



Final Report on Sectoral Collaborative Platform (SCP) for Malaysia Partners with Institute of Geology Malaysia (IGM)



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Erasmus+ MARE Project

Contents

INTRODUCTION	3
ABOUT INTSTITUE OF GEOLOGY MALAYSIA (IGM)	7
LIST OF MEMBERS FOR SECTORAL COLLABORATIVE PLATFORM	10
SUMMARY OF ACTIVITIES IN 2021	12
3 rd National Workshop on Coastal and Marine Geology 2021	12
Coastal Malaysian Institution Virtual Colloquium Series 04/2021	17
SUMMARY OF ACTIVITIES IN 2022	18
Seminar on Coastal and Marine Geology: Deep seabed mining: perspectives from a developing nation	18
Engagement with New Chairman for IGM Technical Committee on Coastal & Marine Geology	23
Engagement of MARE-IGM collaboration with all MARE members during MARE Project Meeting in Kuala Nerus	24
SUMMARY OF ACTIVITIES IN 2023	26
MaGiCo! Webinar Series	26
SESSION 1: JANUARY 2023	26
SESSION 2: FEBRUARY 2023	31
SESSION 3: MARCH 2023	34
SESSION 4: APRIL 2023	37
SESSION 5: MAY 2023	40
Future activities with IGM beyond MARE (sustainability of the collaboration)	43
CONCLUSION	44

INTRODUCTION

Sectoral Collaborative Platform (SCP) for MARE in Malaysia is championed by the Universiti Teknologi PETRONAS (UTP). This is conducted through the collaboration with the Institute of Geology Malaysia (IGM), under the technical working group -Coastal and Marine Geology Technical Committee. A short term for this collaboration is **MaGiCo!**


A dedicated website for the collaboration between IGM and MARE can be found from [this link](#).



Figure 1: The dedicated web for MaGiCo! the sectoral collaborative platform between MARE and IGM

While, IGM has also been very supportive by publishing the news update related to our collaboration in their website, even better adding MARE logo as part of their fraternity.

This article can be accessed through [this link](#).


Institute of Geology Malaysia (IGM)

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Geologists Act 2008 (Act 689)



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03 Jul 2023

Sectoral Collaborative Platform Between IGM and ERASMUS+ MARE

Written by Dr Siti Nur Fathiyah bt Jamaludin, Universiti Teknologi PETRONAS.

Marine, Coastal and Delta Sustainability for Southeast Asia (MARE) is an international joint project between institutions from Malaysia, Germany, Italy, Vietnam, and Estonia, funded from the European Union (EU) funding under the Erasmus+ Capacity Building in Higher Education (CBHE) action. MARE aims to develop sustainable governance and management of coastal, delta and marine (CDM) socio-ecological systems in Malaysia and Vietnam and adjacent marine through ICT-enhanced tertiary education linked to labor markets and water stakeholder circles. In Malaysia, MARE is championed by UTP, and it is conducted through the collaboration with the Institute of Geology Malaysia (IGM), under the Coastal and Marine Geology Technical Committee working group and Geological Society of Malaysia (GSM).

SECTORAL COLLABORATIVE PLATFORM BETWEEN IGM AND ERASMUS+ MARE

Introduction

Marine, Coastal and Delta Sustainability for Southeast Asia (MARE) is an international joint

Figure 2: Update section of MARE activities with IGM on IGM Website

A commitment letter between IGM and MARE-UTP has been signed on 20th November 2022 to show the interest and commitment in working together for sectoral collaborative platform.

Both IGM and MARE agrees to work on the following objectives to ensure the success of this collaborative platform.

1. To develop shared MARE open education environment platform & online training services of the new generation for **qualitative improvement of the education process & academic workflow support among universities & stakeholders across the PCs & EU.**
2. To create sustainable feedback mechanisms to end-users, ensuring adaptive & practice-relevant teaching contents, **knowledge co-production opportunities and stakeholder support to post-project course development & teaching.**
3. In addition to quality curriculum contents, it also creates innovative ICT-based management system for teaching, **learning & research training, and builds institutional mechanisms to engage stakeholders with research & education to improve the relevance of educational provision to the society.**

Although the commitment letter was signed in late 2022, the activities among IGM and MARE have begun since 2021. In 2021, Mr. Mohamad Shaufi Sokiman from UTP-MARE has introduced and briefed IGM about MARE. Mr. Mohamad Shaufi was also the committee member in Coastal and Marine Geology working group for Year 2021-2022 (Figure 2).



INSTITUT GEOLOGI MALAYSIA

INSTITUTE OF GEOLOGY, MALAYSIA

Bilik Sumber Geologi (Tingkat 1), Bangunan Sains Geologi,
Fakulti Sains dan Teknologi, Universiti Kebangsaan Malaysia
43650, Bandar Baru Bangi, Selangor
Tel : 011-1056 3193
Email : secretary@igm.org.my Website : www.igm.org.my

Ref. No.: IGM/2022-23/MCG(01)
Date: 20 November 2022

Council 2022/2023

President

Dr. Abd. Razid Jaapar, P.Geol., F.I.G.M

Vice-President

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

Secretary

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

Treasurer

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

Council Members

*Abdul Rahim Harun, P.Geol., M.I.G.M
Tuan Rusli Tuan Mohamed, P.Geol., F.I.G.M
Dr. Zuhair Zahir Tuan Harith, P.Geol., M.I.G.M
YM Raja Abdul Halim Raja Muda, M.I.G.M*

Co-opted Council Members

*Sanatuli Saifia Hasan, P.Geol., M.I.G.M
Dr. Ahmad Farid Abu Bakar, P.Geol., M.I.G.M
Dr. Rohayu Che Omar, P.Geol., M.I.G.M
Tee Foo Weng, P.Geol., F.I.G.M
(Co-opted)*

Dr. Siti Nur Fathiyah Jamaludin,
11-03-32, Block 11,
Universiti Teknologi PETRONAS,
32610 Bandar Seri Iskandar,
Perak, Malaysia.

COMMITMENT LETTER FOR SECTORAL COLLABORATIVE PLATFORM (SCP) BETWEEN IGM COASTAL & MARINE GEOLOGY WORKING GROUP WITH ERASMUS+ MARE TEAM AT UTP

Dear Dr. Siti Nur Fathiyah Jamaludin,

This letter serves as the official commitment of Institute Geology Malaysia (IGM) under the Coastal & Marine Geology Technical Committee with the team of academicians participating in Erasmus+ Marine, Coastal and Delta Sustainability of Southeast Asia (MARE) in Malaysia, which is championed by the Universiti Teknologi PETRONAS (UTP).

In support of the existing Erasmus+ MARE project, both of us would agree for co-organizing the MaGiCo! Webinar which is a webinar series organized together between UTP and IGM. Not just that, the previous participation from Erasmus+ MARE group in our events such as the National Symposium of Deep Seabed Mining and Postgraduate Colloquium had shown a positive outcome from the involvements of IGM and MARE.

Further to our communication and active collaboration activities, please be informed that we are glad to continue the existing networking via sectoral collaborative platform and to leverage further even after the completion of this Erasmus+ MARE project. The shared outcome of this collaboration is aim to improve the visibility and sustainability of the coastal and marine geology within young students at schools and universities level, particularly in Malaysia.

Regards,

INSTITUTE OF GEOLOGY MALAYSIA



DR NOR BAKHTIAH BAHARIM

Head Technical Committee,
Marine and Coastal Geology.

Figure 3: The commitment letter from IGM.

ABOUT INTSTITUE OF GEOLOGY MALAYSIA (IGM)

Institute of Geology Malaysia, also known as IGM, was officially registered with the Malaysian Registrar of Societies in 1989 (PPM-003-14-11031989). Its 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 field geologist and thus symbolize the role of the geologist in Malaysia.

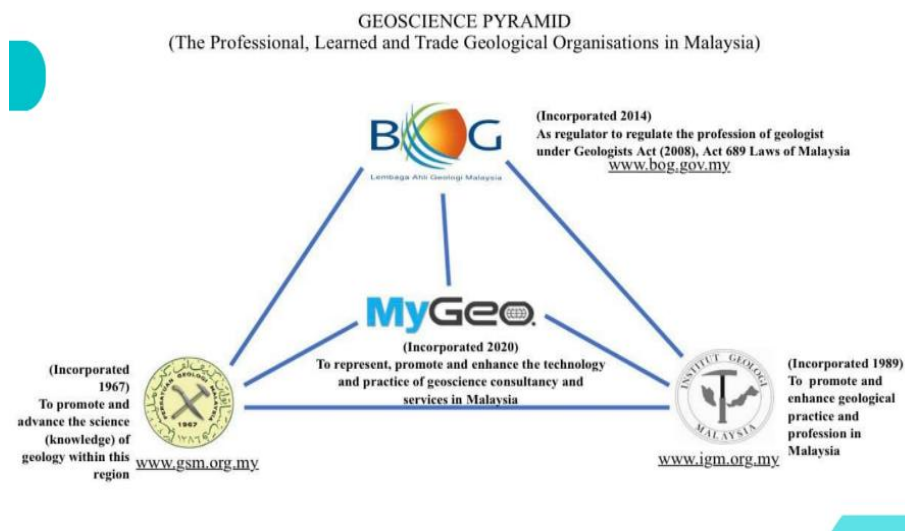


Figure 4: The concept of IGM and its stakeholder

In Malaysia, IGM is working closely with the Geological Society of Malaysia (GSM) and the Board of Geologist (BoG). It combines the professional, learned and trade geological organisations in Malaysia as shown in Figure 4 above.

THE OBJECTIVES



Figure 5: The objectives of IGM which serves similarity with the objectives of sectoral collaborative platform of MARE.

Among GSM and IGM, there is a Facebook group for IGM-GM Quaternary, Coastal and Marine Geology Group. This Facebook group is highly suitable for the theme of MARE since all the participants are industry practitioner, academician, students, agencies, and freelancer who are passionate about the sustainability of marine, coastal and deltaic environments. MaGiCo! are using this Facebook group to promote the events organized by IGM, MARE and the other stakeholder.

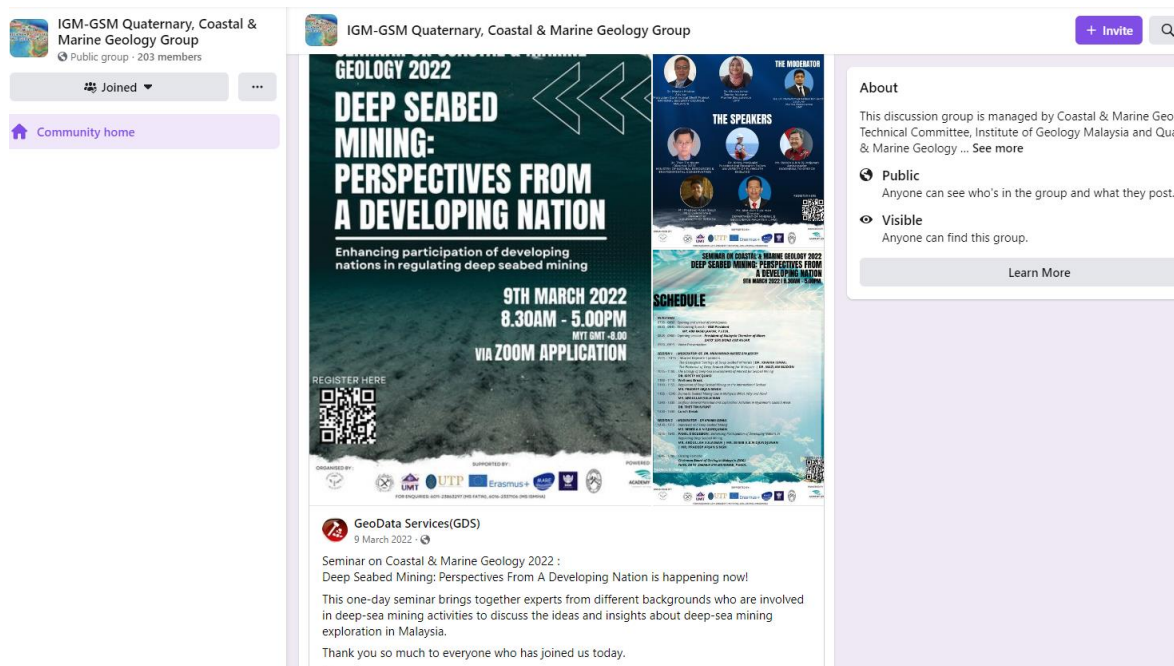


Figure 6: Facebook group for the Quaternary, Coastal and Marine Geology Group of IGM and GSM with example of post promoting our event.

LIST OF MEMBERS FOR SECTORAL COLLABORATIVE PLATFORM

Advisor

Prof. Ir. Dr. Shaharin Anwar Sulaiman (UTP)

Chairperson

Dr. Siti Nur Fathiyah Jamaludin (UTP & IGM)

Vice-Chairperson 1

Dr. Nor Bakhiah Baharim (UMT & IGM)

Vice-Chairperson 2

Mr. Shaufi Soliman (IGM)

Secretary

Ms. Sarah Farhanah (IGM)

Members

Dr. Abdullah Sulaiman (Mineral & Geoscience Department & IGM)

Mr. Wan Mohamed Nizam Wan Isa (IGM)

Dr. Arifah Ali (UTM)

Dr. Muhammad Hafeez Joe fry (UMT)

Dr. Khairul Anuar Saad (UniKL)

Dr. Teh Hee Min (UTP)

Ms. Azianti Azhari (GEX Sdn. Bhd.)

There is also a working group among these members and their team in ensuring the activities conducted between this collaborative platform are smooth and successful. The working group are:

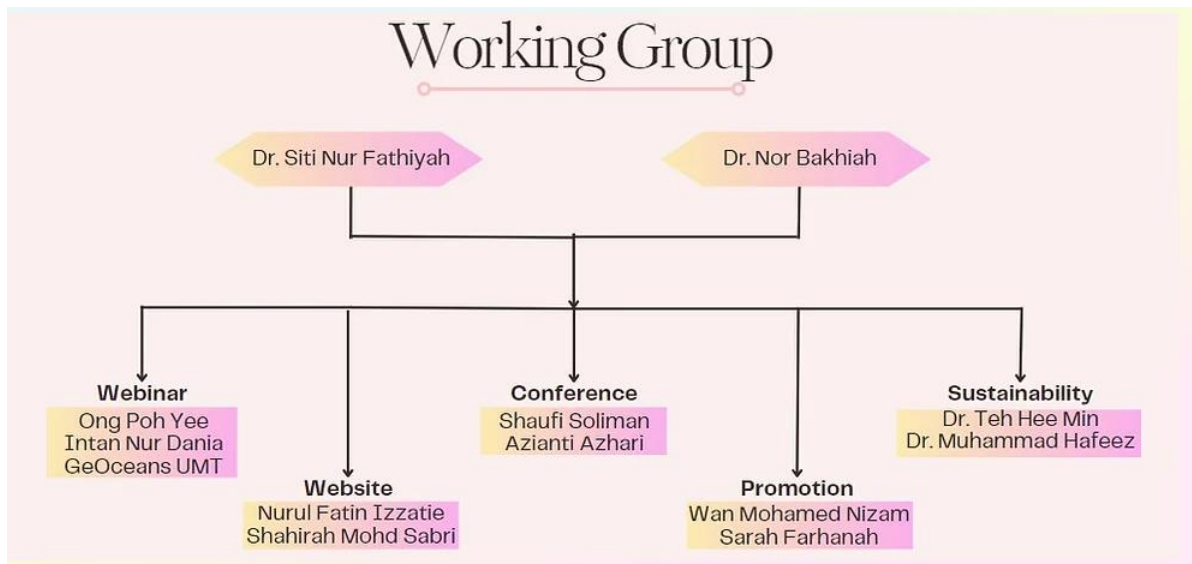


Figure 7; The organizational chart for the working group in IGM-MARE sectoral collaborative platform.

SUMMARY OF ACTIVITIES IN 2021

3rd National Workshop on Coastal and Marine Geology 2021

Project Date: 30.08.2021

Time: 8.00 a.m. – 5.00 p.m.

Venue: Online Workshop

Audience: UTP Students and Malaysian Public

Summary

The 3rd National Marine Geology and Coastal Workshop was held on 30th August 2021. This event was an annual event for Coastal and Marine Geology Working Group - Institute of Geology Malaysia (IGM) with collaboration with Geological Society of Malaysia (GSM) and managed by Academy GEX as the event organizer. This event was initially proposed by Mr Abdullah Sulaiman as the chairman of the working group committee. This year, Universiti Teknologi PETRONAS (UTP) has been selected to become the host of this event with support from the UTP - MARE ERASMUS team lead by Professor Ir Dr Shaharin Anwar B Sulaiman.

This event has become the annual platform for various stakeholders to share and discuss their finding related to the marine and coastal area development. The event theme for this year was “Towards sustainable coastal and Marine management”. This event was officiated by Mr Nizam Hassan (President of GSM) and later was continue with the 3 separate session which focusing on 3 different subtopic which are session 1 - coastal & marine development from geological perspective; session 2 - coastal issues, protection, and adaption; session 3 - coastal resources & sustainable management. Panel discussion towards the closing session have bring new ideas and perspective on the current and unsolved issues that lingers around the community revolving the importance of the sustainability development of the coastal area.

Session speakers were comprised of various professionals from academics, industry, and the policy maker. The speakers for this year including researchers from academic and research institute, government officer and industry players. Participants were comprising of representatives from the governmental agencies, undergraduates and postgraduate students from higher learning institutions, private companies, and non-governmental organizations. The closing remarks were given later by Mr Abd Rasid Japar (President of IGM). This one-day webinar successfully gathered 171 participants not including the moderator and also the speakers.

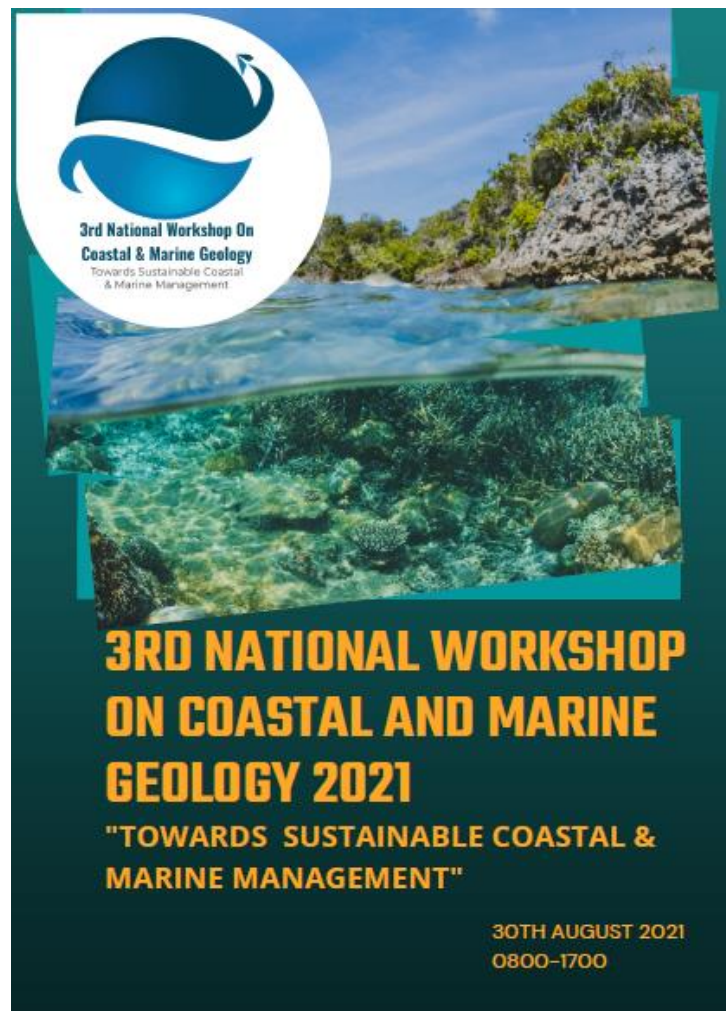


Figure 8: The poster for 3rd National Workshop on Coastal and Marine Geology 2021

3RD NATIONAL WORKSHOP ON COASTAL & MARINE GEOLOGY

01 SESSION : COASTAL & MARINE DEVELOPMENT FROM GEOLOGICAL PERSPECTIVE

SPEAKER 04

A.P. DR. EDIC SATHIAMURTHY, AN ASSOC. PROFESSOR IN THE MARINE GEOSCIENCE PROGRAMME, UNIVERSITI MALAYSIA TERENGGANU

HE HAS ALMOST 20 YEARS OF EXPERIENCE IN HYDROLOGY RESEARCH.

HE RECEIVED HIS BACHELOR'S DEGREE IN GEOGRAPHY (1990), MASTER'S IN ENVIRONMENTAL TECHNOLOGY (1999), AND A PHD IN HYDROLOGY FROM NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE (2006).

HIS RESEARCH FIELD IS IN SURFACE WATER HYDROLOGY, GROUNDWATER HYDROLOGY, SEDIMENTATION AND FLOOD-PRONE AREAS. HE IS CURRENTLY CONDUCTING RESEARCH IN TEMPORARY OPEN/CLOSE ESTUARY SYSTEM MODELLING, PALMER FLUMINAL SYSTEM RECONSTRUCTION (COASTAL SAFETY), AND ALSO ON PROJECTS THAT HYDROLOGICAL WATER RESOURCES ISSUES WITH REGARDS TO CLIMATE CHANGE.

PUBLICATIONS:
NAMES OF POLYMERISED LOCAL TRANSDUCTION AND SUMMERISED LARGES ON THE SOUTH CHINA SEA, NAT. J. OF NAT. RES. JOURNAL OF SINGAPORE UNIVERSITY, VOL. 1, 1-43

03 DAYS LEFT

REGISTER HERE

FOR ENQUIRIES: 0011-23663297 (FATINI) / 0016-2337106 (LISMIHA)

3RD NATIONAL WORKSHOP ON COASTAL & MARINE GEOLOGY

02 SESSION : COASTAL ISSUES, PROTECTION AND ADAPTION

SPEAKER 04

IR. ARMAN MOKHTAR, DEPUTY ASSISTANT DIRECTOR AT COASTAL ZONE MANAGEMENT DIVISION, DEPARTMENT OF IRRIGATION AND DRAINAGE, MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT, MALAYSIA

HE IS RECOGNIZED FOR HIS EXCELLENT SERVICES AS IR. ARMAN HAS BEEN AWARDED FOR EXCELLENT SERVICES AWARD, DEPARTMENT OF IRRIGATION AND DRAINAGE MALAYSIA IN 2009-2010 AND 2017.

HE HAS HANDLED NUMEROUS COASTAL ENVIRONMENTAL PROJECT MANAGEMENT, SITE VISITS AND ECOLOGICAL MONITORING, THESE ARE SOME OF THE PROJECTS THAT HE HAS BEEN INVOLVED IN:

PRESENTING PAPER ENTITLED "PLANNING THE MALAYSIA COASTLINE: INTEGRATED DEVELOPMENT MANAGEMENT PLAN" AT THE 10TH INTERNATIONAL CONFERENCE ON COASTAL AND MARINE GEOSCIENCE, 28-29 SEPTEMBER 2018, HANOI, VIETNAM.

12 DAYS TO GO

REGISTER HERE

FOR ENQUIRIES: 0011-23663297 (FATINI) / 0016-2337106 (LISMIHA)

3RD NATIONAL WORKSHOP ON COASTAL & MARINE GEOLOGY

03 SESSION : COASTAL RESOURCES & SUSTAINABLE MANAGEMENT

SPEAKER 03

PROF. DR. WAN IZATUL ASMA BINTI WAN TALAAT, CURRENTLY HEADS THE CENTRE FOR OCEAN DEVELOPMENT (COD) AT THE INSTITUTE OF OCEANOGRAPHY AND ENVIRONMENTAL STUDIES / THE NATIONAL HIGHER INSTITUTIONAL CENTRE OF EXCELLENCE DIVISION IN MARINE SCIENCE. SHE HAS HER PHD IN OPM AGROSCIENCE SOLICITOR (MALAYSIA). SHE IS CURRENTLY WORKS AT THE INSTITUTE OF OCEANOGRAPHY AND ENVIRONMENTAL STUDIES, UPM.

PROF. DR. WAN IZATUL'S RESEARCH IN ENVIRONMENTAL GOVERNANCE, MAINLY IN COASTAL AND MARINE ENVIRONMENTAL MANAGEMENT.

PROJECTS:
1. BEACH CLEAN-UP - PUTRAI PERAK/KAHANG KEBELIT, MARANG, TERENGGANU 10TH SEPTEMBER 2018
2. INCREASE AWARENESS ON MARINE CLEVERNESS AND CONSERVATION
3. BEACH CLEAN-UP - LPTOM'S KERTENGA, CINFO PATR TAN JEMAL BEACH 27TH MAY 2019
4. INCREASE THE AWARENESS ON THE HAZARD AND SUSTAINING COMMUNITY ON THE INFLUENCE OF SOIL WASTE ABUNDANCE IN THE BEACH AREA TOWARDS MARINE ECOSYSTEM AND NEGATIVE EFFECTS ON THE AESTHETIC VALUE.

08 DAYS TO GO

REGISTER HERE

FOR ENQUIRIES: 0011-23663297 (FATINI) / 0016-2337106 (LISMIHA)

Figure 9: Some of the speakers at this workshop, coming from stakeholders.



PARTICIPATED AGENCIES



PARTICIPATED UNIVERSITIES



PARTICIPATED AGENCIES



Figure 10: Participation from different government agencies and universities has improved the engagement for MARE-Erasmus+



This event has been reported during the meeting and published in *Warta Geologi*, Vol.48 (1) (April 2022 issue).

IGM GSM 3rd National Workshop on Coastal and Marine Geology 2021

Tema : Towards Sustainable Coastal and Marine Management

Tarikh : 30 Ogos 2021

Masa : 0800 - 1700

Medium : Zoom

Jumlah peserta : 180 peserta

Ringkasan program: Program 3rd National Workshop on Coastal and Marine Geology, 2021, telah berlangsung secara atas talian pada 30 Ogos 2021. Bengkel ini adalah anjuran bersama Persatuan Geologi Malaysia (GSM), Institut Geologi Malaysia (IGM), Jabatan Geosains (UTP), UTP-ERASMUS+ (MARE) dan telah dikendalikan oleh Academy GEX. Bengkel ini telah dihadiri seramai 180 peserta dari pelbagai latarbelakang termasuk para pelajar siswazah dan pasca-siswazah, agensi-agensi kerajaan dan pemain industri yang berkaitan. Bengkel ini telah dimulakan oleh ucapan aluan dari pengarah bengkel P.Geol. En. Mohamad Shaufi Sokiman (M.I.G.M) (UTP) dan kemudiannya disusuli oleh ucapan dari penasihat bengkel iaitu P.Geol. En. Abdullah Sulaiman (F.I.G.M) (JMG). Bengkel seterusnya telah dibuka secara rasmi oleh P.Geol. En. Ahmad Nizam Hasan (F.I.G.M), Presiden Persatuan Geologi Malaysia (GSM).

Mengangkat tema pembangunan lestari zon pesisir pantai, bengkel telah dibahagikan kepada 4 sesi di mana 3 sesi teknikal telah dipecahkan mengikut tema iaitu sesi 1 – (Coastal & Marine Development from Geological Perspective), sesi 2 – (Coastal Issues, Protection and Adaption), sesi 3 – (Coastal Resources & Sustainable Management) dan Sesi 4 (Panel Session). Sesi 1 telah dikemudi oleh P.Geol. Dr. Khaira Ismail (M.I.G.M) (UMT) bersama ahli panel yang terdiri daripada P.Geol. Noran Alwakhir Shaarani (M.I.G.M) (JMG) (Coastal Geological Hazard Mapping), P.Geol. A.P. Dr. Hasrizal Shaari (M.I.G.M) (UMT) (Coastal Pollution), P.Geol. Dr. Ferdaus Ahmad (JMG) (Engineering Geology on Coastal Zone) dan Professor Madya Dr. Edlic Sathiamurthy (UMT) (Delta Environment). Sesi 2 pula telah dikemudi oleh Dr. Effi Helmy Ariffin (UMT) bersama barisan ahli panel yang terdiri daripada Ir. Iwan Tan Sofian Tan (Dr Nik & Associates Sdn. Bhd.) (Coastal Development Projects & Their Impacts to Coastal Environment), Dr. Lee Hin Lee (NAHRIM) (Sea Level Rise & Impact to Coastal Environment), Dr. Khamarrul Azahari Razak (UTM) (Coastal Hazards) dan Ir. Arman Mokhtar (JPS) (Integrated Coastal Zone Management). P.Geol. Muhammad Mustadza Mazni (M.I.G.M) (JMG) telah mengemudi sesi teknikal terakhir iaitu sesi 3 dimana



Figure 11: Report on IGM-GSM National workshop on Coastal and Marine Geology 2021 with MARE as the organizing partner.

Coastal Malaysian Institution Virtual Colloquium Series 04/2021

On 30th December 2021, Coastal Malaysian Institution Colloquium was conducted. This event was organized by University Teknologi PETRONAS (UTP), represented by Mr. Mohamad Shaufi (IGM comm), International Islamic University of Malaysia (IIUM), Universiti Teknologi MARA (UiTM) and University Malaysia Terengganu (UMT). Below are the details of this event.



COASTAL MALAYSIAN INSTITUTION COLLOQUIUM
SERIES 04/2021

COAST DEC 2021

VIRTUAL COLLOQUIUM
THURSDAY,
30th December 2021
2.00 PM - 5.00 PM

MEETING LINK:
<https://tinyurl.com/COASTDec2021>

MEETING ID:
878 6675 4543

Come & Join us!

REGISTER NOW & GET YOUR E-CERT

FOR ENQUIRIES : 6011-23863297 (MS FATINI)/6016-2337106 (MS ISMIHA)



EVENT SCHEDULE
COASTAL MALAYSIAN INSTITUTION COLLOQUIUM
SERIES 04/2021

01 PARTICIPANTS REGISTRATION : 2.00 PM - 2.30 PM
02 OPENING CEREMONY
2.30 PM - 2.40 PM
P.GEOL ABD. RASID JAAPAR, F.I.G.M
PRESIDENT
INSTITUTE OF GEOLOGY MALAYSIA (IGM)

03 ACADEMICIAN SPEAKER
2.40 PM - 3.10 PM
DR. NOR BAKHIAH BAHARIM
SENIOR LECTURER
UNIVERSITI MALAYSIA TERENGGANU (UMT)

04 INDUSTRY SPEAKER
3.10 PM - 3.40 PM
P.GEOL. AMIRRUDDIN BIN ROSNI
(MRP SDN BHD)

05 POSTGRADUATE SPEAKER
3.40 PM - 4.10 PM
MS. SYAFIAH AMIR
MASTER IN PETROLEUM GEOSCIENCE
(UTP)

06 POSTGRADUATE SPEAKER
4.10 PM - 4.40 PM
MS. NURIN ADINA ROSLEE JELANI
MASTER IN OCEANOGRAPHY
(UMT)

07 CLOSING CEREMONY
4.40 PM - 5.00 PM
P.GEOL. AHMAD NIZAM HASAN, F.I.G.M
PRESIDENT
GEOLOGICAL SOCIETY OF MALAYSIA
(GSM)

FOR REGISTRATION

FOR PLATFORM

THURSDAY,
30TH DECEMBER 2021
2.00 PM - 5.00 PM

COASTAL MALAYSIAN
INSTITUTION COLLOQUIUM

FOR ENQUIRIES : 6011-23863297 (MS FATINI)/6016-2337106 (MS ISMIHA)

IN COLLABORATION WITH:

Erasmus+
COORDINATOR:
ACADEMY GEX
THEORY TO REALITY

Figure 12: Posters for virtual colloquium

SUMMARY OF ACTIVITIES IN 2022

Seminar on Coastal and Marine Geology: Deep seabed mining: perspectives from a developing nation

Project Date: 09.03.2022

Time: 8.30 a.m. – 5.30 p.m.

Duration: 9 Hours

Venue: Online Platform (ZOOM)

Organizer: Institute Geology of Malaysia

Coordinator: Academy GEX

Participants: UTP Students and Malaysian Public

Objective: To bring together different perspectives from various professionals to discuss the ideas and insights about deep-sea mining exploration in Malaysia

List of Speakers

1. Keynote Speakers

- Dr. Khaira Ismail, UMT The Geological Settings of Deep Seabed Minerals
TITLE: The Geological Settings of Deep Seabed Minerals
- Dr. Mazlan Madon
TITLE: The Potential of Deep Seabed Mining for Malaysia

2. Speakers

- Dr. Kirsty McQuaid | Researcher University of Plymouth, England
TITLE: The Ecology of the Deep Sea Environment
- Dr. Thet Tin Nyunt Director | Geological Survey and Mineral Exploration
Myanmar
TITLE: Seafloor Exploration in Myanmar EEZ
- Mr. Bebeb A.K.N Djundjunan | Ambassador of Indonesia to Greece
TITLE: Indonesia Deep Sea Mining Bill

- Mr. Pradeep Arjan Singh Ph.D Candidate | University of Bremen, Germany
Regulation & Law on Deep Seabed Mining
- Mr. Abdullah Sulaiman | Adjunct Professor, UMT

TITLE: Domestic Seabed Mining Law in Malaysia: What, Why and How?

Summary

On 9th March 2022, the Institute of Geology Malaysia with Academy GEX as Event Coordinator conducted the Deep Seabed Mining Seminar: Perspectives from a Developing Nations which focused on the perspectives from a developing nation to participate with the deep seabed mining. The prestige event was chaired by Dr. Khaira Ismail and Mr. Abdullah Sulaiman as the advisor of this event. The online seminar is well supported by the KeTSA, Geological Society of Malaysia, Malaysia Chamber of Mine, Erasmus+, MARE., MyOcean Hope, Universiti Teknologi PETRONAS and Universiti Malaysia Terengganu.

The seminar was open to the public and approximately 80 were in attendance. During the seminar, the attendees listened and asked question to the speakers as well as giving opinions and thoughts about the Deep Seabed Mining. As mentioned in the list above, the event invited well known speakers in this field.

The seminar was started with the Mr. Abdul Rasid Jaapar, the President of Institute of Geology Malaysia to give the welcoming speech and the opening ceremony by the President of Malaysian Chamber of Mine, Dato' Seri Mohd Ajib Bin Anuar. The seminar was officially started with the session from the Keynote Speakers Dr. Khaira Ismail and Dr. Mazlan where they discussed about The Geological Settings of Deep Seabed Minerals and The Potential of deep Seabed Mining for Malaysia respectively.

It was then continued with Dr. Kirsty McQuaid to present the title The Ecology of Deep-Sea Environments of Interest for Seabed Mining, Mr. Pradeep Arjan Singh with the title Regulation of Deep Seabed Mining on The International Seabed, Mr. Abdullah Sulaiman presented A Domestic Seabed Mining Law in Malaysia: What, Why and How? and Dr. Thet Tin Nyunt presented Seafloor Exploration in Myanmar Coastal Area.

The evening session started with Mr. Bebeb A.K.N Djundjuran delivering his presentation with a title Indonesia and Deep Seabed Mining. The seminar had a great participation throughout the day as the attendees were sharing their thoughts and opinions especially during Panel discussion where the panellist discussed about the Enhancing participation of Developing Nations in Regulating Deep Seabed Mining. This seminar was well received and well participated as this program is fresh where everyone wanted to know the direction of deep seabed mining in our country as well as the other developing nations. Other than participation from our country, we received the interest from our neighbour country, Indonesia as well.

The fruitful event ended with the closing remarks by Dato' Zakaria Mohamad, the Chairman of Board of Geologists Malaysia.



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

REGISTER HERE



ORGANISED BY:












SUPPORTED BY:







POWERED BY:



FOR ENQUIRIES: 6011-23863297 (MS FATIN), 6016-2337106 (MS ISMIHA)

Figure 13: Main poster of the event with Erasmus+ and MARE logo visible.

SEMINAR ON COASTAL & MARINE GEOLOGY 2022

DEEP SEABED MINING: PERSPECTIVES FROM A DEVELOPING NATION

9TH MARCH 2022 | 8.30AM - 5.00PM

THE SPEAKERS

KEYNOTE SPEAKERS



Dr. Mazlan Madon
Advisor
Malaysian Continental Shelf Project
NATIONAL SECURITY COUNCIL
MALAYSIA



Dr. Khaira Ismail
Senior lecturer
Marine Geoscience
UMT

THE MODERATOR



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

THE SPEAKERS



Dr. Thet Tin Nyunt
Director DGSE
MINISTRY OF NATURAL RESOURCES &
ENVIRONMENTAL CONSERVATION



Dr. Kirsty McQuaid
Postdoctoral Research Fellow
UNIVERSITY OF PLYMOUTH
ENGLAND



Mr. Bebeb A.K.N Djundjuran
Ambassador
INDONESIA TO GREECE



Mr. Pradeep Arjan Singh
Ph.D Candidate &
Researcher
UNIVERSITY OF BREMEN



Mr. Abdullah Sulaiman
Director
DEPARTMENT OF MINERAL &
GEOSCIENCE MALAYSIA (JMG)

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Figure 14: The speakers contributing for Deep Seabed mining coming from various agencies.

Engagement with New Chairman for IGM Technical Committee on Coastal & Marine Geology

Date: 03.11.2022

Venue: Online Platform (Microsoft Teams)



Figure 15: Engagement with new IGM technical committee for marine and coastal geology.

The purpose of this online engagement is to brief the new technical chair for IGM for marine and coastal geology working group on the existing commitment and collaboration between MARE and IGM that have been done since 2021 to 2023. During this meeting, we have re-align the plan for activities of collaboration between MARE and IGM, particularly for Year 2023.

The technical chair of marine and coastal geology working group which is Dr. Nor Bakhiah Baharim was invited to participate in Erasmus+ MARE Project meeting in November 2023 is UMT, Kuala Nerus.

Engagement of MARE-IGM collaboration with all MARE members during MARE Project Meeting in Kuala Nerus

Date: 09.11.2022

Venue: UMT Conference Centre (CC)

During Erasmus+ MARE Project Meeting that was held in UMT, Kuala Nerus, we have invited Dr. Nor Bakhiah Baharim as the representative from IGM to brief the MARE members from Europe, Vietnam and Malaysia about IGM, their objectives, their stakeholders, and their strategic plan. The strategic plan of IGM particularly under the marine and coastal geology working group lead by Dr. Nor Bakhiah focuses on the biosphere, society and economical growth and sustainability.

During this engagement session, several plan activities to enhance the collaboration between MARE and IGM were proposed including Final Year Project Seminar (developing young geoscientist), Sekolah Angkat or Foster School (Geo-education), seminar on marine geohazard and climate changes, and a summer camp. The presentation was done by both the Chairperson of this collaboration, Dr. Siti Nur Fathiyah and the Vice-Chairperson 1 which is Dr. Nor Bakhiah.

MARE members were also introduced to the opportunity to join IGM as Associate Member with yearly fee of only RM40. However, this was not getting any interest from MARE members.



Figure 16: Dr. Nor Bakhiah from IGM sharing about IGM and its stakeholder to MARE members during our project meeting in Kuala Nerus.

SUMMARY OF ACTIVITIES IN 2023

MaGiCo! Webinar Series

There are total of 5 webinars conducted in 2023 under this collaboration. Two webinars have been granted for CPD points from the Board of Geologist Malaysia. IGM bared the cost for the request of CPD points. All participants were provided with E-certificates.

All the activities have been recorded in the MaGiCo! Website (<https://magicomareigm.wixsite.com/magicomareigm>). Below are the details for each activity.

SESSION 1: JANUARY 2023

Date: 25th January 2023

Time: 3.00 p.m. to 5.30 p.m.

Venue: Microsoft Teams (Online Platform)

Audience: UTP Students and Malaysian Public

List of speakers

1. Dr. Effi Helmy | Universiti Malaysia Terengganu
Title: Challenges in controlling coastal erosion due to climate change
2. Dr. Felix Gross | Kiel University Germany
Title: Land2Sea geohazard analysis: experiences and advancements from a decade of investigations of Mt Etna, Italy

Summary

On 25th January 2023, the Marine Coastal and Delta Sustainability for Southeast Asia (MARE) with Institute of Geology Malaysia (IGM) as organisers conducted the MaGiCo! Webinar Series January 2023. The webinar was chaired by Nurul Fatin Izzatie Salman and Ong Poh Yee as the conductors of this webinar. The online webinar is collaborated by the Centre for



Erasmus+ Project: Marine Coastal and Delta Sustainability for Southeast Asia (MARE)

Subsurface Imaging (CSI) and Southeast Asia Clastic & Carbonate Research Laboratory (SEACARL).

The webinar was open to the public and approximately 116 were in attendance. During the webinar, the attendees listened and asked question to the speakers as well as giving opinions and thoughts.

The webinar was started with Dr Effi Helmy delivering his presentation with a title “Challenges in controlling coastal erosion due to climate change”. It was then continued with Dr. Felix Gross to present the title “Land2Sea geohazard analysis: experiences and advancements from a decade of investigations of Mt Etna, Italy”.

This webinar was well received and well participated as this program is fresh. Other than participation from our country, we received the interest from another country as well. The webinar was recorded and here is the link for the recording <http://surl.li/hztpp>

MaGiCo! WEBINAR SERIES JANUARY 2023

Title 1: Challenges in controlling coastal erosion due to climate change

Title 2: Land2Sea geohazard analysis: experiences and advancements from a decade of investigations of Mt Etna, Italy



Dr. Effi Helmy
 UNIVERSITI MALAYSIA TERENGGANU
 MALAYSIA



Dr. Felix Gross
 KIEL UNIVERSITY
 GERMANY

"Dr. Effi's research interests focus on the interaction between hydrodynamic process (Numerical modelling) and coastal morphodynamic as response to seasonal monsoon for coastal management and coastal protection proposes."
 "Dr. Felix's major research topic is the analysis and assessment of shoreline-crossing geological structures and processes, which can lead to marine geohazards like landslides, earthquakes, and tsunamis, and particular interest is integrative studies, which include a holistic approach from hazard identification to hazard assessment. "



DATE
 25 Jan, 2023



TIME (GMT)
 TITLE 1: 3.00-4.15PM
 TITLE 2: 4.15-5.30PM

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Figure 17: Poster for MaGiCo! webinar 1

 Total Attendance	 Job Title	 Country
116 attendees	<ul style="list-style-type: none"> Student: 10 attendees Others: 106 attendees 	<ul style="list-style-type: none"> Malaysia: 111 attendees Others: 5 attendees

INSTITUTE OF
OCEANOGRAPHY
AND ENVIRONMENT




Envision Marine Future



A Chronological Events

Challenges in controlling coastal erosion due to climate change

Effi Helmy Ariffin

YB
Yus Basirah

KT
Tan, Kian Ah

MW
MARU Kian Tock...

S
ryah

MN
Mar Niza

S
Syazira

AN
Ahmad Nuzri...

H
Halim

BH
Badi Ben Marjan

IK
Ika Kamarudin (...)

MH
Muhammad H...

+25

Figure 18: Slides presentation by Dr. Effi from UMT

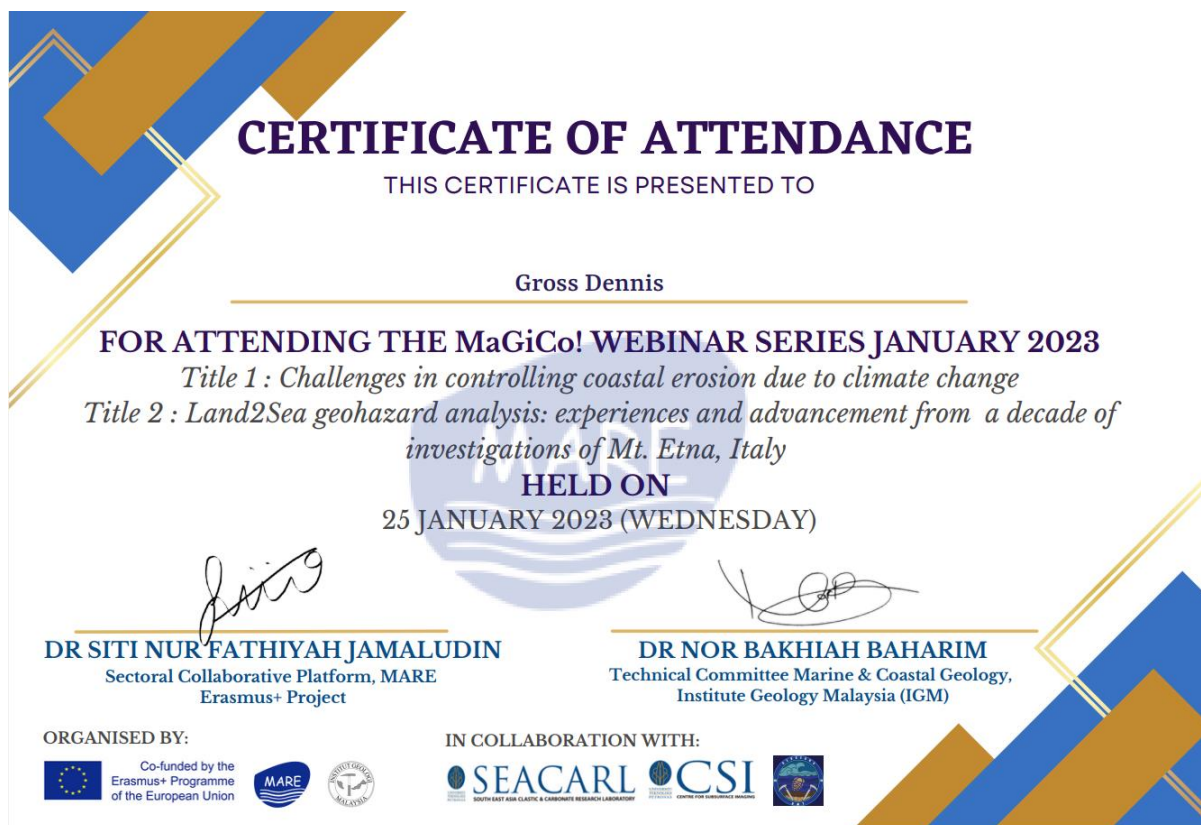


Figure 19: Example of the E-certificate for all the webinars that distributed to attendees.

SESSION 2: FEBRUARY 2023

Date: 22nd February 2023

Time: 3.00 p.m. to 5.30 p.m.

Venue: Microsoft Teams (Online Platform)

Audience: UTP Students and Malaysian Public

List of speakers

1. Prof Dato' Dr. Noraieni Mokhtar | Universiti Malaysia Terengganu

Title: UN Decade of Ocean Science for Sustainable Development 2030: The Science we need for the Future we want

2. Prof Dr. Arvo Tuvikene | Kiel University Germany

Title: Assessment of Estonian coastal sea pollution through fish biological abnormalities

Summary

On 22nd February 2023, the Marine Coastal and Delta Sustainability for Southeast Asia (MARE) with Institute of Geology Malaysia (IGM) as organisers conducted the MaGiCo! Webinar Series February 2023. The webinar was chaired by Intan Nur Dania Asrul Amir as the conductor of this webinar. The online webinar is collaborated by the Centre for Subsurface Imaging (CSI) and South East Asia Clastic & Carbonate Research Laboratory (SEACARL). MaGiCo! Webinar Series February 2023 has approved by Board of Geologists Malaysia (BoG). The organizers collaborated with BoG (<https://www.bog.gov.my/>) to attract more people to join the MaGiCo! Webinar.

The webinar was open to the public and approximately 322 were in attendance. During the webinar, the attendees listened and asked question to the speakers as well as giving opinions and thoughts.



Erasmus+ Project: Marine Coastal and Delta Sustainability for Southeast Asia (MARE)

The webinar was started with Prof Dato' Dr. Noraieni Mokhtar delivering her presentation with a title "UN Decade of Ocean Science for Sustainable Development 2030: The Science we need for the Future we want". It was then continued with Prof Dr. Arvo Tuvikene to present the title "Assessment of Estonian coastal sea pollution through fish biological abnormalities".

This webinar was well received and well participated as this program is fresh. Other than participation from our country, we received the interest from another country as well. The webinar was recorded and here is the link for the recording <http://surl.li/hzytg>

MaGiCo! WEBINAR SERIES FEBRUARY 2023

Title 1: UN Decade of Ocean Science for Sustainable Development 2030: The Science we need for the Future we want

Title 2: Assessment of Estonian coastal sea pollution through fish biological abnormalities



Prof Dato' Dr Noraieni Mokhtar
UMT, MALAYSIA



Prof Dr Arvo Tuvikene
ESTONIAN UNIVERSITY OF LIFE SCIENCES, ESTONIA

"Prof Dato' Dr Noraieni's research aligns with SDG 14 which focuses on marine resource management and policies that incorporates a database system between governmental, non-governmental and intergovernmental organizations ."

"Prof Dr Arvo's major research interest focuses on the hydrobiological monitoring of lakes and seas whereby fish physiology and biomarkers are incorporated with the purpose of assessing the aquatic ecology and toxicology of the lakes and seas."



DATE
22 Feb, 2023



TIME (GMT)
TITLE 1: 3.00-4.15PM
TITLE 2: 4.15-5.30PM

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Figure 20:Poster for MaGiCo! webinar 2

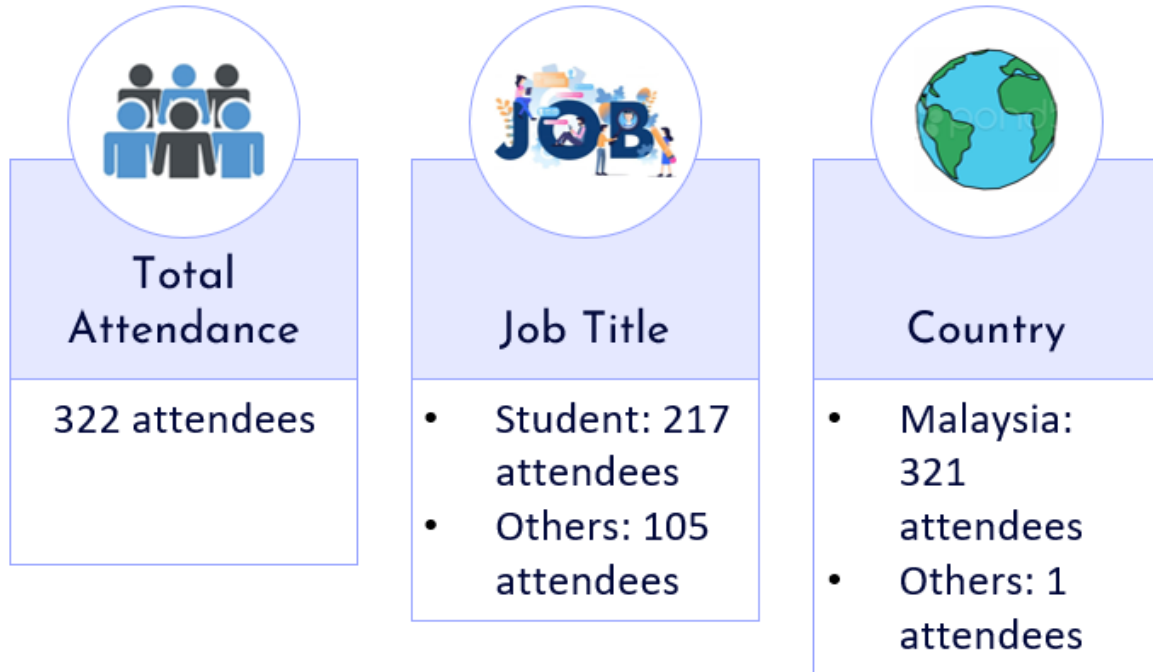


Figure 21: Photo was taken during the webinar when Prof Arvo was delivering his talk.

SESSION 3: MARCH 2023

Date: 22nd March 2023

Time: 3.00 p.m. to 5.30 p.m.

Venue: Microsoft Teams (Online Platform)

Audience: UTP Students and Malaysian Public

List of speakers

1. Mr. Alvin Chelliah | Reef Check Malaysia
Title: Local community in the management of Tioman Island Marine Park
2. Prof Dr. Christian Wild | University of Bremen Germany
Title: Functions of coral reef organisms and their ecosystems under rapid environmental change

Summary

On 22nd March 2023, the Marine Coastal and Delta Sustainability for Southeast Asia (MARE) with Institute of Geology Malaysia (IGM) as organisers conducted the MaGiCo! Webinar Series March 2023. The webinar was chaired by Intan Nur Dania Asrul Amir as the conductor of this webinar. The online webinar is collaborated by the Centre for Subsurface Imaging (CSI) and South East Asia Clastic & Carbonate Research Laboratory (SEACARL).

The webinar was open to the public and approximately 271 were in attendance. During the webinar, the attendees listened and asked question to the speakers as well as giving opinions and thoughts.

The webinar was started with Mr. Alvin Chelliah delivering his presentation with a title “Local community in the management of Tioman Island Marine Park”. For part Prof Dr. Christian Wild, he did not manage to join the webinar because he had technical issue with Microsoft Team.



This webinar was well received and well participated as this program is fresh. Other than participation from our country, we received the interest from another country as well. The webinar was recorded and here is the link for the recording <http://surl.li/iasjd>

MaGiCo! WEBINAR SERIES MARCH 2023

Title 1: Local community in the management of Tioman Island Marine Park

Title 2: Functions of coral reef organisms and their ecosystems under rapid environmental change



Mr Alvin Chelliah
REEF CHECK MALAYSIA
MALAYSIA



Prof Dr Christian Wild
UNIVERSITY OF BREMEN
GERMANY

"Mr. Alvin's research interests focus on the coral reef growth and monitoring around the islands of Malaysia with special focus on Tioman Island."

"Prof Dr Christian's major research interest focuses on the effects of climate change on coral reefs as well as the study on environment changes of coral reefs due to nitrogen cycling. "



DATE
22 MAR, 2023



TIME (GMT)
TITLE 1: 3.00-4.15PM
TITLE 2: 4.15-5.30PM

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Figure 22: Poster for MaGiCo! webinar 3

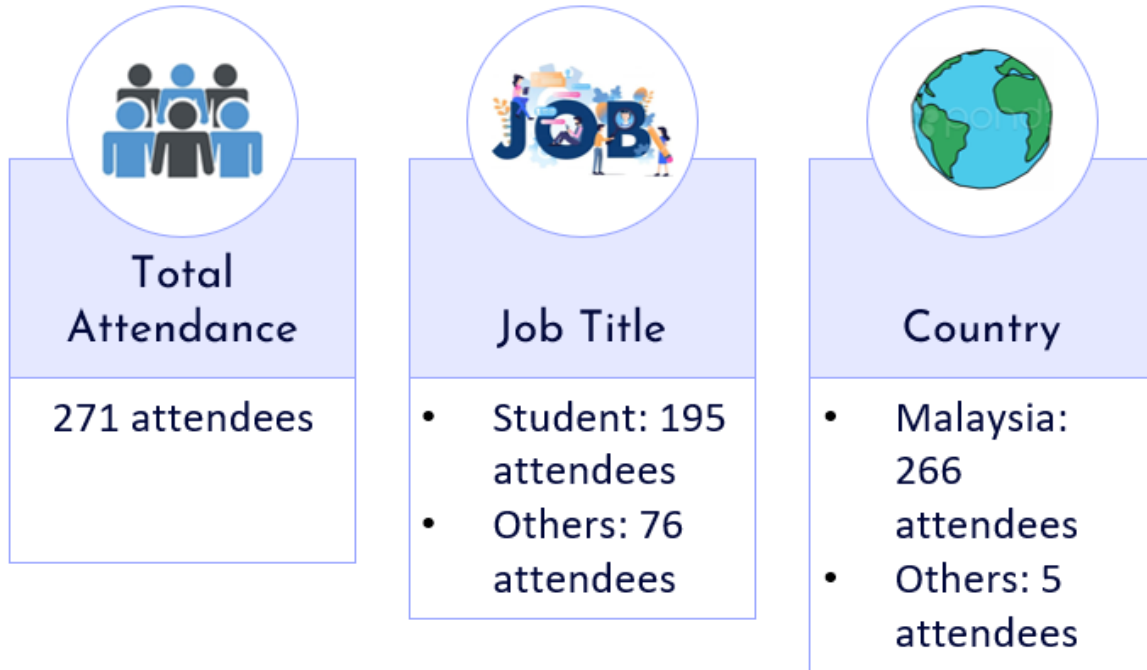


Figure 23: Photo was taken during the webinar 3.

SESSION 4: APRIL 2023

Date: 12th April 2023

Time: 3.00 p.m. to 5.00 p.m.

Venue: Microsoft Teams (Online Platform)

Audience: UTP Students and Malaysian Public

List of speakers

1. Mr. Rahimi Faizal bin Ibrahim | Petronas Malaysia
Title: Marine seismic acquisition and role of the industry practitioner in sustaining the marine environment
2. PGeol. Abdullah bin Sulaiman | Jabatan Mineral dan Geosains Malaysia
Title: Offshore sand mineral resources in Malaysia

Summary

On 12th April 2023, the Marine Coastal and Delta Sustainability for Southeast Asia (MARE) with Institute of Geology Malaysia (IGM) as organisers conducted the MaGiCo! Webinar Series March 2023. The webinar was chaired by Intan Nur Dania Asrul Amir as the conductor of this webinar. The online webinar is collaborated by the Centre for Subsurface Imaging (CSI), Southeast Asia Clastic & Carbonate Research Laboratory (SEACARL) and Geoceans UMT. MaGiCo! Webinar Series April 2023 has approved by Board of Geologists Malaysia (BoG). The organizers collaborated with BoG (<https://www.bog.gov.my/>) to attract more people to join the MaGiCo! Webinar.

The webinar was open to the public and approximately 183 were in attendance. During the webinar, the attendees listened and asked question to the speakers as well as giving opinions and thoughts.



The webinar was started with Mr. Rahimi Faizal bin Ibrahim delivering his presentation with a title “Marine seismic acquisition and role of the industry practitioner in sustaining the marine environment”. It was then continued with PGeol. Abdullah bin Sulaiman to present the title “Offshore sand mineral resources in Malaysia”.

This webinar was well received and well participated as this program is fresh. Other than participation from our country, we received the interest from another country as well. The webinar was recorded and here is the link for the recording <http://surl.li/iasjo>



MaGiCo! WEBINAR SERIES APRIL 2023

Title 1: Marine seismic acquisition and role of the industry practitioner in sustaining the marine environment

Title 2: Offshore sand mineral resources in Malaysia



Mr Rahimi Faizal bin Ibrahim
PETRONAS
MALAYSIA



PGeol Abdullah bin Sulaiman
JABATAN MINERAL & GEOSAINS
MALAYSIA

"Mr. Rahimi's research interests focus on the marine seismic acquisition with special focus on marine environment sustainability."

"PGeol Abdullah's major research interest focuses on offshore sand resources and mineral potential in Malaysia as well as the study on potential and implications of offshore sand mining in Malaysia . "



DATE
12 APR, 2023



TIME (GMT)
TITLE 1: 3.00-4.00PM
TITLE 2: 4.00-5.00PM

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Figure 24: Poster for MaGiCo! webinar 4

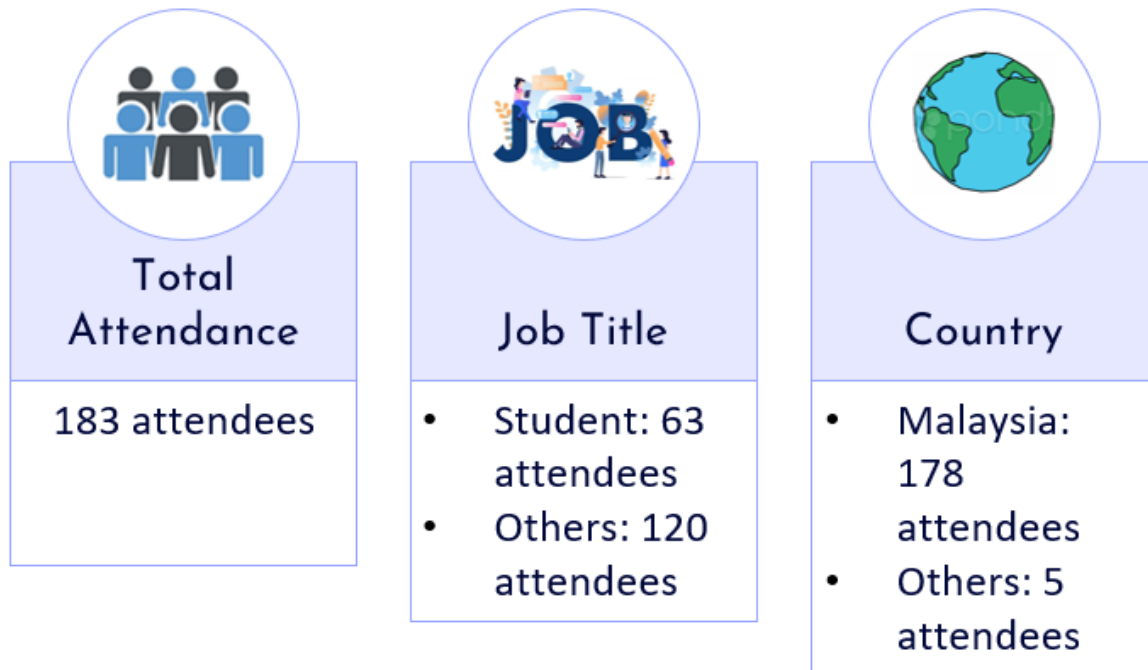


Figure 25: The presentation by En Abdullah Sulaiman

SESSION 5: MAY 2023

Date: 24th May 2023

Time: 3.15 p.m. to 4.45 p.m.

Venue: Microsoft Teams (Online Platform)

Audience: UTP Students and Malaysian Public

List of speakers

1. Ts. Dr. Teh Hee Min | Universiti Teknologi PETRONAS, Malaysia
Title: Enhancement of coastal environment in Teluk Nipah through a research and social responsibility project
2. AP Dr. Mohd Uzair Rusli | Universiti Malaysia Terengganu
Title: Terengganu Turtle Tourism: Embracing ESG Principles in Eco-Tourism

Summary

On 24th May 2023, the Marine Coastal and Delta Sustainability for Southeast Asia (MARE) with Institute of Geology Malaysia (IGM) as organisers conducted the MaGiCo! Webinar Series March 2023. The webinar was chaired by UMT student's as the conductor of this webinar. The online webinar is collaborated by the Southeast Asia Clastic & Carbonate Research Laboratory (SEACARL), Geoceans UMT, Institute of Self-Sustainable Building (ISB) and Centre for Urban Resource Sustainability (CURES).

The webinar was open to the public and approximately 265 were in attendance. During the webinar, the attendees listened and asked question to the speakers as well as giving opinions and thoughts.

The webinar was started with Ts. Dr. Teh Hee Min delivering his presentation with a title "Enhancement of coastal environment in Teluk Nipah through a research and social responsibility project". It was then continued with AP Dr. Mohd Uzair Rusli to present the title "Terengganu Turtle Tourism: Embracing ESG Principles in Eco-Tourism".



Erasmus+ Project: Marine Coastal and Delta Sustainability for Southeast Asia (MARE)

This webinar was well received and well participated as this program is fresh. The webinar was recorded and here is the link for the recording <http://surl.li/iasle>

MaGiCo! WEBINAR SERIES MAY 2023

Title 1: Enhancement of coastal environment in Teluk Nipah through a research and social responsibility project

Title 2: Terengganu Turtle Tourism: Embracing ESG Principles in Eco-Tourism



Ts Dr Teh Hee Min
UNIVERSITI TEKNOLOGI PETRONAS
MALAYSIA



AP Dr Mohd Uzair Rusli
UNIVERSITI MALAYSIA TERENGGANU
MALAYSIA

"Ts Dr Teh's major research interest focuses on hydrodynamics of coastal structures, wave and storm surge modelling, renewable wave energy and physical modelling."

"AP Dr Uzair's research interest focus on the energetics of sea turtle hatchlings during their nest escaping process with special focus on the effects of energy consumption on the hatchling's survival and swimming performance."



DATE
24 MAY, 2023



TIME (GMT)
TITLE 1: 3.15-4.00PM
TITLE 2: 4.00-4.45PM

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Figure 26: Poster for MaGiCo! webinar 5

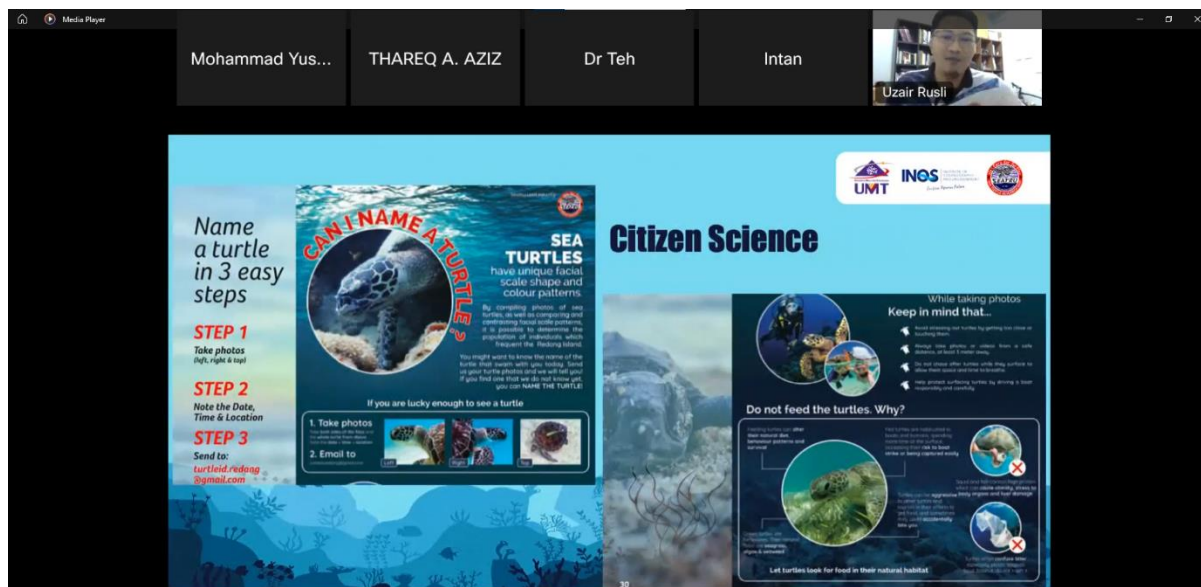


Figure 27: Photo was taken during the webinar.

Future activities with IGM beyond MARE (sustainability of the collaboration)

The collaboration between MARE and IGM is also planned beyond the completion of MARE project. Since Dr. Siti Nur Fathiyah is also an active member in IGM, initiatives to continue the collaboration under the theme of “Marine and Coastal Geology” have been planned together with Dr. Nor Bakhiah and also Mr. Abdullah Sulaiman. This will ensure the sustainability of the collaboration even beyond MARE project.

Listed below are the planned activities to ensure the sustainability of sectoral collaborative platform.

Ocean School

Ocean School is planned to be conducted in one of the islands in east coast of Peninsula Malaysia. The purpose of Ocean School is to educate the residents of the island, especially younger generation about how their island was formed from the perspective of geological process (ie: intrusion, uplifting, erosion etc), Several activities are plan throughout the Ocean School Program that includes teaching and learning, fieldtrips, hand sample observations and treasure hunt. If this program is successful, we plan to extend the program to the other islands in Malaysia.

Course for coastal mapping

This activity is planned to target university students enrolling in Geology, Geoscience, Marine Geoscience, Civil and Environmental Engineering and Marine Engineering in Malaysia. It will 3 days 2 nights activity where all participants will be stationed in a suitable coastal area in Kapas Island, Terengganu. Participants will be exposed to traditional and modern techniques of coastal mapping.

CONCLUSION

Overall, Malaysian partners through Universiti Teknologi PETRONAS (UTP) had successfully initiate and collaborate with Institute of Geology Malaysia (IGM) as part of WP4.1 sectoral collaborative platform for Erasmus+ MARE.

Several activities were conducted both online and onsite to show the commitment between IGM and MARE. Each activity, particularly online seminars or conferences received good participation from students (undergraduate and postgraduate), academician and staffs from various universities in Malaysia and outside Malaysia as well as from industry practitioners.

Both IGM and MARE team at UTP in particular have plans for the future activities as part of the sustainability of this collaboration.