

SEMINAR ON COASTAL & MARINE GEOLOGY 2022

DEEP SEABED MINING: PERSPECTIVES FROM A DEVELOPING NATION



Enhancing participation of developing nations in regulating deep seabed mining

9TH MARCH 2022

8.30AM - 5.00PM

MYT GMT +8.00

VIA ZOOM APPLICATION

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SEMINAR ON COASTAL & MARINE GEOLOGY 2022

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ABOUT

The extraction of minerals from the deep seabed seems imminent, highlighting the urgency for coherent and effective regulations to safeguard the deep-sea environment. Primarily, the deep seabed mining will occur within the Area, designated as the "common heritage of mankind". Nevertheless, not everyone is aware of the exploration activities happening in the Area. As a developing nation, Malaysia's participation and active involvement with the regulatory body, International Seabed Authority, is crucial to ensure that any action taken within the Area is in our knowledge.

FOR WHOM?

Government officials, industry professionals, scientists, environmental groups, other stakeholders and the public; who want to gain knowledge and be informed on the current state of deep seabed mining activities and deep seabed related disciplines.

WHY?

The deep-sea is the last frontier on our planet. Much of this challenging environment is still unexplored and unknown to human knowledge. Yet, the deep sea is no longer free from anthropogenic activities. The need for active participation in intergovernmental partnerships will strengthen the enforcement of deep seabed mining regulations and mitigation strategies. Here, we create a platform for a dialogue on how developing nations can educate, participate, and take action regarding deep seabed activities.



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SCHEDULE

0830-0900 **OPENING SESSION**

Welcoming Speech

MR. ABDUL RASID JAAPAR, P.GEOL | *President of Institute of Geology Malaysia*

Opening Ceremony

DATO' SERI DR. AJIB ANUAR | *President of Malaysian Chamber of Mines*

0915-1330 **1st SESSION**

Moderator

Gs. Dr. Muhammad Hafeez bin Jeofry

Keynote Speakers

DR. KHAIRA ISMAIL | *The Geological Settings of Deep Seabed Minerals*

&

DR. MAZLAN MADON | *The Potential of Deep Seabed Mining for Malaysia*

Speakers

DR. KIRSTY MCQUAID | *The Ecology of Deep-Sea Environments of Interest for Seabed Mining*

MR. PRADEEP ARJAN SINGH | *Regulation & Law on Deep Sea Mining*

MR. BEBEP A.K.N DJUNDJUNAN | *Indonesia Deep Sea Mining Bills*

DR. THET TIN NYUNT | *Seafloor Exploration in Myanmar EEZ*

1430-1700 **2nd SESSION**

Moderator

Dr. Khaira Ismail

Keynote Speaker

PROF. DR. WAN IZATUL ASMA WAN TALAAT | *Malaysia Deep Sea Mining Bill*

Panel Discussion

Enhancing participation of developing nations in regulating deep seabed mining

MR. ABDULLAH SULAIMAN | **PROF. DR. WAN IZATUL ASMA WAN TALAAT**

MR. BEBEP A.K.N DJUNDJUNAN | **MR. PRADEEP ARJAN SINGH**

Closing Remarks

DATO' ZAKARIA MOHAMAD | *Chairman, Board of Geologist Malaysia*

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KEYNOTE SPEAKERS



Dr. Mazlan Madon | Advisor, Malaysian Continental Shelf Project, National Security Council Malaysia

Dr Mazlan Madon is a professional geologist, serving as a Member of the Commission on the Limits of the Continental Shelf (CLCS), an expert body established under the UN Convention on the Law of the Sea (UNCLOS). He is also an advisor to the Malaysian Continental Shelf Project for the Malaysian National Security Council, a federal agency under the Prime Minister's Department. Previously worked with PETRONAS for 33 years in petroleum exploration and development, mainly in the research (R&D) labs. His main technical expertise includes regional geology, sedimentology, petroleum geology, and basin analysis.

He received an Honorary Doctorate of Science from Universiti Malaysia Terengganu and was among the 43 "accomplished and distinguished" geologists at the American Association of Petroleum Geologists 100th anniversary celebrations in 2017. He authored numerous technical and article journals in his field of expertise. His most notable contribution is the main author for the 1999 PETRONAS publication on "Petroleum Geology and Resources of Malaysia".

Dr. Khaira Ismail | Senior lecturer, Marine Geoscience, UMT

Dr Khaira Ismail is a senior lecturer at the Faculty of Science and Marine Environment, Universiti Malaysia Terengganu. She received her PhD in Ocean & Earth Science at the University of Southampton and a Bachelor Degree (Hons) in Applied Geology from University Malaya. She did her postdoctoral study at Duke University Marine Lab for the project "Next Steps in the Development of Regional Environmental Management Plans for Deep-Sea Mining". She is part of the Ocean Geospatial and Mapping research group in the Institute of Oceanography and Environment (INOS) and the National Technical Working Committee on the seabed and deep seabed mining legislation in Malaysia.

Her main field of research includes marine geology, marine habitat mapping, geospatial analysis, marine spatial planning and environmental management planning. In addition, she has a keen interest in science diplomacy, which are reflected in her involvement as a Malaysian delegate to the IOC Sessions of the Executive Council and IOC Assembly, a scientific delegate to the Session of the ISA Council and editorial committee member for TWAS Science Diplomacy newsletter.



Prof.Dr. Wan Izatul Asma Wan Talaat | Head, Centre for Ocean Governance, INOS-UMT

Prof.Dr. Wan Izatul Asma Wan Talaat is a law professor at Universiti Malaysia Terengganu and a qualified Advocate & Solicitor of the High Court of Malaya. She heads the Centre for Ocean Governance (COG) at the Institute of Oceanography and Environment (INOS). She is a Visiting Fellow at the Royal Malaysian Navy Sea Power Centre, an elected member of the IUCN World Commission on Environmental Law, a member of the Environmental Law Network International (ELNI) and UN Sustainable Development Social Network (SDSN). Currently, she co-chairs the National Technical Working Committee on the seabed and deep seabed mining legislation via an appointment by the Department of Minerals and Geoscience.

Her research interest in environmental governance focuses on coastal and marine environments. She has secured more than 30 research grants amounting to almost MYR 5.8million and is the principal investigator for 20 of the projects. In addition, she published more than 200 research papers, including academic books.



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THE SPEAKERS



Dr. Thet Tin Nyunt | Director, Geological Survey and Mineral Exploration, Ministry of Natural Resources and Environmental Conservation

Dr. Thet Tin Nyunt Director of Geological Survey and Mineral Exploration (DGSE) Ministry of Natural Resources and Environmental Conservation. He is graduated from Unversitat Stuttgart, Germany for his Ph.D. Dr. Thet Tin Nyunt has wide experience in Gemology, Mineralogy and Petrology. He is actively involve with Myanmar government as he once a Deputy Director General of Department Geological Survey and Mineral Exploration, Ministry of Natural Resources and Environmental Conservation, Myanmar. He was a General Manager for Myanmar Gems Enterprise.

Dr. Kirsty McQuaid | Postdoctoral Research Fellow, University of Plymouth, England

Dr Kirsty McQuaid is a postdoctoral research fellow in the Marine Conservation Research Group of the University of Plymouth, England, and the Marine Programme of the South African National Biodiversity Institute, South Africa. Kirsty obtained her PhD in deep-sea ecology from the University of Plymouth, and a master's in applied marine science from the University of Cape Town. Her PhD focussed on ecological studies of an abyssal nodule province to inform the management of deep-sea mining, and her training was supported through the International Seabed Authority's (ISA) program for capacity building in developing nations.



Kirsty's published research on deep-sea mining has informed regional environmental management in the Clarion-Clipperton Fracture Zone, and she was the 2021 recipient of the ISA Secretary-General's Award for Excellence in Deep-sea Research. Kirsty currently works broadly on spatial management of areas beyond national jurisdiction in the South East Atlantic, and at a national level, she supports marine spatial planning in South Africa's deep waters. She is a co-coordinator of the South & Central Atlantic Regional Research Working Group of the UN Decade endorsed Challenger 150 programme and member of the African regional node of the UN Early Career Ocean Professionals programme. She also has a keen interest in science-policy and science-diplomacy, demonstrated through engagement in activities of the Deep-Ocean Stewardship Initiative's working groups on Minerals and Biodiversity Beyond National Jurisdiction

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THE SPEAKERS

Mr. Bebeb A.K.N Djundjuna | Ambassador of Indonesia to Greece

Mr. Bebeb A.K.N Djundjuna is currently the Ambassador of Indonesia to Greece. His previous appointment was the Director for Legal Affairs and Territorial Treaties, Ministry of Foreign Affairs, Republic of Indonesia. During his time as director, Mr Djundjuna handled the cooperation with the International Seabed Authority. He was active in multiple events with ISA, most recently in 2021, conducted two workshops for Indonesian officials and universities, and was part of the panel of experts for the ISA report on its contribution towards the SDGs.

Mr Djundjuna assumed several positions at the Ministry of Foreign Affairs from 2005 to 2016, among others, as Director for Political-Security and Territorial Treaties, Director for Economic and Social Culture Treaties at the Directorate General for Legal and International Treaties, Deputy Director for Ocean's Treaties at Directorate of Political Security and Territorial Treaties, and Head of Law of the Sea section at the Ministry's Directorate of International Treaties.

With special interests in the law of the sea, regional maritime security, and intellectual property rights protection, Mr Djundjuna has been invited as speaker and resource person to regional and multilateral forums since 1995. He has international law background from the University of Padjadjaran Bandung and the University of Kent, UK. In addition, he belongs to the 2002 Cohort on Conflict and Analyses Management at Royal Roads University Victoria BC, Canada.



Mr. Pradeep Arjan Singh | Ph.D Candidate & Researcher, University of Bremen

Mr. Pradeep Singh is a PhD candidate and researcher at the University of Bremen and University of Waikato, New Zealand. He reads law at the University of Malaya, Malaysia; holds a Master of Law in Global Environment and Climate Change Law from the University of Edinburgh and a second Master of Law from Harvard Law School. Currently, he is the Deputy Chair for the Ocean Law specialist Group at IUCN World Commission on Environmental Law, a member of Early Career Ocean Professionals.

Pradeep is actively involved in writing article journals, policy briefings and commentaries related to Deep Seabed Mining. His most recent work was published in The International Journal of Marine and Coastal Law entitled "What are the Next Steps for the International Seabed Authority after the Invocation of the Two-year Rule?".



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THE PANELIST

Mr. Abdullah Sulaiman | Director, Department of Mineral and Geoscience Malaysia, JMG & Adjunct Professor, UMT

Mr. Abdullah bin Sulaiman is the Director at the Department of Mineral and Geoscience Malaysia with 29 years of experience as a geologist. He received a Master of Oceanography from the University of Southampton, a registered member of the Board of Geology Malaysia, an Associate Fellow of the Institute of Oceanography and Environment, Universiti Malaysia Terengganu and he has been appointed as an Adjunct Professor at UMT. Currently, he heads the National Technical Working Committee on the seabed and deep seabed mining legislation.

He has vast experience in various aspects of the geosciences field, focusing more on quaternary geology and marine geology studies. With his background and experience, he was appointed as one of the Research, Development and Commercialization Fund (R, D&C) Project Expert Evaluation Panel for the Ministry of Science, Technology and Innovation (MOSTI).

In addition, he is actively involved with more than 20 interagency projects with universities and industries. One of the most recent is the National Offshore Sand Resource Studies in the Straits of Malacca, including studying offshore sand resources and their environmental impact and mitigation process.



THE MODERATOR

Gs. Dr. Muhammad Hafeez bin Jeofry | Lecturer, Marine Geoscience, UMT

Dr. Muhammad Hafeez Jeofry is a senior lecturer in the Marine Geosciences program at Universiti Malaysia Terengganu. He obtained his PhD from Imperial College London and has published his works in some of the prestigious journals such as Nature Communications, Earth System Science Data and Reviews of Geophysics. He has been using geophysical tools and geospatial analyses to understand environmental issues related to internal Earth processes.

His research interest includes ocean sciences, geology and glaciological interactions using geophysical, geospatial and remote sensing methods to comprehend localised marine geological continental margin and polar ice-sheet stability. He is also a Professional Member of the Institution of Geospatial and Remote Sensing Malaysia (IGRSM), Faculty of Engineering, Universiti Putra Malaysia.



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