

## Dissemination Activities in 2021 by Universiti Teknologi PETRONAS, Malaysia

Dissemination activities were organized, involving the staff, students, and stakeholders, as presented in the following table.

Nº	Partner University	Date and place of information workshops	Form of the event	Target audience	Participations of the event	Number of participants
1.	UTP	19.03.2021  5.00 pm – 7.00 pm  Microsoft Teams	Dissemination	Stakeholder	First year first semester undergraduate students	148
2.	UTP and Universitas Pertamina (Indonesia)	22.04.2021  1.00 pm – 4.00 pm  Microsoft Teams	Seminar	Stakeholder	UTP MARE team and participants from Universitas Pertamina	29
3.	UTP	21.06.2021  4.00 pm – 6.00 pm  Microsoft Teams	Dissemination	Stakeholder	First year first semester undergraduate students	440
4.	UTP	16.07.2021  8.00 am – 10.00 am  Microsoft Teams	Dissemination	Stakeholder	First year first semester undergraduate students	452
5.	UTP	30.08.2021  8.00 am – 5.00 pm  Microsoft Teams	Seminar	Stakeholder	Institute of Geology Malaysia (IGM) in collaboration with Geological Society of	171

					Malaysia (GSM) and managed by Academy GEX.	
6.	UTP	15.09.2021  2.30 pm – 4.50 pm  Microsoft Teams	Online Forum	Stakeholder	UTP Students and Malaysians public	282

## **DISSEMINATION**

### **SESSION 1**

**Date: 19<sup>th</sup> March 2021**

**Time: 5.00 p.m. to 7.00 p.m.**

**Venue: Microsoft Teams (Online Platform)**

**Audience: 148 First Year First Semester Undergraduate Students**

### **SESSION 2**

**Date: 21<sup>st</sup> June 2021**

**Time: 4.00 p.m. to 6.00 p.m.**

**Venue: Microsoft Teams (Online Platform)**

**Audience: 440 First Year First Semester Undergraduate Students**

### **SESSION 3**

**Date: 16<sup>th</sup> July 2021**

**Time: 8.00 a.m. to 10.00 a.m.**

**Venue: Microsoft Teams (Online Platform)**

**Audience: 52 Final Year Final Semester Undergraduate Students**

### **SESSION 4**

**Date: 15<sup>th</sup> October 2021**

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

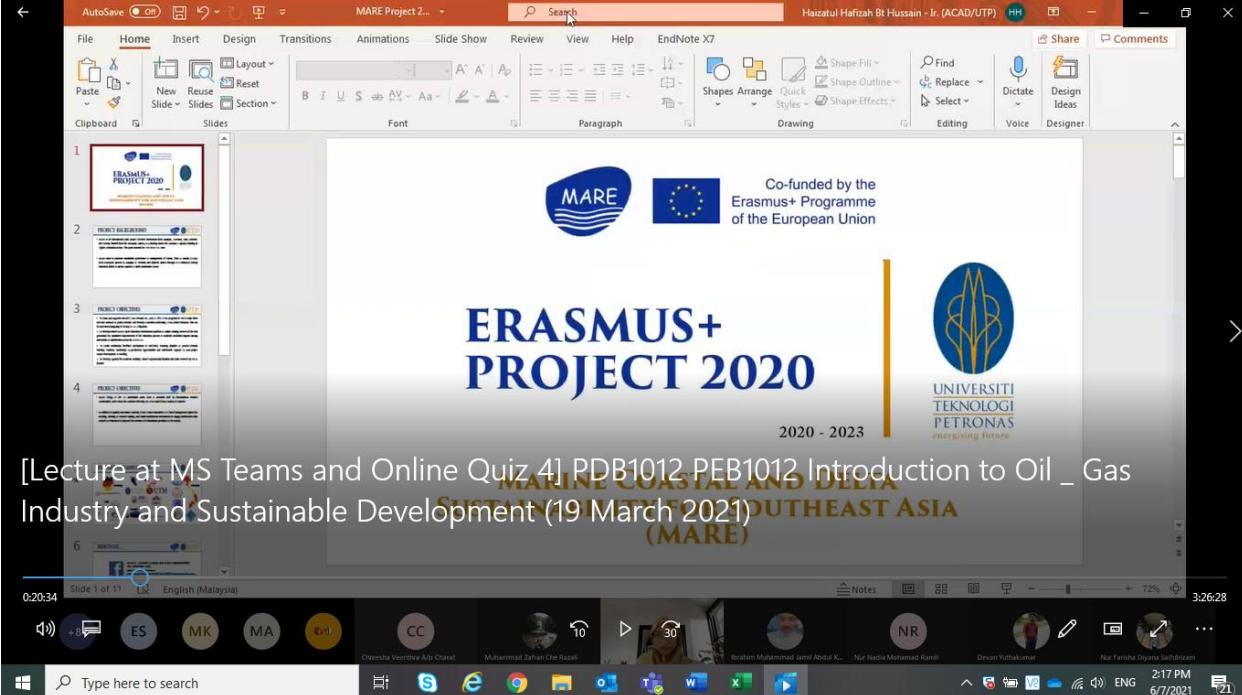
**Venue: Microsoft Teams (Online Platform)**

**Audience: 493 First Year First Semester Undergraduate Students**

## **Topic: Sharing Session on Marine Coastal and Delta Sustainability for Southeast Asia (MARE)**

### **Summary**

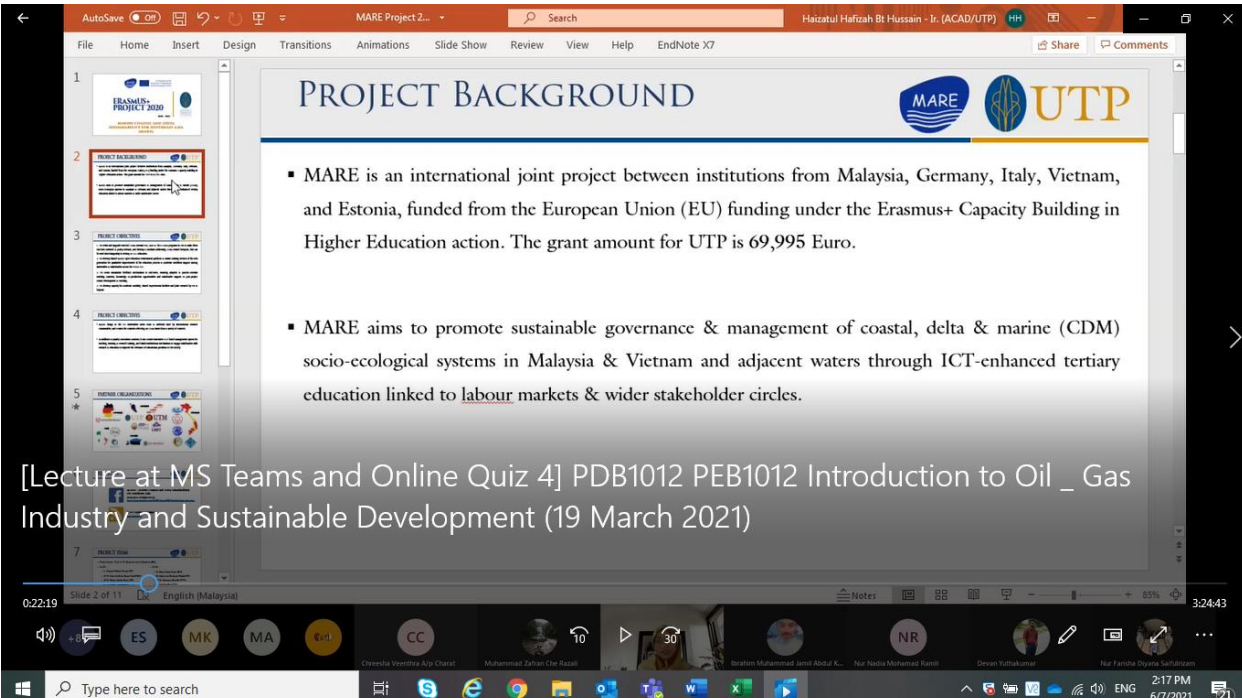
A dissemination activity on MARE was conducted on 19<sup>th</sup> March 2021 (Session 1), attended by 149 students (first year first semester Undergraduate, all programmes). During Session 2 which was conducted on 21<sup>st</sup> June 2021, the session involved a larger group, 440 students (first year first semester Undergraduate, all programmes). In Session 3 on 16<sup>th</sup> July 2021, the dissemination session involved 52 final year final semester students from the Petroleum Engineering department. Recently, Session 4 was held on 15<sup>th</sup> October 2021, involving 493 students (first year first semester Undergraduate, all programmes). All dissemination sessions were conducted via Microsoft Teams platform. The audience of the dissemination session include students from a diverse background, i.e. engineering and non-engineering programmes. The speaker of the sharing session, Haizatul Hafizah, presented to the audience on the involvement of UTP in the international project funded by the European Union (EU). In the presentation, the project objectives and aspirations are shared with the audience. There will be more sharing sessions to the respective stakeholders as the project progresses. It is hoped that the dissemination activities would help to promote MARE theme as well as achieving its objectives.



The screenshot shows a PowerPoint presentation in 'Slide Show' mode. The title slide features the MARE logo, the European Union flag, and the text 'Co-funded by the Erasmus+ Programme of the European Union'. The main title is 'ERASMUS+ PROJECT 2020' with the years '2020 - 2023' below it. The UTP logo is on the right. The slide number '1' is in the bottom left corner. The presentation is being viewed in a window titled 'MARE Project 2...'.

[Lecture at MS Teams and Online Quiz 4] PDB1012 PEB1012 Introduction to Oil \_ Gas Industry and Sustainable Development (19 March 2021)

Sharing session to 148 first year first semester Undergraduate students in Session 1




The screenshot shows a PowerPoint presentation in 'Slide Show' mode. The title slide is 'PROJECT BACKGROUND' with the MARE and UTP logos. The slide content includes two bullet points:
 

- 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 action. The grant amount for UTP is 69,995 Euro.
- MARE aims to promote sustainable governance & management of coastal, delta & marine (CDM) socio-ecological systems in Malaysia & Vietnam and adjacent waters through ICT-enhanced tertiary education linked to labour markets & wider stakeholder circles.

 The slide number '2' is in the bottom left corner. The presentation is being viewed in a window titled 'MARE Project 2...'.

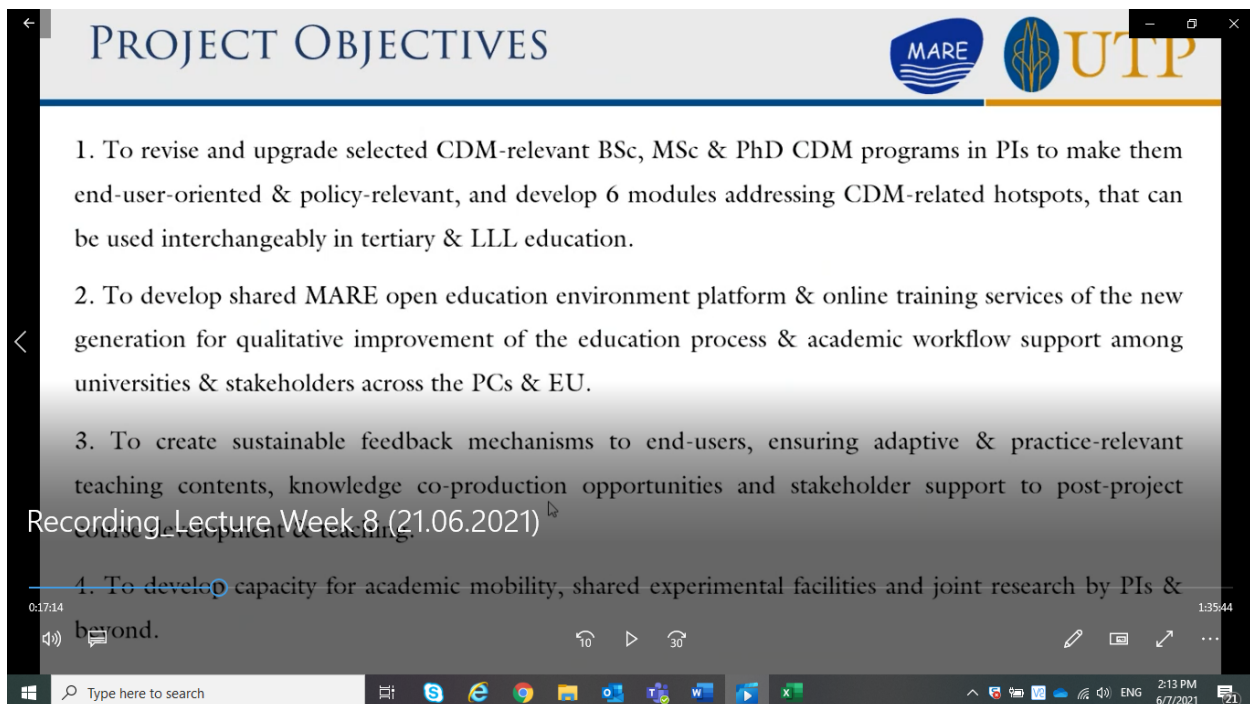
[Lecture at MS Teams and Online Quiz 4] PDB1012 PEB1012 Introduction to Oil \_ Gas Industry and Sustainable Development (19 March 2021)

Sharing session to 148 first year first semester Undergraduate students in Session 1



The screenshot shows a PowerPoint presentation titled "ERASMUS+ PROJECT 2020". The slide features the MARE logo, the European Union flag, and the text "Co-funded by the Erasmus+ Programme of the European Union". The main title "ERASMUS+ PROJECT 2020" is prominently displayed in blue. Below it, the text "2020 - 2023" is visible. The UTP logo is on the right side. The presentation is being recorded, as indicated by the "Recording\_Lecture Week 8 (21.06.2021)" text overlay. The bottom of the slide shows the text "MARINE COASTAL AND DELTA SUSTAINABILITY FOR SOUTHEAST ASIA (MARE)".

Sharing session to 440 first year first semester Undergraduate students in Session 2



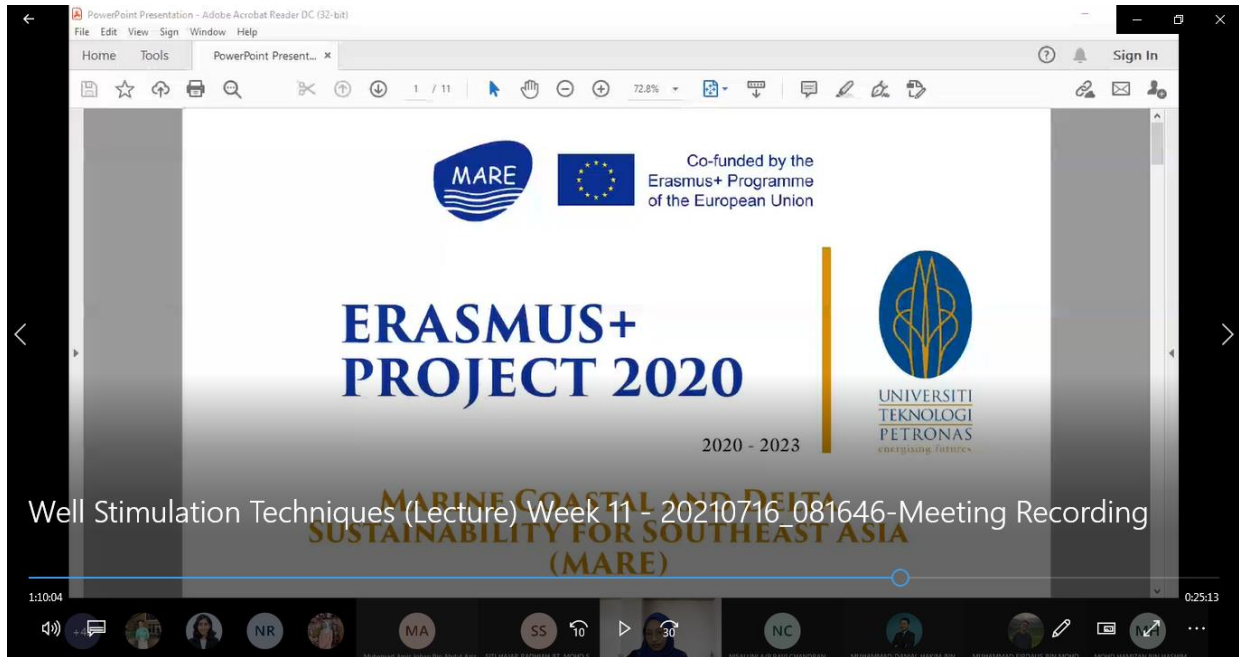
The screenshot shows a PowerPoint presentation titled "PROJECT OBJECTIVES". The slide lists four objectives:

1. To revise and upgrade selected CDM-relevant BSc, MSc & PhD CDM programs in PIs to make them end-user-oriented & policy-relevant, and develop 6 modules addressing CDM-related hotspots, that can be used interchangeably in tertiary & LLL education.
2. 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.
3. 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.
4. To develop capacity for academic mobility, shared experimental facilities and joint research by PIs & beyond.

The presentation is being recorded, as indicated by the "Recording\_Lecture Week 8 (21.06.2021)" text overlay. The bottom of the slide shows the MARE logo and the UTP logo.

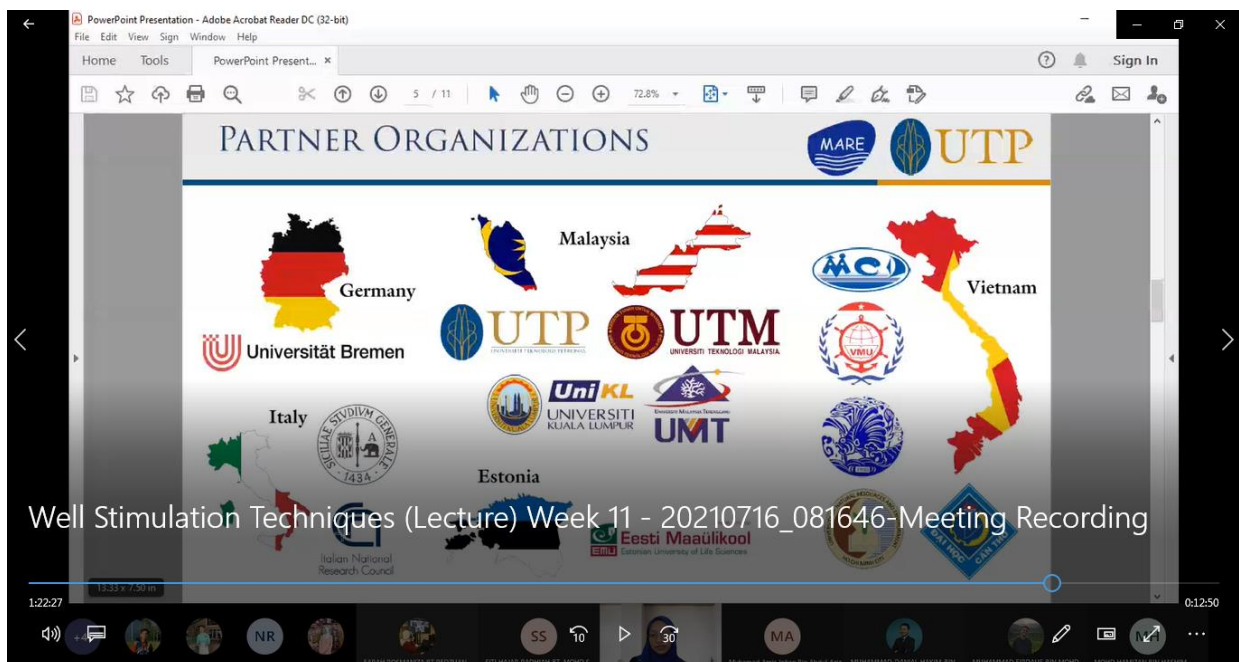
Sharing session to 440 first year first semester Undergraduate students in Session 2





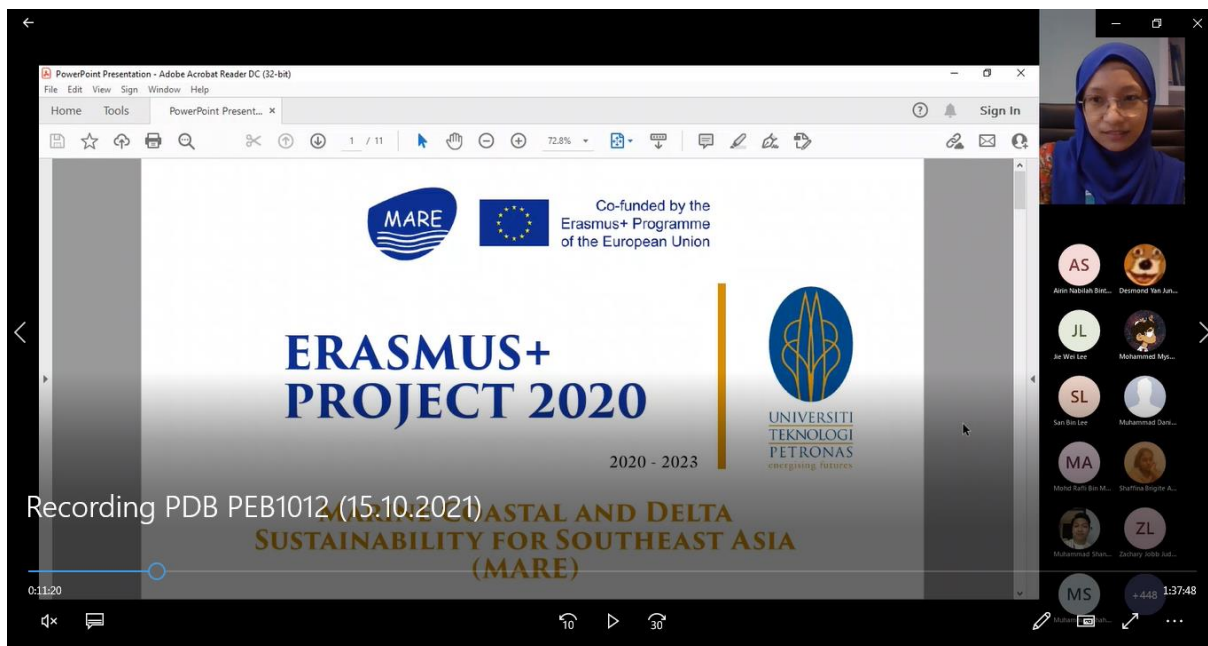
Well Stimulation Techniques (Lecture) Week 11 - 20210716\_081646-Meeting Recording

Sharing session to 52 final year final semester Undergraduate students in Session 3



Well Stimulation Techniques (Lecture) Week 11 - 20210716\_081646-Meeting Recording

Sharing session to 52 final year final semester Undergraduate students in Session 3



PowerPoint Presentation - Adobe Acrobat Reader DC (32-bit)

File Edit View Sign Window Help

Home Tools PowerPoint Present... x

72.8%

Sign In

MARE

Co-funded by the  
Erasmus+ Programme  
of the European Union

ERASMUS+  
PROJECT 2020

2020 - 2023

UNIVERSITI  
TEKNOLOGI  
PETRONAS  
emerging futures

Recording PDB PEB1012 (15.10.2021)

0:11:20

10 30

AS  
Aini Haniyah Binti... Desmond Tan Jun...

JL  
Jin Wei Lee Muhammad Myl...

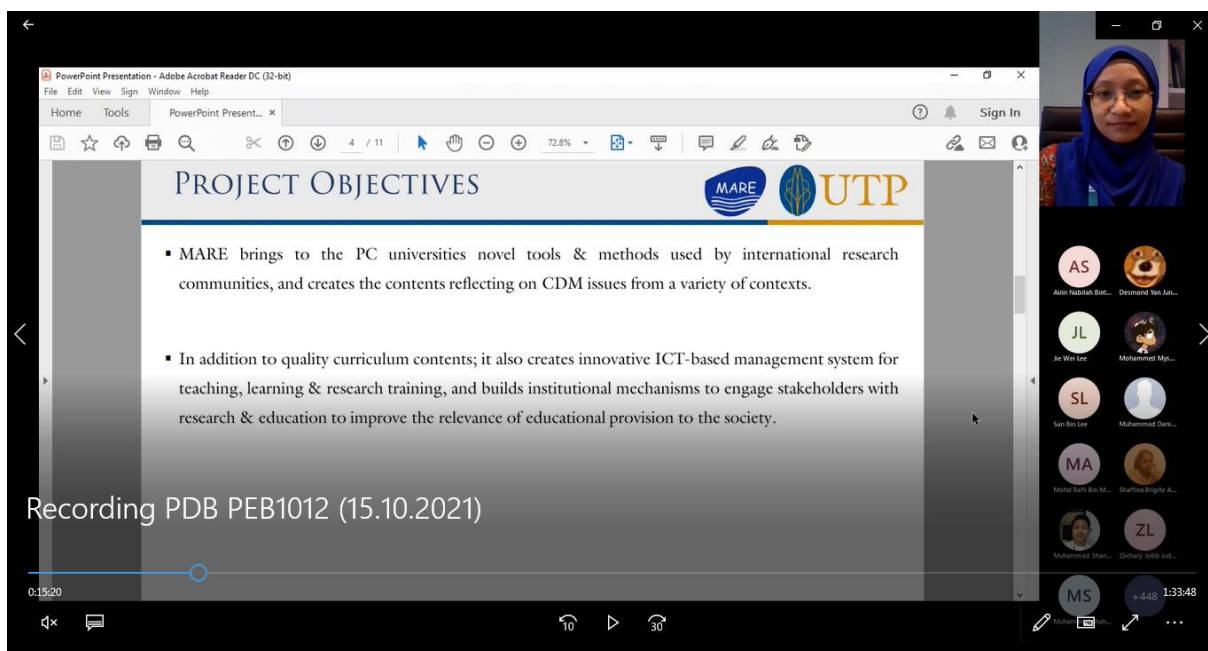
SL  
San Bin Lee Muhammad Dani...

MA  
Mazid Razi Bin M... Shafiqah Singar A...

ZL  
Muhammad Shah... Zachary Aida Ind...

MS +448 1:37:48

Sharing session to 493 first year first semester Undergraduate students in Session 4



PowerPoint Presentation - Adobe Acrobat Reader DC (32-bit)

File Edit View Sign Window Help

Home Tools PowerPoint Present... x

72.8%

Sign In

PROJECT OBJECTIVES

- MARE brings to the PC universities novel tools & methods used by international research communities, and creates the contents reflecting on CDM issues from a variety of contexts.
- 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.

Recording PDB PEB1012 (15.10.2021)

0:15:20

10 30

AS  
Aini Haniyah Binti... Desmond Tan Jun...

JL  
Jin Wei Lee Muhammad Myl...

SL  
San Bin Lee Muhammad Dani...

MA  
Mazid Razi Bin M... Shafiqah Singar A...

ZL  
Muhammad Shah... Zachary Aida Ind...

MS +448 1:33:48

Sharing session to 493 first year first semester Undergraduate students in Session 4



## REPORT

On

### Seminar “Introduction to UTP, HICOE CBBR, ERASMUS+ Project”

**Date: 22.04.2021**

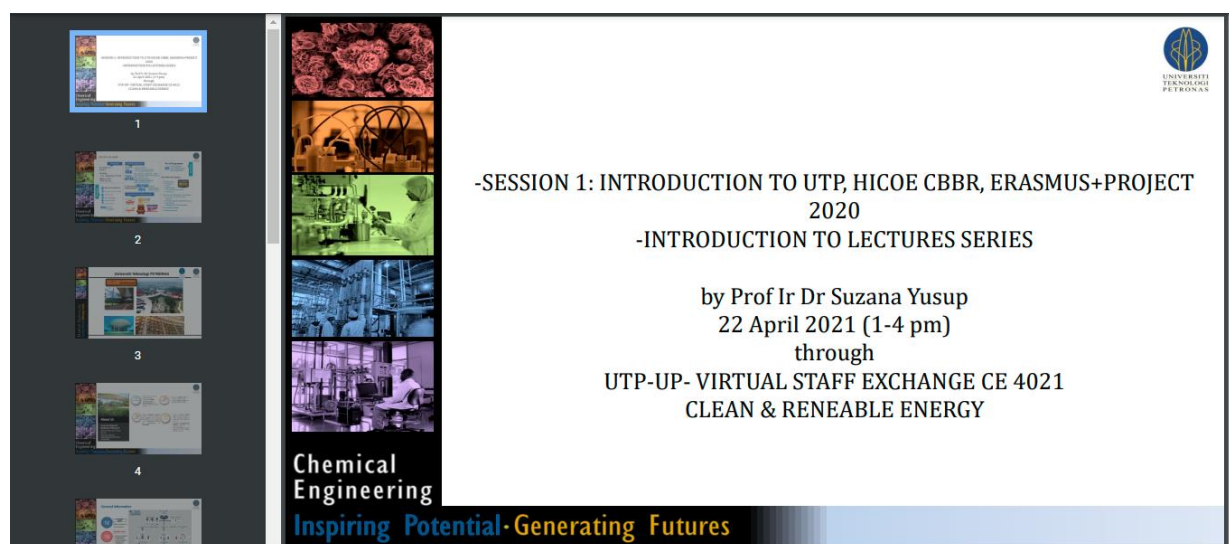
**Time: 1.00 p.m. – 4.00 p.m.**

**Venue: Online Seminar**

**Audience: UTP MARE team and participants from Universitas Pertamina (Indonesia)**

### Summary

A seminar on Introduction to UTP, HICOE CBBR, ERASMUS+ Project was held on 22 April 2021, involving UTP MARE team and participants from Universitas Pertamina in Indonesia. The number of participants involved during the session was 29 students. The speaker of the sharing session, Prof. Ir. Dr Suzana Yusup, presented to the audience on the involvement of UTP in the international project funded by the European Union (EU). In the presentation, the project objectives and aspirations are shared with the audience. There will be more sharing sessions to the respective stakeholders as the project progresses. It is hoped that the dissemination activities would help to promote MARE theme as well as achieving its objectives.



Sharing session to 29 students from Universitas Pertamina, Indonesia



5



6



7



8

## PARTICIPANTS SHARED TO is 29 in total





UNIVERSITI  
TEKNOLOGI  
PETRONAS

Sharing session to 29 students from Universitas Pertamina, Indonesia



5



6



7



8



9




Co-funded by the  
Erasmus+ Programme  
of the European Union

# ERASMUS+ PROJECT 2020

2020 – 2023

Dissemination at UTP\_UP VIRTUAL LECTURES 22-24 APRIL  
2021 BY Prof Ir Dr Suzana Yusup

## Marine Coastal and Delta Sustainability for Southeast Asia (MARE)



UNIVERSITI  
TEKNOLOGI  
PETRONAS  
*energising futures*

Sharing session to 29 students from Universitas Pertamina, Indonesia

## REPORT

On

### **3<sup>rd</sup> 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**

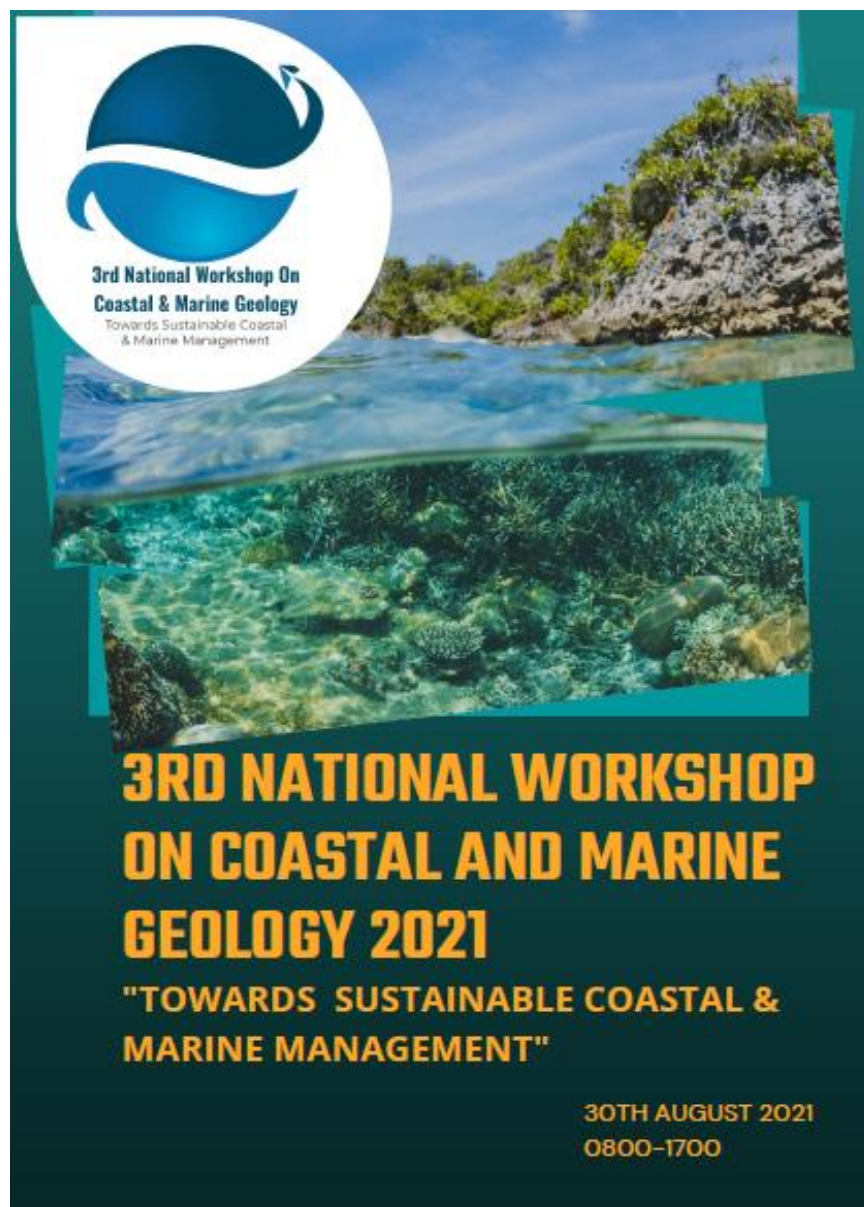
**Audience: UTP Students and Malaysian Public**

#### **Summary**

The 3<sup>rd</sup> National Marine Geology and Coastal Workshop was held on 30<sup>th</sup> 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 professional from academics, industry, and the policy maker. The speakers for this year including researchers from academic and research institute, government officer and industry players. Participant were comprise of representative from the governmental agencies, undergraduates and postgraduates students from higher learning institution, private companies and non-governmental organization. The closing remarks were given later by Mr Abd Rasid Japar (President of IGM). This one-day webinar successfully gathers 171 participants not including the moderator and also the speakers.







# TENTATIVE PROGRAMME

**29/08/2021**  
*Dry run with all moderator and speakers*

**30/08/2021**

- 0800 – 0830: Opening and arrival of participants.**
- 0830 – 0900: Opening session**  
*'GSM President for the opening remarks'*
- 0900 – 1030: Session 1**  
*'Coastal & Marine Development From Geological Perspective'*
- 1030 – 1045: Session Break**
- 1045 – 1215: Session 2**  
*'Coastal Issues, Protection and Adaption'*
- 1215 – 1400: Afternoon breaks**
- 1400 – 1530: Session 3**  
*'Coastal Resources & Sustainable Management'*
- 1530 – 1630: Panel session**
- 1630 – 1700: Closing Ceremony**  
*'IGM President for the closing remarks'*

**Towards sustainable coastal & marine management**



## PARTICIPATED AGENCIES



KEMENTERIAN TENAGA  
DAN SUMBER ASLI



JABATAN LAUT  
SEMANJANG MALAYSIA



JABATAN KERJA RAYA



JABATAN PERANCANGAN  
BANDAR DAN DESA



JABATAN GEOLOGI MALAYSIA



JABATAN PERHUTANAN  
SEMANJANG MALAYSIA



LEMBAGA  
PEMBANGUNAN  
LANGKAWI



PUSAT HIDROGRAFI  
NASIONAL



INSTITUT PENYELIDIKAN  
HUTAN MALAYSIA

## PARTICIPATED AGENCIES



FUGRO



GROUND WAVE SSPT



"Innovative Technological Solutions for  
Our Spatial World"



GEO STRATA



AIM PLANNING AND URBAN  
DESIGN GROUP

## PARTICIPATED UNIVERSITIES



UNIVERSITI SAINS  
MALAYSIA



UNIVERSITI TEKNOLOGI  
MALAYSIA



UNIVERSITI  
KEBANGSAAN  
MALAYSIA



UNIVERSITI ISLAM  
ANTARABANGSA  
MALAYSIA



UNIVERSITI MALAYA  
UNIVERSITI KUALA  
LUMPUR



UNIVERSITI MALAYSIA  
SARAWAK



SWINBURNE UNIVERSITY  
OF TECHNOLOGY  
SARAWAK CAMPUS



UTSUNOMIYA  
UNIVERSITY, JAPAN



UNIVERSITI MALAYSIA  
TERENGGANU



UNIVERSITI TUN  
HUSSAIN ONN



UNIVERSITI MALAYSIA  
SABAH



## **REPORT**

On

**Coastal and Mangrove Conservation 2021 (CMC2021) Online Forum**

**Project Date: 15.09.2021**

**Time: 2:30 p.m. – 4:50 p.m.**

**Venue: Online Forum “Coastal and Mangrove Conservation 2021”**

**Audience: UTP Students and Malaysian Public**

**Panelists are from:**

- 1. Perak Forestry Department**
- 2. Wetlands International Malaysia**
- 3. Department of Irrigation & Drainage (JPS) Perak**
- 4. Coastal Management & Oceanography Research Centre (NAHRIM)**
- 5. Institute for Environment & Development (LESTARI) of Universiti Kebangsaan Malaysia (UKM)**

**Topic: Online Forum: Impacts of Climate Change on Coastal Sustainability**

**Link to short video of the forum: <https://www.youtube.com/watch?v=OxS497A7xsM>**

### **Summary**

On 15<sup>th</sup> September 2021, Coastal and Mangrove Conservation 2021 (CMC2021) and Go Nature Campaign 2.0 (GNC 2.0) collaborated and held an online forum with the topic of Impacts of Climate Change on Coastal Sustainability. The forum was held on two online platforms which are Microsoft Teams Meeting and YouTube Live. The online forum received 282 participants both on MST and YouTube live. CMC2021 and GNC 2.0 has invited five speakers from various background related to mangrove and coastal protection. The invited speakers were YBhg. Dato’ Mohamed Zin Bin Yusop, the Director of Perak Forestry Department, Dato’ Paduka Ir. (Dr.) Hj. Keizrul bin Abdullah, the Director of Wetlands International Malaysia, Tuan Ir. Baharuddin bin Abdullah, the Director of Irrigation & Drainage (JPS) Perak, Ir. Dr. Lee Hin Lee, the Director of Coastal Management &

Oceanography Research Centre (NAHRIM) and Dr. Ahmad Aldrie Amir, Senior Lecturer/Research Fellow at Institute for Environment & Development (LESTARI) of Universiti Kebangsaan Malaysia (UKM).

The online forum session started with opening speech from the project director of CMC2021, Wellynia Jully and followed by the forum session from the invited speakers. Each speaker was given 10 minutes to present about their topic and followed by a question-and-answer session where they answered questions from the audience regarding to their topic presented earlier. The first speaker was Ir. Dr. Lee Hin Lee, where the topic she presented was the Impacts of Climate Change on Coastal Sustainability. She talked about the sea level rise projection and the method of measuring the projection which is static model and numerical model. She also elaborated more on the impacts of global warming and climate change on coastal. Lastly, she also explained about the mitigation and adaption where she talked about the ways to reduce climate change.

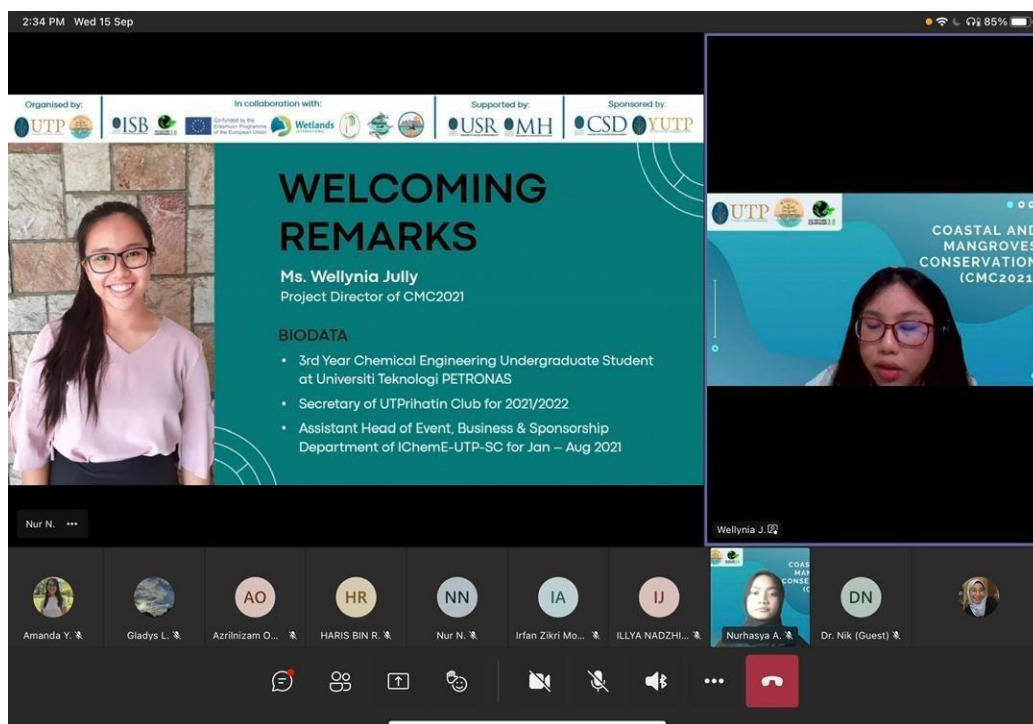
The second speaker was Dr. Ahmad Aldrie where the title of his presentation was 'Mangroves vs Climate Change'. He explained that the mangrove is important as it absorbs carbon dioxide from the atmosphere and releases oxygen. He also added that mangroves act as habitat for many organisms such as animals and plants. Lastly, he explained about the destruction of mangrove forest can result in sea level rise and cause coastal erosion.

The third speaker was YBhg. Dato' Mohamed Zin Bin Yusop with the topic of Efforts and Challenges in Conserving Coastal Areas. Firstly, he explained the definition of mangroves and showed the audience the extent of forested area for Perak State. Next, he presented the issues and challenges faced by his department in maintaining the coastal sustainability. Some of the challenges faced by him are coastal land conversion into housing, agriculture and other development activities, encroachment for agriculture and aquaculture and irresponsible garbage and waste disposal. He also explained about the efforts made by the Perak Forestry Department in maintaining the coastal sustainability. The activities that he talked about are coastal tree planting activities, gazettement of state land to PRF, communication, education and public awareness initiatives such as Sahabat Bakau Kuala Gula and Sahabat Bakau Lekir. Other than that, he also said that they have used technology based are monitoring and aerial monitoring using drones as well as integrated enforcement operations with other agencies.

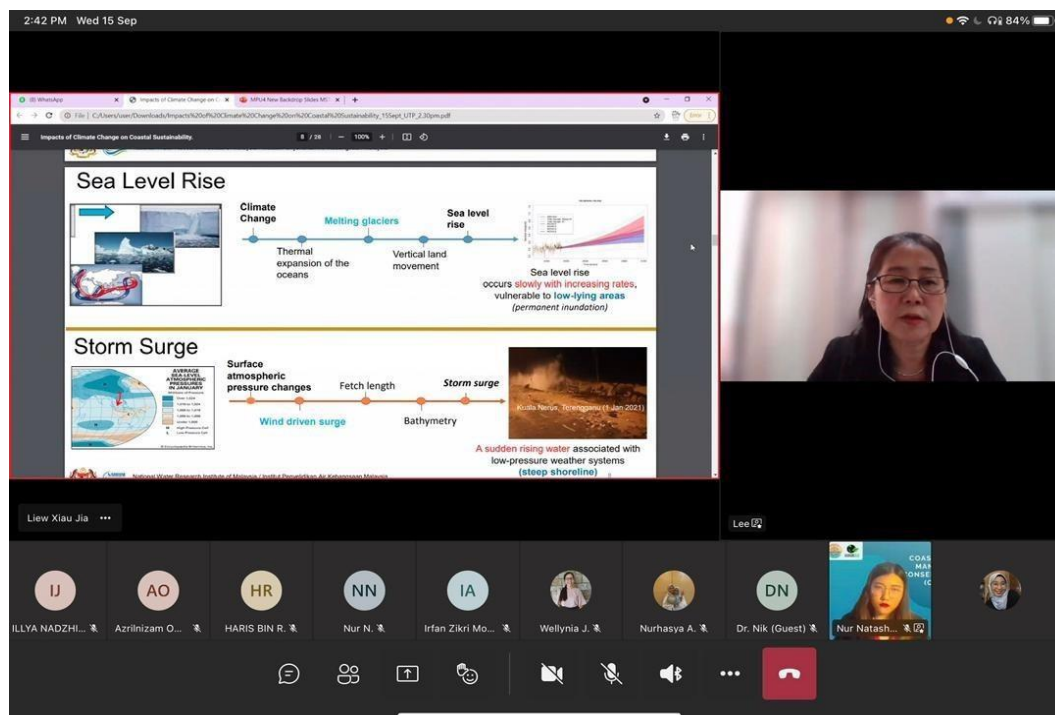
Next, the fourth speaker was Dato' Paduka Ir. (Dr.) Hj. Keizrul bin Abdullah. His topic was Adapting to Climate Change through Building with Nature. Before he explained about the concept of Building with Nature, he explained on how coastal erosion happened. He also explained that coastal erosion happened naturally when there is storm happening near the coastal area, but the high tide will bring back the sediment to replace back the eroded coastal area. Due to land conversion, the erosion that happened naturally cannot be replaced by the high tide due to the hard structure built to protect the infrastructure. Building with Nature is an initiative to imitates root of mangroves forest so it can act as barrier to protect the infrastructure build near the coastal area. This protective barrier is made out of bamboo and able to protect the land from flooding and waves erosion. It also a permeable wall, which allows the high tide to bring the sediment and replace the eroded coastal.

Lastly, Tuan Ir. Baharuddin bin Abdullah talked about the Coastal Planning and Management in Ensuring Coastal Sustainability in Perak. At first, he explained on the Perak coastline and morphology as well as the coastal profile of Perak state. He also explained that there is heritage along the coastline in Perak and it also act as recreational and tourism place such as Pulau Pangkor. Next, he talked about the statistic of coastal erosion in Perak as well as the category of the erosion. He stated that 60% of the coastal area in Perak has been eroded. Lastly, he explained more on the planning and guidelines taken by his department in order to preserve the coastal area in Perak. Some of the methods explained are Integrated Shoreline Management Plans (ISMPs) and Guidelines on Erosion Control for Development Projects in the Coastal Area.

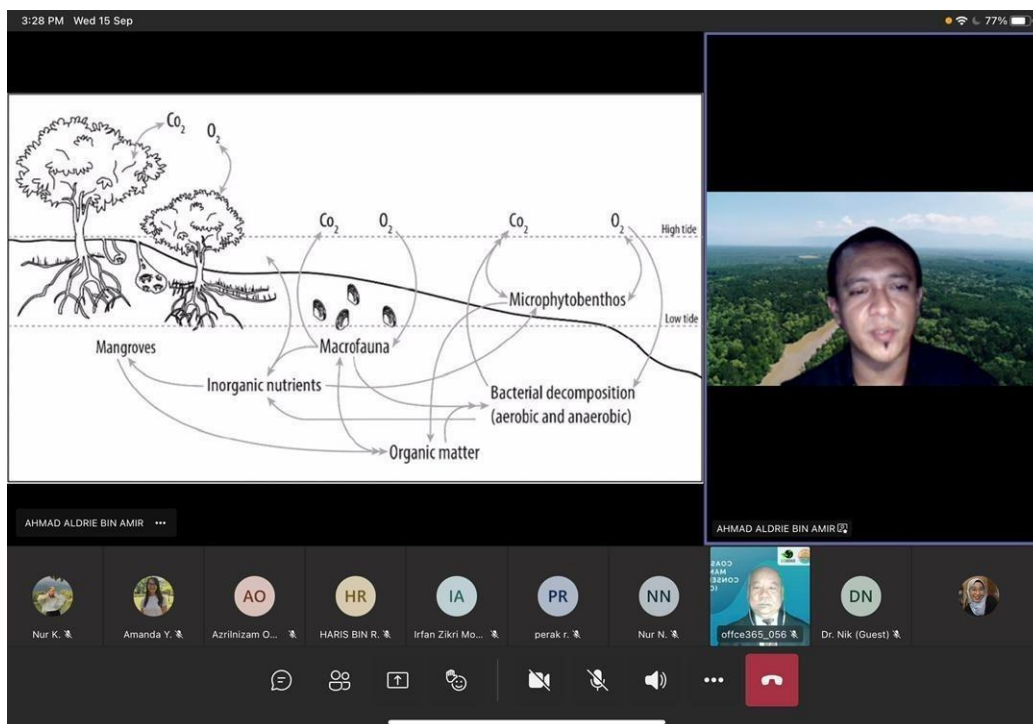
After the presentation, the moderator read out some questions from the participants and answered by the panelist. The participants have shown a great interest to the forum's topic as we received numerous questions. Following the question-and-answer session, the online forum session continued with a photography session with the speakers, moderator, emcee and the supervisors of the project. Then, the session continued with the announcement of the TikTok Challenge winner and closing remarks from Randy Philip, the Executive Project Director of GNC 3.0. The last agenda on the session was the montage video premiere and another photography session with the audience. The session ended on the positive side as we received multiple positive feedbacks from the audience, saying that it was a very interesting and eye-opener session to them.



Welcoming Remarks by Wellynia Jully, Project Director of CMC2021

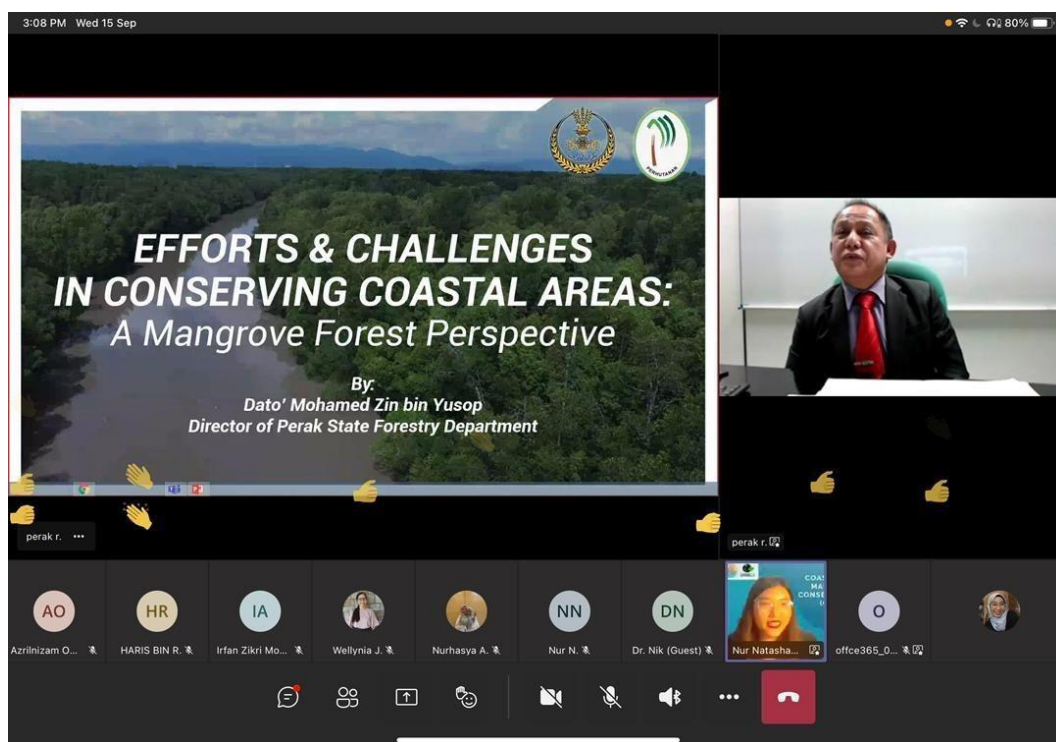


Speaker 1: Ir. Dr. Lee Hin Lee



The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Mangroves" which illustrates the carbon cycle and nutrient flow in a mangrove ecosystem. The slide shows mangrove trees exchanging  $CO_2$  and  $O_2$  with the atmosphere and soil. Below the trees, it shows "Macrofauna" and "Microphytobenthos" in the sediment, with arrows indicating the flow of "Inorganic nutrients" and "Organic matter". "Bacterial decomposition (aerobic and anaerobic)" is also shown. The slide is divided into "High tide" and "Low tide" zones. On the right, a video feed shows a man speaking. The bottom of the screen shows a grid of participant avatars and a toolbar with icons for chat, gallery view, screen sharing, and other controls.

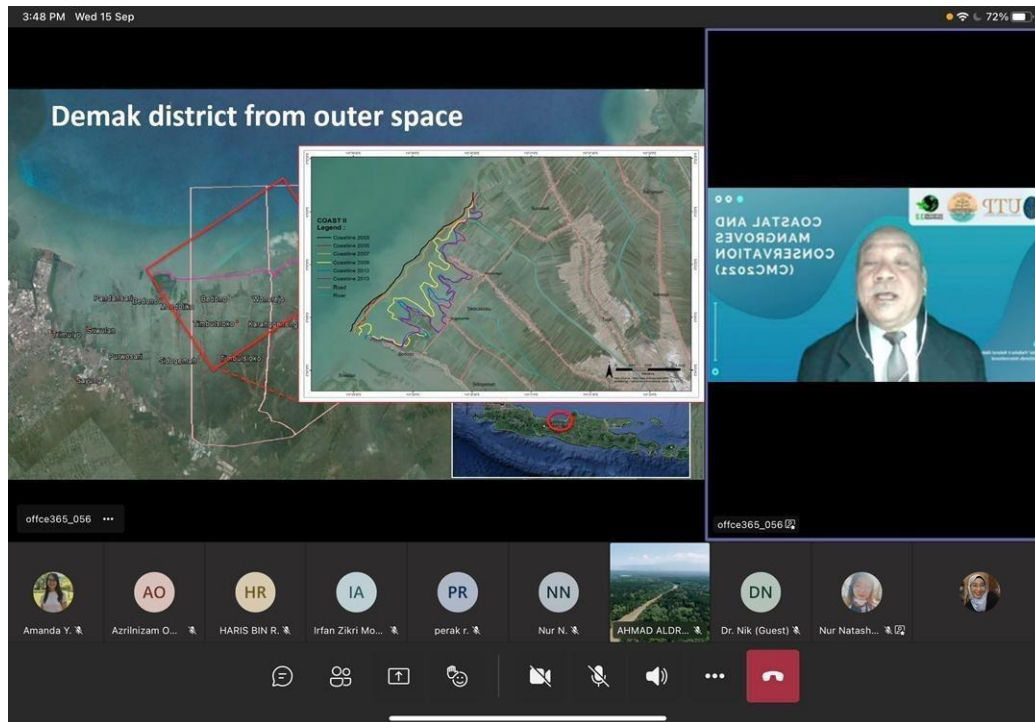
Speaker 2: Dr. Ahmad Aldrie



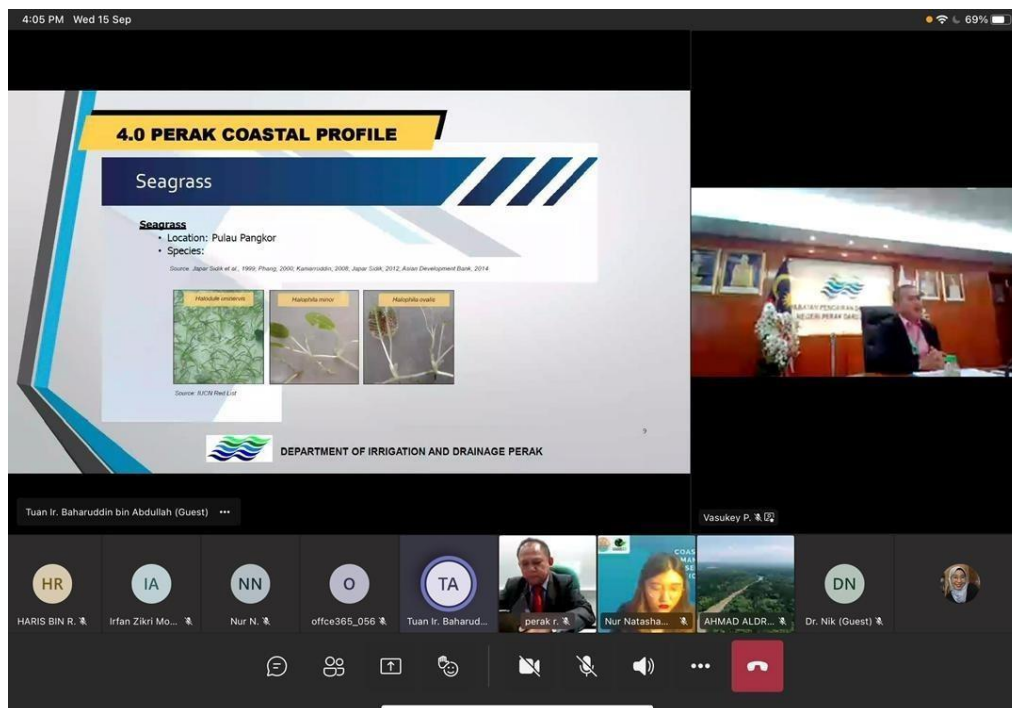
The screenshot shows a Zoom meeting interface. The main window displays a presentation slide with a background image of a mangrove forest. The slide title is "EFFORTS & CHALLENGES IN CONSERVING COASTAL AREAS: A Mangrove Forest Perspective". Below the title, it says "By: Dato' Mohamed Zin bin Yusop, Director of Perak State Forestry Department". The slide also features logos of the Malaysian government and the MARE project. On the right, a video feed shows a man in a suit and tie speaking. The bottom of the screen shows a grid of participant avatars and a toolbar with icons for chat, gallery view, screen sharing, and other controls.

Speaker 3: YBhg. Dato' Mohamed Zin Bin Yusop



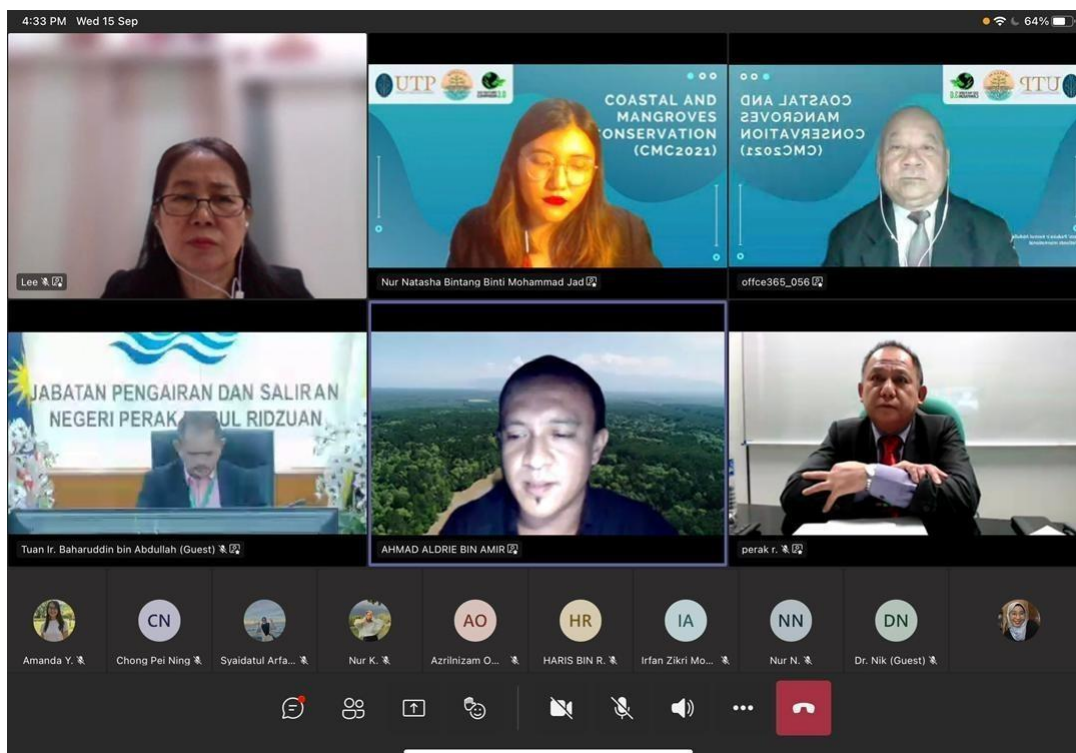


Speaker 4: Dato' Paduka Ir. (Dr.) Hj. Keizrul bin Abdullah

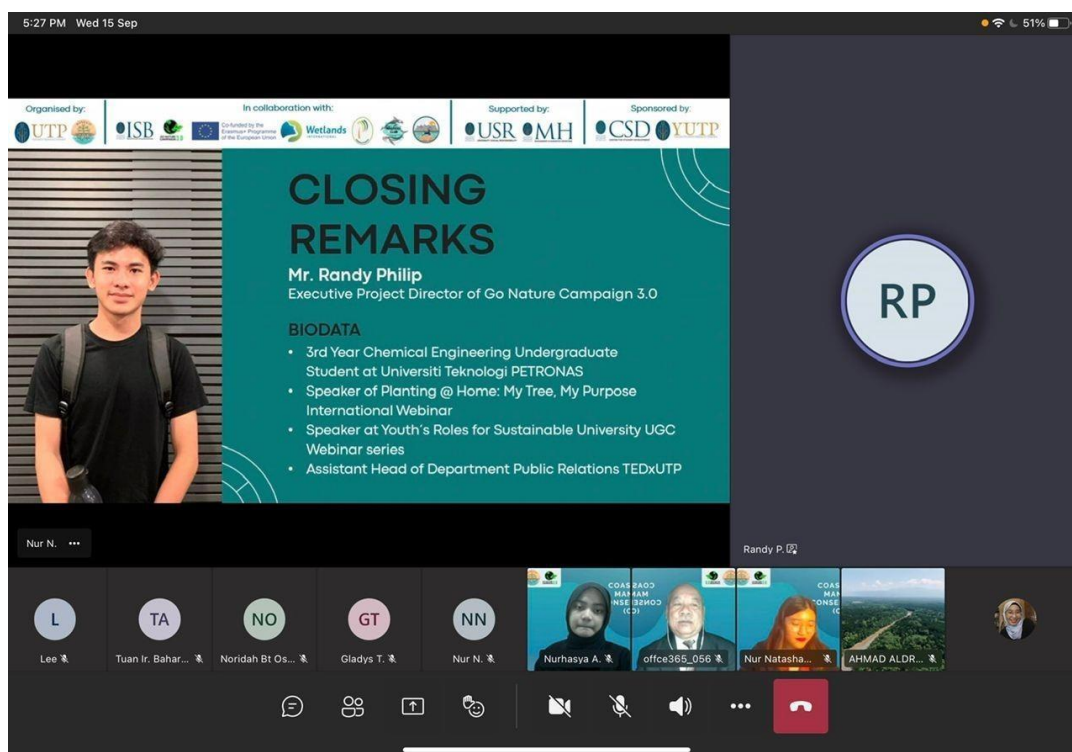


Speaker 5: Tuan Ir. Baharuddin bin Abdullah

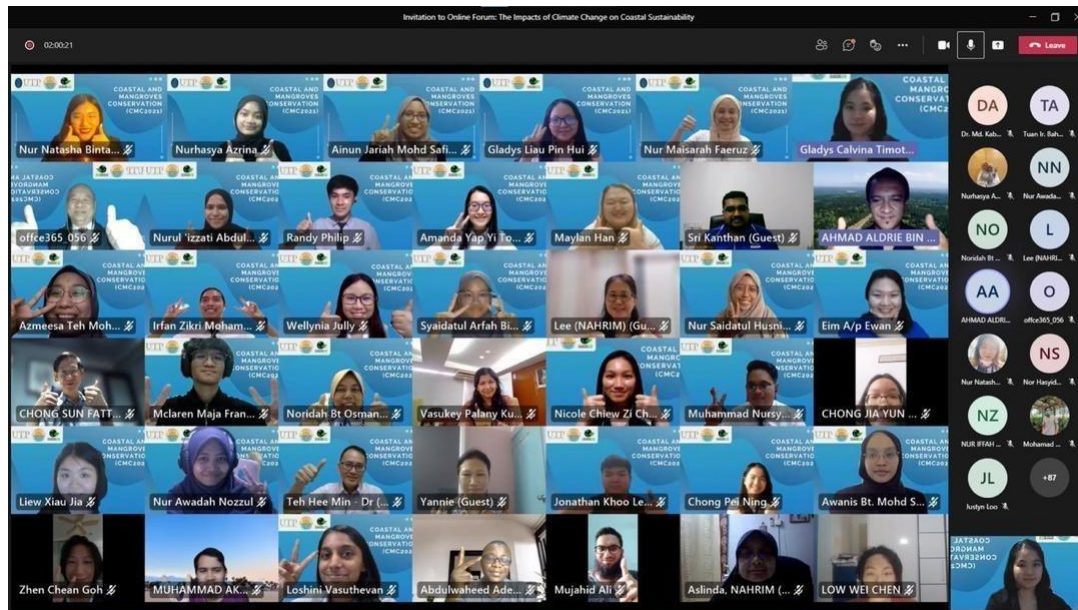




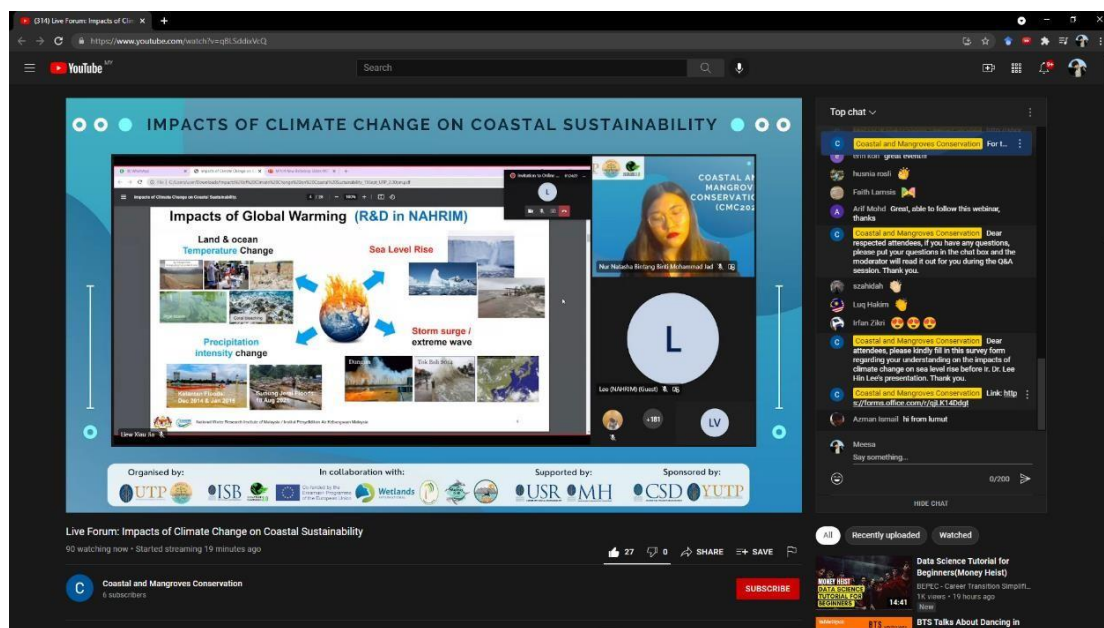
Question-and-Answer session with the audience



Closing Remarks by GNC 3.0 Executive Project Director, Randy Philip

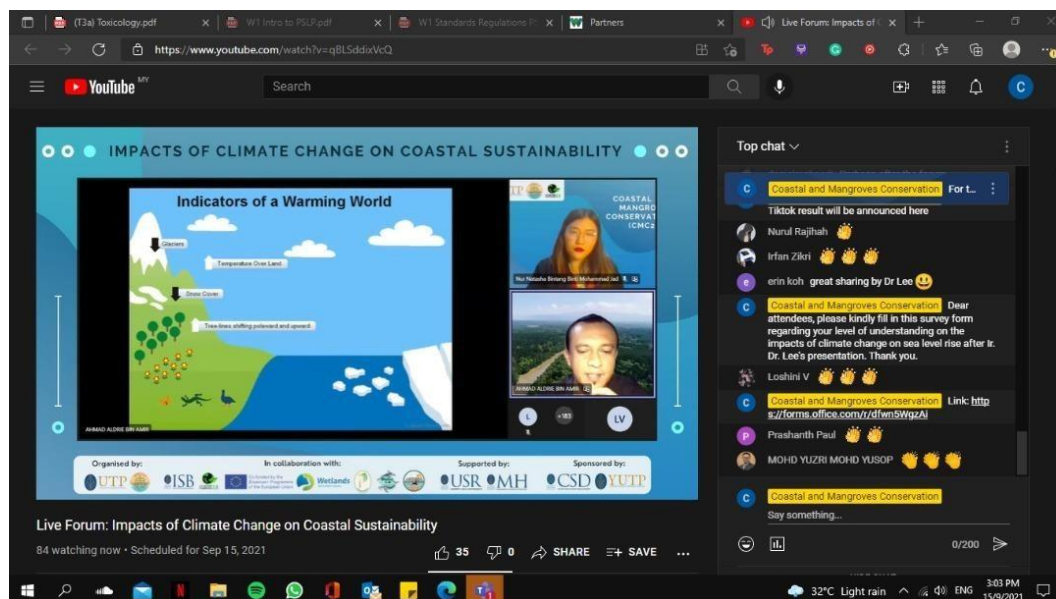


Photography session with the speakers and the audience

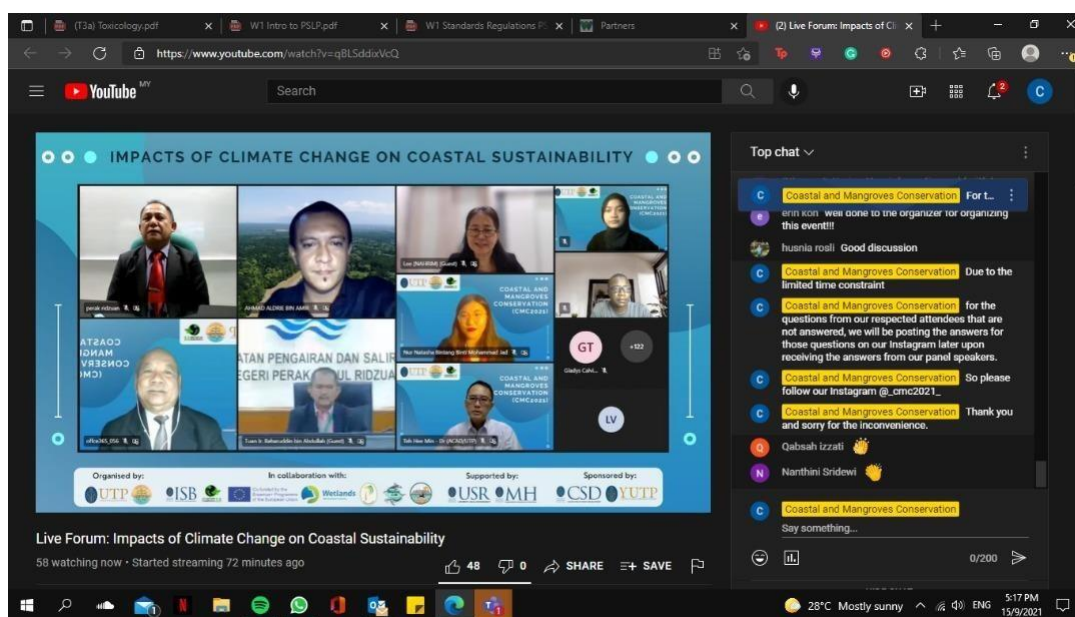


Live Streaming on YouTube





Live Streaming on YouTube



Live Streaming on Youtube