

NATIONAL GEOSCIENCE CONFERENCE 2019 (NGC 2019)

1st – 3rd October 2019 The Palace Hotel, Kota Kinabalu, Sabah

Jointly organised by:











Foreword Chairman of National Geoscience Conference 2019 (NGC 2019 Kota Kinabalu)

Assalammualaikum Warahmatullahhi Wabarakatuh.

It is with great honour and privilege for me as the chairman to welcome all fellow participants, speakers, and invited guests in the National Geoscience Conference 2019 (NGC 2019). I am indebtly thankful to all the organizing committee that involved in the successful of this conference. My warm welcome also goes to the International and National attendees that coming from outside Sabah, 'Welcome the the State of Sabah, Land Below the Wind', there is a great opportunity to explore in the Nature Resort City of Kota Kinabalu.

The NGC 2019 is a continuation of the 31st annual conference series of The Geological Society of Malaysia to raise the cohesion of different research sphere. It is highly hope that the NGC 2019 would be pre-eminent platform for the up-to-date research and innovation discussion and outcome sharing in various field. The conference theme on 'Geosciences for the Earth Sustainability', is in line with the prolonged aims of this conference to provide prospects for researchers and academicians to interact, expand and exchange ideas; centering on the latest research activities; to establish and strengthened multidisciplinary collaboration to enhance the nation's niche research and development. We are very privileged to have in attendance so many distinguished experts and researcher, as well as observers from various field.

Correspondingly, the conference also highlights various concepts and topics in Geosciences encompassing disaster risk reduction, engineering geology & rock mechanics, mining & quarry, tectonic & structural geology, petroleum geology, sedimentology & paleontology, hydrogeology, environmental geology & geochemistry, conservation geology, geoarcheology & geotourism and any related to the applied or techniques in Geosciences. Again, I would like to extend highest gratitude to those who had dedicate their time and efforts for the successful preparation and organisation of the NGC 2019, the committee member, Faculty of Science and Natural Resources, Universiti Malaysia Sabah, keynote speakers, presenters, fellow participants for all the support and collaboration.

Finally, we hope this conference will benefit all participants and presenters and achieve their initial goals. I wish you all a very successful seminar and assure you of the full support from our committee.

Thank you

"Innovative and Sustainable Research Excellence"



ASSOC. PROF. DR. RODEANO ROSLEE Chairman National Geoscience Conference 2019 Faculty of Science and Natural Resources Universiti Malaysia Sabah









COMMITTED SPONSORS AND EXHIBITORS

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PROGRAM TENTATIVE

WORKSHOP SCHEDULE

WORKSHOP 1

30 th September 2019 (Monday)		
Workshop on Importance of Geosciences on Sustainable Development		
Session Chair: Assoc. Prof. Dr. Rodeano Roslee, PGeol.		
08:00 – 08:30 Registration		
08:30 - 08:45	-0	
08:45 – 09:15 Invited Speaker 1:		
Geologists Act – How It Will Affect Us		
YBhg. Dato' Yunus Bin Abdul Razak, PGeol.		
	(Presiden Lembaga Geologi Malaysia)(BOG)	
09:15 - 09:45	Invited Speaker 2:	
03.13	'Why Does Geology Matter for Sustainable Development? And the Roles of	
	Learned and Professional Organisations'	
	Mr. Abd. Rasid Jaapar, PGeol.	
	(Presiden Persatuan Geologi Malaysia)(GSM)	
09:45- 10:15	Invited Speaker 3:	
	JMG Role in Sustainable Development and People Well-Being: Sabah Context	
	Dr. Frederick Francis Tating	
	(Department of Mineral and Geoscience Sabah)	
10:15 - 10:30	Q&A Session	
10:30 - 11:00	Tea/Coffee Break	
11:00 – 11:30	Invited Speaker 4:	
	Geoscience and the Changing Climate	
	Prof. Dr. Joy Jacqueline Pereira	
	(Universiti Kebangsaan Malaysia)	
11:30 – 12:00 Invited Speaker 5:		
	Natural Hazards in Malaysia – Why Geologists are Needed Prof. Dr. Felix Tongkul	
	(Universiti Malaysia Sabah)	
12:00 – 12:30	Invited Speaker 6:	
12.00 12.00	Geoscience Inputs for the Proposed Guideline on Vulnerability Assessment	
	and Risk Index for Critical Infrastructures	
	YBhg. Dato' Zakaria Mohamad, PGeol.	
	(Presiden Institut Geologi Malaysia)(IGM)	
12:30 – 12:45	Q&A Session	
12:45 – 14:00	Lunch	
14:00 – 15:30	Discussion Session	
	Moderator: YBhg. Dato' Zakaria Mohamad, Mr. Abd. Rasid Jaapar and	
	Dr. Frederick Francis Tating	
15:30 - 16:00	Tea/Coffee Break	
16:00 – 16:30	Conclusion	









WORKSHOP 2

WURKSHUP 2			
1 st October 2019 (Tuesday)			
Workshop on Disaster Risk Reduction (DRR)			
Session Chair: Prof. Dr. Joy Jacqueline Pereira			
14:00 – 14:15	Enhancing Resilience to Geohazards through Communication: Key Principles and Approaches Dr. Alan Thompson		
(Cuesta Consulting Limited, United Kingdom)			
14:15 – 14:30	Earth Observation and Geospatial Technology Dr. Khamarrul Azahari Razak (Universiti Teknologi Malaysia)		
14:30 – 14:45	Debris Flow and Sediment-Related Disaster in Malaysia: A Perspective within DRR Framework YBhg. Dato' Zakaria Mohamad, PGeol. (Presiden Institut Geologi Malaysia)(IGM)		
14:45 - 15:00	Q&A Session		
15:00 – 15:15	Tea/Coffee Break and Poster Presentation		
15:15 – 15:30	Disaster Risk Resilient: Reflecting on Some Landslide Disasters in Malaysia Dr. Lim Choun Sian (Universiti Kebangsaan Malaysia)		
15:30 – 15:45	The Importance of Geological Input in Geohazards Risk Reduction Dr. Frederick Francis Tating (Department of Mineral and Geoscience Sabah)		
15:45 – 16:00	Pengecaman Geobahaya Tanah Runtuh Pendam di Tanah Tinggi Tropika: Beberapa Contoh dari Cameron Highland dan Kundasang Malaysia Assoc. Prof. Dr. Tajul Anuar Jamaluddin (Universiti Kebangsaan Malaysia)		
16:00 – 16:15	Greening the Slope: Public Works Department of Malaysia (JKR) Experience towards Sustainable Development Nicholas Jacob (Department of Mineral and Geoscience Selangor)		
16:15 - 16:30	Q&A Session		
16:30 – 16:45	Disaster Resilient Cities: Forecasting Multi-hazards for Kuala Lumpur Dr. Nurfashareena Mohamad (Universiti Kebangsaan Malaysia)		
16:45 – 17:00	Landslide Susceptibility Analysis of Kuala Lumpur Elanni Md Affandi (Universiti Kebangsaan Malaysia)		
17:00 – 17:15	Application of Multiple Geoscience Approach in Geohazards Assessment of Problematic Urban Highway Section in Kuala Lumpur Abd Rasid Jaapar (President of Geological Society of Malaysia)		
17:15 – 17:30	Tsunami Induced Deposit in Semantan Formation around Jerantut Pahang: A New Perspective Askury Abdul Kadir (Geological Society of Malaysia)		
17:30 – 18:00	Q&A Session Discussion / Conclusion		









CONFERENCE SCHEDULE

30 th September 2019 (Monday): PRE REGISTRATION Time : 14:30 — 16:30				
Venue : The Palace Hotel (Level 6)				
	1 st October 2019 (Tuesday)			
08:00 - 09:00	Registration			
09:00 - 09.30	Opening Ceremony			
	Session Chair: Mdm. Melissa Sharmah Gilbert			
09:30 - 10:00	Keynote Speech 1:			
	Tsunami Hazard in Sabah – Way Forward			
	Prof. Dr. Felix Tongkul			
	(Universiti Malaysia Sabah)			
10:00 - 10:30	Tea/Coffee Break and Poster Presentation			
	Session Chair: Mdm. Melissa Sharmah Gilbert			
10:30 - 11:00	Keynote Speech 2:			
	Geoscience for Building Disaster Resilience			
	Prof. Dr. Joy Jacqueline Pereira			
	(Universiti Kebangsaan Malaysia)			
11:00 - 12:00	Parallel Sessions			
12:00 - 14:00	Lunch			
14:00 - 15:00	Parallel Sessions			
15:00 - 15:30	Tea/Coffee Break and Poster Presentation			
15:30 - 18:00	Parallel Sessions			
19:00	Welcoming Dinner			
	2 nd October 2019 (Wednesday)			
	Session Chair: Mdm. Melissa Sharmah Gilbert			
09:00 - 09:20	Keynote Speech 1:			
Conservation Geology: From Knowledge to Society				
	YBhg. Prof. Emeritus Dato' Dr. Ibrahim Komoo			
	(Universiti Kebangsaan Malaysia)			
09:20 - 09.40	Keynote Speech 2:			
	Nickel Mining and Its Environmental Impact			
	Prof. Dr. Muhammad Nurdin			
	(Universitas Halu Oleo)			
09:40 - 10:00	Tea/Coffee Break and Poster Presentation			
10:00 – 12:30	Parallel sessions			
12:30 – 14:00	Lunch			
14:00 - 15:00	Parallel Sessions			
15:00 – 15:30	Tea/Coffee Break and Poster Presentation			
15:30 - 17:00	Parallel Sessions			
17:00 - 17:30	Closing ceremony			









PLENARY KEYNOTES

PROF. EMERITUS DATO' DR. IBRAHIM KOMOO



Ibrahim Komoo, FIGM, FASc, DSNS, P. Geol. is Principal Fellow at Langkawi Research Center (PPL), Institute for Environment and Development, Universiti Kebangsaan Malaysia. He is also Distinguished Visiting Professor and the holder of the Chair for Iskandar Malaysia at Center for Tropical Geoengineering (Geotropik) at UTM. He graduated from Universiti Kebangsaan Malaysia (UKM) in 1976 and obtained his PhD from Strathclyde University, Glasgow in 1979. His fields of specialization include Engineering Geology; Environmental Geology; and Sustainability Science. Since 1996 he has conduct research on geoheritage conservation, geotourism and geopark and pioneered global geopark network. Currently, he is Vice President, Global Geoparks Network Association (GGN);

Expert/ Evaluator, UNESCO Global Geoparks; Advisory Committee of Asia Pacific Geoparks Network; Advisor of Langkawi UNESCO Global Geopark; Chairman of National Geopark Implementation Committee; and Chairman, Council of Heritage, Malaysia.

PROF. DR. FELIX TONGKUL



Dr. Felix Tongkul is Professor of Geology at the Faculty of Sciences and Natural Resources at Universiti Malaysia Sabah. He is also a Fellow of the Malaysian Academy of Sciences. Felix holds a BSc and PhD in Geology from Universiti Kebangsaan Malaysia (1983) and University of London (1987), respectively. For the past 35 years he has been doing research on the geological evolution of Sabah and Sarawak. Since 1996 he has been involved in research related to promotion of geological and landscape heritage for geotourism in Sabah. Lately, he has been actively involved in geological hazards studies, such as earthquake, tsunami, landslides and floods in Sabah. He is currently the Director of the Natural Disaster

Research Centre (NDRC) at Universiti Malaysia Sabah.











PROF. DR. JOY JACQUELINE PEREIRA



Professor Joy Jacqueline Pereira is a Principal Research Fellow at Universiti Kebangsaan Malaysia's Southeast Asia Disaster Prevention Research Initiative (SEADPRI-UKM) and Fellow of the Academy of Sciences Malaysia. Professor Pereira is a professional geologist registered with the Board of Geologists Malaysia, Past President of the Geological Society of Malaysia and Fellow of the Institute of Geology Malaysia. She was active in the Commission on Geoscience for Environmental Management of the International Union of Geological Sciences (IUGS-GEM) for about a decade and retired after serving as Chair from 2004 to 2008.

At the national level, Prof. Pereira serves as a Resource Person to the Malaysian Government in negotiating international agreements. At the international level, Professor Pereira is Vice-Chair of the Intergovernmental Panel on Climate Change (IPCC) Working Group 2 on Impacts, Adaptation and Vulnerability. She is also a Board Member of the United Nations Office for Disaster Risk Reduction (UNDRR) Asia Pacific Science, Technology and Academic Group (APSTAAG) that supports governments in science-based decision making to implement the Sendai Framework for Disaster Risk Reduction. She is a Director of the Asian Network on Climate Science and Technology (www.ancst.org), working closely with University of Cambridge, which brings together researchers from various disciplines to a multidisciplinary platform to strengthen their capacity in topics of importance for building disaster resilience in the region

PROF. DR. MUHAMMAD NURDIN



MUHAMMAD NURDIN was born in Ujung Pandang, June 6, 1966. Completed a Bachelor of Science in Chemistry at the Faculty of Mathematics and Natural Sciences, Universitas Hasanuddin, Makassar (1992), Master of Science in Chemistry at the University of Tasmania, Australia (1998), Doctoral Program in Environmental Chemistry (2008) at the Universitas Indonesia, Jakarta, and Inauguration as Professor of Environmental Analytical Chemistry (2014). In addition, education was taken in Japan, the Tokyo Institute of Technology Sandwich Program (2006-2007).









LIST OF PRESENTATIONS

Disaster Risk Reduction, Engineering Geology & Rock Mechanics

ID No.	Title	Authors
A043	Rock Slope Discontinuity Sets Extraction From Photogrammetric Point Cloud Using Cloud Compare And DSE	Sharan Kumar Nagendran and Mohd Ashraf Mohamad Ismail
A068	Historical Earthquake Catalogue Data For Seismic Hazard Assessments In Peninsular Malaysia	Meldi Suhatril, Puteri Azura Sari, Ismail Othman and Hendriyawan
A069	Case Studies and Record For Induced Ground Deformation Caused By Retaining Wall Installation	Frankie Cheah, Mohd Ashraf Mohd Ismail and Law Kim Hing
A075	Basic Friction Angle Value of Planar Surface For The Sandakan Formation, Sabah, Malaysia	Ismail Abd Rahim, Rasyidah Moneey and Baba Musta
A081	Spatial Statistical Analysis of Earthquakes In Sabah, Malaysia	Mohamad Bin Abd Manap
A098	Landslide Susceptibility Analysis of Kuala Lumpur Using Bivariate Statistical Analysis For Geohazard Assessment	Elanni Md Affandi, Ng Tham Fatt, Ferdaus Ahmad, Vanessa J. Banks, Christian Arnhardt, Zamri Ramli and Qalam A'Zad Rosle
A108	Integration of GIS-Based MUSLE Model For Flood Disaster Assessment in Kota Belud Area, Sabah, Malaysia	Rodeano Roslee and Kamilia Sharir
A109	Flood Susceptibility Analysis Using Geospatial Frequency Ratio In Kota Belud, Sabah	Kamilia Sharir and Rodeano Roslee
A110	Landslide Susceptibility Analysis Using Factor Analysis Model (FAM) In Kota Kinabalu, Sabah	Mahadi Santa and Rodeano Roslee
A111	The Sabah Annex For Did Guideline For Erosion and Sediment Control In Malaysia: A Case From Sabah West Coast	Jeffery Anak Pirah and Rodeano Roslee
A119	Pengecaman Geobahaya Tanah Runtuh Pendam Di Tanah Tinggi Tropika- Beberapa Contoh Dari Cameron Highland dan Kundasang Malaysia	Tajul Anuar Jamaluddin
A126	Tsunami-Induced Deposit In Semantan Formation Around Jerantut, Pahang: A New Perspective	Askury Abd Kadir, Mohd Suhaili Ismail, Choong Chee Meng and Jasmi Ab Talib
A131	Slope Failure Run-Out Estimation From Earthquake Disaster: A Case Study In Mesilou, Kundasang	Hennie Fitria Wulandary Soehady Erfen and Baba Musta
A142	A Systematic Literature Review on Community Resilience To Natural Disaster: Enhance Risk Management For Sustainable Forest Management In Sabah	Hardawati Yahya
A143	Disaster Resilient Cities: Forecasting Multi-Hazards For Kuala Lumpur	Nurfashareena Muhamad , Joy Jacqueline Pereira and Julian Hunt
A151	Slow Onset and Emerging Hazards In The Coastal Zone of Kuala Selangor, Malaysia	Nurul Syazwani Yahaya, Umi Amira Jamaluddin and Joy Pereira
A042	Kesan Pengunaan Bahan Perapi Tanah Organik Bagi Merawat Tanah Jerlus Di Kawasan Penaman Padi, Alor Senibong, Kedah	Wan Mohd Razi Idris











A046	Modified Grout Pressure Method For Predicting Ground Surface Settlement In Kenny Hill Formation	Darvintharen Govindasamy, Mohd Ashraf Mohamad Ismail and Mohd Faiz Mohammad Zaki
A077	Rock Mass Classification in Tunnelling - A Practical Approach	Mogana Sundaram N
A141	Risk of Biotic Degradation on Structural Wood	Melissa Sharmah Gilbert Jesuet and Roziela Hanim Alamjuri
A152	Application of Multiple Geoscience Approaches In Geohazards Assessment of Problematic Urban Highway Section In Kuala Lumpur	Afiq Farhan Abd Rahim, Abd Rasid Jaapar, Mohd Farid Mohd Dali and Mohd Faruq Syahmi Md Aripin
A153	Model Fitting on Earthquake Occurrence In Sabah	Su Na Chin, Tongkul Felix, Zaturrawiah Ali Omar and Rodeano Roslee
A004	Evaluation of Rock Cut Slope Stability of Sandakan Formation by Modified-Slope Mass Rating (M-SMR) System, Sabah, Malaysia	Rasyidah Moneey, Ismail Abd Rahim and Baba Musta
A080	Probabilistic Seismic Hazard Assessment of Balik Pulau Region, Pulau Pinang	Siti Noor Shafiqah Badrolhisham And Abdul Halim Abdul Latiff
A025	Application of Geohazard-Seismic: Influence of Channel Structure Towards Gas Cloud Distribution At 'B' Field	Norazif Anuar Hasni, Nur Shafiqah Shahman, Deva Prasad Ghosh and Jasmi Ab Talib
A067	Greening The Slopes – Public Works Department of Malaysia (JKR) Experiences Towards Sustainable Development	Nicholas Jacob T Jacob
A044	A Study on Influence of Twin Tunnel Configuration In Kenny Hill Formation Using Numerical Approaches	Darvintharen Govindasamy, Mohd Ashraf Mohamad Ismail and Mohd Faiz Mohammad Zaki
A045	Correlation Between Uniaxial Compressive Strength, Point Load Test, Young Modulus And Schmidt Hardness For Weathered Limestone	Sharan Kumar Nagendran and Mohd Ashraf Mohamad Ismail
A064	Land Use/Land Cover Change of Delhi Region Using Remote Sensing and Gis Techniques	Abdul Qadir, Ismail Ahmad Abir, Maryam Tahir and Naseem Akhtar
A106	Correlation for Estimating The Static Young's Modulus of Limestone	Ailie Sofyiana Serasa, Goh Thian Lai and Abdul Ghani Ms. Rafek
A144	Applying Fuzzy Contrast Enhancement on Earthquake Impact Images	S. Zenian, R. Roslee and N. Hamzah











Mining & Quarry

ID No.	Title	Authors
A016	Spatial Relationship Quantification of Mineralization Factors and Gold Potential Mapping in Kelantan, Malaysia	Mathew Gregory Tagwai and Kamar Shah Ariffin
A023	Assessment of Spatial Distribution of Heavy Metal Associated with Mining Activities using Compositional Data Analysis in Sg Koyan, Pahang	Piseth Heng, Kamar Shah Arrifin and Hareyani Binti Zanidi
A095	Mineral Production and Mining Industry Linkages In The Economy of Malaysia	Mohd Suhaili Ismail and Haniza Zakri
A053	Source Rock Pyrolysis and Thermal Maturity of Tertiary Coals from the Merit-pila Coalfield, Central Sarawak, Malaysia.	Nor Syazwani Zainal Abidin, Wan Hasiah Abdullah and Khairul Azlan Mustapha
A036	Distribution of Minerals From Sungai Terengganu: Upstream Vs Downstream Fluvial Section	Athia Dalily Baharuddin, Ahmad Mursyidi Alias, Ali Imran Azman, Mohamad Shaufi Sokiman, Md Yazid Mansor, Jasmi Ab Talib, M Suhaili Ismail, Abdullah Sulaiman, Effi Helmy Ariffin and Idham Khalil

Tectonic & Structural Geology

ID No.	Title	Authors
A113	Mapping of Major Fault Structures by Gravity Technique In Peninsular Malaysia	Nurul Fairuz Diyana Bahrudin, Umar Hamzah and Wan Zuhairi Wan Yaccob
A006	Crustal Thickness And Velocity Structure of Kota Kinabalu Region	Abdul Halim Abdul Latiff and Faridah Othman
A012	The Jalan Wangsa Thrust In Eastern Kuala Lumpur; A Marker For A Major Crustal Boundary Between The Leading Edge of The Sibumasu Block and The Sukhothai Arc?	A. Graham Leslie, Ng Tham Fatt, Qalam A'zad bin Rosle, Ramzanee Mohd Noh, Thomas J.H. Dodd, Martin R. Gillespie and Marcus R. Dobbs
A130	Palaeo-Channel Morphology and Distributions in The Straits of Malacca During The Last Glacial Maximum	Abdullah Sulaiman, Hasrizal Shaari, Aidy M Muslim, Siti Aishah Ishak, Sumayyah Mohd Huri Al-Amin and Mohamad Shaufi Sokiman
A026	Seismic Attributes for Faults Interpretation and Geomorphology: Application to N-Field, Malay Basin, Malaysia	Nur Shafiqah Shahman, Norazif Anuar Hasni and Deva Prasad Ghosh









Petroleum Geology, Sedimentology & Paleontology

ID-1		
ID No.	Title	Authors
A033	Lithofacies of The Jurassic-Cretaceous Continental Deposit Along Jerantut-Maran Road In Jerantut, Central Pahang	Azyan Syahira Azmi, Mohd Suhaili Ismail and Jasmi Ab Talib
A007	Assessment of Petroleum Source Rock Potential and Paleodepositional Conditions of The Paleozoic Carbonaceous Shales of The Kubang Pasu And Timah Tasoh Formations In Central Perlis, Malaysia	Muhammad Nadzmi Abdul Ghofur, Wan Hasiah Abdullah and Yousiff Mohammed Makeen Ahmed
A052	Petrographic & Petrophysical Properties of Turbidite Sandstones of West Crocker Formation, Sabah	Nurul Syahidatul Balqis Haidzir
A115	The Idanre Granite Complex, Southwestern Nigeria: A Synopsis And Paradigm of Petrographic And Petrochemical Characterization.	Oluwatoyin Akinola
A124	The Continental Shelf Beyond 200 Nautical Miles: Overview of Exploration And Exploitation of Its Natural Resources	Mazlan Madon
A125	What Lies Beneath: Deep-Marine Trace Fossils In The West Crocker Formation and Their Palaeoenvironmental Significance	Mazlan Madon
A132	Sedimentologi Jujukan Batu Pasir Bertangga Di Air Terjun Bukit Bertangga, Pahang.	Khor Wei Chung, Kamal Roslan Mohamed, Che Aziz Ali, Muhammad Ashahadi Dzulkifli and Jasmi Ab Talib
A086	Source Rock Evaluation of Deep-Marine Turbidites In The Semanggol And Semantan Formations, Peninsular Malaysia	Zulqarnain Sajid and Hassan Baioumy
A088	Analysis of Mechanical Behaviour of Reservoir Rock Properties	Kwan Mei Fern and Noraini Surip
A107	Litho- and Biostratigraphy of The 'Black Shale' Facies (Chert Unit) Of The Semanggol Formation At Kampung Kubu Gajah (N Perak, Peninsular Malaysia)	Nurliyana Hamdan and José Antonio Gámez Vintaned
A121	Sequence Stratigraphic Interpretation For Delineation of Hydrocarbon Sand In A Shallow Gas-Prone Reservoir, West Baram Delta, Sarawak, Malaysia	Najmuddin Abdul Rahim, Wan Ismail Wan Yusoff and Kurniawan Adha
A008	Lessons From Deep 2d Seismic Over Central Luconia Province, Offshore Sarawak	Siti Nur Fathiyah Jamaludin, Benjamin Sautter, Manuel Pubellier and Michael Poppelreiter
A010	Multiple-Seismic Attributes Efficiency For Seismic Sequence Stratigraphy Interpretation	Abd Al-Salam Abduh Saeed Almasgari, Deva Parsad Ghosh and Abdul Hadi Bin Abd Rahman
A011	New Insights Into The Sedimentology of The Kenny Hill Formation, Peninsular Malaysia	Thomas J.H. Dodd, Ng Tham Fatt, Qalam A'zad bin Rosle, Ramzanee Mohd Noh, A. Graham Leslie, Marcus R. Dobbs and Martin R. Gillespie











A015	Deep Marine Paleogene Sedimentary Sequences of West Sabah: Contemporary Opinions and Ambiguities	Muhammad Jamil, Abdul Hadi Abd Rahman, Numair Ahmed Siddiqui and Nisar Ahmed
A021	The Sedimentology And Depositional Environment of The Late Jurassic - Cretaceous Pedawan Formation, Serian Area, West Sarawak	Najiatun Najla Mohamad, Abdul Hadi Abd Rahman and Mohd Suhaili Ismai
A032	Closer Look of The Stratigraphy And Structural Patterns of The Neogene Basin In The Offshore Of Kudat Peninsula	Nabilah Mohamed Zainuddin, Siti Nur Fathiyah Jamaludin and Mohd Suhaili Ismail
A096	Evaluating The Stratigraphic Trapping Mechanism In X-Block, Penyu Basin	Nik Nur Anis Amalina Nik Mohd Hassan and Kim Kiat Liaw
A099	The Holocene Development Of Perak River And Coastal- Deltaic Plain	Abdul Hadi Abd Rahman, Nur Afiqah Ismail and Maizatul Asnida Abd Manaf
A105	West Crocker Subdivisions: West Crocker, East Crocker, North Crocker & South Crocker Formations	Nurul Syahidatul Balqis Haidzir
A123	Impact of Sandstone Mineralogy On Reservoir Quality of Sandstones: A Case Study Of The Miri Formation, Sarawak, Malaysia.	Octaviana Antonia Feliz Soares de Jesus, Noraini Surip and Joel Ben- Awuah
A127	Analisis Fasies Sekitaran Paralik Formasi Kalumpang Di Pulau Sebatik, Sabah	Muhammad Umar Sarimal, Sanudin Hj. Tahir, Baba Musta and Junaidi Asis
A048	Sedimentology of Turbidites-Bearing Pedawan Formation (Jurassic-Cretaceous), Sarawak. Observation From Outcrops In Batu Kawa Area	Syazwan Afiq Shaharuddin
A059	Deepwater Sediment Fill In Sabah Trough and Beyond	Satyabrata Nayak, Prabal Shankar Das, Azwari Huslan B Mohd and Anyi Ngau
A063	Sedimentology and Diagenesis of The Early Miocene Nyalau Formation, Bintulu Area, Sarawak, Malaysia	Noureen Shoukat, Numair Ahmed Siddiqui, Abdul Hadi Abd Rahman, Syed Haroon Ali
A140	Oligosen Akhir – Miosen Awal Foraminifera Bentos Kecil Dari Formasi Crocker Dan Formasi Temburong, Selatan Semenanjung Klias	Junaidi Asis
A087	Sedimentary Fabrics, Depositional Environment, and Provenance of The Late Neoproterozoic Hazara Formation, Lesser Himalayas, North Pakistan	Qamar UZ Zaman Dar, Pu Renhai, Shahid Ghazi, Abdul Wahab, M. Riaz, Zulqarnain Sajid and Tahir Aziz
A089	Sedimentary Facies and Depositional Environment of Late Neogene Deposite; Case Study In Majalengka Sub-Basin, Indonesia	Yonash Philetas Immanuel, Fasha Nurkala Kalidasa, M. Hakim Al Amin, Padel Mohammad Agam and Ahlun Nizar
A035	Facies Characterization and Stable Isotope Application on Ex Field, Central Luconia, Offshore of Sarawak	Nor Shamsimah Ab Rahman, Haylay Tsegab and Michael C. Poppelreiter









A147	Characterization of Lower J Reservoirs, Malay Basin at Field X By Using Well Logs, Petrography, XRD, LPSA and Core Analysis Result	Fadzlin Hasani Bin Kasim, Numair Ahmed Siddiqui and Amita Ali
A022	Facies Analysis of The Pedawan Formation In Kota Padawan - Siburan Area, Kuching, Sarawak.	Nur Marina Samsudin and Abdul Hadi Abdul Rahman
A057	Facies Analysis of Deep Marine Channel To Lobe Deposits of Maastrichtian Layar Member of The Belaga Formation, Rajang Group, Sarawak	Nisar Ahmed, Hassan Baioumy, Ahmed Mohamed Ahmedsalim, Abdul Hadi Abd Rahman and Muhammad Jamil
A118	Depth Distribution of Optimally Preserved Larget Benthic Foraminiferal Tests In The Sublittoral and Uppermost Bathyal Zones Northwest of Okinawa Island, Japan	Wan Nurzalia Wan Saelan
A154	Reservoir Properties Prediction using Stochastic Inversion	Qazi Sohail Imran, Deva Prasad Ghosh and Numair Ahmad Siddiqui

Conservation Geology, Geoarchaeology & Geotourism

ID No.	Title	Authors
A078	Archaeo-Geotourism: Potential Palaeolithic Site In Eastern Sabah	Siti Khairani Abd Jalil, Nor Khairunnisa Talib and Mokhtar Saidin
A104	Potential Geoheritage Values of Gua Sireh, Baling Kedah	Nursufiah Sulaiman, Noorzamzarina Sulaiman, Norshafika Abdullah, Nur Syafiqa Mohd Sabari and Nur Farina Roslan
A117	Database And Conservation of Limestone Hills In Malaysia	Thor Seng Liaw, Jun Kitt Foon and Gopalasamy Reuben Clements
A122	Geokarst Education Potential of The Merapoh Caves: Lipis Aspiring Geopark, Malaysia	Norbert Simon
A139	Environmental Attitudes and Preferences For Mangrove Conservation At Kilim Karst Geo-Forest Park, Langkawi, Malaysia	Nurliyana Aqilah Asri and Fazilah Musa

Hydrogeology, Environmental Geology & Geochemistry

ID No.	Title	Authors
A019	Soil Nutrients and Relation to Basal Stem Rot Disease Incidences In Oil Palm Estates With Different Agronomic Practices	Racheal Khai Shyen Lo and Chong Khim Phin
A005	Kesan Suhu Terhadap Cirian Mekanik Bata Sisa Rawatan Air Mentah dan Abu Terbang	Zulfahmi Ali Rahman, Othman Akrimi Maswa and Wan Mohd Razi Idris
A013	Biogeochemical Behavior Of Nutrients In Soil-Plants From Oil Palm Estate, Tawau, Sabah	Racheal Khai Shyen Lo, Baba Musta and Chong Khim Phin
A018	Geophysical Survey and Lineament Study For Groundwater Exploration At Pulau Mengalum, Sabah	Mohd Hariri Arifin, Muhammad Khairel Izzuan Ismail and Tajul











	Anuar Jamaluddin
Cased Hole Formation Resistivity Contribution in Water Management and Production Enhancement of Mature Reservoirs	Ghareb Hamada, Osama Mahdy and Murro Chandran
Analysis of Rare Earth Elements in Soil, Rock and Concentrate Samples by LA-ICP-MS from JMG's Experience	Mohd Zahar Ibrahim
Petrography of Andesite Ignimbrite In Temangan, Kelantan	Nur Shafiqah Shahman, Arham Muchtar Achmad Bahar, Elvaene James, Muhammad Irfan Abdul Hadhi and Norazif Anuar Hasni
Geochemistry of Granites In Gua Musang	Nor Shahida Shafiee, Lilly Azleena Azreen Bahrin, Arham Muchtar, Ainaa Mardhiyah Hassin and Muhammad Muqtada Ali Khan
Comparative Evaluation of Microwave Assisted Acid Digestion and Li-Borate Fusion Method For Determination of Rees In Malaysian Monazite Using ICP-MS	Sanjith Udayakumar, Teuku Andika Rama Putra, Ahmad Fauzi Mohd Noor, Norlia Baharun and Sheikh Abdul Rezan
Hydrogeochemical Characteristics of Groundwater In Coastal Zone of Terengganu River Basin	Nor Bakhiah Baharim, Nurfatin Adibah Kassim, Syazwan Aiman Mat Hasdi, Fatin Illianie A. Ishak, Siti Mastura Jamaludin, Effi Helmy Ariffin, Kamarudin Samuding, Roslanzairi Mostapa, Joseph Bidai and Noor Azhar Mohamed Shazili
Zircon U-Pb and Hf Isotope Constraints on The Neogene Semporna Peninsula Volcanic Rocks and Its Tectonic Implications	Elvaene James and Azman A. Ghani
Combined of In Tank Aeration and Ozonation Groundwater Treatment System In Kg Melai, Tasik Chini, Pekan, Pahang.	Azrul Normi Idris, Ismail Tawnie, Anuar Sefie and Khairul Nizar Samsudin
Groundwater Quality Assessment In Small Island Aquifer, Mabul Island, Sabah	Azrul Normi Idris, Mohd Khairul Nizar Shamsuddin, Anuar Sefie and Ismail Tawnie
Using The Down The Borehole Camera Technology For Groundwater Inspection In Selangor, Malaysia	Mohd Khairul Nizar Shamsuddin, Anuar Sefie, Azrul Normi and Ismail Tawnie
Carboniferous Ammonoids from the Kubang Pasu Formation, Hutan Aji, Perlis	Meor Hakif Amir Hassan and Ralph Thomas Becker
Geochemistry of Permo-Triassic Meta-Sedimentary Rocks of Southern Part Ulu Sokor Gold Mine Deposit, Kelantan, Peninsular Malaysia: Emphasizing on Source Area, Provenance, Recycling and Depositional Tectonic Setting	Ahmad Fauzan Yusoff, Jasmi Hafiz Abdul Aziz, Chong Khai Yuen and Nurul Naqiah Hanny Kamarzaman
Major And Trace Elemental Analysis of The Belata Black Shales In Peninsular Malaysia	Esther Boateng Owusu, Tsegab Haylay and Cornelius Borecho Bavoh
	Management and Production Enhancement of Mature Reservoirs Analysis of Rare Earth Elements in Soil, Rock and Concentrate Samples by LA-ICP-MS from JMG's Experience Petrography of Andesite Ignimbrite In Temangan, Kelantan Geochemistry of Granites In Gua Musang Comparative Evaluation of Microwave Assisted Acid Digestion and Li-Borate Fusion Method For Determination of Rees In Malaysian Monazite Using ICP-MS Hydrogeochemical Characteristics of Groundwater In Coastal Zone of Terengganu River Basin Zircon U-Pb and Hf Isotope Constraints on The Neogene Semporna Peninsula Volcanic Rocks and Its Tectonic Implications Combined of In Tank Aeration and Ozonation Groundwater Treatment System In Kg Melai, Tasik Chini, Pekan, Pahang. Groundwater Quality Assessment In Small Island Aquifer, Mabul Island, Sabah Using The Down The Borehole Camera Technology For Groundwater Inspection In Selangor, Malaysia Carboniferous Ammonoids from the Kubang Pasu Formation, Hutan Aji, Perlis Geochemistry of Permo-Triassic Meta-Sedimentary Rocks of Southern Part Ulu Sokor Gold Mine Deposit, Kelantan, Peninsular Malaysia: Emphasizing on Source Area, Provenance, Recycling and Depositional Tectonic Setting Major And Trace Elemental Analysis of The Belata Black









A090	Study of Ouw Natural Clay-Tio2 Composites Synthesis Method For Application To Linear Alkylbenzene Sulfonat Surfactant Degradation Reactions.	Catherina Bijang	
A094	Evaluation of Water Physicochemical Parameters on Acid Mine Drainage Impact Surrounding Tasik Puteri Area, Terengganu	Fatihah Azmi and Izhar Abadi Ibrahim Rais	
A097	Groundwater Hydrogeochemistry Assessment In Langat River Basin, Malaysia	Anuar Sefie, Ismail Tawnie, Mohd Khairul Nizar Shamsuddin, Azrul Normi Idris, Syaiful Bahren Saadudin and Munirah Abdul Zali	
A112	Molecular and Trace Element Geochemistry of The Shales of Patti Formation In The Southern Bida Basin, Nigeria	Mutiu A. Adeleye, Omotola, O. Odurinde and Wan H. Abdullah	
A114	Estimation of Water Surface Level Using Digital Terrain Model In Data Sparse Environment	Mohd Talha Anees	
A116	Trace Elements Concentration In Quaternary Shallow Aquifers of Northern Kelantan, Malaysia	Mohammad Muqtada Ali Khan, Kishan Raj Pillai Mathialagan, Hafzan Eva Mansor, Aweng Eh Rahk and Talha Anees	
A120	Effects of Rainfalls And Air Temperature on Groundwater Levels In Kedamaian Basin, Kota Belud Sabah	Jaineh Linggi, Zulherry Isnain dan Baba Musta	
A132	Trace Element Fractionation Behaviour of Soil From Benta Alkali Syenite	Siti Nadzirah Nazri, Azman Abd Gahni and Jasmi Hafiz Abd Aziz	
A136	Heavy Metals Content In Ultrabasic Soil and Plant Around Ranau Sport Complex, Sabah, Malaysia	Sahibin Abd Rahim	
A137	Characterization of Sacharomyces Cerevisiae Isolated From Sabah Soil For Fuel Ethanol Production	Rahmath Abdulla, Ainol Azifa Mohd Faik and Suraya Sani	
A138	Mining The Microbiome: A Mini Review on Natural Products Discovery From Soil	Suraya Abdul Sani, Rahmath Abdulla, Ainol Azifa Mohd Faik and Akid Md Haris	
A049	Geochemistry of Volcanic Rock In Pulai, Peninsular Malaysia, Emphasis on Tectonic Implication	Nur Nadwa Syahirah Ai Zamruddin and Jasmi Hafiz Abdul Aziz	
A027	The Integration of GIS and Ahp Techniques For Mapping of Groundwater Potential Zones In Johor Southern Region, Malaysia	Mohd Shahrul Syukri Yahya	
A041	Liberation Studies of Malaysian Monazite Concentrates: Effect of Grinding and Concentration Processes	Sanjith Udayakumar, Sheikh Abdul Rezan, Ahmad Fauzi Mohd Noor, Teuku Andika Rama Putra, Roshasnorlyza Hazan, Khaironie Mohamed Takip and Norlia Baharun	
A135	Characterization and Potential Industrial Application of Gypsum Rich Waste	Nur Nadhirah Zailan and Kamar Shah Ariffin	
A145	Accumulation of Heavy Metals In Rice Grown From Rainfed Rice Field In Highland of Kiulu Valley, North Borneo	Diana Demiyah Mohd Hamdan, Nurain Nabihah Roslan and Sahibin Abd Rahim	











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A050	Geothermal Studies In Clay Dominated Area Using 2-D Resistivity Imaging Method	Nuraisyah Samsudin, Nordiana Muztaza and Muhammad Taqiuddin Zakaria		
A009	Crustal Modelling Along The Port Dickson –Kuala Rompin Transect	Previna Arumugam, Chee Meng Choong, Weng Sum Chow, Benjamin Sautter, M Noor Amin Zakariah, Muhammad Azfar Mohamed, Sanjiv M Kumar and Azyan Syahira Azmi		
A014	Geothermal Exploration Using 2d Resistivity Imaging and Geomagnetic Method In North Sumatera, Indonesia	Muhammad Kadri, Nordiana Mohd Muztaza and Irfandi		
A029	Subsurface Investigation For Cocoa Cluster - Ranau Highland Cluster Development Project, Ranau, Sabah.	Abdul Manan Abdullah, Mohamad Kamal Izzat Najid and Mohd Hariri Arifin		
A034	Subsurface Structures and Minerals Identification Using Electrical Method and Geological Analysis at Bojonegoro District, Indonesia.	Nur Farhah Ali, Nur Azwin Ismail, Nordiana Mohd Muztaza, Rosli Saad, Khairul Azlan Mustapha and Mohd Danial Fikri Mohd Rani		
A039	Survei Geofizik Menggunakan Kaedah Keberintangan Elektrik Dan Pengutuban Teraruh Bagi Profil Bawah Permukaan Di Loji Rawatan Air Sungai Bilut, Raub, Pahang	Zulaika Farhani Salehudin, Abdul Manan Abdulla and Mohd Hariri Arifin		
A058	Prediction of Unload-Reload Pressuremeter Modulus (EUR) Using Gmdh-Neural Network: A Case Study Of Kenny Hill Formation	Mohd Faiz Mohammad Zaki, Mohd Ashraf Mohamad Ismail and Darvintharen Govindasamy		
A060	The Application of The Persistent Scatterer (PS) and Small Baseline (SBAS) Interferometry Techniques To Detect Surface Deformation In Penang Island With Palsar Data	Kazeem Rauff and Ismail Abir		
A071	Calibration of In-Situ Pressuremeter Test Using Numerical Simulation: A Case Study Of Kenny Hill Formation	Mohd Faiz Mohammad Zaki, Mohd Ashraf Mohamad Ismail, Darvintharen Govindasamy and Lim Siao Phin		
A074	Enhancement of Peat Soil Properties By Applying Electrokinetic Stabilization (EKS) Method At Parit Parit Kuari, Johor, West Malaysia	Abdul Wahab, Zaidi Embong, Qamar Uz Zaman and Hidyat Ullah		











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A091	Diving Wave Tomography: Forward Modelling on Synthetic Data Simulating Shallow Gas Anomaly	Amatul Syafi Abdul Basit, Abdul Rahim Md Arshad and Deva Ghosh
A100	Thought-Provoking Observations of The Regional Gravity Fabrics of East Malaysia	Zuhar Tuan Harith
A102	Application of Electrical Resistivity Tomography To Identify Suitable Location of Shallow Tube Well For Irrigation	Muhammad Haniff Ahmad
A128	Utilizing The Magnetic Source Edge Detection (MSED) Method In Mapping Geologic Features Within A Sedimentary Basin	Gerald Eko Ejiga, Ismail Yusoff, Noer El Hidayah Ismail and Usman Abdullahi Usman
A146	Bioleaching: A Microbial Technology Approach on Environmentally Friendly Refinement of Low Grade Metals - A Review	Akid Md Haris, Suraya binti Abdul Sani, Rahmath Abdulla and Ainol Azifa Mohd Faik
A148	Enforced Mechanical Properties of Plaster Paris: Effect of Organic Fibre	Siti Nur Hajrah Piara Asmahani Awang Jedol Dayou Farmizan Pirman
A149	Effect of Monsoonal Clustering For PM10 Concentration Prediction In Keningau, Sabah Using Principal Component Analysis	Muhammad Izzuddin Rumaling, Fuei Pien Chee, Jackson Hian Wui Chang and Justin Sentian
A150	Effect of Exposure Time of Near Infrared Light Radiation (NIR) on Human's Vein Visualization	Floressy Juhim, Abu Bakar Abd Rahman, Fuei Pien Chee and Abdullah Bade
A031	The Integration of Seismic Refraction and Multichannel Analysis of Surface Wave (MASW) For Subsurface Characterization	Muhammad Taqiuddin Zakaria, Nordiana Mohd Muztaza and Hareyani Zabidi
A003	3d Resistivity Model Building of Shaly Sand Reservoirs Using New Seismic Attributes	Nur Farhana Salleh, Maman Hermana and Deva Ghosh
A079	Hybrid Approach for Enhanced Seismic Imaging using Inversion and Imaging in Malaysian Carbonate	Yasir Bashir, Deva Ghosh, Maman Hermana, Seyed Yaser Moussavi Alashloo and Ajay Biswas











A093	Seismic Forward Modelling: Application of Finite Difference Eikonal Solver For Traveltime Computation	Amir Mustawim Majdi, Seyed Yaser Moussavi Alashloo, Deva P. Ghosh and Mohd Hafiz Musa
A103	A Preliminary Study of Seismic Interpretation In The Offshore Peninsular Malaysia	Noorzamzarina Sulaiman and Nursufiah Sulaiman
A002	Developed Correlations Between Sound Wave Velocity and Porosity, Permeability And Mechanical Properties of Sandstone Core Samples	Ghareb Hamada and Veronique Joseph
A040	Extended Discovery of Prehistoric Site at Gua Pelangi Using Ground Penetrating Radar	Nur Azwin Ismail, Shyeh Sahibul Karamah Masnan, Rasydan Muhammad, Shaiful Idzwan Shahidan and Mokhtar Saidin
A062	Integration of Resistivity and Gravity Methods For Karstic Void Identification at Gua Serai-Gu	Zaitul Zahira Ghazali, Nurwahidah Mohd Idrus, Muhammad Ashiq Bin Abbas, Ismail Ahmad Abir, Khiruddin Abdullah and Mohd Nawawi Mohd Nordin
A017	Characterization of Soft Marine Clay Deposits Using Geophysical and Geotechnical Methods	Najmiah Rosli, Rosli Saad, Nazrin Rahman and Nur Azwin Ismail









POST-CONFERENCE: FIELDWORK

- Fieldwork will be taken to three different sites areas such as Lembah Permai,
 Mesilau landslide and Zen Garden, Kundasang.
- A one day fieldwork will be on 3rd October 2019 (Thursday).
- Time: 7.15 am 7.00 pm
- Facilitators: Dr. Frederick F. Tating, Mr. Arthur Makulim, and Mr. Bailon Golutin
- Fee: RM80

FIELDWORK SCHEDULE

3 rd October 2019 (Thursday)		
Fieldwork @ Kundasang		
7:15	Gather in the hotel lobby @ The Palace Hotel	
7:30	Depart from The Palace Hotel to Kundasang, Ranau	
9:45	Expected to arrive at Site No. 1 (Lembah Permai, Kundasang – All groups) Facilitator: Dr. Frederick F. Tating	
10:30	Depart to Site No. 2 (Mesilau Landslide – Group 1) Facilitator: Mr. Arthur Makulim Depart to Site No. 3 (Zen Garden – Group 2) Facilitator: Mr. Bailon Golutin	
11:15	SWAP SITES Depart to Site No. 3 (Mesilau Landslide – Group 2) Facilitator: Mr. Arthur Makulim Depart to Site No. 2 (Zen Garden – Group 1) Facilitator: Mr. Bailon Golutin	
12:00	Depart to Zen Garden Resort	
13:00	Lunch	
14:00	Free time and depart to Kota Kinabalu	









REGISTRATION FEES

Registration Type		Confe	erence	Fi a laltui a
		Early Bird Fee (MYR)	Normal Fee (MYR)	Fieldtrip (MYR)
Presenter	s GSM members	500	550	
Presenters Non-member		550	600	
Participants GSM members		400	450	90
Participants Non-members		450	500	80
Student	Members	400	450	
	Non-member	500	550	

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