillar operations, open-stope operations, and large open pit mines. Recently, he has been researching applications of information theory, machine learning and engineering philosophy to rock engineering, with a focus on the cognitive biases that are associated with inductive forms of engineering design. In analogy with behavioural economics, he has introduced the term “behavioural rock engineering”, which refers to the study of the impact of cognitive factors on engineering design decisions based upon a resistance to change and improvement of empirical systems that use qualitative assessments rather than quantitative measurements. Other areas of research include risk analysis applied to rock engineering, including dam foundations, tunneling, and underground repository of energy waste. If he had to choose a key moment in his education/career as an engineering geologist, he would say that would be the time he had the opportunity to meet Dr. Hoek (one of the fathers of rock engineering) in his office at UBC. As a student in the U.K. learning rock engineering on Dr. Hoek’ books he would never have imagined that one day he would have had the opportunity to actually discuss rock engineering problems with him.

For more information please visit: <https://mining.ubc.ca/person/davide-elmo/>

David Wood, 2020 Thomas Roy Award Winner



When Canadian Pacific (CP) Rail has a rockfall along Lake Superior who do they request to come and check it out? If Brookfield Renewable is planning revisions to the slope stabilization above a dam site, who do they ask for help? If a homeowner has subsidence in their backyard that turns out to be an old mine, or the homeowner's land is steeply sloped, who is called to site? The answer is David Wood.

David Wood is the founder of award-winning

David F. Wood Consulting Ltd., Sudbury, Ontario. He is an enthusiastic engineer who helps civil and mining engineering clients with issues in engineering geology and rock engineering. While past projects have been in North and South America, Europe, Australia and Asia, many of his current clients are in Ontario. Most of his recent professional experience requires a visit to evaluate the rock mass at a site, carry out an engineering geological assessment at the site followed by design, and report preparation.

For almost five years, David visited Niagara Falls weekly professionally collaborating with the Austrian design team for the 10 km-long Niagara Tunnel Project; built using a 14.4 metre diameter hard rock tunnel boring machine for OPG.

David has over 40 years experience of "riding the rails", carrying out annual inspections along the tracks in Eastern Canada and the US that were built over 100 years ago for Canadian Pacific, looking for areas where rockfall activity could have an impact on business. David has also worked closely with the Ministry of Transportation Ontario, on rockfall hazard assessment and rock engineering. He co-authored "RHRON: Ontario Rockfall Hazard Rating System – Field Procedures Manual, MERO-043" which is used as the standard for assessing rock slopes for all highways in Ontario.

David is passionate about the Canadian Shield and loves spending time at his Northern Ontario cottage with family and friends. He also enjoys scuba diving in the Caribbean, touring the Atlas Mountains in Morocco, and chatting in Spanish to whoever will listen. As retirement approaches, puttering and pondering are taking over from engineering.

Nicholas Vlachopoulos, 2019 Thomas Roy Award Winner



Originally from Markham, Ontario, Canada, Dr. Nicholas Vlachopoulos earned his Bachelors of Civil Engineering and Masters in Geotechnical Engineering at the Royal Military College (University) of Canada and completed his PhD at Queen's University within the Geological Engineering Department.

He is currently a Professor of Civil Engineering at the Royal Military College of Canada, Cross-Appointed at Queen's University and is a Director at the Queen's - RMC GeoEngineering

Center (<http://www.geoeng.ca/>). He is also the Founder and Director of the RMC Green Team that addresses Sustainable Infrastructure and Environmental Engineering issues within the Canadian Department of National Defence.

He specializes in the optimization of support systems of underground works, rock mechanics, geotechnical monitoring and military sustainability. He uses physical testing and/or field scale observation combined with analytical techniques in order to improve the state of art. Most recently, he has developed a sensing technique using fiber optics in order to determine the behaviour and performance of ground support elements. Having a spatial resolution of 0.65 mm, this technique allows for unprecedented insight into the strain profile of structural support elements. This resolution is akin to having a strain gauge placed at 0.65 mm intervals along a particular support element (i.e. rock bolts, spiles, forepoles, steel sets etc.).

Dr. Vlachopoulos is a Professional Engineer in Canada and the European Union with over 25 years of experience in civil engineering and geotechnical engineering and project management for large construction and research projects. He has worked at more than 130 locations nationally (Canada) and internationally. He is also an active consultant within Geologos Inc. Nicholas has recently been named as a Fellow in Engineers Canada with the designation FEC.

Nicholas is the immediate past Canadian Representative of the International Association for Engineering Geology and the Environment (IAEG), immediate past Chair of the Engineering Geology Division of the Canadian Geotechnical Society (CGS) and an Executive Member and Secretary of the Canadian Geotechnical Foundation (CFG).

CHINA

The 3rd Badong International Geohazards Symposium

The 3rd Badong International Geohazards Symposium was held at China University of Geosciences from November 26 to 28, 2021, both online and offline. The symposium was organized by the Department of Geosciences of the National Natural Science Foundation of China, the International Association of Engineering Geology and Environment (IAEG), China University of Geosciences (Wuhan) and other institutes. Vice President of IAEG Huiming Tang, Professor Bo-an Jang and Vassilis Marinou, YEG committee member Changdong Li, Academicians of Chinese Academy of Sciences Jianbing Peng and Jun Xia, and other experts and scholars in related fields attended the symposium.

With the theme of "*Scientific Observation and Prevention of Reservoir Geohazards*", this symposium is composed of five parts: *Science Education of Geological Disaster Prevention and Control, Training of New Technologies for Geological Disaster Fine Modeling, Analysis and Evaluation, Academic Report of The Conference, Branch Discussion and Symposium Exhibition Board Competition*. A total of 20 special invited reports of the conference, 74 branch venue reports (including 24 branch venue invitation reports), 51 conference display boards, 4 new technology training and 3 popular science reports were arranged. Experts, scholars, technicians and postgraduates in the field of engineering geology from 22 countries and regions such as China, the United States, Germany, Italy, Austria, Norway, Greece, South Korea and the Czech Republic focus on the evolution process of geological disasters, new technologies for geological disaster observation, big data and artificial intelligence of geological disasters, geological disaster prediction. Conduct extensive and in-depth academic discussions on five topics including geological disaster prevention and control technology, display the latest research results and technical progress, and provide suggestions for promoting the progress and development of scientific observation and prevention and control of reservoir geological disasters, as well as for major projects and the construction of a livable earth.

The symposium lasted two and a half days and received extensive attention from the academic community. It was broadcast live online by mainstream media such as xuexi.com, Guangming Daily and China.org.com, with more than 1.16 million live viewers.



Photo of the symposium



Symposium Exhibition Board Competition



Photo of the symposium

JAPAN

2021 JSEG Annual Meeting

JSEG (Japan Society of Engineering Geology) held 2021 Annual Meeting on October 14th and 15th. The 2021 Annual Meeting was planned to be held as a hybrid of both on-site at Nagasaki prefecture and online. In Nagasaki, there had been an only port to open for the trading to foreign countries between the 17th and 19th centuries. Nagasaki has been a city that played an important role in the modernization of Japan. Nagasaki is still an attractive city for Japanese people, so many participants of the conference were looking forward to visiting the city. However unfortunately, in view of the spread of the COVID-19, it was held online only.

Total number of participants are 327 and 86 oral and 41 poster presentations were performed. As a special lecture, " Tunnel engineering and rock mechanics ~ Role of Rock Mechanics and Geotechnical Engineering in Tunnel Construction and Operation ~" was given by Dr. Yujing Jiang, a professor of Nagasaki University. Two special sessions have been held; one is the Typhoon No. 19 in 2019, and the another is Leading-edge of Topographical Image Diagnosis. 12 presentations were presented in the special session of the Typhoon No. 19 in 2019, and the 9 presentations were presented in the Leading-edge of Topographical Image Diagnosis.

Career design seminar was also organized for aiming to develop young people in the field of engineering geology to show various career designs and role models. The participants of this seminar were able to exchange connect with each other through the exchange of opinions



Dejima Quay, Where Large Foreign Ships Docked
During The Edo Period



Japan's Oldest Road Iron Bridge

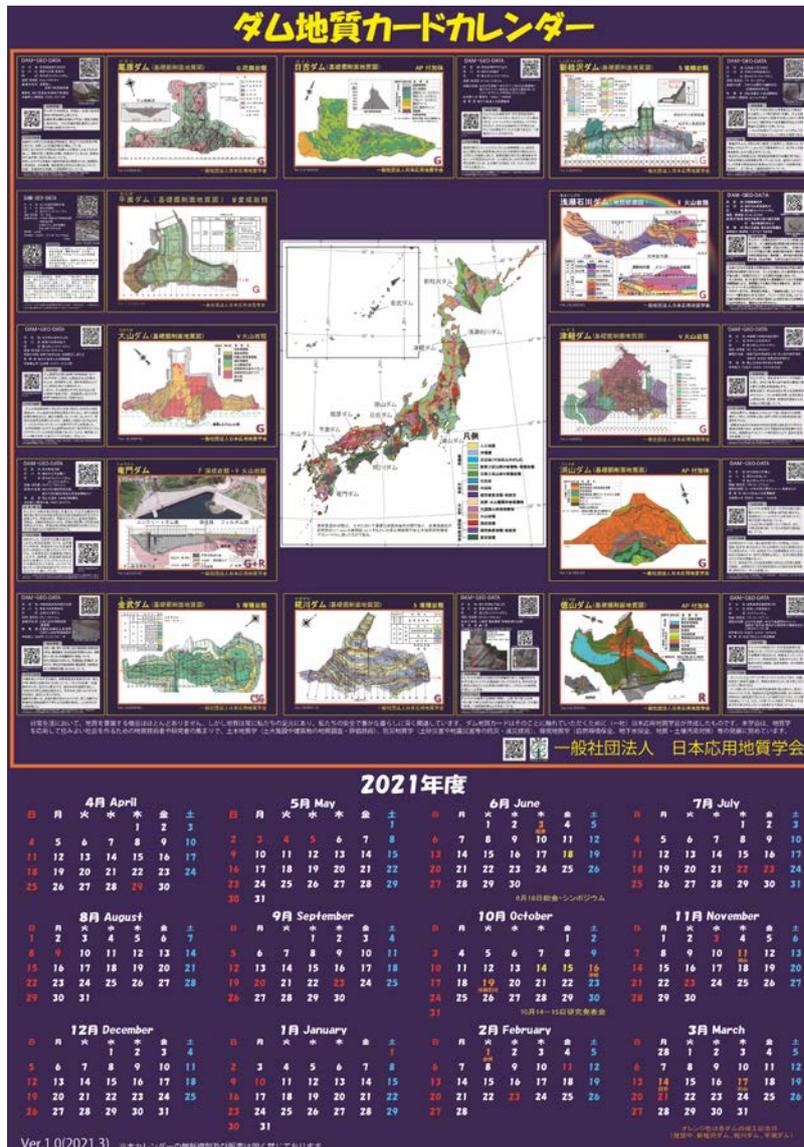


Dam Cards With Geological Explanations Calendar

JSEG is distributing "Dam Cards with geological explanations Calendar" to assist people's understanding the importance of geology in civil engineering. The "Dam Cards with geological explanations Calendar" show the geological distribution of a dam based on sketches and cross-sectional maps made during excavation, and it is easy to understand that very detailed geological

checks are carried out during dam construction. In addition, there are a lot of dam types, they are depending on the geological conditions underneath the dam. In this calendar, the date of completion of each dam construction is shown.

The “Dam Cards with geological explanations Calendar” is published by the JSEG with the cooperation and approval of the Hokkaido Regional Development Bureau of MLIT, Tohoku Regional Development Bureau of MLIT, Chugoku Regional Development Bureau of MLIT, Kyushu Regional Development Bureau of MLIT, Okinawa General Bureau of the Cabinet Office, Japan Water Agency, Kagawa Prefecture, and Yamaguchi Prefecture.



NIGERIA

The Nigerian National Group has been engaged in workshops in partnership with industry practitioners to introduce Young Engineering Geologists professional life outside the classroom.



Group photo at the University of Port-Harcourt, PortHarcourt at a workshop on site investigation and the role of engineering geologists in the prevention of building collapse.



PORTUGAL

17th National Geotechnical Congress (17CNG) & 10th Luso-Brazilian Geotechnical Congress (10CLBG)

The Portuguese 17th National Geotechnical Congress (17CNG) was held last November, from the 14th to the 17th, under the theme *Geo, the Sciences and the Technology*. The event took place online, and was broadcasted from the facilities of the Laboratório Nacional de Engenharia Civil (LNEC), in Lisbon.

In association with the 17CNG, the 10th Luso-Brazilian Geotechnical Congress (10CLBG) took place, under the theme *Safety of Geotechnical Works*, organized jointly by the Portuguese Geotechnical Society, the Brazilian Association of Soil Mechanics and Geotechnical Engineering and LNEC.

On the afternoon of November 14, the 11th Young Geotechnicians Meeting (11EJG) took place, as well as the lecture of the 2nd edition of the Ricardo Esquivel Teixeira Duarte Award. The Ricardo Esquivel Teixeira Duarte Award for the biennium 2017 to 2018, the Manuel Rocha Award for the quadrennium 2016 to 2019, and the José Folque Young Geotechnicians in Portuguese Language and in English Language for 2020 were delivered. At the end of this day, the VII Victor de Mello Lecture also took place. The 17CNG and the 10CLBG included 4 plenary sessions, with presentation of 8 keynote lectures, delivered by renowned experts from Portugal, Brazil, Spain and the United States of America, and 14 parallel sessions, with presentation of 103 papers, out of a total of 150 papers

included in the event proceedings.

In place of the usual technical visits, on the afternoon of the 17th some of the most important geotechnical works in progress, or to be built in the near future, in Portugal, were presented.

The traditional technical exhibition was replaced by the projection of a film about the activities of the sponsoring companies, of the gold and silver modalities, before the beginning of the sessions and the permanence of their logo during the sessions. The sponsors also allowed the Organizing Committee to offer registrations to 2nd and 3rd cycle Geotechnical Engineering students, an initiative that was well received.

With 290 delegates, from Portugal, Brazil, Angola and Spain, and 41 sponsors, the event far exceeded initial expectations, contributing to promote the dissemination of technical and scientific knowledge and debate, as well as a fruitful strengthening of professional and personal relationships among participants.



50th Anniversary of Journal GEOTECNIA

The 50th Anniversary celebration of the Journal GEOTECNIA was held at the Laboratório Nacional de Engenharia Civil on 20th and 21st September 2021, organised by Sociedade Portuguesa de Geotecnia (SPG) in collaboration with Associação Brasileira de Mecânica dos Solos e Engenharia Geotécnica (ABMS) and Sociedad Española de Mecánica del Suelo y Ingeniería Geotécnica (SEMSIG).

The technical program was supported by the special volume nº152 (2021) of the Journal GEOTECNIA available in open access in July 2021 (<https://impactum-journals.uc.pt/geotecnia>), in addition to the opening and closing sessions and the presentation of the "Úlpio Nascimento" Awards for the biennia 2012-13, 2014-15, 2016-17, 2018-19.

The opening session included the speeches by Carlos Pina, from the Laboratório Nacional de Engenharia Civil, Alexandre Pinto, SPG President, Fernando Schnaid, ABMS President, Fernando Pardo de Santayana, SEMSIG President and Associate Editor of the Journal GEOTECNIA, and António Gomes Correia, Editor of the Journal GEOTECNIA and Alberto Sayão, Associate Editor of the Journal GEOTECNIA.

The opening session was followed by a presentation of António Gomes Correia about the important moments of the 50 years of Journal GEOTECNIA. The succeeding presentations covered 19 topics (7 by Portuguese authors, 7 by Spanish authors and 5 by Brazilian authors) with emphasis on the characterisation of geomaterials, from soils to rocks, new developments in rock mechanics, geosynthetics, reinforced soils, bentonite barriers for nuclear waste, dams, underground works - hydropower plants, excavations, geothermal, geotechnics in transports, tunnels, landslides, "machine learning" and regulations. These presentations were made by key speakers from Portugal (António Gomes Correia, António Viana da Fonseca, Celso Lima, Emanuel Maranha das Neves, José Vieira de Lemos, Luís Joaquim Leal Lemos, Luís Lamas and Manuel Matos Fernandes), Spain (Antonio Gens, César Sagaseta Millán, Eduardo Alonso Pérez de Ágreda, Fernando Pardo de Santayana, Jose Estaire, Rubén Galindo and Santiago Peña Fernández) and from Brazil (Alberto Sayão, Anna Laura Nunes, Ennio Marques Palmeira, Fernando Schnaid, Gregório Araújo, Joaquim Pimenta de Ávila and Maria das Graças Gardoni).



The closing session included the speeches of the Presidents of SPG, ABMS and SEMSIG and the Editors of the Journal GEOTECNIA. It should be noted that this commemorative ceremony of the 50th anniversary of the Journal GEOTECNIA was the first face-to-face event held in the auditorium of the Laboratório Nacional de Eng^a Civil after the beginning of the pandemic situation, although also with remote participation. It went according to what had been planned, both in terms of punctuality and quality of the presentations (with the respective discussions when time allowed).

Attendance exceeded expectations for a Portuguese and Spanish-speaking event. On the first day, there were 60 presences and 262 in remote participation, making a total of 322 participants and on the second day, 35 presences and 201 in remote participation, making a total of 236 participants.

The video based on the recording of the ceremony (in Portuguese and Spanish) is available at

<https://www.youtube.com/watch?v=kr9yYhrLGeU>

It contains only the main part of the presentations of the respective authors/speakers.

XXXVIII Manuel Rocha Lecture

XXXVIII Manuel Rocha Lecture was delivered by Emeritus Professor Scott Burns from Portland State University, USA on the 22th November with the title "Climatic Warming - using the past to prepare for the future of increased landslide and other geological disaster activity". The presentation of the invited speaker was performed by Professor Ricardo Oliveira, Honorary President of IAEG, and the final thanks were given by Professor Isabel Fernandes, SPG Secretary-General. The event took place at Calouste Gulbenkian Foundation auditorium and simultaneously broadcasted. It is now available at https://www.youtube.com/watch?v=y4Oil6_hDvk:



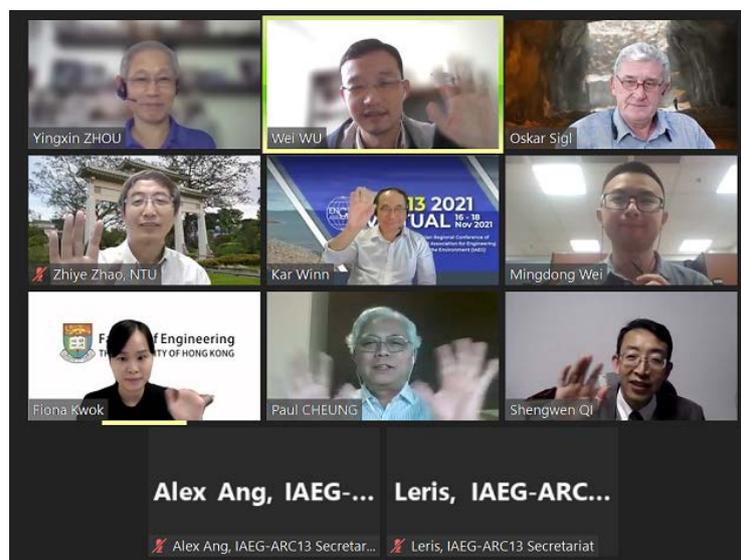
SINGAPORE

13th Asian Regional Conference of IAEG

The 13th Asian Regional Conference (ARC13) of International Association for Engineering Geology and the Environment (IAEG) was virtually held on 16-18 November 2021 in Singapore.

ARC13 was jointly organized by Society for Rock Mechanics & Engineering Geology (Singapore) and The Geological Society of Hong Kong. The organizers offered an ideal opportunity and an online platform for professionals from the international engineering geology community to exchange the latest experiences and ideas on engineering geology, particularly on the conference theme "Engineering Geology for Sustainable Resource and Infrastructure Development".

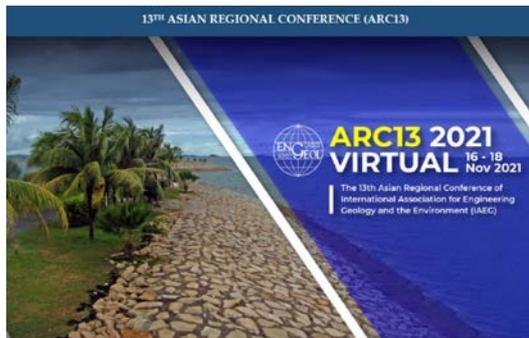
The virtual conference included 7 keynotes, 76 oral and poster presentations, and a panel discussion "Meet the Editors of the journal of Engineering Geology and the Bulletin of Engineering Geology and the Environment." Over 1000 attendees joined the keynote and parallel sessions as well as the panel discussion during the three-day conference. The proceeding of ARC13 can be downloaded from the IAEG website.



IAEG-ARC13 complied **PROCEEDINGS OF THE 13TH ASIAN REGIONAL CONFERENCE (ARC13)**, to show their great gratitude to all attendees, partner sponsors, and partner societies, who have helped to make IAEG-ARC13 a great success.

We can find all the abstracts in the proceedings via the link of https://www.iaeg-arc13.org/docs/ARC13%20Post%20Conference%20Abstract%20Proceedings.pdf?utm_source=sendinblue&utm_campaign=IAEG-ARC13%20Enews%207&utm_medium=email.

The IAEG-ARC13 Abstract Proceedings will also be made available on the IAEG Proceedings Webpage at a later date: <https://www.iaeg.info/proceedings/>.



PROCEEDINGS OF THE 13TH ASIAN REGIONAL CONFERENCE (ARC13)

Editor: Wei Wu, Nanyang Technological University



Organizers & Partners:



INTERNATIONAL ASSOCIATION FOR ENGINEERING GEOLOGY AND
THE ENVIRONMENT (IAEG)

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INTERNATIONAL ASSOCIATION FOR ENGINEERING GEOLOGY AND
THE ENVIRONMENT (IAEG)



PREPARATIONS FOR IAEG XIV CONGRESS 2022

On December 10, IAEG China National Group had a virtual meeting on the preparations for IAEG XIV Congress 2022 to be held from September 14 to 20, 2022. IAEG SG Faquan WU, IAEG China SG Shengwen QI, Xuanmei FAN from Chendu University of Technology, and some other relevant persons in charge attended the meeting online.

Based on the theme of “Engineering Geology for a Habitable Earth”, the congress is expected to enhance the disciplinary and research development of international engineering geology and the environment, and contribute to the advancement of major projects, ecological progress, and a habitable earth.

The conference organizing committee, after comprehensive consideration, combined with the theme of the conference and the frontier hotspots in the field, 15 general scientific themes are selected to be the main focus for the call for papers

The academic committee took active steps to organize and promote the abstract submission, and it successfully came to an end in October, 2021. The committee members then continued to cooperate fully and engage with the review process by inviting theme chairs, assigning submissions, sending out decisions and notifications; with the joint efforts of the theme chairs and the ongoing support from all the reviewers, the abstract reviewing has been completed.

Meanwhile, the full-paper submission access has been opened, and the full-paper updates have already been underway. To ensure that everyone can be notified and get prepared, the reminding emails are being sent regularly, and the instruction files can also be found on the website.

The conference received 14 session proposals; after careful analysis, comprehensive consideration and rigorous selection process, some of the proposals were selected and integrated, and 11 were finally presented.

The next major phase is also being closely prepared. The call for abstracts (for oral presentation and poster) will be available soon; furthermore, the conference intends to invite 5 plenary speakers, 15 keynote speakers, and 2-3 invited speakers for each session.

The organizing committee has had several meetings to explore the modalities of the conference, such as how to launch a hybrid conference efficiently combining virtual and onsite. Additionally, making the sponsorship program more reasonable and attractive and some other issues are under discussion.

Two rounds of conference notices were announced on the website and by emails; the call-for-paper information has also been shared across the engineering geology and the environment community throughout the network and broader audience through social media.

Moreover, the conference has already started working on the visual design, and the design concept features geology and its application. The illustration and visualization will be proposed as a complete package to create an overall look, which will be used for website design, conference program, conference kits and accessories, venue decoration, etc.

08 IAEG XIV CONGRESS 2022



The XIV Congress of the International Association for Engineering Geology and the Environment will be held in Chengdu Century City New International Convention and Exhibition Center, Chengdu, China from September 14 to 20, 2022. Based on the theme of **Engineering Geology for a Habitable Earth**, the congress is expected to enhance the disciplinary and research development of international engineering geology and the environment, and contribute to the advancement of major projects, ecological progress, and habitable earth with research and discussion in the engineering geology and global climate change, geological hazard assessment and prevention, geotechnical properties of rock and soil mass, engineering geology and the environmental issues concerning marine, transportation, urban and ecological environment protection in major projects, engineering geology and resilience engineering construction, intelligent engineering geology, and new theories, methods, and techniques in engineering geology, etc.

A new logo is created for the congress. The new logo selects the Sun God Bird gold decoration shape and Geological Hazards (Mountain Section, Geological Collapse, Seismic Waveform Map) of mountain profile. In Dujiangyan water conservancy project, Anlan Bridge is one of the five famous ancient cable bridges in China. It spans the water diversion between the inner river and the outer river. The water and the shape of the bridge are extracted to complete the design of the 14th IAEG logo.



Contact Information

Website: <https://iaeg2022.org/>

Venue: Chengdu Century City International Conference Center

Session and Field Course

Yonghong Luo: 445890689@qq.com; Peng Zeng: zengpeng15@cdut.edu.cn

Sponsorship:

Dongpo Wang: wangdongpo@cdut.edu.cn; Shenghua Cui: cuishenghua18@cdut.edu.cn

Address: No. 1 Dongsan Road, Erxianqiao, Chenghua District, Chengdu, Sichuan, China

Tel: 028-84073193; Email: IAEG2022@cdut.edu.cn

Note: For registration and payment, please refer to follow-up notification

Feel free to distribute this notification with your colleagues, other academic networks and organizations.

General Scientific Themes

- Climate Change Mitigation and Adaption
- Engineering Geology and Green Development

- Mechanism, Monitoring and Early Warning, Prevention and Assessment of Geological Disasters
- Environmental Engineering Geology and Ecosystem Protection
- Geotechnical Properties of Rock and Soil Mass
- Water reservoirs, Large Dams, and associated Ground Stability
- Traffic Engineering Geology and Sichuan-Tibet Railway Construction
- Energy Engineering Geology and Deep Earth Resource Exploitation
- Urban Engineering Geology and Underground Space Utilization
- Marine Engineering Geology and Coastal Development
- Polar, Planetary Engineering Geology and Disasters
- Artificial Intelligence, Big Data, and Engineering Geology
- New Theory and Technology of Engineering Geology
- Preservation of Cultural Heritage and Engineering Geology
- Education and Disciplinary Development of Engineering Geology

Sessions

Session 1: Climate Change and Sustainable Development

Session 2: Numerical Simulation of Engineering Geology and Geological Disasters

Session 3: Environmental Engineering Geology and Ecosystem Protection

Session 4: Geotechnical Properties of Rock and Soil Mass

Session 5: Engineering Geology and Infrastructure Construction

Session 6: Active Tectonics and Geological Hazards in Qinghai-Tibet Plateau

Session 7: Energy Engineering Geology and Deep Earth Resource Exploitation

Session 8: Marine Engineering Geology and Coastal Development

Session 9: New Theory and Technology of Engineering Geology

Session 10: Geological Disaster Monitoring and Early Warning

Session 11: Geological Disaster Risk Assessment and Control

Full Paper

The Organizing Committee has received 451 full paper abstracts, and 446 abstracts have been accepted. Please refer to <https://easychair.org/my/conference?conf=iaeg2022> for submitting, and the deadline is November 15, 2021.

Co-Sponsors

There are 9 co-sponsors confirmed till now, and more will be added. Please contact wangdongpo@cdut.edu.cn / cuishenghua18@cdut.edu.cn for joining.

Call for Oral Presentation/Poster Abstract

The Organizing Committee is calling for Oral Presentation and Poster Abstract Submission. It will be open from November 15, 2021, and closed by April 1st, 2022.

Conference Schedule

Due to the need for regular epidemic control, the congress adopts a hybrid mode of online and offline. The congress is preliminarily arranged as follows:

September 14	September 15	September 16	September 17	September 18	September 19-20
Registration	Opening Ceremony & Keynote Speech	Sessions	Sessions	Sessions & Closing Ceremony	Field Trip

Note: The schedule may be adjusted later, please refer to the follow-up notice.

Important Dates

November 15, 2021	Full-length paper submission deadline
November 15, 2021-April 1, 2022	Oral presentation and poster submission notice
October 30, 2021	Full-length paper submission deadline
January 3, 2022	Oral presentation and poster submission notice
April 1, 2022	Oral presentation and poster submission deadline
September 14, 2022	Online registration deadline
September 15, 2022	IAEG Congress

09 MEETING INFORMATION

Toronto, Canada, March 7-9, 2022

The World's Premier Mineral Exploration & Mining Convention



2022
90th Anniversary

**THE WORLD'S PREMIER
MINERAL EXPLORATION
& MINING CONVENTION**

PDAC is excited to announce that PDAC 2022, our 90th annual convention, will take place in person in Toronto, Canada from March 7-9. This will be followed by an online event on March 10-11. For attendees joining us in person, PDAC will adhere to Canadian and local government directives and implement appropriate health and safety measures. We understand that these requirements may evolve, and will ensure all attendees are kept informed of any new developments. Whether you join us in person or online, you can be certain PDAC 2022 will offer best-in-industry access to our outstanding programming, exhibit and networking opportunities.

Conference Information

Website: <https://www.pdac.ca/convention>; Email: info@pdac.ca; convention@pdac.ca

Venue: Metro Toronto Convention Centre (MTCC)

Convention Date and Hours

IN PERSON (TORONTO)		ONLINE CONVENTION	
March 7 (Monday)	9:30 am-6:00 pm	March 10 (Tuesday)	11:00 am-8:00 pm
March 8 (Tuesday)	9:30 am-6:00 pm	March 11 (Friday)	11:00 am-8:00 pm
March 9 (Wednesday)	9:30 am-6:00 pm		
*Hours are subject to change.			

Important Dates

February 11, 2022 (Friday)	Cheque payments will not be accepted after this date.
February 25, 2022 (Friday)	Early rate registration deadline
March 5, 2022 (Saturday)	Onsite registration opens

Keynote Program



Vanessa Davidson,
England



Tom Palmer,
Australia



Jeff Hanman,
Canada



John Kilroe,
Australia

Copenhagen, Denmark, April 22-28, 2022

World Tunnel Congress 2022



It is a great pleasure on behalf of the Danish Society for Tunnels and Underground Works, DFTU, to invite you to the

World Tunnel Congress 2022 and associated events from Friday 22 April 2022 through to Thursday 28 April 2022.

Copenhagen is an attractive conference location with easy access, great logistics and excellent venues. The city has for many years been one of the world's most popular congress cities according to the International Congress and Conference Association (ICCA).

The venue we have chosen to host the conference, exhibition and ITA general assembly is the well-known Bella Congress Center Copenhagen. Being located less than 15 minutes from the airport and less than 10 minutes from the city center, the Bella Center has a fantastic location and the venue has more than sufficient capacity both in terms of conference and exhibitions capacity to host the World Tunnel Congress.

Denmark and Scandinavia will present some of the mega projects in the world with great opportunity to learn and visit the project in our part of the world. In Denmark, existing and new projects are well under construction and site visits will be arranged. New Metro lines (Cityringen, Nordhavn and Sydhavn) are well under way. Learnings from the Great Belt Link and the Øresund Link has been used for getting the Femern Fixed Link started. In Scandinavia: Norway, Sweden and Finland the construction of many other new mega infrastructure projects will start. The E39 crossings in Norway will be well underway and lessons learned from all the projects will be shared at the conference.

We look forward to seeing you in Copenhagen in April 2022!

Conference Information

Website: <https://wtc2022.dk/>

General Information: Helle Klestrup, wtc2022@discongress.com

Sponsorship & Exhibition: Peder Andersen, exhibition@discongress.com

Venue: Bella Center Copenhagen Center Boulevard 5 2300 Copenhagen S, Denmark

Registration

Registration Fees:	Before 27th January, 2022	From 28th January, 2022
Participant fee	DKK 6.300/ € 845	DKK 7.425 / € 995
Young members	DKK 3.350 / € 450	DKK 4.100 / € 550
Students*	DKK 2.235 / € 300	DKK 2.235 / € 300
Category III countries	DKK 2.980 / € 400	DKK 3.725 / € 500
Accompanying persons	DKK 1.125 / € 150	DKK 1.125 / € 150
Gala Dinner	DKK 1.125 / € 150	DKK 1.125 / € 150

Tour Program

- Tour 1: City and Harbour Tour; Monday 25 April, 2022, 13:00-15:30; Price: DKK 500 / € 67



- TOUR 2: Karen Blixen Museum and Louisiana Art Tour
- TUESDAY 26 APRIL, 2022, 9:00-14:00 – INCLUDING LUNCH

Price: DKK 875 / € 117 including lunch



- TOUR 3: Walking tour in Copenhagen
- WEDNESDAY 27 APRIL, 2022, 9:00-12.30



Naples, Italy, June 22-24, 2022

3rd International Symposium on Geotechnical Engineering for the Preservation of Monuments and Historic Sites



The possibility of finding in practice an acceptable equilibrium is linked to the development of a shared culture. For this reason, the International Society of Soil Mechanics and Geotechnical Engineering promoted over 30 years ago an ad hoc Committee (on Preservation of Monuments and Historic Sites), as suggested by Jean Kerisel and Arrigo Croce. Since that founding period, a number

of international and regional symposia have been organised, and in recognition of his pioneering work a honour lecture has been dedicated to Jean Kerisel. The first Kerisel Lecture was delivered at International Conference on Soil Mechanics and Geotechnical Engineering (ICSMGE) in 2013 in Paris; the second one at the ICSMGE in Seoul in 2017, and the third one will be offered during next International Conference of the TC301, which is now announced and will be held in Naples in June 2022, following the successful tradition started with the previous ones in 1996 and 2013.

Conference Information

Website: <https://tc301-napoli.org/>; Email: info@tc301-napoli.org

Venue: Conference Centre of the University of Naples Federico II Via Partenope, 36, Naples, Italy

Symposium topics

- Principles of conservation, maintenance strategies, case histories
- The knowledge: investigations and monitoring
- Seismic risk, site effects, soil structure interaction
- Effects of urban development and tunnelling on built heritage
- Preservation of diffuse heritage: soil instability, subsidence, environmental damages



Panel Lectures



Pierre Smars, Taiwan



Arun Menon, India



Luca de Sanctis, Italy



Pietro Matracchi, Italy



Dimitris Egglezos, Greece



Sebastiano Rampello, Italy



Gianpiero Russo, Italy



Jean-David Vernhes, France



Paolo Simonini, Italy

Naples, Italy, July 12-15, 2022

International Conference EwaS5



The University of Thessaly, Civil Engineering Department and the University of Naples Federico II, Civil, Architectural and Environmental Engineering Department are glad to announce the pre-release of the 5th EWaS (Efficient Water Systems) International Conference on "Water Security and Safety Management: emerging threats or new challenges? Moving from Therapy and Restoration to Prognosis and Prevention", taking place in Naples, Italy, from 13th to 16th July, 2022.

Conference Information

Website: <https://www.ewas5.it/>; Email: mpcongressi@gmail.com

Online Registration

	Early Bird (till 28/02/2022)	Late Bird (till 31/03/2022)	After 31/03/2022 & Onsite
Standard	350€	450€	600€
Student	190€	240€	300€
1-day Participation	140€	140€	140€
Accompanying Person	150€	150€	150€

Themes & Topics

- Water security and safety fostering water resilience (e.g.: raw water treatment)
- Sustainable water management in circular economy
- Water - Energy - Food Nexus
- Internet of Things (IoT) solutions aiding water management
- Innovative methods for urban water cycle management (e.g.: smart/mega cities; hydro-energy recovery in water systems)
- Wastewater treatment and water resource recovery facilities
-

Abstract Submission

January 10, 2022: Abstract Submission deadline

January 25, 2022: Notification of Abstract Acceptance

February 28, 2022: Full Paper Submission

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