IGM NEWS

The electronic newsletter of the Institute of Geology Malaysia

Advancing Geoscience, Advancing the Nation

October 2021 | *For IGM members only* | Vol 21, Issue 2

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GOMBAK SELANGOR QUARTZ RIDGE

(Credits: https://hikingtheworld.blog/

ABOUT IGM

Institute of Geology Malaysia, also known as IGM, was officially registered with the Malaysian Registrar of Societies in 1989 (PPM-003-14-11031989). It's establishment was in response to the urgent need for a single body to regulate the profession of geology in Malaysia. The seal of IGM portrays a hammer flanked by silhouette maps of Peninsular Malaysia and East Malaysia. The seal depicts the basic tool of the field geologist and thus symbolizes the role of the geologist in Malaysia. The objectives of IGM are as follows:

1. To provide a central organization for geologists in the form of a learned and scientific institute for geology and to provide for the definition of, and qualification for, the various branches of the profession of the geological sciences.
2. To promote friendly interaction amongst geologists and to hold meetings for readings and discussions of matters relating to geology and their various arts and sciences connected therewith.
3. To regulate and uphold the dignity, standing and reputation of the profession of geology.
4. To promote and advance the knowledge, study and practice of geology and the various arts and sciences connected therewith.
5. To assist, advise and cooperate with government departments and other private or public bodies in an honorary capacity on questions relating to the science of geology and policy in respect of land and earth resource utilisation and all other matters connected therewith.

IGM COUNCIL 2021/22

IGM Council for 2021/2021 as elected at the 30th Annual General Meeting on 23 April 2021 are as follow:

President

P.Geol. Gs. Abd. Rasid Jaapar, F.I.G.M, FGS, MGRSM

Vice-President

P.Geol. Mohd Badzran Mat Taib, F.I.G.M

Secretary

P.Geol. Gs. Wan Md. Nizam Wan Isa, F.I.G.M, MGRSM

Treasurer

P.Geol. Ahmad Nizam Hasan, F.I.G.M

Council Members (2 years)

P.Geol. Abdullah Sulaiman, F.I.G.M

P.Geol. Dr. Ahmad Farid Abu Bakar M.I.G.M

P.Geol. Sanatul Salwa Hassan, M.I.G.M

P.Geol. Dr. Rohayu Che Omar, M.I.G.M

Council Members (1 year)

P.Geol. Dr. Rosli Sa'ad M.I.G.M

P.Geol. Nizarul Ikram Abdul Rahim F.I.G.M

P.Geol. Devendaran Arumugam F.I.G.M

P.Geol. Yip Foo Weng F.I.G.M

IGM CHAPTER, TECHNICAL COMMITTEE & WORKING COMMITTEE

The Council of Institute of Geology Malaysia (IGM) for 2021/2022 at the 1st Council Meeting held on 28th May 2021, has decided on the appointment of Chairs for IGM Chapters, Technical Committee and Working Committee in accordance with Article VI, Clause 15 of IGM Constitution as follow:

IGM CHAPTER:

IGM Sabah Chapter
Chairperson: P.Geol. Alexander Yan Sze Wah M.I.G.M

IGM Sarawak Chapter
Chairperson: P.Geol. Dr. Richard Mani Banda M.I.G.M

TECHNICAL COMMITTEE

Technical Committee on Hydrogeology & Groundwater Resources
Chairperson: P.Geol. Nizarulikram Ab. Rahim F.I.G.M

Technical Committee on Environmental & Engneering Geology
Chairperson: P.Geol. Qalam A'zad Rosle M.I.G.M FGS

Technical Committee on Petroleum Geology
Chairperson: P.Geol. Sanatul Salwa Hasan M.I.G.M

Technical Committee on Mineral Resources & Mining
Chairperson: P.Geol. Yip Foo Weng F.I.G.M

Technical Committee on Geophysics
Chairperson: P.Geol. Dr. Rosli Saad M.I.G.M

Technical Committee on Coastal and Marine Geology
Chairperson: P.Geol. Abdullah Sulaiman F.I.G.M

Technical Committee on Disaster Risk Reduction & Climate Change Adaption
Chairperson: P.Geol. Prof Joy J Pereira F.I.G.M

Technical Committee on Geoheritage & Geopark
Chairperson: P.Geol. Dr Tanot Unjah M.I.G.M

WORKING COMMITTEE

Working Committee on Public Relations and International Liaison
Co-chairperson:
I) P.Geol. Abd. Rasid Jaapar, F.I.G.M,
Ii) P.Geol. Wan Md. Nizam Wan Isa, F.I.G.M

Working Committee on Continuous Professional Development
Chairperson: P.Geol. Devendran Arumugam F.I.G.M

Working Committee on Finance, Admin and Membership
Co-chairperson:
I) P.Geol. Mohd Badzran Mat Taib, F.I.G.M
ii) P.Geol. Ahmad Nizam Hasan, F.I.G.M

Working Committee on Early Career Geologists and Students
Chairperson: P.Geol. Mohamad Shaufi Sokiman M.I.G.M

Working Committee on Women in Geology
Chairperson: P.Geol. Dr. Rohayu Che Omar M.I.G.M

Working Committee on Publications, Publicity and IT
Chairperson: P.Geol. Dr. Ahmad Farid Bin Abu Bakar M.I.G.M

All members who want to contribute through any Chapters, Technical Committees or Working Committee, please contact the respective chairperson.

PRESIDENT'S MESSAGE

P.GEOL. GS. ABD RASID JAAPAR
IGM PRESIDENT

Assalamualaikum wbt.

All praises for Allah SWT. All blessings and salutations upon our beloved Prophet Muhammad SAW and his family and companions. I hope this newsletter finds you well!

IGM and the geoscience community all over Malaysia expressed condolences to the families of the victims and also to the people who suffered loss and destruction of property during Jerai debris flow & Kemensah landslide tragedy. The level of awareness associated with the threat of risk of geological disaster should be enhanced and understood by the community, especially during the threat of double disaster.

Integrity and etiquette as professional geologist is always very important and marked the successfulness in our geological career. We as professional geologist need always to bear in mind that our action and re-action in geological conduct in accordance under The Geologist Act, 2008.

Let us strengthen our commitment to trustworthiness, integrity, fairness and justice, for advancing geology & geosciences knowledge and visibility, for advancing our beloved nation. Finally I would like to wish all members of IGM a prosperous and productive works in all our geology & geosciences aspect endeavors.

P.Geol. Gs. ABD RASID BIN JAAPAR F.I.GM. FGS. MIGRSM

EDITOR'S MESSAGE

P.GEOL. DR. AHMAD FARID ABU BAKAR
IGM NEWS EDITOR

Assalamualaikum wbt.

IGM NEWS plays a major role to disseminate information and news for IGM members. Using this medium, recent news related to IGM activities and its responds toward certain issues can be noticed and appreciated by its member throughout the country. Hence, our publication team always aware our responsibility to produce high quality and trustworthy information for respective IGM members.

Geohazard incidents require holistic management approach to reduce its risk to the public. Every stakeholders, from government departments, NGOs, academia as well as local communities have their own responsibilities to make sure these incidents manageable. The most important thing is that the lessons need to be learned and we need to act accordingly and responsibly to reduce the impacts of these disasters to our nation.

We are currently working on the modernization of our IGM website and planning to adopt measures to encourage the use of social networks for the benefit of our institute. Meantime, we want to welcome new members and updating information of our current members in order for us to serve you well and efficient.

P.Geol. Dr. AHMAD FARID ABU BAKAR M.I.GM.

The Council of Institute of Geology Malaysia (IGM) for 2021/2022 at the 1st Council Meeting held on 28th May 2021 has agreed to encourage all IGM members the following:

- Members of IGM who are Registered Professional Geologist with Board of Geologists Malaysia (BOG) to use the abbreviation P.Geol in front of his/her name.
- Members of IGM to use abbreviation F.I.G.M, M.I.G.M or L.I.G.M after his/her name.

Example: ***P.Geol. Mohamad Said Syukor, M.I.G.M***

This is in line with Geologists Act 2008 (Act 689) under Part III, Clause 23. (1)(c), *be entitled to describe himself as a "professional geologist" and to use the abbreviation "P.Geol." after his name or in any way in association with his name;*

Article IV, Clause 1 of IGM Constitution stated, *Corporate Members of the Institute shall use the abbreviations corresponding to the respective class of membership as follows:*

- *Fellow F.I.G.M*
- *Member M.I.G.M*
- *Licentiate L.I.G.M*

IGM trust this is an important step for the promotion and advancement of the profession, BOG and IGM.

Thank you.

Yours sincerely,

INSTITUTE OF GEOLOGY MALAYSIA

P.Geol. Gs. ABD RASID BIN JAAPAR*, F.I.G.M, FGS, MIGRSM*

President,

Session 2021/2022

IGM RESPONDS TO TECHNICAL STATEMENTS BY NON-PROFESSIONAL GEOLOGIST

IGM President's statement regarding technical statements by non -professional geologists and statements on social media by professional geologists
- 19 September 2021
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Several incidents of geological disasters in our country today are of concern to us as geologists. However, there are 2 things in a row that worry me as the President of IGM as follows:

1) Media statements made by academics who are not professional geologists but claim to be geologists and geoscience experts.

On September 18, a local TV station conducted an interview with an academic from a local university. IGM found that the academic was not a geologist and was not registered as a professional geologist with BOG. By claiming to be a geologist and geoscientist even if not registered with the BOG, this will bring a bad perception to the career of a geologist. The information and testimony provided by the academics is also quite confusing. His actions clearly violated Section 23 of the Geologists Act 2008 (Act 689).

I think BOG should take serious action by sending an official letter and showing the reason to the academic's employer why he acted in such a way.

2) Random statements of professional geologists on social media

IGM also found that many professional geologists (including well-known professional geologists) give opinions on the occurrence of geological disasters based only on assumptions. This action is contrary to the professional ethics issued by the BOG.

Under item 5 of the Code of Professional Conduct issued by the BOG with the subtitle, Duties to Public and Environment, which is under class 3: a geologist shall only issue or make public statements that are truthful and factual based on scientific evidence and technical opinions that are founded upon his or her competence and knowledge of the facts in the subject matter.

Under class 4 anyway, a geologist shall not make statements that may mislead or deceive members of the public or any public body or cause harm to the public.

Therefore, I call on all professional geologists in Malaysia, especially IGM members, not to be involved in matters that violate the Geologists Act 2008 or ethics and the Code of Professional Conduct.

P.Geol Gs ABD RASID JAAPAR, F.I.G.M, FGS, MIGRSM.

President, IGM
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Head water, debris flow and mud floods phenomenon have been happened around Yan, Gurun and Merbok area on 18 August 2021. These incidents have affected about 1,000 families besides damaging many infrastructures and facilities which are estimated to cause losses amounting to RM75 million. The disaster has claimed six lives and affected about 800 houses in Yan district and another 200 in the Merbok area of Kuala Muda district.

A total of 47 landslides were detected at several locations on the slopes and peaks of Mount Jerai by the Geological Disaster 'Task Force' Team, Department of Minerals and Geosciences (JMG) within a week, after the incident. The Kedah, Perlis and Penang Department of Minerals and Geosciences (JMG) director Abdullah Sulaiman said the ruins of various sizes were detected as a result of mapping using unmanned aerial vehicles (UAVs) or drones in the target area, apart from monitoring the team at identified locations. Abdullah said most of the landslides found were large-scale, ranging in size from 10 to 50 meters wide, apart from some small-scale landslides with a size of two to five meters wide were also detected. Extreme rainfall event is said to be among the causes of the incident with the Ministry of Environment and Water (KASA) reporting that the Gunung Jerai Rainfall Station recorded a cumulative reading of 281 millimeters while the Kampung Singkir Genting Rainfall Station recorded a reading of 172mm.

(Credits: bharian.com.my, sinarharian,my)

Following the incident, the Institute of Geology Malaysia (IGM) recommended a comprehensive, independent geological disaster study with various fields of expertise led by geologists to be conducted in Gunung Jerai and surrounding areas regarding the debris flow incident. Its president, Abd. Rasid Jaapar expressed that a study of the potential hazards, fragility and risk of geological disasters should be carried out on all areas of natural tourism products, including geological parks and geological sites throughout the country. Studies are also recommended to be trans-disciplinary in nature for understanding the effects of climate change and reducing the risk of geological disasters in the future. IGM as a professional organization for geologists believes that geological disasters as well as geological-related disasters should be avoided or their risk reduced if detailed studies and action plans are developed by mainstreaming the concept of disaster risk reduction. The move is in line with international good practices outlined in the Sendai Disaster Risk Reduction Framework 2015-2030 by the United Nations Office for Disaster Risk Reduction (UNDDR).

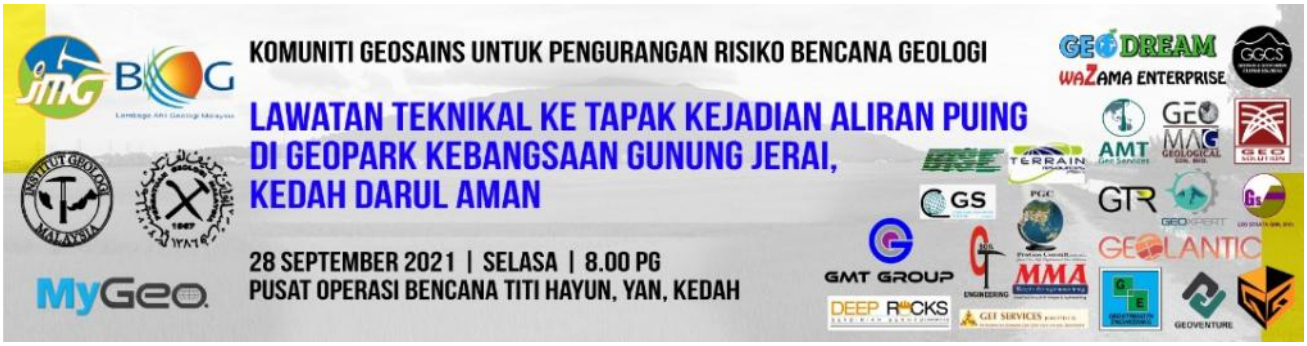
The Malaysian Institute of Geology (IGM) also suggested that the government should have the courage to invest in debris flow disaster risk management, including providing an early warning system as a preparation and preparedness for the future. In addition to the early warning system, the preparation must also involve various aspects such as the preparedness of the local community as well as a more comprehensive disaster risk mapping involving various agencies.

Risk reduction management should also focus on identifying risk areas, risk mitigation and resilience of the local community in the location. This can be done by establishing committees or working groups at the national level consisting of experts in various fields from various sectors including research institutions, public agencies, private practitioners, professional organizations and non - governmental organizations. They consist of a team that specializes in debris flow mapping, modeling, rainfall distribution analysis, early warning systems as well as mitigation strategies whether engineering or non-engineering.

IGM is strongly committed to support the efforts of the government and various stakeholders towards the development and implementation of a more holistic action plan in assessing geological disaster risk based on science, understanding local levels of threat and finding long -term solutions based on complete, accurate and comprehensive geological information. The geoscience community also through IGM, the Malaysian Geological Society (GSM) or the Malaysian Geoscience Consultants and Services Association (MyGeo) is always ready to jointly assist the government through community preparedness programs.

(Credits: hmetro.com.my, sinarharian,my)

A field visit by the Malaysian Geoscience Coordinating Council (MGCC) was carried out on 28 September 2021 at the site of the debris flow disaster in Gunung Jerai National Geopark, Kedah. The Malaysian Geoscience Coordinating Council (MGCC), which is represented by the geoscience community, comprises members of the Malaysian Institute of Geology (IGM), the Malaysian Geological Society (GSM) and the Malaysian Geoscience Consultants and Services Association (MyGeo). A total of RM18,188.21 donated by the Malaysian geoscience community was handed over to the victims of the incident through Yan District Officer, in a ceremony during the working visit.



The Malaysian Geoscience Coordinating Council (MGCC) members also visited areas affected by debris flow disasters such as Titi Hayun, Batu Hampar and Salak Denai. During the ceremony, the Malaysian Institute of Geology (IGM) and the Malaysian Geoscience Coordinating Council (MGCC) expressed their condolences to the families of the victims and also to the residents who suffered loss and destruction of property, while the country is still recording positive daily COVID-19 high cases and the threat of new variants.


TEGUH KITA MENANG BERSAMA
BENCANA GEOLOGI DAN PENGURUSAN RISIKO
BERSAMA
DATO' ZAKARIA MOHAMAD
PENGERUSI LEMBAGA AHLI GEOLOGI MALAYSIA
ABD RASID JAAPAR
PRESIDEN INSTITUT GEOLOGI MALAYSIA (IGM)
ISNIN, 20 SEPTEMBER 2021
8:00 PAGI – 10:00 PAGI
spm
Selamat Pagi Malaysia
tv1
BERITA
SALURAN 123
Freeview
SALURAN 123
LIVE
selamatpagimalaysia
#nadiseripagi
#rtmmobile


BERITA
KITA JAGA KITA
BENCANA GEOLOGI DAN PENGURUSAN RISIKO
AN PERUNTUK LEBIH RM471.6 JUTA LAKSANA PAKEJ PENJAGAAN COVID-19 KEPADA KEI.UARGA M


BERITA
DATO' ZAKARIA MOHAMAD
Pengerusi Lembaga Ahli Geologi Malaysia (BoG)
ASA 3 PPN AKHIR BULAN INI - DR ZAINI • TADIKA SWASTA DI NEGERI FASA 1 DAN 2 DIBENAR


SELAMAT PAGI MALAYSIA
BERITA
ABD. RASID JAAPAR
Presiden Institut Geologi Malaysia (IGM)
A LAKSANA PAKEJ PENJAGAAN COVID-19 KEPADA KELUARGA MALAYSIA KATEGORI B40 - PM

EARTHQUAKE IN BENTONG, PAHANG

On 11 September 2021, the highlands around Janda Baik and Bukit Tinggi in Bentong were reported to have experienced a weak to moderate earthquake incident believed to have occurred following the reactivation of the Bukit Tinggi fault line since 2007. The reactivation of the fault line after thousands of years it 'died' saw 30 earthquakes occurred in the area beginning in 2007 with the strongest tremor recorded being 4.2 on the Richter scale. President of the Institute of Geology Malaysia, Abd. Rasid Jaapar said the earthquake in Janda Baik and Bukit Tinggi in Bentong could recur as the area was located within the Bukit Tinggi fault line which projected from Kuala Pilah-Kuala Lumpur and Bukit Tinggi.

Previous earthquake located near to Janda Baik area has been reported by Che Noorliza Lat & Ahmad Tajuddin Ibrahim (2009). Based on the study by Mustaffa Kamal Shuib (2009), Zainal Abidin et al., (2010) and Shuib et al., (2017), small and shallow intraplate earthquakes that occurred around Janda Baik and Bukit Tinggi area in Bentong are located at or near to the intersection of three sets of major lineaments trending N-S, NW-SE and NE-SW. This corresponds to the N-S faults, the NW-SE Bukit Tinggi and Kuala Lumpur fault zones and the NE-SW faults, respectively. It is interpreted that the earthquakes are due to the reactivation of the above faults. The fault reactivations are believed to be the result of stress build-up due to the present-day tectonics in SE Asia (Sundaland), especially the oblique, NNE-oriented subduction of the Indo–Australian plate under the Sundaland. The earthquake occurrences indicate that the core of Sundaland is also deforming and that earthquakes do occur in Peninsular Malaysia. It is implied that the intraplate deformation zone associated with the Sumatran Subduction Zone is wide, encompassing Peninsular Malaysia.

The Pahang state government has taken early action to address the earthquakes threat by making initial preparations to install Earthquake Early Detection System (EDS) and developing an earthquake early warning system around the area. A total of 13 units of Earthquake Early Detection System (EDS) devices have been installed at several locations in Bentong as an initial preparation to deal with the threat of earthquakes. Pahang Menteri Besar, Datuk Seri Wan Rosdy Wan Ismail, said the Department of Minerals and Geosciences (JMG) installed the device to monitor the movement of rock blocks and identify active fault segments from time to time. Under the Pahang State Structure Plan 2050, to address the risk of geological disasters related to earthquakes, the state government is proposed to develop an early warning system for earthquakes in high-risk areas, especially in the districts of Bentong, Raub and Cameron Highlands.

(Credits: Kosmo.com.my)

In the early 20th century the quartz ridge was called the Klang Gates Ridge. This informal geographical named remained in the 1980s until the quartz ridge was then renamed as the Klang Gates Quartz Ridge or Permatang Kuarza Genting Kelang (Tjia, 1997). On 24 June 2015 the Klang Gates Quartz Ridge was formally named as the Gombak Selangor Quartz Ridge (GSQR) or Permatang Kuarza Gombak Selangor (PKGS) by the Selangor State Government. The ridge is documented as the longest quartz formation in the world, spanning more than 14km long and 200m wide and it is believed to be the longest pure quartz dyke in the world.

The Gombak Selangor Quartz Ridge (GSQR) is made entirely of quartz, a natural mineral with chemical composition of silicon dioxide (SiO_2), formed when residual magma crystallized and consolidated within vertical slab of dyke as the magma forced themselves through large linear fissures within massive granitic rock known as Kuala Lumpur Granite about 200 million years ago. This ridge formed as a result of hydrothermal filling of quartz along the fracture zone parallel to the Kuala Lumpur Fault Zone named by Stauffer (1968). Geological field studies showed that 5 types of crystallization can be identified which are likely to be due to different crystallization phases (Muhammad et al., 2009, Qalam et. al., 2010). Three type of quartz crystal growth was identified as rutile quartz growth, milky quartz and smoky quartz. The milky quartz was found dominantly at the eastern section; whilst at the western section consists of smoky and milky quartz (Umor et al., 2018).

(Credits: thevibes.com)

Recently, forest clearing at Bukit Tabur, home to the world's longest geological quartz formation, the Gombak Selangor Quartz Ridge (GSQR), have shocked environmentalists, hikers and nearby residents. The matter has also left the public wondering if it is related to the geopark construction tabled in the Selangor assembly last year. IGM president, Mr Abdul Rasid Jaapar commented the importance of the quartz ridge in terms of history as well as heritage to be preserved as geopark site in order for future generations are not missing out and able to appreciate the precious site for years to come.

"Once you declare the quartz ridge as a geosite, development is able to be controlled and preservation can be in effect with more sustainable geo-tourism activity," noted Rasid. "For the Institute of Geological Malaysia, we are more than happy to assist in giving advice in terms of scientific value and stability (the dos and don'ts) in the effort of maintaining the quartz ridge (including Bukit Tabur)". "It's important to not just talk about the heritage value of the ridge, but also the safety issue surrounding the ridge, which was the reason why local residents were concerned in the first place" he added.

(Credits: thevibes.com, utusan.com.my)

Back to 2017, the GSQR was nominated as a candidate for UNESCO Heritage Site. The nomination is based on two criteria: (i) contain superlative natural phenomena or areas of exceptional natural beauty and aesthetic importance; (ii) to be outstanding examples representing major stages of earth's history, including the record of life, significant ongoing geological processes in the development of landforms, or significant geomorphic or physiographic features. However, in early 2020, the Selangor government has decided to hold off on pursuing UNESCO status and concentrate on developing it as a national geopark. During the state assembly meeting in December 2020, the Selangor state culture, tourism, Malay customs and heritage committee chairman reportedly said that one of the reasons for the decision to hold off seeking UNESCO certification was because the esthetic value of the quartz ridge was not "superlative" in comparison to other sites under the same criteria.

According to Dr Tanot Unjah, IGM Chairperson for Technical Committee on Geoheritage & Geopark (also the chairman of the Scientific and Conservation Committee under the proposed Gombak Hulu-Langat Geopark), the geopark management team (lead by Tourism Selangor and supported by PLANMalaysia) together with the geopark committees have obtained the approval from the Majlis Tindakan Ekonomi Selangor (MTES) and State of Selangor to pursue the management plan for Gombak Hulu Langat Geopark. The Management Plan will bring along the stakeholders, community and relevant agencies to a series of discussions that will provide development guidelines for conservation area with the geopark particularly the geosite.

INTRODUCTION TO IGM TECHNICAL COMMITTEE
IGM TECHNICAL COMMITTEE ON COASTAL & MARINE GEOLOGY

The Coastal and Marine Geology Technical Committee (CMGTC) of the Institute of Geology Malaysia (IGM) is one of the technical groups consisting various expertise working in industry, research and development and governmental sectors. Coastal and marine geology comprises all branches of geologic studies related from coastal to deep marine environment. These include current and paleo-environment and sea level, sedimentology and structural, earthquake and tectonic, mineral exploration, petroleum and gas, renewable energy and geohazard.

Hence, the objectives of CMGTC are to level up the study on coastal and marine geology through active communication between professionals from private industries, universities, and government agencies and to convey awareness about the importance of the coastal and marine geology to the public.

To achieve the objectives, CMGTC will be:

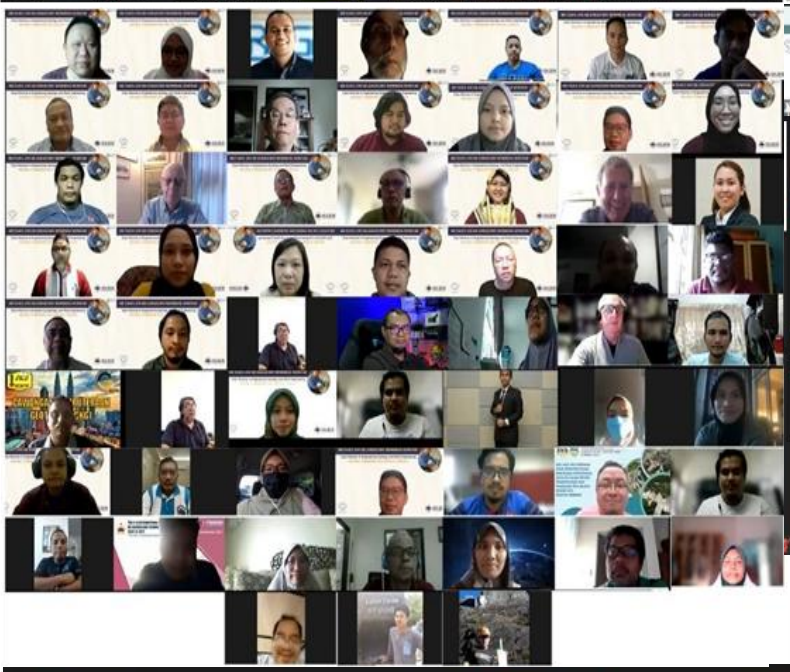
- Organizing meetings, talks, seminars, workshops and conferences;
- Providing capacity building for fresh graduates and young geologists to have interest and competency in industries related to coastal and marine geology;
- Representing and promoting the IGM nationally and internationally particularly in issues related on coastal and marine geology;
- Promoting the interests and professionals in coastal and marine geologists to pursue Continuing Professional Development (CPD);
- Publishing articles, journals, papers and other communications;
- Preparing press statements whenever necessary as IGM's response towards issue related to coastal and marine geology;
- Assisting government agencies and private sectors to develop policies and regulations related to coastal and marine geological practices and issues through IGM.

P.Geol. Abdullah Bin Hj. Sulaiman, *Professor Adjunct, F.I.G.M*
Chairman, Coastal and Marine Geology Technical Committee
Institute of Geology Malaysia

PAST WEBINAR CONDUCTED BY IGM (JULY-SEPTEMBER 2021)

NO	DATE	TITLE / TOPICS	SPEAKERS	NO. OF PARTICIPANTS & PLATFORM	COMMENTS FROM PARTICIPANTS
1	3rd Jul 2021	IGM GEOSEMBANG 1.0 (Geosains, Pendidikan dan Professionalisme: Kenapa dan Bagaimana?)	P.Geol. Abd Rasid Jaapar, Prof Dato' Dr Husaini Omar Moderator: P.Geol. Askury Abd Kadir	30 -ZOOM 25 views- FB LIVE	Very good discussion & exposure on Geo professionalisme
2	27th Jul 2021	GROUNDWATER TECHNICAL 1/2021	Dr Mohd Khairul Nizar Bin Shamsuddin, P.Geol. Zahir Bin Yahya	119 - ZOOM	Need to conduct more events like this
3	7th Aug 2021	IGM GEOSEMBANG 2.0 (Geosains Untuk Masyarakat: Kenapa Perlu)	P.Geol. Ahmad Nizam Hassan , P.Geol. Dato' Zakaria Mohamad Moderator: P.Geol. Askury Abd Kadir	30-ZOOM 28 Views-FB LIVE	Very satisfied
4	4th Sept 2021,	IGM GEOSEMBANG 3.0 (Industri Geosains: Siapa Pemacunya)	P.Geol. Dato' Amran Mohamad , P.Geol. Dato' Mior Sallehuddin Mior Jadid Moderator: P.Geol. Askury Abd Kadir	27-ZOOM 20 Views-FB LIVE	Two Thumbs Up
5	11th Sept 2021	DR TAJUL ANUAR JAMALUDIN MEMORIAL SEMINAR Case Histories in Engineering Geology and Rock Engineering	Prof Masahiro Chigira Dr Marvin Low P.Geol. Abd Rasid Jaapar Azam Abd Rahman Joehan Rohani P.Geol. Dr Abdul Ghani Rafek Dr Mohd Ashraf Mohamad Ismail P.Geol. Dr Rodeano Roslee Prof Andrew Malone Saiffuddin Sheafi P.Geol. Dr Rohayu Che Omar Dr Imam A. Sadisun Dr Lim Choun Sian P.Geol. Askury Abd Kadir Tan Boon Kong Dr Goh Thian Lai Dr Hamzah Husin Eng Boon Cheng P.Geol. Mohd For Mohd Amin P.Geol. Dr Mohd Hariri Ariffin	171- ZOOM	Very interesting; Hope it will be annual event
6	20th Sept 2021	WEBINAR GEOPHYSICS: MOST POWERFUL TOOLS IN SUBSURFACE INVESTIGATION	P.Geol. Dr Zuhar Zahir Tuan Harith	29-ZOOM	Excellent exposure on the technical and career opportunity
7	28th May 2021	GROUNDWATER TECHNICAL TALK 2/2021	Prof Dr Ahmad Zaharin Aris, P.Geol. Ismail Tawnie Moderator: P.Geol. Nizarul Ikram	167-ZOOM	Interesting topics, good discussion

PAST WEBINAR CONDUCTED BY IGM (JULY-SEPTEMBER 2021)



FUTURE SEMINAR & WEBINAR (OCTOBER-DECEMBER 2021)

NO	MONTH	PROPOSED DATE	TOPICS / THEMES	SPEAKERS
1	OCTOBER	Sat, 2nd October 2021	IGM Geosembang Maya bersama Pak Chu Bummy (Sumber Bumi: Pulihara atau Guna Musnah)	P.Geol. Hj Kamaruddin Abdullah P.Geol. Prof Dr Che Aziz Ali P.Geol. Askury Abd Kadir
2	OCTOBER	Sat, 9th October 2021	Konsep Asas Geologi Gunung -Ganang dalam Al-Quran	P.Geol. Haji Wan Mohamed Nizam Bin Haji Wan Isa P.Geol. Askury Abd Kadir
3	OCTOBER	Fri, 15th October 2021	Teh Tarik bersama Presiden (Etika & Amalan Profesional: Apa, Kenapa, Bagaimana, Bila dan Di Mana?)	Madam Mastura Binti Ma'sud P.Geol. Abd Rasid Jaapar
4	OCTOBER	Sat, 16th October 2021	Mengimarahkan Geopark Lembah Kinta (Cabaran, Perancangan & Halatuju)	Prof Emeritus Dr Mohd Shafeea Leman Prof Emeritus Dato Dr Ibrahim Komoo Mohamed Shah Redza Bun Hussein Mat Niza Bin Abdul Rahman Mohd Fadly Bin Md Noor
5	OCTOBER	TBC	Introduction to Petroleum System & Geomechanics in Oil and Gas Industry	TBC
6	OCTOBER	TBC	Seminar on Coastal and Marine Geology: Issues and Challenges of Urban Development on Peatlands in Malaysia	TBC
7.	OCTOBER	TBC	Structural Diversity in Malaysia	TBC
8	NOVEMBER	Wed, 3rd November 2021 (4-5pm)	Towed TEM tool for fast 3D Mapping of top 70 to 100 meters of the subsurface.	Soren Bjorn (Geophysicist with Aarhus GeoInstruments, Denmark)
9	NOVEMBER	TBC	IGM Geosembang Maya bersama Pak Chu Bummy	TBC
10	NOVEMBER	TBC	Seismic Refraction Survey-General Overview	TBC
11	NOVEMBER	TBC	Geological Aspect in EIA report	TBC

TBC: To Be Confirmed

FUTURE SEMINAR & WEBINAR (OCTOBER-DECEMBER 2021)

NO	MONTH	PROPOSED DATE	TOPICS / THEMES	SPEAKERS
11	NOVEMBER	TBC	Workshop on Geological Terrain Mapping	TBC
12	NOVEMBER	Thu, 25 November, 2021	Landform diversity in Malaysia	P.Geol. Dr. Tanot Unjah
13	DECEMBER	TBC	Micro gravity survey at Taman Maluri as a Investigative Tool for Building Settlement Issue.	P.Geol. Jamaludin Othman
14	DECEMBER	Sat, 4 December 2021	IGM Geosembang Maya bersama Pak Chu Bummy	TBC
15	DECEMBER	TBC	Forum: Necessities for Geology Subject in Primary and Secondary School	TBC
16	DECEMBER	TBC	Teamwork, leadership & communication training	TBC
17	DECEMBER	TBC	Technical Event On Hillslopes & Highlands Development-Approaches + Challenges Incorporatring Technological Advancement In Environmentally Challenging Areas	TBC

TBC: To Be Confirmed

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