



**UNIVERSITI
MALAYA**

**UM Sustainability
& Living Labs Secretariat (UMSLLS)**

UM Campus Sustainability Report 2019/2020



**SUSTAINABLE
DEVELOPMENT
GOALS**
17 GOALS TO TRANSFORM OUR WORLD

**Title:**

**Universiti Malaya Campus Sustainability Report
(UMCSR) 2019/2020**

First Edition 2020

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Universiti Malaya

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UM Living Lab: Zero Waste Campaign
UM Living Lab: Water Warriors
UM Living Lab: The Rimba Project
UM Living Lab: Imarah Green Project on Eco-Surau APIUM
UM Living Lab: Safe Disposal of Unused Medicines
All respective UM Living Labs Grant Programme 2019/2020

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UNIVERSITI MALAYA AT A GLANCE



Universiti Malaya, or UM, Malaysia's oldest university, is situated on a 922 acre (373.12 hectare) campus in the southwest of Kuala Lumpur, the capital of Malaysia. It was founded on 28 September 1905 in Singapore as the King Edward VII College of Medicine and on 8th October 1949, it became the University of Malaya with the merger of the King Edward VII College of Medicine and Raffles College (founded in 1928). It is a comprehensive university with multidisciplinary learning (from Sciences, Arts and Humanities) that houses more than 24,000 students and 2,200 academic staff (20 over faculties, institutes, academies and research centres).

Based on the UM Strategic Plan of 2016- 2020 forms the last phase of the transformation plan that has a fifteen year horizon (2006-2020), with a guiding objective that is founded on seven Thrusts, that is, to be 'A Globally Influential and Preferred University'. This Plan incorporates specific Goals and leading Strategies and Action Plans, which are aimed at achieving greater collaboration with world-renowned institutions of higher learning, higher impact on research and outputs, and achieving financial sustainability. The Action Plans are driven by our Key Performance Indicators (KPIs).

UM ECO-CAMPUS BLUEPRINT

Parallel to the UM Strategic Plan of 2016-2020, UM Eco-Campus Blueprint (UMECB) is an important component and referral point in coordinating and facilitating all necessary action plan for campus sustainability initiatives. UMECB is the first document produced in University of Malaya 'journey' towards sustainable campus or eco-campus. This journey requires attention, support, cooperation and commitment of all stakeholders and any individual or party willing to support sustainability initiatives in a holistic and inclusive manner. The campus community should be given opportunity and platform it deserves either at the planning phase, implementation, and continuous development of University of Malaya sustainability initiatives. UMECB consists of eight (8) core areas: Landscape and Biodiversity Management, Waste Management, Water Management, Energy Management, Transportation Management, Green Procurement, Education Management – Environment & Climate Change and, Change Management - Governance, Participation & Communication.

UM CAMPUS SUSTAINABILITY REPORT 2019/2020

This report of UMSLLS Sustainability Report 2019/2020 is part of the varsity deliverables from the ideation of UM Strategic Plan and UM Eco-campus Blueprint (UMECB). Universiti Malaya Sustainability and Living Labs Secretariat (UMSLLS) Sustainability Report summarizes the varsity's progress in sustainable initiatives which aim associated to the UMSLLS Core Area through the year of 2019/2020. This report presents information on sustainable initiatives by the varsity members to comprehensively visualise Universiti Malaya (UM) sustainability endeavours. In times of the COVID-19 pandemic crisis it becomes more important than ever for universities to create value through the sustainability perspectives. We sustain and accelerate our initiatives to acclimatize to these changes. This progress is an opportunity for us to seek thoughtful partners which supportively strategize to learn and co-create innovative planning to solve for sustainability challenges in the campus, nation, and global scale.





Forewords

Commitment & pledges of Universiti Malaya to strive for a truly sustainable campus in championing SDGs at local and global platform



VICE-CHANCELLOR'S MESSAGE

DATUK IR. (DR.) ABDUL RAHIM HJ. HASHIM
VICE-CHANCELLOR, UNIVERSITI MALAYA

The global sustainability target is parallel to our mission, to advance knowledge and learning through quality research and education for the nation and for humanity. Our commitment to conduct teaching and learning, carry out research and provide quality services on a global level, generate and enhance knowledge through continuous improvement efforts for the benefit of all stakeholders as our quality policy also corresponding to global sustainability aims. This aspiration is demonstrable through the concrete initiative of the UMSLLS secretariat commitment to integrate simultaneous economic, environmental, and social impact in eight core areas. Nevertheless, the sustainable development is not a straightforward process of change, we believe that significant progress can be a proving ground, possible to solve issues and unconditionally necessary. The pandemic of Covid-19, it an opportunity for us to indivisibly combine, undertaking this existential crisis with the need to move beyond treating climate change and environmental degradation. Nevertheless, the world's interconnected threats and challenges require all of us to share accountability and contribute to a mutual vision. I am grateful with the progress we have made, although we still have many challenges on the tour to be a sustainable university. Perhaps this initiative will be able to deploy its foundation for a larger consciousness and impact at different scale by taking essential actions in securing our future. I hope not only for this university but for all of us who has the capacity will bequeath an identical legacy when it comes to ascertain the challenges of Sustainable Development Goals (SDGs).



DEPUTY VICE-CHANCELLOR (RESEARCH & INNOVATION)'S MESSAGE

PROFESSOR DR. NORSAADAH ABDUL RAHMAN
DEPUTY VICE-CHANCELLOR (RESEARCH & INNOVATION),
UNIVERSITI MALAYA

Addressing sustainability issues by providing proven research output at a local scale as we implement Living Labs, conducted within the varsity vicinity as a testbed for sustainability intellectual reflection is part of our commitment to contribute in challenges as highlighted in the Sustainable Development Goals (SDGs). Leveraging the campus scape and resources will help to innovate a profound of sustainability knowledge that later be translated and practiced by the society at large. Living Labs, in UM's context, fosters applied research and education by using the campus to test real-time sustainability solutions, offering opportunities to UM stakeholder to translate research into action and enabling the university's fabric to achieve greater engagement through practical, hands-on, and a more well-rounded educational experiences. The Living Lab mode, although relatively new compared to traditional research approach, is quickly gaining attention worldwide where innovative solutions are needed. Thus, we need to seriously pursue not only scientific and technological advancement, but also translational and transformative research to deal with the significant global challenges we face particularly during the sudden pandemic of Covid-19 as well as the new norm that cultured concurrently. It is my genuine hope this sustainability initiative will contribute an insight to solve the sustainability issues as challenged in the SDGs not only in varsity scale, the impact will hopefully ignite for a global solution.

CHAIRPERSON, UM SUSTAINABILITY & LIVING LABS SECRETARIAT (UMSLLS)'S MESSAGE

PROFESSOR DR. SUMIANI YUSOFF
CHAIRPERSON, UNIVERSITI MALAYA SUSTAINABILITY & LIVING
LABS SECRETARIAT (UMSLLS)

The comprehensive 17 Sustainable Development Goals (SDGs) with the empowerment of 169 targets has ignited our initiatives since far the global issues addressed and research created within the campus. The integration we have targeted in our unique eight core areas of UM Eco-Campus Blueprint (UMECB) launched in 2016, i.e. (1) Landscape and Biodiversity Management, (2) Waste Management, (3) Water Management, (4) Energy Management, (5) Transportation System Management, (6) Green Procurement, (7) Education Management – Environment and Climate Change, and (8) Change Management in Governance, Participation, and Communication has been the main agenda to relate and integrate global and local solutions with issues that we are facing. This is how we develop the needs and aspirations of today without compromising the ability of the future to meet their own needs. As in higher education sector, the tradition to ascertain functions of varsity in the nation is concomitantly challenging with the fulfillment of main pillars of Sustainable Development which are the incorporation of the economic development with environmental sustainability and social justice. We are not left behind by reconfiguring the limited resources and balancing each target of the SDGs, we set out impact and endure the sustainability spectrum by innovation to answer the common goals holistically. All action plans are displayed in a short-term and long-term plans to give room of opportunity to campus community to take proactive measures, in-stages, as a show of support towards promoting Universiti Malaya as one of the prominent Eco-Campus model at the local, regional, and international level in tandem with UM status as a premier and world leading university. This report highlights our progress in sustainability initiatives via living labs action research activities for the 2019/2020. Within our capacity, it is in our dream for our beloved varsity to sustain and in track for positively responded to any unprecedented challenges which compromise volatility, uncertainty, complexity, and ambiguity that globally facing and locally undergo. By sharing our experience and output, this report could help to aspire a greener global mission via not only in our projects but in our own self every action.



EXECUTIVE SUMMARY

Universiti Malaya Campus Sustainability Report 2019/2020 summarizes the varsity's progress in sustainable initiatives which aim associated to the UMSLLS Core Area through the year of 2019/2020. The Report is structured following eight core areas, i.e. (1) Landscape and Biodiversity Management, (2) Waste Management, (3) Water Management, (4) Energy Management, (5) Transportation System Management, (6) Green Procurement, (7) Education Management – Environment and Climate Change, and (8) Change Management in Governance, Participation, and Communication. The main purpose of this agenda is to integrate and relate the global issues and commitment as addressed in the Sustainable Development Goals (SDGs) by outreaching our resources for developing sustainable campus ecosystem. This report presents information on sustainable initiatives by the varsity members to comprehensively visualize Universiti Malaya (UM) sustainability endeavors. A brief summary on UM Eco-campus Blueprint (UMECB) framing our targeted core areas and Living Labs' research output reported in respective sections of this Sustainability Report. In times of the Covid-19 pandemic crisis it becomes more important than ever for universities to create value through the sustainability perspectives. We sustain and accelerate our initiatives to acclimatize to these changes. This progress is an opportunity for us to seek thoughtful partners which supportively strategize to learn and co-create innovative planning to solve for sustainability challenges in the campus, nation, and global scale. To provide feedback on the UM Campus Sustainability Report 2019/2020, please contact us at ecocampus@um.edu.my.

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UM Sustainability & Living Labs Secretariat (UMSLLS)

‘Be Different, Be the Change’





**Official launch of the
University of Malaya
Eco-Campus Blueprint
(UMECB) – 22 April
2016**



**UMECB: an important
referral document in
coordinating and
facilitating all
necessary action
plans for campus
sustainability
initiatives in UM**

VISION

To be a leader in campus greening initiatives both at local and international Higher Education Institutional (HEI) platform

MISSION

To support UM staffs and students to ensure that as a University we work together to build, sustain, and improve our capability in sustainable development agendas

UM Eco-Campus Core Areas:



UM Living Labs Grant Programme has been actively participated and assisted in the development and maintenance of several UM's sustainability initiatives



**UM Eco-campus
Blueprint**



**Ui GreenMetric
World University
Rankings (UIGM)**



**Low Carbon Cities
Framework (LCCF)**



**Times Higher
Education
University Impact
Rankings – THE**

UM Campus Sustainability Journey

Sustainable Development Solutions Network

UM is a member of SDSN Malaysia Chapter since 2014. Currently hosted by Sunway University's Jeffrey Sachs Centre for Sustainable Development. Honorary Professor Dr. Nik Meriam Nik Sulaiman is a member of SDSN Malaysia Leadership Council

ESTABLISHMENT OF UM SUSTAINABLE DEVELOPMENT SOLUTIONS NETWORK (UM SDSN) - 2014



3 Pioneer UM Living Labs: UM Zero Waste Campaign, Water Warriors UM & The RIMBA Project

- 1) Initially parked as UMCares Flagship Projects
- 2) Handed over by UMCares to SuSci RC (2015)
- 3) Eventually, centralized under the coordination of UM Eco-Campus Secretariat (now: UM Sustainability & Living Labs Secretariat) since 2018 led by Professor Dr. Sumiani Yusoff

3 PIONEER UM LIVING LABS

UM APPOINTED AS OFFICIAL TRAINER FOR KL2017 SEA GAMES & ASEAN PARA GAMES GREEN VOLUNTEERS

5 Trained 1000 KL2017 Green Volunteers (university and college students) on environmental issues & sustainable waste management practices

RANKED 34TH WORLD'S MOST SUSTAINABLE UNIVERSITY IN UI GREENMETRIC WORLD UNIVERSITY RANKINGS 2019

RANKED 80TH WORLD'S MOST SUSTAINABLE UNIVERSITY IN TIMES HIGHER EDUCATION IMPACT RANKINGS (THE IR) 2020



UM RECEIVED THE GREEN ERA AWARD 2015

1 UM (UM Zero Waste Campaign) received The **Green Era Award** at in Berlin, Germany – 2015

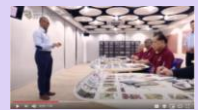
3 UM AWARDED WITH 'DIAMOND RATING: BEST PRACTICE 1' FOR LCCF



Awarded by KeTTHA at IGEN 2017 (13 Oct 2017): aims to support the government policy in reducing 45% of carbon emission per GDP per capita by the year 2030



4 UM WON TOP PRIZE PLATINUM KL MAYOR'S TOURISM AWARD 2017 'EDUCATION TOURISM': CAMPUS SUSTAINABILITY



ESTABLISHMENT OF UM ECO-CAMPUS SECRETARIAT – 2018 LED BY PROFESSOR DR. SUMIANI YUSOFF (Chairperson)

ESTABLISHMENT OF UM ECO-CAMPUS COMMITTEE (JKEKOU) – 2019 C/O OFFICE OF DVC (R&I)



REBRANDING: UM SUSTAINABILITY & LIVING LABS SECRETARIAT (UMSLLS) - 2020

6 SDG14 CHAMPION & RIVER OF LIFE SPECIAL AWARDS

Water Warriors UM won the Petaling Jaya Sustainable Community Award (SDG14 Life Below Water) by MBPJ (2019)



Water Warriors UM also won the River of Life Public Outreach Program (RoL PoP) Special Award (2019) for their work the betterment of Sungai Klang and its communities



OFFICIAL LAUNCH OF UM ECO-CAMPUS BLUEPRINT (UMECB) - 2016



2 UM ACKNOWLEDGED AS 1 OF THE 5 NATIONAL ECO-CAMPUS UNIVERSITIES

Awarded with Special Award for 'Kelestarian Kampus Hijau': 25 May 2017 by SWCorp

Sustainability Science

SUSTAINABILITY SCIENCE RESEARCH CLUSTER (SUSCI) - 2009

UM CARES

UM ENVIRONMENTAL SECRETARIAT (UMCARES) - 2008



3

UM Living Labs Grant Programme (UMLLGP)

Based on 8 Core Areas of UM Eco-Campus Blueprint (UMECB) &
Sustainable Development Goals (SDGs)

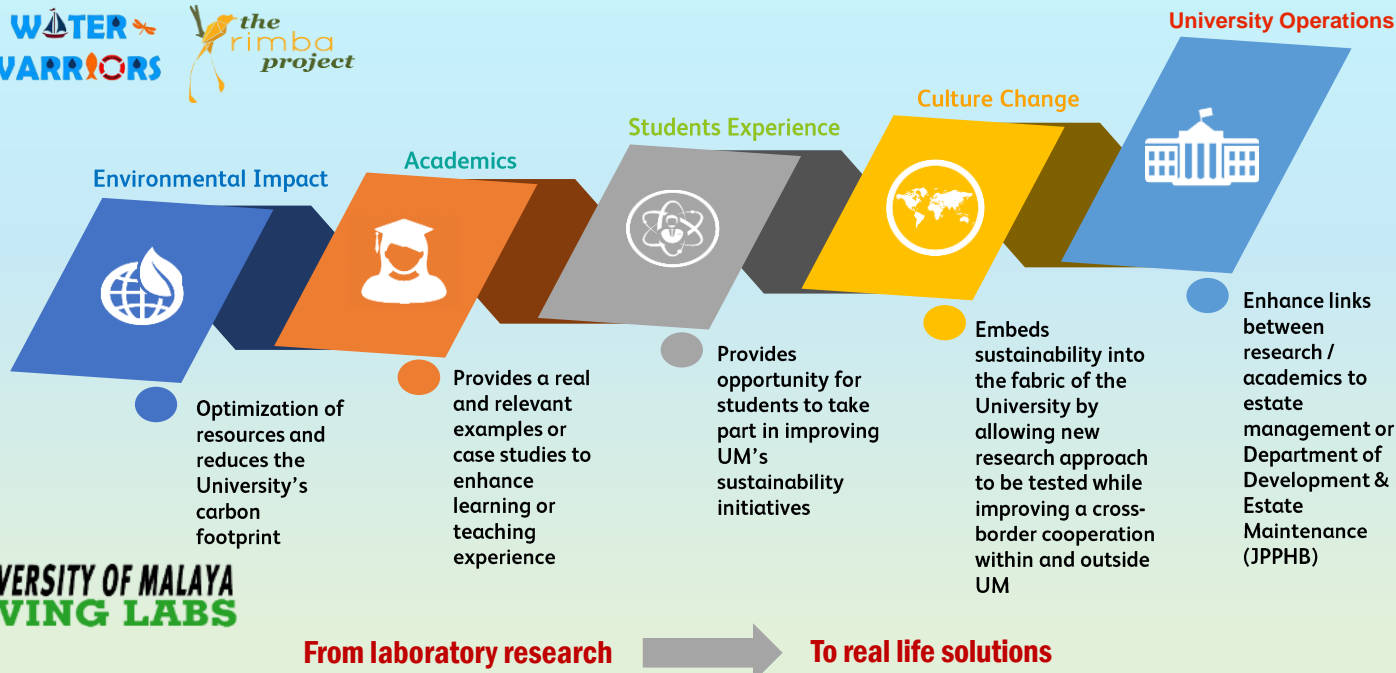


UM Living Lab

Grant Programme

ACTION-ORIENTED & TRANSLATIONAL RESEARCH

to provide **sustainable solutions** to the campus



From laboratory research



To real life solutions



Categorization of research projects according to 8 Core Areas of UM Eco-Campus Blueprint



**UM AS A LIVING LABORATORY
AIMS TO GENERATE OUTPUTS FOR THE BENEFITS OF CAMPUS COMMUNITY**





Providing solutions on sustainability issues for biodiversity & landscape management through activities such as Guided Walk, City Nature Challenge and Rimba Ilmu visit



Providing solutions on landscape management : Soil treatment, organic compost, Biochar



1. The RIMBA Project: Biodiversity Conservation by reconciling cities and nature
2. The Design and Investigation of A Novel Ecological Air Cleaning and Cooling System Using the Concept of A Living Green Wall



3. A Virtual Reality Application on Plants in University of Malaya
4. Essence of Green Roofs/Walls: UM Campus as an Experimental and Computational Living Lab towards Enhancing the Outdoor Thermal Comfort Conditions



5. Healthy Soil for a Healthy Environment; Reducing dependency on Chemical Fertilizers Consumption in UM using Organic Materials
6. Carbon Storage Mapping Initiatives through Real Time GPS Tracking and IOT Monitoring
7. Eco-Slope: Slope Eco-Engineering Techniques towards Sustainable and Green Landscape



Reducing soil erosion and increasing soil carbon storage and green surface



Reducing global energy use while absorbing and fixing CO2 from the source or atmosphere



After 1 week

Reduce environmental problem (kitchen waste) while BSF and fly larvae can be commercialized for income generation



Reduce environmental problem by disposing medications properly while reducing medicine wastage

1. **UM Zero Waste Campaign (ZWC)**
2. **Construction Waste Recycling Center for Sustainable Drainage Construction**
3. **UM Zero Food Waste Campaign**
4. **Agro-hero: Promoting Green Practices to Communities for Sustainable Agriculture**



Waste Management

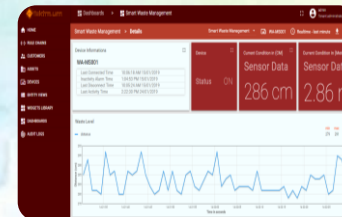
02



5. **Safe Disposal of Unused Medications – The Way Forward**
6. **Smart Waste Management System using Internet-of-Things (IOT)**
7. **Managing Kitchen Waste using Black Soldier Fly (BSF)**
8. **Recycled Plastic Aggregate as Replacement for Conventional Aggregates in Concrete**



Reduce environmental pollution due to the release of poisonous chemicals from plastics



Optimization of waste collection efficiency



UM Zero Waste Campaign (UM ZWC)



UM ZWC
Organic
Compost

Waste Management

02



As an income generation to the university and strategically minimizing harmful environmental impact on campus



ZWC's
Guidelines on
Food, Green &
Wood Waste
Separation and
Collection



ACHIEVEMENTS OF UM ZWC SINCE INCEPTION (2009 - now)

Environment

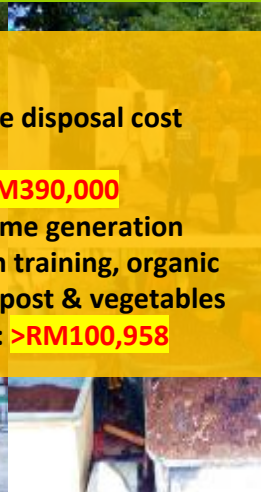
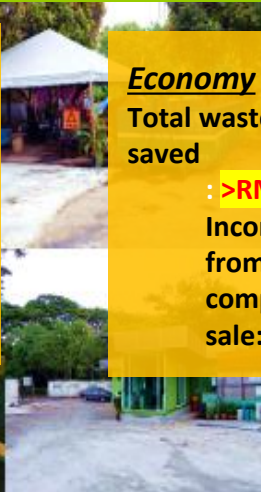
Total waste diverted:
> 1,141.19 tonne
Total carbon emission reduction: **> 5,341,576 KG CO₂-eq**

Economy

Total waste disposal cost saved:
> RM390,000
Income generation from training, organic compost & vegetables sale: **> RM100,958**

Social

- Total revenue / charity sponsor: **> RM38,000**
- Total visitors: **> 12,000**





Hands-on training water monitoring



Installation of 'Mr. Thimble' and Rainwater Harvesting System at Surau in campus to reduce water consumption



River & Lake Clean-up



Precious Plastic Project



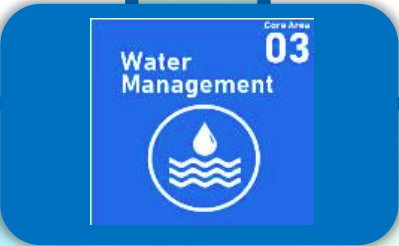
Wetland & Stream Constructions



1. UM Water Warriors



Reduce water consumption and improve water quality management in campus



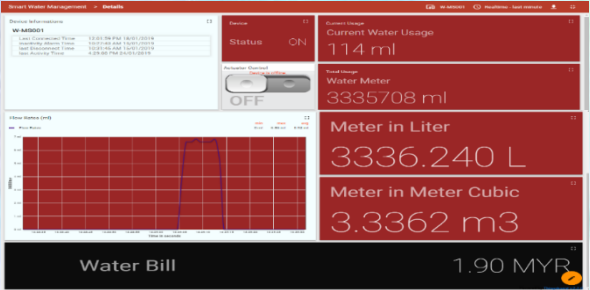
2. Water Monitoring via Internet-of-Things (IoT)



UM Living Lab's new initiative to control water consumption efficiently

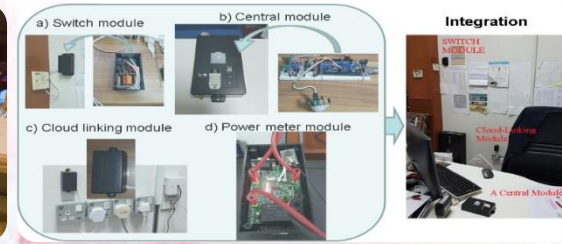


Water sensors at FSKTM (Research prototype)





Workshops, brochures, button badges and etc to educate people and increase awareness on energy management & saving



UM Living Lab's initiative to control energy consumption from lights and air conditioners as well as to increase its efficiency

1. Optimising Energy Cost With Evolution Computing Based Building Energy Management System

2. Smart Management of Electrical Appliances and Energy Saving using Internet of Things

3. Smart Modular Electrical Energy Monitoring and Management System

4. Energy Conservation Culture in University of Malaya Campus

5. Smart-E (Smart Energy Monitoring & Optimization for Pre-existing Campus Buildings)

6. Zero Carbon Building Assessment for UM Chancellory Building and Other UM Office Buildings

7. Carbon Abatement Module for University of Malaya Eco-campus: Addressing Urban Heat Island and Climate Change Impact

8. Development of Renewable Energy Harvesting System from Water Flow in UM

9. Study on Electrical Distribution System in UM



Generating renewable energy through solar panel at rooftop of WISMA R&D parking areas





Minimize the motorized vehicle number within campus and reduce transportation carbon footprint.

1. Sustainable Transport System in University of Malaya Campus: Study on Improve the Feeder Bus Service and Promote Non-motorised Transport Mode in Campus

2. Real-time and Automated Traffic Data Inventory and Monitoring System (TDIM)

3. Working towards A Sustainable Means of Campus Transportation



Core Area 05
Transportation Management



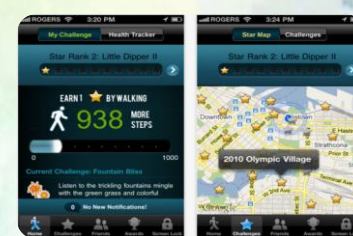
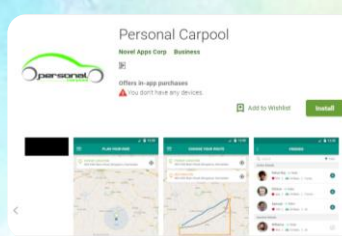
4. Evaluating Walkability Index of Campus Communities to Promote Sustainable Transportation in UM

5. Walking as a Green Transportation Mode in UM Campus

6. IoT Monitoring and Management System on Campus Sustainable Transportation



Sustainable Transport System on Carpooling via IR 4.0 Internet-of-Things (IoT)





1. Integrating Green Into The University of Malaya's Procurement Process: A Move Forward

2. Embedding Shades of Green in UM's Reporting Practices

3. UM Green Procurement for Food Premises



Green Procurement 06



Reduce environmental impacts through buying green products



Recycled tires garden

Surau's backyard mini garden

Stepping stone pathways



Seats and benches

Gentle Reminder: Do not step on me!

Surau's backyard view



Providing solutions on sustainability issues for Surau & Muslim Community in UM : Efficient use of Energy and Water, Sustainable Waste Management, Enhance green landscape, education (green usrah)



Education Management
Environment & Climate Change



Women clothes at Lestari Shop

Front view of the shop

Lestari Shop is OPEN!



Children Clothes



Men clothes at Lestari Shop

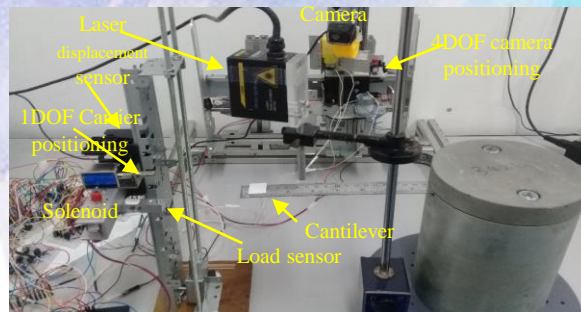


Necktie

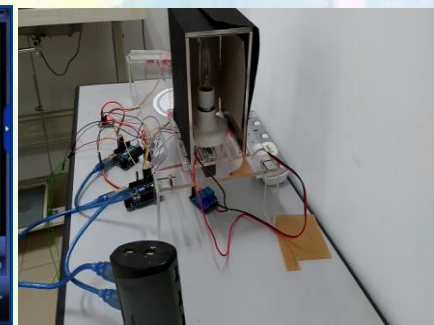
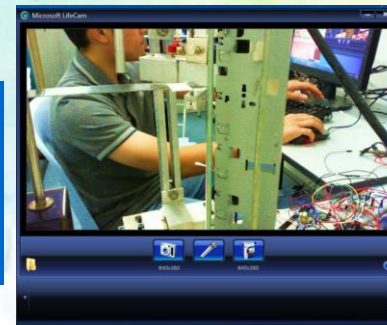


1. Transforming the Role of Surau APIUM for Campus Sustainability Through 'Imarah Green Project

2. Decentralization of Laboratory Exercise via Remote Application: A-State-of-the- Art Approach towards Efficient Educational Facilities Resource and Energy Management in Academic Institutions

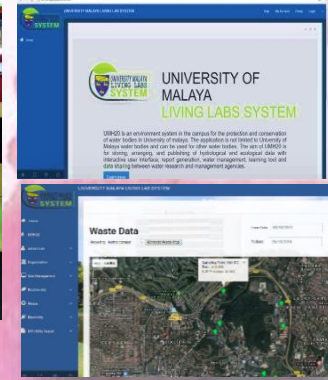


Increase learning efficiency by developing remote experimental facility





An initiative that implemented sustainability in documenting



Providing database system that can store & analyse data collectively



1. Enhancing the Visibility of UM Regional Center of Expertise (RCE) Central Semenanjung through Partnership with Bukit Fraser's Community and Authority



Change Management

Core Area 08

Governance, Participation & Communication



3. The Faculty Sustainability Report Card: Documenting Faculty Sustainability Initiatives Towards UM Eco-Campus

Additional Theme: Health and Well-being

2. University of Malaya Ecological and Hydrological Data Warehouse Prototype System

4. Homes for Active Ageing
5. The UM Cancer Farm: A Lifestyle Lab



Providing safe & comfortable environment for a good health & well being

4

UM Living Labs Achievements

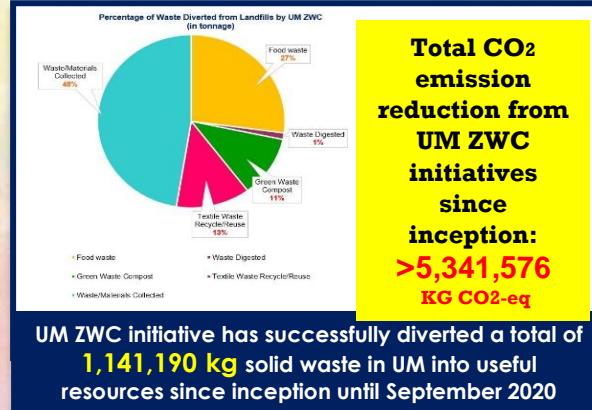
Addressing the Three Pillars of Sustainable Development: Environmental Sustainability, Societal Well-being & Economic Performance



ENVIRONMENTAL PERFORMANCE OF UM LIVING LABS



Total recyclables items collected through UMSLLS initiatives: **238,546.77 kg**



Saved **>76,878 m³** of water from water saving initiatives through installation of Mr. Thimble, Rainwater Harvesting System & IoT Water Monitoring System

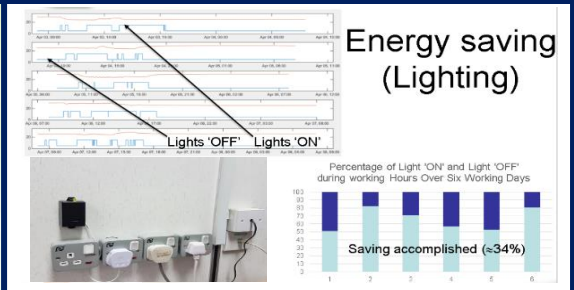
3,193.15 kg of unused medicines returned were reused/ safely disposed



Environmental performance improvement through urban gardening, lake and stream restoration & tree upkeeping



Saved **5,503 kwh** through Smart Modular Energy Monitoring System as a pilot study at Faculty of Engineering, UM



SOCIAL PERFORMANCE OF UM LIVING LABS



Community
Composting at
Block P20 Pantai
Dalam,
Bario Sarawak
and Sunway SPK
community
Damansara,
Taman Ser
Sentosa



Imarah
Eco-Surau
Programme
with Residential
Colleges and
outside
stakeholders

(e.g : JAWI,
IKIM, JAKIM)



River & Tasik
Varsity
volunteering
clean up
programmes
Fishing
programme



UM Living Labs Site Visits,
Demo & Trainings

**UM ZWC received
>12,000 visitors**



RIMBA Ilmu
Guided Walks,
Trainings and
City Nature
Challenge



IMPLEMENTING CIRCULAR ECONOMY THROUGH UM ZERO WASTE CAMPAIGN'S FOOD WASTE COMPOSTING & URBAN FARMING PROJECTS

UM's Food Waste



As an income generation to the university and strategically minimizing harmful environmental impact on campus



UM ZWC Composting Site (Takakura Composting)

UM ZWC Organic Compost



**RM5
per kg**



UM Zero Waste Campaign (UM ZWC) initiative in turning food waste into useful resources (Organic Compost)

Current total sale of Organic Compost, Organic Vegetables & Training Sessions : RM41,000

Other UM ZWC's sustainability initiative is Urban Garden Project. This initiative practiced circular economy by planting fruits (e.g: papaya & pineapple) and vegetables (e.g red chilli, spinach, pumpkin and etc) using UM ZWC organic compost which become part of project's income generation sources.

Current total sale of organic fruits & vegetables : RM1,100

UM LIVING LABS MEDIA APPEARANCES

Tasek Varsiti as the Heart of UM

UM's Tasek Varsiti is an iconic symbol of the university, a place where nature meets academia. It is a lush green landscape with a large body of water, surrounded by trees and buildings. The lake is a popular spot for students and staff to relax and enjoy the outdoors. It is also a place where many important events and activities take place, making it the heart of the university.

MISI SI PENCINTA SUNGAI

A group of students and staff are participating in a river cleanup activity. They are wearing blue shirts and are using tools to pick up trash from the riverbank. The activity is part of a larger initiative to protect the environment and promote sustainable living.

SCHOOL TIMES

NATURE IN OUR MIDST

A collection of articles and photos about nature and the environment. The articles discuss the importance of protecting natural resources and the role of living labs in promoting sustainable living. The photos show various natural landscapes and activities related to environmental conservation.

ANALISIS

Maklumat Berasikutan 'Majlis Baitul Hikmah'

Prof. Dr. Saifuddin Zakiari

Pengetik Institut Sains & Teknologi Industri dan Pengiraan Statistik UM dan Universiti dan Lingkar

Ecowatch

Help protect our urban biodiversity

A group of people are standing in front of a large tree. They are holding signs and banners that say "Help protect our urban biodiversity". The group is part of a larger initiative to protect the environment and promote sustainable living.

Whither nature conservation in rapid development?

A group of people are sitting around a table, discussing the topic. They are looking at a map and some documents. The discussion is part of a larger initiative to protect the environment and promote sustainable living.

ANALISIS

Maklumat Berasikutan 'Majlis Baitul Hikmah'

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Pengetik Institut Sains & Teknologi Industri dan Pengiraan Statistik UM dan Universiti dan Lingkar

Metrai MoU tambahan Projek Kebun Kejiranan LA21

A group of people are standing in front of a large tree. They are holding signs and banners that say "Metrai MoU tambahan Projek Kebun Kejiranan LA21". The group is part of a larger initiative to protect the environment and promote sustainable living.

KEMPA SIFAR SISA UNIVERSITI MALAYA

A group of people are standing in front of a large tree. They are holding signs and banners that say "KEMPA SIFAR SISA UNIVERSITI MALAYA". The group is part of a larger initiative to protect the environment and promote sustainable living.

Peranti mudah alih ukur karbon dioksida

A group of people are standing in front of a large tree. They are holding signs and banners that say "Peranti mudah alih ukur karbon dioksida". The group is part of a larger initiative to protect the environment and promote sustainable living.

UM Eco Freemarket santuni komuniti PPR Kerinchi

A group of people are standing in front of a large tree. They are holding signs and banners that say "UM Eco Freemarket santuni komuniti PPR Kerinchi". The group is part of a larger initiative to protect the environment and promote sustainable living.

Peranti Pemantau Alam Sekitar

A group of people are standing in front of a large tree. They are holding signs and banners that say "Peranti Pemantau Alam Sekitar". The group is part of a larger initiative to protect the environment and promote sustainable living.

SAMPAN MAHAL 'Tarikan' industri RM30b

A group of people are standing in front of a large tree. They are holding signs and banners that say "SAMPAN MAHAL 'Tarikan' industri RM30b". The group is part of a larger initiative to protect the environment and promote sustainable living.

INFINITI

INOVASI • SAINS • GAJET

A group of people are standing in front of a large tree. They are holding signs and banners that say "INFINITI INOVASI • SAINS • GAJET". The group is part of a larger initiative to protect the environment and promote sustainable living.

UNIVERSITI MALAYA

Tuan Haji Ismail Mokhtar
Ketua Pengarah
Jabatan Pengurusan Sisa
Pepejal Negara

YB Fahmi Fadzil
Ahli Parlimen
Lembah Pantai

Prof. Madya Dr. Sumiani binti Yusoff
Dekan Kluster Penyelidikan
Sustainability Science,
Universiti Malaysia

SELAMAT PAGI MALAYSIA
22 SEPTEMBER 2018 9 AM
"HARI HABITAT SEDUNIA:
HALATUJU PENGURUSAN SISA PEPEJAL
PERBANDARAN DI MALAYSIA"

Waste management starts with us

Experts weigh in on best ways for sustainable environmental preservation through tried models

Tuan Haji Ismail Mokhtar
Ketua Pengarah
Jabatan Pengurusan Sisa
Pepejal Negara

YB Fahmi Fadzil
Ahli Parlimen
Lembah Pantai

Prof. Madya Dr. Sumiani binti Yusoff
Dekan Kluster Penyelidikan
Sustainability Science,
Universiti Malaysia

Tips for effective waste management beyond 2020

- Prioritise reduction** - A key principle of waste management is to reduce the amount of waste generated at the source.
- Extended producer responsibility (EPR)** - EPR is a policy approach to waste management that places the responsibility on producers to manage the waste generated by their products.
- Incentive in innovative, alternative delivery systems** - Incentives can be used to encourage businesses and individuals to adopt more sustainable waste management practices.
- Reduce awareness, shifting mindset and encourage eco living** - Raising awareness and changing the mindset of the public is crucial for effective waste management.
- Transparency in labelling items** - Transparency in labelling items can help consumers make more informed choices about the products they buy.
- Greening initiatives through encouragement** - Encouraging businesses and individuals to adopt greener practices can help reduce waste and improve the environment.

Thailand

Public Broadcasting Services
28 February 2020

University of Malaya Zero Waste Campaign (UM ZWC)

University of Malaya Zero Waste Campaign (UM ZWC)

University of Malaya Zero Waste Campaign (UM ZWC)

University of Malaya Zero Waste Campaign (UM ZWC)

Tech-forward waste transformation

Environment experts revisit importance of recycling and using technology to turn rubbish into profit

Tech-forward waste transformation

Tech-forward waste transformation

Tech-forward waste transformation

Zeroing in on zero food waste

Various models, lower economics and technological innovation as answers to the global problem

Zeroing in on zero food waste

Zeroing in on zero food waste

Zeroing in on zero food waste

TheStar

TOPICS | BeLocal | Covid-19 Watch | In 500 Words | SOBA 2020 | Political Crisis | True or Not | Do You Know

Activists want stricter zoning laws near water bodies

Thursday, 17 Sep 2020
By: BAVANI M

Activists hope that DBKL will lighten its zoning laws to prevent businesses from operating near water bodies and drains like this monsoon drain behind Sri Johor Plaza in Cheras.

RIVER activists in the Klang Valley are calling for local governments like Kuala Lumpur City Hall (DBKL) to relax its zoning laws.

They hope that the authorities will tighten requirements with regard to density in all

TheStar

TOPICS | BeLocal | Covid-19 Watch | In 500 Words | SOBA 2020 | Political Crisis | True or Not | Do You Know

Kg Kuantan youths lead the way in caring for Sungai Selangor

Monday, 03 Aug 2020

Kampung Kuantan youths and villagers actively take part in cleaning Sungai Selangor as having a clean river will also spur the tourism industry.

YOUTHS are change-makers who can make a positive difference.

Realising this, several university undergraduates embarked on a programme to engage with youths in Kampung Kuantan, Kuala Selangor, to form a youth environmental group.

Ramadan: 20,000 tan makanan dibazir

Oleh IZZAT NASURUDIN
pergajibuan.com.my

KUALA LUMPUR 25 APRIL

KEMENTERIAN Perdagangan Dalam Negeri dan Hal Ehwal Pengguna menjangkakan 20,000 tan makanan akan dibazirkan setiap hari sepanjang Ramadan ini.

Menterinya, **Datuk Saifuddin Nasution Ismail** berkata, jumlah itu merangkumi makanan yang tidak habis terjual di bazsar Ramadan dan beberapa tempat yang lain di seluruh negara.

"Kemusna makanan ini dijangka terbuang begitu sahaja dan kita sedia maklum mengenai perkara ini. Antara inisiatif

TheStar

TOPICS | BeLocal | Covid-19 Watch | In 500 Words | SOBA 2020 | Political Crisis | True or Not | Do You Know

When the tide goes out: Challenges of the water industry

Friday, 12 Oct 2018
By: IZZAT NASURUDIN

Water is the lifeblood of a nation. It is essential for the survival of the human race. However, the water industry faces many challenges that threaten the availability of this vital resource.

One of the major challenges is the increasing demand for water. As the population grows, the need for water increases. This has led to the depletion of water resources and the need for more efficient water management practices.

Another challenge is the pollution of water bodies. Industrial and domestic waste discharge into rivers and lakes has led to the contamination of water resources. This has a serious impact on the health of the population and the environment.

The water industry must therefore take steps to address these challenges. This includes the implementation of water conservation measures, the treatment of wastewater, and the protection of water resources from pollution.

Urgent need to deal with food packaging waste

Various models, lower economics and technological innovation as answers to the global problem

Urgent need to deal with food packaging waste

Urgent need to deal with food packaging waste

Urgent need to deal with food packaging waste

HIGHER ED

THE ANTHEM 'NEGARA': NATIONAL SYMBOL AND ICON
SEEKING DIGITAL TALENT

Universiti Malaysia converts discommissioned bus for university students into a room for rental

Universiti Malaysia converts discommissioned bus for university students into a room for rental

Universiti Malaysia converts discommissioned bus for university students into a room for rental

PETALING JAYA: A fancy a staycation in a completely refurbished vintage campus bus?

Published on: Wednesday, August 16, 2016
By: Bernama

PETALING JAYA: A fancy a staycation in a completely refurbished vintage campus bus?

PETALING JAYA: A fancy a staycation in a completely refurbished vintage campus bus?

PETALING JAYA: A fancy a staycation in a completely refurbished vintage campus bus?

The joys and benefits of observing nature

Author: Kuan Jia Ling

The joys and benefits of observing nature

The joys and benefits of observing nature

The joys and benefits of observing nature

5

UM Living Labs

Overall Contributions

Tracking record and its impact on human capital, environmental performance and monetary gains



UM SUSTAINABILITY & LIVING LABS SECRETARIAT (UMSLLS) SUMMARY ACHIEVEMENTS (2015 - present)



150
HUMAN CAPITAL
DEVELOPMENT
(PhD, Masters, Undergraduates, RAs)



673
SEMINARS/
WORKSHOP/
TRAINING/ DEMO

26
AWARDS /
RECOGNITION



328
NETWORKING
& LINGKAGES
(Local & International)



220
PUBLICATIONS
(Journal, Book, Chapter in Book, Policy
Papers, Proceedings, Guideline)



66
MEDIA
APPEARANCE
(Radio, Newspaper, Television)



**Total Direct Income :
RM 86,799**

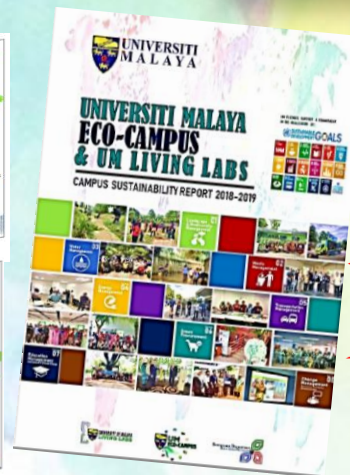
**Total Indirect saving since :
RM 1,035,306**

**Total GHG Emission Reduction :
15,630,000 kg CO₂ -eq**

UM LIVING LABS PUBLICATION



Besides article journals, UM Living Labs also emphasize on other type of publications such as books, guidelines, training modules, brochures, interactive maps and coffee table book.



**Total Monetary Gain
RM 1,410,605.72**

GREENHOUSE GASES (GHG) ASSESSMENT

15,630,000
(kg CO₂-eq)

SUCCESSFULLY DIVERTED FROM
UM SUSTAINABILITY & LIVING LABS INITIATIVES
FROM 2015-2019

CARBON SEQUESTERED BY:

= 258,445

tree seedlings grown
for 10 years

Do we have enough land area to plant such a large number of trees?

Will we be able to plant such a large number of trees in our lifetime?

6

UM Living Labs & Sustainable Development Goals (SDGs)

Living up to the aspirations of SDGs by Leaving No One Behind via
campus sustainability initiatives and continuous engagements

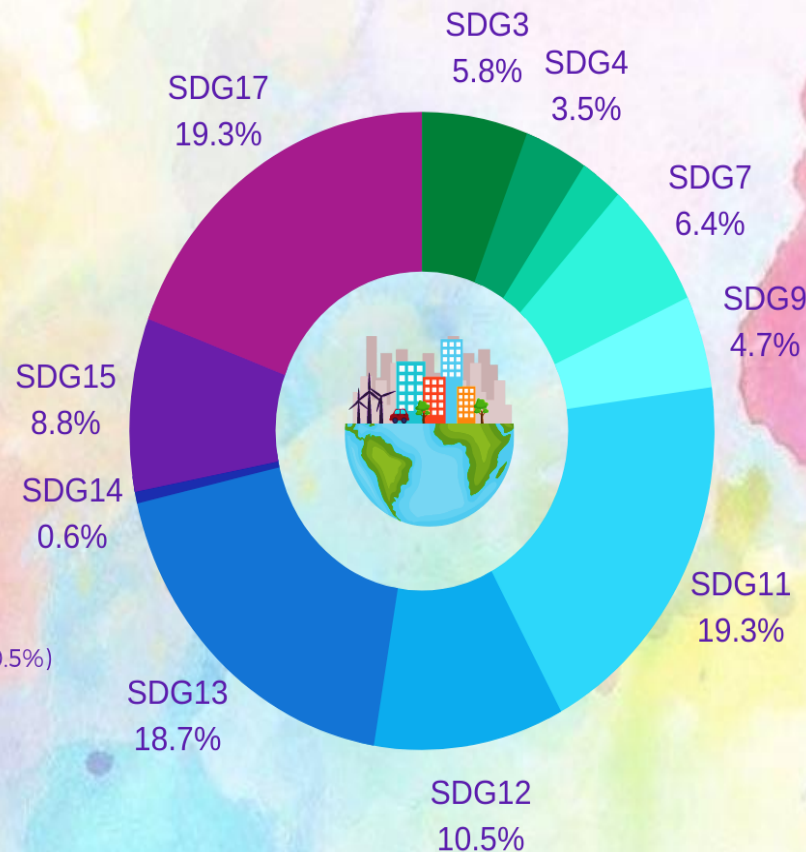




SDGs & UM Living Labs Contribution (2015 - 2020)

UMLL's contributions in SDGs:

- SDG17 - Partnerships for the Goals (19.3%)
- SDG11 - Sustainable Cities & Communities (19.3%)
- SDG13 - Climate Action (18.7%)
- SDG12 - Responsible Consumption & Production (10.5%)
- SDG15 - Life on Land (8.8%)
- SDG7 - Affordable & Clean Energy (6.4%)
- SDG3 - Good Health & Well-Being (5.8%)
- SDG9 - Industry, Innovation & Infrastructure (4.7%)
- SDG4 - Quality Education (3.4%)
- SDG14 - Life Below Water (0.6%)



NOTE: The following SDGs are taken out due to several factors: UMLL Projects are more focus on campus sustainability initiatives (core: environmental component). On that note, other type of research projects and grants in UM would cover these following 'absent' SDGs:

SDG1 - No poverty, SDG2 - Zero Hunger, SDG5 - Gender Equality, SDG8: Decent Work & Economic Growth, SDG10 - Reduced Inequalities, SDG16 - Peace, Justice and Strong Institutions



UM Living Labs project that supports SDG1:

- Transforming the Role of Surau APIUM for Campus Sustainability Through 'Imarah Green Project – Eco Free Market at Kerinchi Residence



Capacity Building Programmes



Networking & Linkages

Successful coordination of Eco-Bazar Jariah program:

This program was part of the Back to School Carnival hosted by Masjid Jamek al-Khadijiah, Kampung Pantai Dalam with collaboration of Eco-Free Market (EFM), Yayasan Ikhlas, and GiatMARA. With the theme: 'Rezeki Hari Ini', this program spearheads by Masjid Jamek al-Khadijiah and Yayasan Ikhlas aims to provides a practical platform to identify and assist our community in needs via donation of grocery items, school attires, toys for kids and cash.



Community Involvement

End poverty in all its forms everywhere



RM1,353.40

Has been donated to respective community





*End hunger, achieve food security
and improved nutrition and
promote sustainable agriculture*



RM 45,000

*Current total sale of organic compost,
vegetables and training session by UM ZWC*

UM Living Labs project that supports SDG2:

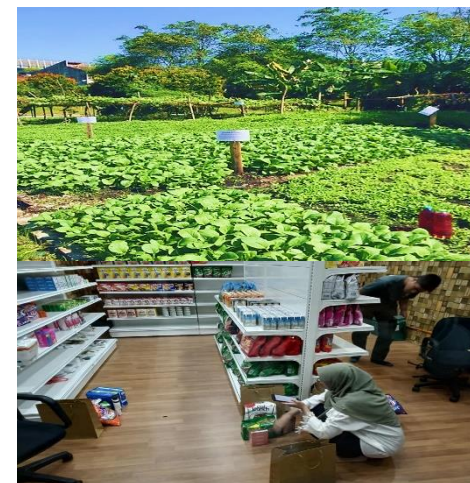
- *UM Zero Waste Campaign:
Integrated and Sustainable
Management Model
Development in University
of Malaya Campus*



***UM Campus Food Bank
(Deputy Vice-Chancellor Student
Affairs Office)***

Implementation of circular economy through UM Zero Waste Campaign's food waste composting & urban farming projects:

UM Zero Waste Campaign (UM ZWC) initiative on circular economy practices through the idea of transforming food waste into useful resources by Takakura Composting method. This initiative applies the concept of Waste-to-Wealth as the products (Vegetables and fruits) will be sold to the markets and interested parties. This promotes true circular economy in UM campus as well as sustainable agriculture, while strategically minimizing harmful environmental impact in campus.





List of UM Living Labs projects that support SDG4:

- Transforming the Role of Surau APIUM for Campus Sustainability Through 'Imarah Green Project'
- The RIMBA Project: Biodiversity Conservation by reconciling cities and nature
- UM Zero Waste Campaign: Integrated and Sustainable Management Model Development in University of Malaya Campus
- UM Water Warriors



Networking and Linkages with National & International Stakeholders

Imarah Green Project: Surau APIUM intends to provide educational programme related to sustainability concerns from Islamic perspective and advocate eco-mosque concept at Surau Academy of Islamic Studies, University Malaya (APIUM) by promoting green practices among staff and students. To start the ball rolling, this project has collaborate with significant stakeholders by integrating proper infrastructures for water conservation, waste management while embedding green & biodiversity element around Eco-Surau APIUM. The philosophy of this initiatives were intensified to all Surau of residential colleges in UM and currently working to be expanded beyond the campus wall in collaboration with Jabatan Agama Islam Wilayah Persekutuan (JAWI).

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

4 QUALITY EDUCATION



112

Capacity Building & Community Engagement Programmes



>10000

Students and staff involved





List of UM Living Labs projects that support SDG6:

- *UM Water Warriors: Integrated Water Management*
- *Transforming the Role of Surau APIUM for Campus Sustainability Through 'Imarah Green Project*

UM Water Warriors

Water Warriors (WW) is one of the pioneer Living Lab Action Research Programmes which focuses specifically for Integrated Water Management at Universiti Malaya by applying the “heartware-software-hardware” governance approach to deal with water sustainability issues on campus.



Conservation of Water Bodies

This project works on reviving and conserving water bodies on campus through enhancement of constructed wetland and stream project at Tasek Varsiti, flood mitigation projects, pollution mapping of campus watershed, development of UM Water Educational and Information Centre in conjunction of supporting the National Level River of Life (ROL) programme, upcycling of plastic waste from rivers into valuable items and development of interpretive space for UM Green Belt (Tasik Varsiti and surrounding).

Conservation of Water Consumption

Water Warriors also integrating conservation of water bodies by enhancing the adoption of rainwater harvesting system at selected PTJs, installation of Cekap Air products in campus and long term water saving strategy (water consumption) through close collaboration with JPPHB, SPAN, etc.



Ensure availability and sustainable management of water and sanitation for all



Participation of volunteers, etc



50
Capacity Building & Community Engagement Programmes



Ensure access to affordable, reliable, sustainable and modern energy for all



Clean Biomass: 535kWh (UM Zero Waste Campaign Cowtec Anaerobic Digester Machine)
Solar Power: 5,034.74kWh (combination of UMPEDAC Solar Panel, UM Bus Stops, Solar power fountain @RMIC UM)
Wind Power: 4kWh (Ulu Gombak External Studies Centre – Faculty of Science UM, Eco-Greenergy Wind-Solar Outdoor Lighting)
Hydro Power: 5kWh (Ulu Gombak External Studies Centre – Faculty of Science UM)

5,578.74 kWh renewable energy generated and used

List of UM Living Labs projects that support SDG7:

- Robust Smart Modular Electrical Energy Monitoring and Management System for Energy Saving
- Development of Renewable Energy Harvesting System from Water Flow in UM
- Study on Electrical Distribution System in UM



Robust Smart Modular Electrical Energy Monitoring and Management System for Energy Saving

This project aims to develop a simple, robust and affordable smart adaptive electrical energy management system for energy saving in current and future buildings especially in University of Malaya.





Build resilient infrastructure, through co-location arrangements, promote inclusive and sustainable industrialization and foster innovation



RM 8,633.26

income generated from activities at Rumah No.2 including Air Bnb, Precious Plastic Projects and Environmental Programmes & Workshops

List of UM Living Labs projects that support SDG9:

- Enhancement of Properties of Recycled Plastic Aggregate in Cement-free Geopolymer & Normal Concretes and Application
- UM Water Warriors
- The Rimba Project

Construction of Geopolymer-House from the plastic aggregates

Environmental concerns arising from the over-dredging of sand (fine aggregate) and granite (coarse aggregate) have led to restriction on its extraction across the globe, with direct economic impact on concrete construction. In coherent to that, one of UM Living Labs projects works on investigating the replacement percentages of waste plastic to create a whole or partial replacement for fine sand and coarse aggregate (granite) in a novel mix for structural concrete.



Unique Space: UM Bus (Airbnb) at Rumah No.2, Universiti Malaya

AirBnBs at Rumah No.2 as one As part of the long-term income generation strategy, UM Water Warriors ad The Rimba Project have co-jointly transforming an old Universiti Malaya (UM) bus into a chic living space. Located at Rumah No.2, Jalan 16/10B, Seksyen 16, Petaling Jaya, these two of the university's sustainable advocacy group with the support of Department of Development & Estate Maintenance (JPPHB, UM), also renting out one the refurbished room at Rumah No. 2 to accommodate any interested visitors or guests.





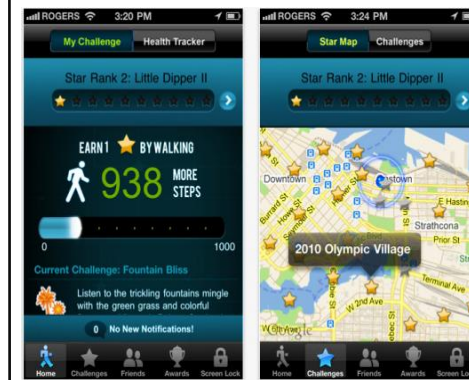
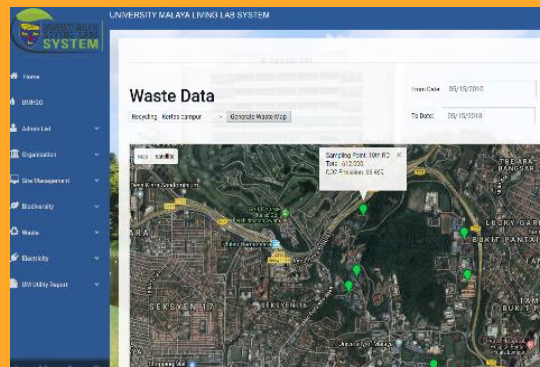
List of UM Living Labs projects that support SDG11:

- Enhancement of Properties of Recycled Plastic Aggregate in Cement-free Geopolymer & Normal Concretes and Application
- UM Zero Waste Campaign: Integrated and Sustainable Management Model Development in University of Malaya Campus
- Safe Disposal of Unused Medications – The Adventure Outward
- UM Water Warriors: Integrated Water Management
- IoT Monitoring and Management System on Campus Sustainable Transportation
- Transforming the Role of Surau APIUM for Campus Sustainability Through 'Imarah Green Project
- A System Approach to Environmental Data Archiving for Sustainability: University of Malaya Living Lab System (Enhancement & Continuation)

UM Living Labs Transportation System

Over these years, continuous improvement on transportation system have been made in order to ensure that campus community especially students could easily mobilize within UM. Besides, UM buses, another alternative buses such as RapidKL and MRT buses have also been introduced for the purpose of increasing number of trips while minimizing traffic congestion in UM by encouraging campus community to use the public transport. In addition to that, UM Living Labs also has initiate a sustainability effort via carpooling system. This pilot study is currently working with the Pusat Teknologi Maklumat UM to holistically covered whole UM Campus community especially for staffs and lecturers.

Make cities and human settlements inclusive, safe, resilient and sustainable





Ensure sustainable consumption and production patterns

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



>1000 ton
Total waste diverted



> 4,917,493
KG CO₂-eq

List of UM Living Labs projects that support SDG12:

- *UM Zero Waste Campaign (UM ZWC) : Integrated and Sustainable Management Model Development in University of Malaya Campus*
- *UM Green Procurement for Food Premises*
- *Safe Disposal of Unused Medications – The Adventure Outward*
- *Enhancement of Properties of Recycled Plastic Aggregate in Cement-free Geopolymer & Normal Concretes and Application*
- *Transforming the Role of Surau APIUM for Campus Sustainability Through 'Imarah Green Project'*

Lestari Shop

As part of the initiative to support the SDG12, Imarah Green Project has initiated Lestari Shop that provides a good-condition of preloved items. These preloved items were donated by UM community which mainly from UM lecturers and staffs for the purpose of reselling it in a affordable prices for students (especially B40 students). This initiative not only reduce the burden of environment but also demonstrate a sustainable consumption and production patterns.

Safe Disposal of Unused Medication (Safe DUMP)

Safe DUMP project intends to minimizing the harmful environmental impacts of medication disposal by collecting unused medication at University of Malaya Medical Centre (UMMC). This project also continuously raising awareness amongst patients at UMMC to practice sustainable consumption by resubmit the unused medication hence it could be used for other purposes. Meanwhile, the expired medication should be dispose properly to protect prolonged harmful effect towards the environment.





Take urgent action to combat climate change and its impacts

13 CLIMATE ACTION



9637 kg **RM 3,708**

Recyclables collected

Money saved

From 3R On Wheels Programme

List of UM Living Labs projects that support SDG13:

- *GreenStop: Carbon-balanced Ecosystem in University of Malaya Campus*
- *The RIMBA Project: Biodiversity Conservation by reconciling cities and nature*
- *UM Zero Waste Campaign: Integrated and Sustainable Management Model Development in University of Malaya Campus*
- *UM Water Warriors*
- *Safe Disposal of Unused Medications – The Adventure Outward*
- *IoT Monitoring and Management System on Campus Sustainable Transportation*
- *UM Green Procurement for Food Premises*
- *Transforming the Role of Surau APIUM for Campus Sustainability Through 'Imarah Green Project*

Supporting SDG13 through Implementation of UM Living Labs

The agenda of SDG13: Climate Action was supported by integrating sustainable waste management as well as waste separation at source through several UM Living Labs projects. Amongst the initiatives conducted in UM Campus are i) Safe Disposal of Unused Medications (Safe DUMP), ii) Intelligent Recycling Centre, Lestari Shop at Academy of Islamic Studies, Monthly 3R-On-Wheels Programme in collaboration with Alam Flora Sdn. Bhd, Precious Plastic Projects from Plastic Bottles as well as embedding Green Procurement into UM's Food Procurement.





Conserve and sustainably use the oceans, sea and marine resources for sustainable development



List of UM Living Labs projects that support SDG14:

- *UM Water Warriors : Integrated Water Management*

UM Wetland & UM Greenbelt Project

One of the pioneer UM Living Lab projects that works on SDG14 is UM Water Warriors. Since 2019, with the aim to rejuvenate the Varsity Lake of UM, UM Water Warriors has introduced several sustainability initiatives namely UM Wetland & UM Greenbelt Projects. UM Wetland focuses on refurbishing the area nearby Varsity Lake in order to initiate a concept of 'wetland' element in UM. Meanwhile, UM Greenbelt covers mainly at Samali Tree and Varsity Lake areas altogether to promote education and awareness amongst UM Community as well as outside citizen to conserve UM's historical nature (Varsity Lake) and resources nearby.



If you pollute water, you pollute life

UM Water Warriors has continuously conducted activities in related to SDG6: Life Below Water through Lake & river clean ups whereby the amount of trash collected are usually overwhelming even though during the post-Recovery Movement Control Order (RMCO).





Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss



Participants, stakeholders and volunteers involved

List of UM Living Labs projects that support SDG15:

- The RIMBA Project: Biodiversity Conservation by reconciling cities and nature
- GreenStop: Carbon-balanced Ecosystem in University of Malaya Campus

The Rimba Project

The RIMBA Project continues to champion awareness and appreciation of urban biodiversity, as well as biodiversity conservation and landscape management as part of UM's eco-campus agenda.

Capacity building for citizen science and conservation

The RIMBA Project also works on recruiting, training and deploying volunteers (citizen scientists) in four programme phases: Nature watch Biodiversity survey on Long-tailed Macaque sleeping trees, creative nature education programmes and digital publications.



Urban Garden Instalative by The RIMBA Project during the Movement Control Order (MCO)

The emergence of COVID-19 has underscored the fact that when we destroy biodiversity, we destroy the system that supports human life. With regard to nature, COVID-19 pandemic is completely altering human movement and activities, and the world economy, in ways that are likely to have large and unexpected effects on biodiversity conservation. In accordance to that, The RIMBA Project has strategically conducted series of Biodiversity Conservation Sessions via the platform of Instagram Live. This effort intended to encourage worldwide awareness and action for the protection of the environment, specifically for wildlife biodiversity.





*Strengthen the means of implementation
and revitalize the Global Partnership for
Sustainable Development*



List of UM Living Labs projects that support SDG17:

- *UM Living Lab Administration & UM*
- *The RIMBA Project: Biodiversity Conservation by reconciling cities and nature*
- *UM Zero Waste Campaign: Integrated and Sustainable Management Model Development in University of Malaya Campus*
- *Safe Disposal of Unused Medications – The Adventure Outward*
- *Transforming the Role of Surau APIUM for Campus Sustainability Through 'Imarah Green Project'*
- *UM Water Warriors: Integrated Water Management*
- *UM Green Procurement for Food Premises*
- *A System Approach to Environmental Data Archiving for Sustainability: University of Malaya Living Lab System (Enhancement & Continuation)*

UM Sustainability & Living Labs Secretariat (UMSLLS):

UM Sustainability & Living Labs Secretariat (UMSLLS) plays a vital role in connecting the dots between Universiti Malaya's sustainability initiatives with not only UM community but also with the outside stakeholders.

Throughout this year, despite of the restriction to conduct any physical activities due to the Movement Control Order (MCO), UMSLLS however seek for another alternative ways to communicate with various stakeholders virtually. This is to highlight that networking should be made especially in the current pandemic era for the benefits of all.





UMSLLS Events 2020

January

Initial Meeting between UM, EPIC and UMCCed 2020 - Open Learning Services

Date : 6 Jan 2020 (Monday)

Time : 10:00 am – 12:00 pm

Venue : Uranus Meeting Room



Biodiversity Forum for Business and Private Sector in Malaysia 2020

Date: 7 Jan 2020 (Tuesday)

Time: 9:00 am – 4:00 pm

Venue: Istana Hotel, Kuala Lumpur



Initial Meeting between UM & Eco-Waste Solutions

Date : 8 Jan 2020 (Wednesday)

Time : 10:00 am – 12:00 pm

Venue : Uranus Meeting Room



UM Sustainability & Living Labs Secretariat Officers attended Administrative Briefing hosted by Deputy Registrar, Office of the DVC (Research & Innovation)

Date: 8 Jan 2020 (Wednesday)

Time: 10:00 am - 12:00 pm

Venue: Meeting Room, Office of the DVC (R&I), Level 8, Chancellery Building



Initial Meeting between UM - DRB HICOM Environmental Services (Alam Flora) & Malakoff

Date : 8 Jan 2020 (Wednesday)

Time : 2:30 pm – 4:00 pm

Venue : Uranus Meeting Room



Final Review of Times Higher Education University Impact Rankings on SDGs (THE UIR on SDGs) hosted by PPSG UM

Date : 9 Jan 2020 (Thursday)

Time : 9:00 am – 11:00 am

Venue : PPSG Level 3, Chancellery UM

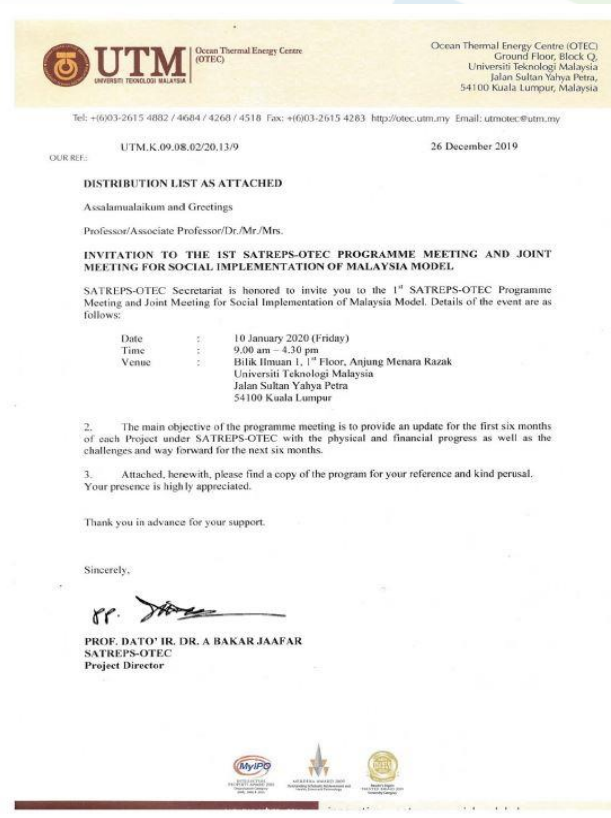


1st SATREPS-OTEC Programme Meeting and Joint Meeting for Social Implementation of Malaysia Model

Date: 10 Jan 2020 (Friday)

Time: 9:00 am - 4:30 pm

Venue: Bilik Ilmuan 1, 1st Floor, Anjung Menara Razak, Universiti Teknologi Malaysia (UTM), Jalan Sultan Yahya Petra, 54100 Kuala Lumpur



1st Monthly Coordination Meeting of

Date: 15 Jan 2020 (Wednesday)

Time: 10:00 am - 12:00 pm

Venue: UM Sustainability & Living Labs Secretariat Office, Level 6, RMIC UM

The meeting agenda is as follows:

1. Administrative matter
2. Financial matter
3. UI GreenMetric & Times Higher Education University Impact Rankings on SDGs (THES)
4. Planning of Activities 2020
5. Publication 2020
6. Quality & Audit Management



UM Living Labs 2019/2020 RAs Monthly Coordination Meeting

Date : 16 Jan 2020 (Thursday)

Time : 10:00 am – 11:30 am

Venue : Video Conference Room, RMIC

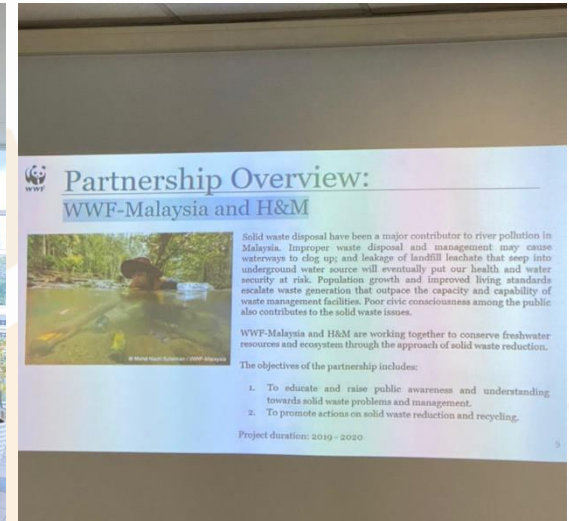


Meeting: UM Eco-Campus (Water Warriors & UM ZWC) & WWF-Malaysia WWF-Malaysia

Date : 16 Jan 2020 (Thursday)

Time : 3:30 pm – 5:00 pm

Venue : Uranus Meeting Room, RMIC, UM



'Buluh in the City' by The RIMBA Project & Urban Biodiversity Initiative (UBI)

Date : 18 Jan 2020 (Saturday)

Time: 9:30 am - 1:00 pm

Venue: RIMBA Ilmu




Attach@UM Program 2020 hosted by DVC (Student Affairs)

Date : 20 Jan 2020 (Monday)

Time: 3:30 pm - 4:30 pm

Venue: Dewan Perdana 2, Block D, PerdanaSiswa Complex (KPS) UM

1

 UNIVERSITI
MALAYA

23 Januari 2020

UM.TNC3/UKK/9/1/1(2)

23 Januari 2020

SENARAI EDARAN SEPERTI DI LAMPIRAN A

YBhg. Datuk/Dato/Datin/Profesor/Dr./Tuan/Puan,

PENGUMPULAN MAKLUMAT PUSAT TANGGUNGJAWAB BAGI PROGRAM
ATTACH@UM

Dengan hormatnya saya merujuk kepada perkara di atas.

2. Lanjutan daripada perbincangan yang telah diadakan pada 20 Januari 2020 mengenai program Attach@UM, sukacita sekiranya pihak Pusat Tanggungjawab (PTJ) dapat mengi maklumat yang diperlukan bagi tujuan program ini melalui Borang Maklumat Pusat Tanggungjawab Program Attach@UM yang boleh diakses di pautan ini: <http://bit.ly/maklumatpjattachatam>.

3. Maklumat ini diperlukan untuk melancarkan proses penempatan pelajar dan juga pengumpulan borang-borang berkaitan oleh Pegawai Fokai di PTJ. PTJ juga perlu mengi maklumat mengenai fungsi ringkas PTJ, serta skop tugas yang akan didedahkan kepada pelajar bagi tujuan pembelajaran semasa program ini.

4. Pihak Pusat Kebolehpasaran Graduan, Keusahawanan dan Pembongunan Pelajar amat berharap pihak PTJ dapat memberikan kerjasama untuk menerima pelajar-pelajar yang akan menyertai program ini pada 29 Jun 2020 hingga 24 Julai 2020 (20 hari bekerja) bagi membantu pelajar ijazah dasar merasai pengalaman bekerja seawal dari tahun pertama dan sekaligus mengenali fungsi-fungsi PTJ yang beroperasi di Universiti Malaysia.

5. Sila lengkapkan borang melalui pautan tersebut selewat-lewatnya pada 31 Januari 2020. Sebarang pertanyaan, sila hubungi Cik Salbiah Sirajudin, Puan Nabila Muhamad Shidik atau Cik Rozaitul Haida di talian 03-7967 3505/7794.

6. Segala perhatian dan tindakan YBhg. Datuk/Dato/Datin/Profesor/Dr./Tuan/Puan amatlah dihargai dan didahului dengan ucapan terima kasih.

1

BARANGAN HAL BIRAL PELAJAR
Kompleks Pendidikan, Universiti Malaysia, 50550 Kuala Lumpur, MALAYSIA
Gedeyan Pendidikan & Pembangunan Pelajar • Tel: (603) 7967 3506 / 3508, Sekyen Pengurusan Pakej & Kualiti • Tel: (603) 7967 3244
Sekyen Pengurusan (Bait Perkhidmatan) • Tel: (603) 7967 4502, (Unit Pembangunan & Penyelenggaraan) • Tel: (603) 7967 4977
(Unit Keusahawanan & Kewangan) • Tel: (603) 7967 3415, (Unit Pengurusan Selat) • Tel: (603) 7967 3228
(Unit Persekitaran & Sewaan) • Tel: (603) 7967 3405
Pusat Pembangunan Pelajar • Tel: (603) 7967 3545, Pusat Kebolehpasaran Pengajar & Keusahawanan • Tel: (603) 7967 3505
Unit Hubungan Pelajar & Kelayakan • Tel: (603) 7967 7765, Pejabat Penyelenggaraan & Tempahan Ruang KPS • Tel: (603) 7967 3471
E-Mel: help@um.edu.my • <http://www.help.um.edu.my>

Focus Group Discussion by Universiti Malaysia Terengganu (UMT)

Date : 20 Jan 2020 (Monday)

Time : 3:30 pm – 5:00 pm

Venue : Faculty of Economy & Administration



Academy of Sciences Malaysia (ASM)'s Stakeholders Engagement Workshop on Local and Transboundary Pollution Act 2020

Date: 21 Jan 2020 (Tuesday)

Time: 8.30 am – 1:00 pm

Venue: Function Hall, Academy of Sciences Malaysia, Level 20, West Wing, MATRADE Tower, Kuala Lumpur



Academy of Sciences Malaysia

8 January 2020

Dear YBhg / Datuk / Dato' / Dr / Prof / Mr / Ms,

**Invitation to Local and Transboundary Pollution Act Feasibility Study
(LT-PAFS) Stakeholder Engagement Workshop**

Greetings from the Academy of Sciences Malaysia.

Transboundary pollution, especially in the form of haze, is no stranger to all Malaysians. In the past decade, remedial actions have been attempted through regional agreements and diplomatic dialogues in ASEAN. With the increasingly heated debate on the involvement of Malaysian companies in the haze episodes, it has come to a time to consider a legal approach to push forward the progress of solving transboundary pollution issues.

As the strategic partner of the Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC), the Academy of Sciences Malaysia has formed a task force to evaluate the feasibility of drafting a Local & Transboundary Pollution Act, its implications and implementation directions.

As part of the development of this report, ASM will be organizing a workshop to engage relevant stakeholders from the academia, industry, civil societies and policy makers to validate some of our views and to gather further insights for a comprehensive report. The workshop has been arranged as below:

Date : 21 January 2020
Time : 8.30 am – 1 pm
Venue : Function Hall, Academy of Sciences Malaysia, Level 20,
West Wing, MATRADE Tower, Kuala Lumpur

On behalf of the taskforce Chairperson, Professor Dato' Ir Dr A. Bakar Jaafar FASc, we would like to invite you or your colleague to participate in our workshop and share your insights on the Local & Transboundary Pollution Act. The outcome of the workshop will be included in the report and serve as reference for MESTECC in formulating the new Act.

Your time and contribution are valuable to us. We appreciate if you could kindly reply us on your availability **14 January 2019 (Tuesday)**.

Menara MATRADE
Tingkat 20, Sayap Barat
Jalan Sultan Haji Ahmad Shah
Off Jalan Tasikku Abul Hali
50480 Kuala Lumpur

+6 03 6203 0633 T
+6 03 6203 0634 F

www.akademiasains.gov.my

Should you have any queries about this workshop, you may contact Ms Teng Yu He (teng@akademiasains.gov.my) or Ms Sazarul Sabot (saza@akademiasains.gov.my) at 03-6203 0633.

Thank you.

Yours sincerely,

HAZAM HADIR
Chief Executive Officer

Cc. Professor Dato' Ir Dr A. Bakar Jaafar FASc
Chairperson
ASM's Task Force on Local and Transboundary Pollution Act Feasibility Study



Professor Sumiani presenting academia perspective and proposed solution on local and transboundary pollution at the ASM's Stakeholder Engagement Workshop 2020

PPGP's Briefing on Trans-disciplinary Research Grant Scheme (TRGS)& Long-term Research Grant Scheme (LRGS)

Date : 22 Jan 2020 (Wednesday)

Time : 9:00 am – 1:00 pm

Venue : Auditorium, RMIC, UM



Perutusan Tahun Baru Amanat Naib Canselor 2020

Date : 23 Jan 2020 (Thursday)

Time : 9:00 am – 12:00 pm

Venue : Dewan Tuanku Canselor (DTC), UM



**Majlis
Perutusan
Tahun Baharu 2020**
Naib Canselor Universiti Malaya

Naib Canselor Universiti Malaya



YBhg. Datuk Ir. (Dr.) Abdul Rahim Hj. Hashim

23 Januari 2020 (Khamis) • 9.30 pagi • Dewan Tunku Canselor, Universiti Malaya

**UM Profile**

Note: Figures as of 31 December 2011

UM Staff



INTERNATIONAL ACADEMIC STAFF FROM MORE THAN 40 COUNTRIES

Algeria	Germany	Jordan	Oman	Syria
Australia	Guatemala	Korea	Pakistan	Taiwan
Bangladesh	Indonesia	Kyrgyzstan	Palestine	Turkmenistan
Brazil	Iran	Laos	Philippines	United Kingdom
Bulgaria	Iraq	Morocco	Russia	United States
Canada	Italy	Netherlands	Singapore	Yemen
China	Lebanon	New Zealand	Spain	
Egypt	Norway	Nigeria	Sri Lanka	
France	Japan		Sudan	



Opportunities

FRAMEWORK OF
SHARED PROSPERITY VISION
2030

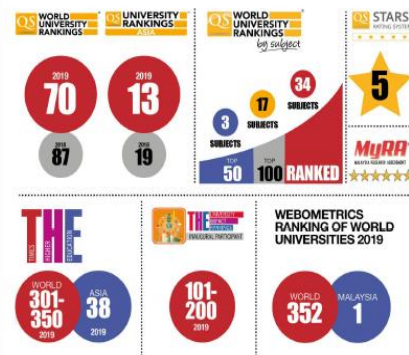


Universiti Malaya Pulse of Lembah Pantai

- Kawasan Universiti
- Taman Lucky
- Bangsar Baru
- Jalan Maarof
- Bukit Travers
- Jalan Tun Sambathan
- Kg. Hj Abdullah Hukum
- Pantai Baharu
- Bukit Kerinchi
- Pantai Dalam
- Kg. Pantai Halt
- Petaling Lama
- Petaling Selatan
- Taman Sri Sentosa
- Kampung Bahagia

UM Achievements

Rankings & Ratings



Notable Awards



Brief Discussion on LL037-18SUS Project (Ir. Dr. Khairunnisa Hasikin) on UM GreenStop

Date : 23 Jan 2020 (Thursday)

Time : 12:30 pm – 1:30 pm

Venue : UM Sustainability & Living Labs Secretariat




UM Coordination Meeting on Realizing the Aspiration of '1 Tree,1 UM graduate' program hosted by DVC (Student Affairs)

Date: 28 Jan 2020

Time: 2:30 pm - 4:30 pm

Venue: Rafflesia Meeting Room, Level 1, Information Technology Centre (PTM), UM

 **JPT** | JABATAN PENDIDIKAN TINGGI
TIMBALAN KETUA PENGARAH PENDIDIKAN TINGGI
(AKADEMIK DAN PEMBANGUNAN)
DEPUTY DIRECTOR GENERAL OF HIGHER EDUCATION
(ACADEMIC AND DEVELOPMENT)
Jabatan Pendidikan Tinggi
Department of Higher Education
Kementerian Pendidikan Malaysia
Ministry of Education Malaysia
Aras 9, Blok 2, Menara 2
Jalan PDS, Presint 5
62200 PUTRAJAYA
MALAYSIA
TEL 603-89706407
Faks (Fax): 903-86708042
Portal Rakan: <http://jpt.moe.gov.my>

Ruj. Kami : JPT.S(G)2000/016/033 Jld. 2 (8)
Tarikh : 24 Disember 2019

EDARAN SEPerti DI LAMPIRAN
Datuk Ir. (Dr.) Abdul Rahim bin Hisham
Naib Canselor, Universiti Malaysia

YBhg. Tan Sri/ Datuk/ Dato'/ Datin Paduka/ Prof.,

PROPOSE TO REQUIRE UNIVERSITY/ COLLEGE STUDENTS TO PLANT TREE BEFORE GRADUATION AS AN INITIATIVE TO CONTROL CLIMATE CHANGE AND DEFORESTATION

Dengan hormatnya saya ingin menarik perhatian YBhg. Tan Sri/ Datuk/ Dato'/ Datin Paduka/ Prof. mengenai perkara di atas.

2. Untuk makluman pihak YBhg. Tan Sri/ Datuk/ Dato'/ Datin Paduka/ Prof., Kementerian Pendidikan Malaysia (KPM) telah menerima cadangan daripada Pejabat Perdana Menteri berkaitan usul daripada sebuah pertubuhan bukan kerajaan (NGO) iaitu Altruistik Malaysia agar para pelajar di universiti/ kolej digalakkan untuk menanam pokok sebelum tamat pengajian sebagai inisiatif bagi mengawal perubahan iklim dan aktiviti penebangan hutan.

3. Jabatan ini berpandangan bahawa usul yang dikemukakan adalah satu cadangan yang baik dan memohon agar pihak YBhg. Tan Sri/ Datuk/ Dato'/ Datin Paduka/ Prof. Dapat mempertimbangkan inisiatif ini agar dapat dilaksanakan di semua universiti awam (UA).

Mejorut dengan
1) JPHS
2) HEP
3) Pinda ILMU
4) Eco campus
5) makai Petajer

Prof. Dr. Anis-Adzlin Abdul Khamar
Naib Canselor (Pembangunan)
21/1/2020

4. Segala kerjasama dan perhatian daripada YBhg. Tan Sri/ Datuk/ Dato'/ Datin Paduka/ Prof. amatlah dihargai dan didahului dengan ucapan terima kasih.

Sekian.

"BERKHIDMAT UNTUK NEGARA"

Saya yang menjalankan amanah,

(Dato') **PROF. IR. DR. MOHD SALEH JAAFAR**

Timbalan Ketua Pengarah Pendidikan Tinggi (Akademik dan Pembangunan)
Jabatan Pendidikan Tinggi

s.k.

SUSK YBM KPM

SUS YAB PM

Pejabat Perdana Menteri
Bangunan Perdana Putra
Pusat Pentadbiran Kerajaan Persekutuan
62502 PUTRAJAYA
[u.p. Puan Nadia Monira Binti Mohamed Taib]

SUSK YBM MESTECC

Pejabat Menteri
Blok C5, Aras 7, Kompleks C
Pusat Pentadbiran Kerajaan Persekutuan
62662 PUTRAJAYA
[u.p. En. Mohd Najeeb Bin Abdullah]

Encik Logesh Kumar Sethuraman
Presiden

Altruistik Malaysia
No. 49, Jalan Saga 26, Taman Saga
68000 Ampang, SELANGOR



Professor Sumiani representing UM Sustainability & Living Labs Secretariat with Mr. Hirman Awang (Senior Assistant Registrar of Student Affairs Division/HEP) at the Meeting



UMSLLS Events 2020

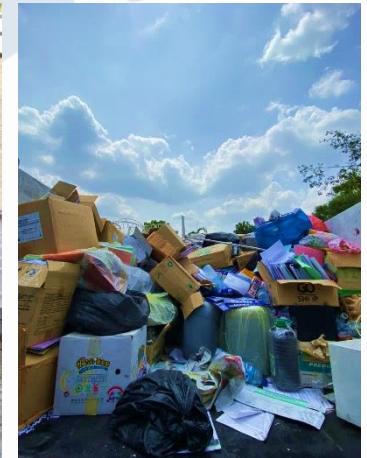
February

6th 3R On Wheels 2020 Programme

Date : 4 Feb 2020 (Tuesday)

Time : 9:00 am – 2:30 pm

Venue : Kompleks Perdana Siswa (PTM), UM

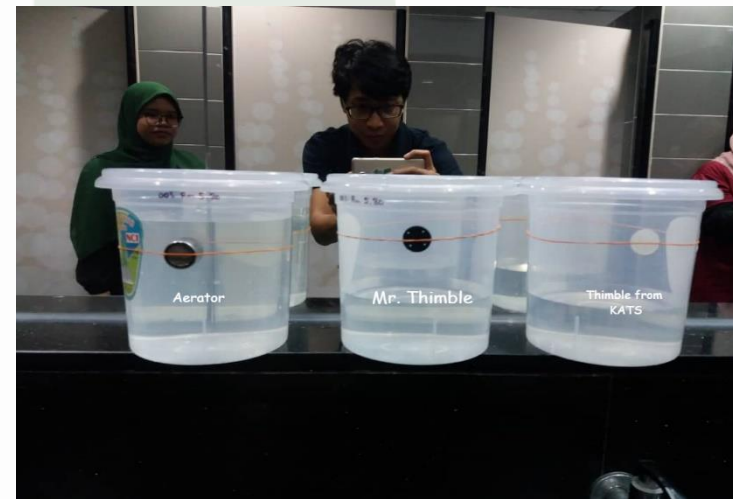
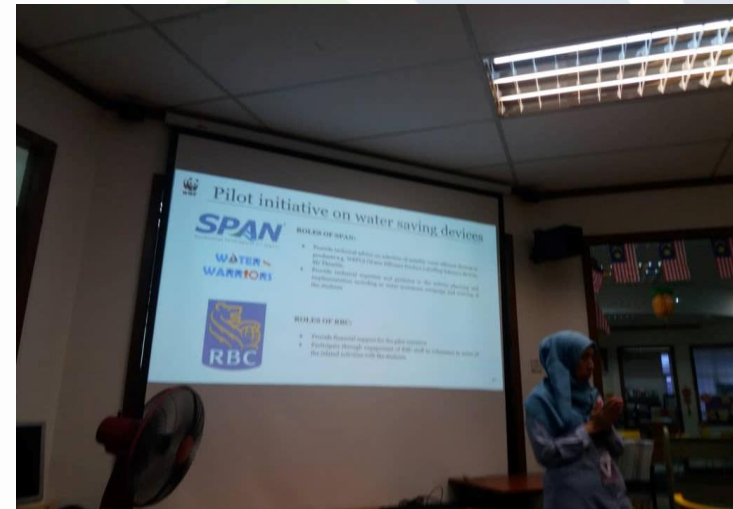


UM Living Lab - Water Warriors UM on Water Saving Device Project: Educational Program Training of Trainers (ToT) with Sri KDU (Primary)

Date: 5 Feb 2020 (Wednesday)

Time: 10:00 am - 11:30 am

Venue: Sri KDU Primary School, Kota Damansara



MoA Signing Ceremony between UM & KL Forest Education Group & Chinese New Year Celebration @ Little Urban Forest Preschool Open House

Date : 6 Feb 2020 (Thursday)

Time : 10:00 am – 12:30 pm

Venue : Little Urban Forest Preschool, Petaling Jaya, Selangor



UM Research & Innovation Strategic Planning Workshop 2020

Date: 7 - 9 Feb 2020 (Friday - Sunday)

Time: 9:00 am - 10:00 pm

Venue: Concorde Hotel, Shah Alam



RTM Interview & Shooting Session (Notes From Nature)

Date : 9 Feb 2020 (Sunday)

Time : 9:30 am – 6:00 pm

Venue : Varsity Lake, Pantai River and Samali Tree UM



Food Waste Management: Persatuan Peladang Kuala Terengganu Site Visit to UM Zero Waste Campaign (UM ZWC)

Date: 10 Feb 2020 (Monday)

Time: 3:00 pm - 4:30 pm

Venue: Uranus Meeting Room, Level 6, RMIC UM



Dialogue on Open Science

Date : 14 Feb 2020 (Friday)

Time : 10:00 am – 12:30 pm

Venue : RMIC, UM



Sustainable Development Goals (SDGs) Champions 'Baseline Data Formulation & Acquisition Workshop

Date: 15 Feb 2020 (Saturday)

Time: 9:00 am - 4:00 pm

Venue: PJ City Council (MBPJ), Selangor



Introduction Briefing Malaysia Plastic Pact

Date : 18 Feb 2020 (Tuesday)

Time : 9:00 am – 12:45 pm

Venue : SME Corp Malaysia, KL Sentral



UM Living Labs Site Visit 2020 (Group A)

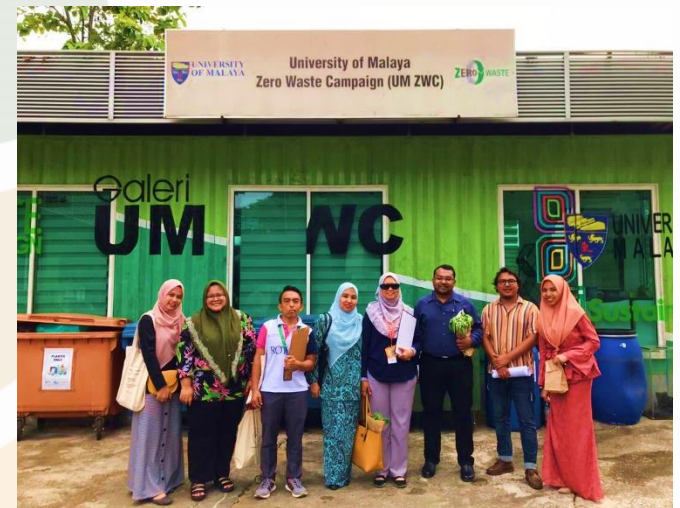
Date : 19 Feb 2020 (Wednesday)

Time : 10:00 am – 4:30 pm

LL037-18SUS: GreenStop
PI: Ir. Dr. Khairunnisa Hasikin
Venue: Bus Stop, 12th
Residential College, UM



LL004-15SUS: UM ZWC
PI: Prof. Dr. Sumiani Yusoff
Venue: UM Zero Waste
Campaign Site, Damansara
Gate, UM



UM Living Labs Site Visit 2020 (Group A)

Date : 19 Feb 2020 (Wednesday)

Time : 10:00 am – 4:30 pm

LL005-15SUS: The RIMBA Project

PI: Dr. Sugumaran A/L Manickam

Venue: Rimba Ilmu, UM



LL031-16SUS: Imarah Green Project

PI: Dr. Asmawati Muhamad

Venue: Surau Academy of Islamic Studies (APIUM), UM



UM Living Labs Site Visit 2020 (Group A)

Date : 19 Feb 2020 (Wednesday)

Time : 10:00 am – 4:30 pm

LL049-2019: Green Procurement
PI: Dr. Nor Liyana Shuib
Venue: Seminar Room 3, Block B, Faculty of Computer Science and Information Technology, UM



LL048-2019 : Transport (IoT)
PI: AP Dr. Rafidah Md. Noor
Venue: Seminar Room 3, Block B, Faculty of Computer Science and Information Technology, UM



UM Living Labs Site Visit 2020 (Group A)

Date : 19 Feb 2020 (Wednesday)

Time : 10:00 am – 4:30 pm

LL023-16SUS: UMLL System

PI: Dr. Sorayya Malek

**Venue: Uranus Meeting
Room, RMIC, UM**



UM Living Labs Site Visit 2020 (Group B)

Date : 20 Feb 2020 (Thursday)

Time : 10:00 am – 4:00 pm

LL046-2019: Renewable Energy Harvesting System
PI: AP Ir. Dr. Hazlee Azil Illias
Venue: High Voltage Research Group Room, Block Y, Level 1, Department of Electrical Engineering, Faculty of Engineering, UM



LL047-2019 : Electrical Distribution System
PI: Dr. NurulAfiah Nadzirah
Venue: UMPES Lab, Block E, Faculty of Engineering, UM



UM Living Labs Site Visit 2020 (Group B)

Date : 20 Feb 2020 (Thursday)

Time : 10:00 am – 4:00 pm

LL014-16SUS: Smart Modular
PI: Dr. Mohd. Yazed Ahmad
Venue: Biosensors &
Embedded System Lab, Block
C, Faculty of Engineering, UM



LL045-18SUS: Recycled Plastic
Aggregate
PI: AP Dr. Ubagaram Johnson
Alengaram
Venue: Concrete lab, Block G,
Department of Civil
Engineering, Faculty of
Engineering, UM



UM Living Labs Site Visit 2020 (Group B)

Date : 20 Feb 2020 (Thursday)

Time : 10:00 am – 4:00 pm

LL030-16SUS: Safe DUMP

PI: Dr. Lee Hong Gee

Venue: Rumah No.2, Jalan
16/10B, Seksyen 16, Petaling
Jaya



LL002-15SUS: Water Warriors

PI: Dr. Nor Aishah Abdullah

Venue: Rumah No.2, Jalan
16/10B, Seksyen 16, Petaling
Jaya



UM Eco-Campus Committee (JKEKOUM)

Triannual Meeting 1/2020

Date : 21 Feb 2020 (Friday)

Time : 10:00 am – 12:00 pm

Venue : Jupiter Meeting Room, RMIC, UM



MRUN-UM ZWC Site Visit by UTM Skudai

Date : 26 Feb 2020 (Wednesday)

Time : 10:00 am – 12:00 pm

Venue : UM ZWC Site



FEDTALK 2020 on SDGs by KK5 UM: Initial Discussion on Strategic Partnership & Green Event Consultation

Date : 26 Feb 2020 (Wednesday)

Time : 2:30 pm – 4:00 pm

Venue : UM Sustainability & Living Labs Secretariat



L'Oréal Malaysia Initial Discussion - Food Waste Management Initiative Collaboration

Date : 27 Feb 2020 (Thursday)

Time : 10:00 am – 12:00 pm

Venue : Uranus Meeting Room



UM Sustainability & Living Labs Secretariat's TV Interview Session with Thai Public Broadcasting Service (Thai PBS)

Date : 28 Feb 2020 (Friday)

Time : 10:00 am – 1:30 pm

Venue :Video Conference Room RMIC UM



UM Sustainability & Living Labs Secretariat's TV Interview Session with Thai Public Broadcasting Service (Thai PBS)

Date : 28 Feb 2020 (Friday)

Time : 10:00 am – 1:30 pm

Venue : UM ZWC Site

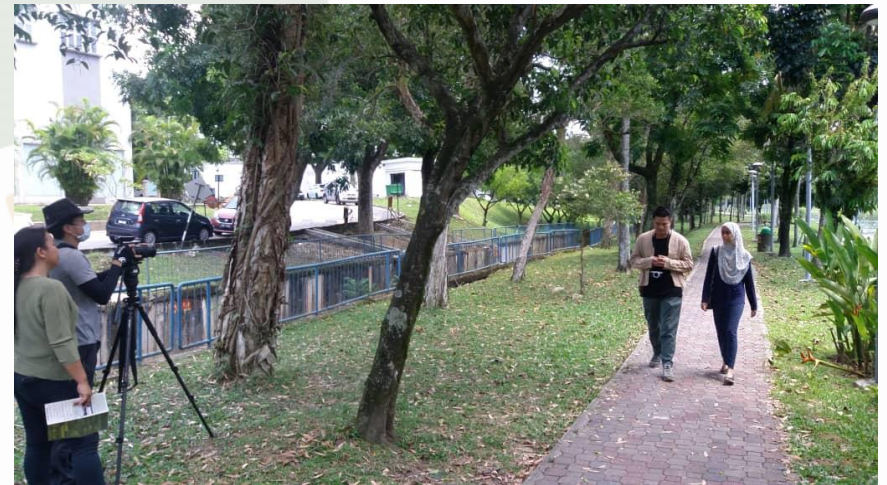


UM Sustainability & Living Labs Secretariat's TV Interview Session with Thai Public Broadcasting Service (Thai PBS)

Date : 28 Feb 2020 (Friday)

Time : 10:00 am – 1:30 pm

Venue : Tasek Varsity and Samali Tree





UMSLLS Events 2020

March

FEDTALK: 2050 Global Disaster without SDGs?

Date : 5 March 2020 (Thursday)

Time : 2:00 pm – 6:00 pm

Venue : Dewan Banquet, Rumah Kelab Persatuan Alumni, UM



Farewell to Mrs. Fatehah & Welcome to Mr. Azizi

Date : 6 March 2020 (Friday)

Time : 10:00 am – 12:30 pm

Venue : UM Sustainability & Living Labs Secretariat



UM ZWC & MDHS Initial Discussion on Food Waste Management Project

Date : 6 March 2020 (Friday)

Time : 3:00 pm – 5:00 pm

Venue : Uranus Meeting Room, RMIC, UM



PASUM'S Nature Club Visit to UM ZWC

Date : 6 March 2020 (Friday)

Time : 3:00 pm – 5:00 pm

Venue : UM ZWC Site



WW Hands-on Training Water Monitoring for Sg Klang

Date : 8 March 2020 (Sunday)

Time : 9:00 am – 12:00 pm

Venue : Rumah No.2, Jalan 16/10B, Seksyen 16, Petaling Jaya



Discussion with AP Dr Adib on UM Sustainability Conference in October 2020

Date : 10 March 2020 (Tuesday)

Time : 11:00 am – 1:30 pm

Venue : Sanbox Cafe, UM



UMSLLS Special Meeting on Work From Home - COVID-19 Movement Control Order (MCO)

Date : 17 March 2020 (Tuesday)

Time : 10:00 am – 12:30 pm

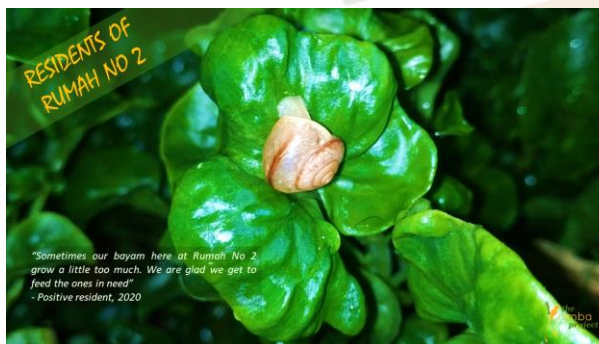
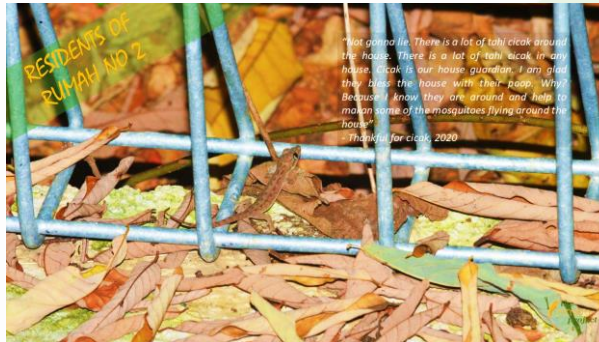
Venue : UM Sustainability & Living Labs Secretariat



Meet the residents of Rumah No. 2 by The RIMBA Project

Date : 16th March to 18th May

Venue : Rumah No. 2, Universiti Malaya



The background of the slide is white, decorated with a circular arrangement of colorful, semi-transparent geometric shapes. These shapes, which include triangles and trapezoids in shades of orange, pink, light blue, and grey, are positioned around the perimeter, creating a sunburst-like effect.

UMSLLS Events 2020

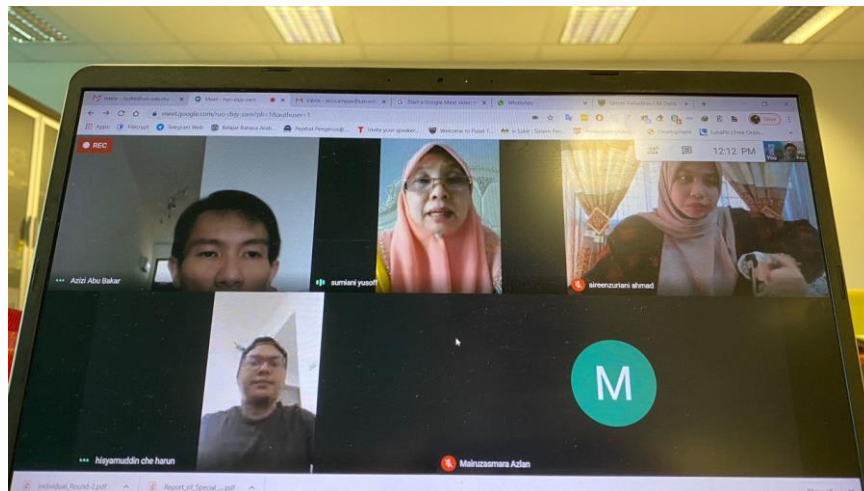
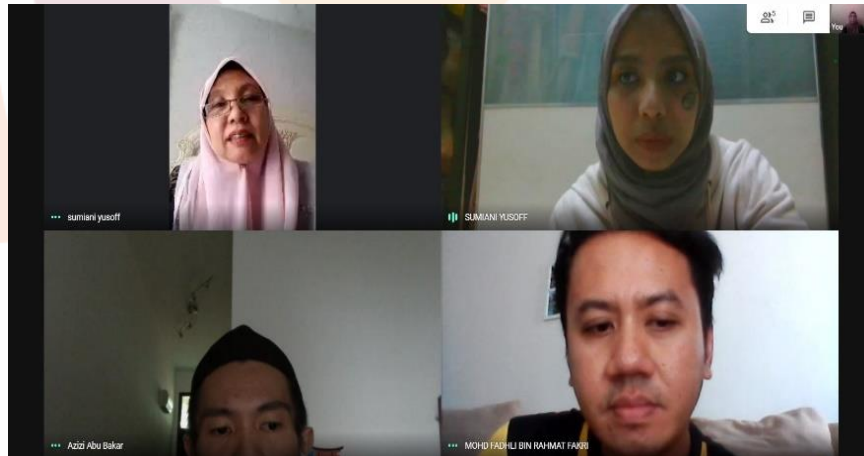
April

Series of UMSLLS Virtual Meeting

Date : 1 April, 8 April, 15 April, 29 April 2020

Time : 11:00 am- 1:00pm

Platform : Google Meet



World Bee Day (The RIMBA Project)

Date : 20 April 2020 (Monday)

LEBAH MADU ASIAN HONEYBEE
Apis cerana



Conservation Status
Least concern, Native

Distribution
East, South, and Southeast Asia,

This medium sized honey bee (10-11mm) is native to the region and has been used as a source of honey and wax for thousands of years. Honeybees do have a painful sting, but they will only sting when provoked. Honey bees have complex social behaviour and castes.

KUMBANG KAYU CARPENTER BEE
Xylocopa latipes



Conservation Status
Least concern, Native

Distribution
Southeast Asia

These very large bees can be scary, but they almost never sting people. They are called Carpenter bees because they are often found nesting in wood. Unlike honey bees they don't have a queen, the nest is occupied by a mother and a few of her daughters.

LEBAH BIRU BLUE BANDED BEE
Amegilla sp.



Conservation Status
Not evaluated, Native

Distribution
Asia, Australia

These are solitary bees that don't build hives. Instead they make small nests in exposed clay. They are about the size of honey bees, but perform "buzz pollination" which is useful for plants such as tomato and eggplant. The male bees sleep while holding on to roots or twigs in their jaws.

KELULUT HALIKTID SWEAT BEE
Halictidae




Conservation Status
Not evaluated, Native

Distribution
Worldwide

These are small bees that are difficult to spot, but make up most of bee diversity in Malaysia with at least 76 recorded species. Because they have short tongues they have to crawl into flowers and therefore are more efficient pollinators than honey bees.

KELULUT STINGLESS BEE
Meliponini



Conservation Status
Many not evaluated, Native

Distribution
Worldwide

Small and completely harmless to humans, stingless bees are important pollinators in the tropics. They produce honey that is also harvested by humans. Their size is smaller than honeybees, and therefore they pollinate in shorter distances. Unsustainable harvesting of wild nests is a threat to these bees.

Brief Discussion with UMCares

Date : 21 April 2020 (Tuesday)

Time : 11:00 am – 12:30 pm

Platform : Google Meet

Anuar senin is presenting

SLIDE MEETING PERTANDINGAN UMCARES 21 APRIL.pptx - PowerPoint

FILE HOME INSERT DESIGN TRANSITIONS ANIMATIONS SLIDE SHOW REVIEW VIEW ADD-INS

Clipboard Slides

Font Paragraph Drawing Editing

1 2 3 4 5 6 7

UMCares Squad Community Award

- Tema "Quality Education"
- Laporan akhir (template disediakan) dihantar ke UMCares beserta bukti
- Tempoh satu tahun / 2 semester
- Final presentation
- Mencadangkan hanya SATU projek sahaja untuk setiap kolej

Anuar senin

NOR AZLIN BINTI MAT RADI

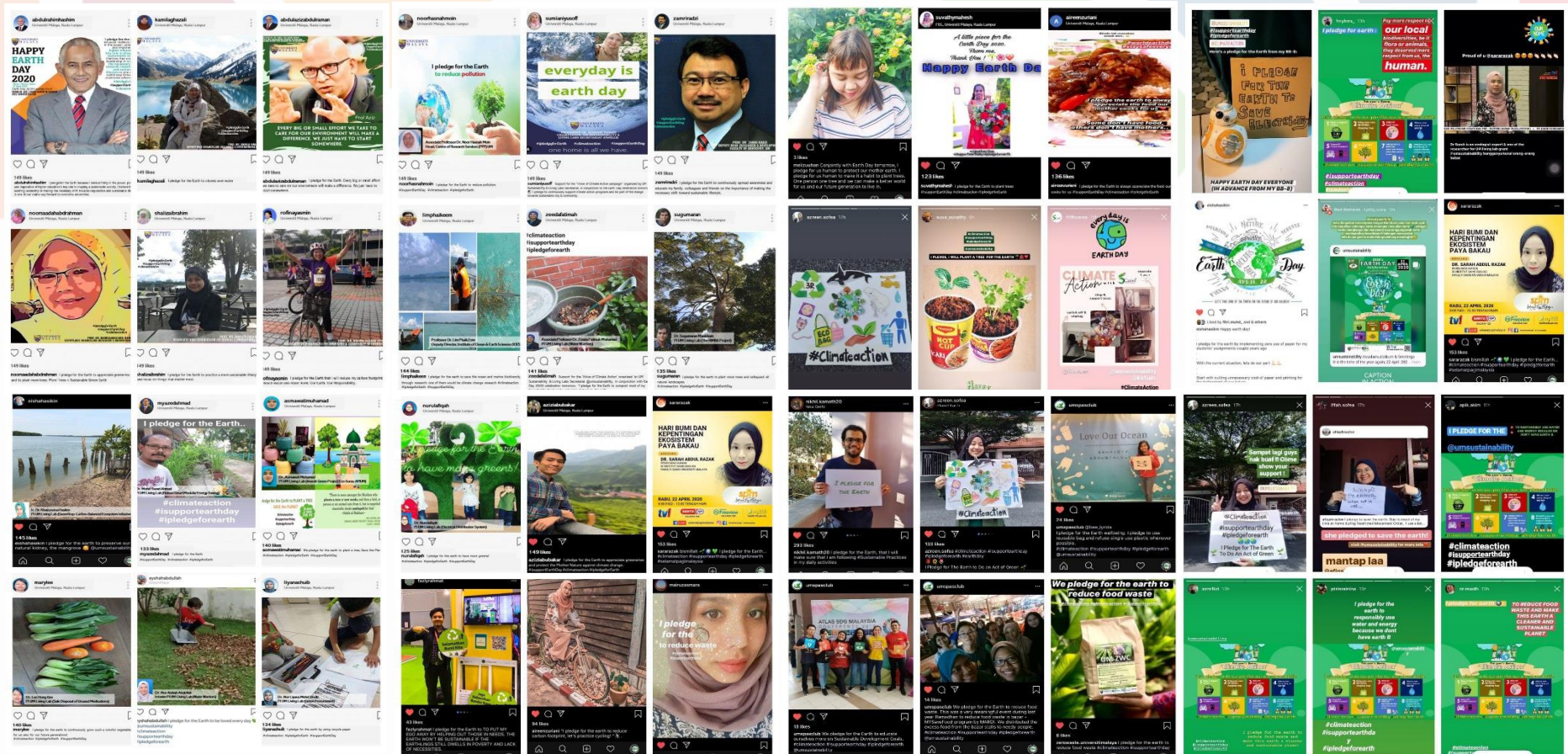
MOHD FADHLI BIN RAHMAT FAKRI

World Earth Day Celebration & Official Launch of UM Living Labs Volume III & IV

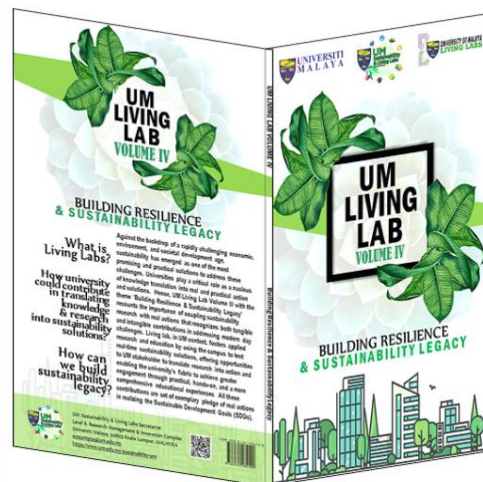
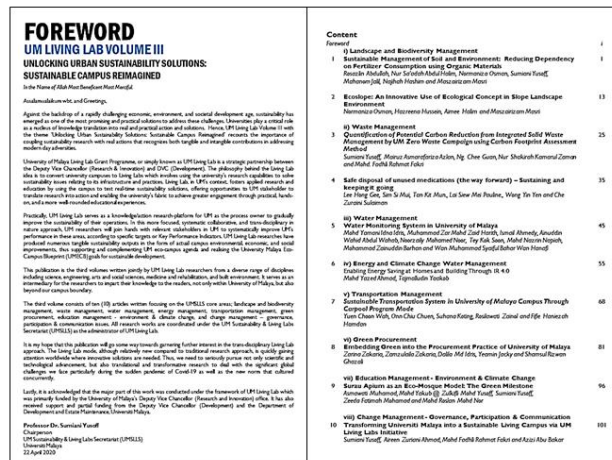
Date : 22 April 2020 (Wednesday)

Time : 12:00 pm

Platform : UMinfo



Platform : UMinfo

106

Urban Garden Instalive by The RIMBA Project

[REPORT] INSTALIVE INTERVIEW

URBAN GARDEN

GUEST: GOH SHANG MING, URBAN BIODIVERSITY INITIATIVE (UBI)
MODERATOR: SYUHADA SAPNO

23 APRIL 2020, 2-3PM

UBI is an independent collective for urban ecology research, conservation and environmental education. In this interview session, we looked into one of the research project UBI is focusing on which is urban gardening. Project manager, Goh Shang Ming shared with us information on what urban gardening is and how to manage urban gardens. Shang Ming also touched on how those living in urban areas with limited space such as in condominiums or apartments could adapt to these restraints to make their own gardens.

A gardener must be well-informed and literate on various perspectives of gardening such as growth duration, potential insects that are attracted to the plants, and type of soil needed.

Shang Ming emphasized that to plant and manage any kind of plants, a gardener must know the type of garden they would like to create - for example ornamental, edible, cultural and so on - and the purpose of creating it. Other topics discussed were garden plants used by orang asli for handicrafts, fertilizers, managing pests, composting, and soil mixture. An interesting aspect highlighted was on looking at plant pests such as caterpillars as a way to increase biodiversity in our very own backyard.



Date : 23 April 2020 (Thursday)

Time : 2:00 pm – 3:00 pm

Platform : Instalive

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Binoculars & GPS – Chasing the Duskie Instalive by The RIMBA Project

[REPORT] INSTALIVE INTERVIEW

BINOCULARS & GPS – CHASING THE DUSKIES

GUEST: JO LEEN YAP, LANGUR PROJECT PENANG (LPP)
MODERATOR: SYUHADA SAPNO

24 APRIL 2020, 2-3PM

LPP is a research project that studies the ecology and behaviour of the dusky leaf monkey/dusky langurs (*Trachypitecus obscurus*) in Penang. In this interview session, Jo Leen shared some insights on her experiences working with this incredible primate and on environmental education. In addressing a question by an audience on how she collaborates with members from different backgrounds, Jo Leen said that we must have an open-mind and an open-heart in accepting what each individual has to offer and only then can everyone's skills be fully utilised for the team's benefit. Jo Leen also shared her inspiring journey on studying dusky langurs and her personal growth.

Curiosity rose in the live chat during the interview session on behaviours and sightings of the langurs and long-tailed macaques (*Macaca fascicularis*) in Klang Valley and mainland Penang. Jo Leen mentioned she has received feedbacks from the public on increased sightings of monkeys entering human settlements to search for food since the implementation of Movement Control Order (MCO) due to a decrease in feeding by humans.

It is noted that only a matter of time before the monkeys get accustomed to absence of human-feeding presence and return back to the forest to feed on their natural food. She suggested several ways to mitigate the issue of monkey-feeding. In the midst of it all, Jo Leen shared an amazing video footage of how a dusky langur reacts when it encounters a snake.

The session ended with Jo Leen giving advice to viewers who are keen to start out as environmental educators.



Date : 24 April 2020 (Friday)

Time : 2:00 pm – 3:00 pm

Platform : Instalive

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Fluttering with Lepidopterans Instalive by The RIMBA Project

[REPORT] INSTALIVE INTERVIEW

FLUTTERING WITH LEPIDOPTERANS

GUEST: SOFWAN BADR, POSTGRADUATE OF IMPERIAL COLLEGE
LONDON, UNITED KINGDOM
MODERATOR: SYUHADA SAPNO

25 APRIL 2020, 2-3PM

Sofwan is a postgraduate candidate from Imperial College London and a proud alumni of University of Malaya. In this interview session, Sofwan brought us into his world of butterflies and moths. The session began with some clearing of myths regarding the butterfly versus moth distinctions as he talked about the difference in body structures, vibrancy of colours, time of day in which they are active and the resting posture of each respective insect. An interesting fact that was brought up is the incorrect usage of the local Malay name between rama-rama and kupu-kupu. The correct terms are rama-rama is meant for moths whereas kupu-kupu for butterflies.

Sofwan showed a Rajah Brooke's birdwing (*Trogonoptera brookiana*) specimen and introduced it as the national butterfly of Malaysia, which is also the butterfly hologram we can see on Malaysian identity cards. The audience inquired on where this species can be found and how we can attract them to our gardens.

Other points that were addressed are on the pupae stage of their life cycle, species that are endangered in Malaysia, and the effects of climate change towards these insects. Crickets are well-known as a source of protein hence a question rose on the consumption of lepidoptera. Sofwan explained that these lepidopterans are a toxic to be consumed. It may not be fatal but it has an unpleasant taste. That is how some bird species avoid feeding on it.



Date : 25 April 2020 (Saturday)

Time : 2:00 pm – 3:00 pm

Platform : Instalive

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Making Nature's Blueprint Instalive by The RIMBA Project

[REPORT] INSTALIVE INTERVIEW

MAKING NATURE'S BLUEPRINT

GUEST: BALQIS TAJALLI, DIKAKI SUNPRINT STUDIO
MODERATOR: SYUHADA SAPNO

26 APRIL 2020, 2-3PM

Balqis Tajalli is an architecture graduate of Korea National University of Arts and manager of DiKaki Sunprint Studio, an art studio focusing on production of sunprints. Sunprints are photographic prints made with the help of sunlight. The subjects of these prints can range from In this interview session, Balqis started off with sharing how she as an artist is adapting to MCO.

As she gave the audience a demonstration on the sunprinting process, she shared the history of cyanotype and briefly explained the chemicals used. The audience got to know the basics of the process like the solutions and materials used, the ratio of the mixed compounds, and the required duration of sunlight exposure. Balqis noted some tips and findings from her personal experience of doing cyanotype sharing that time and weather affects the richness of blue in the final outcome. Besides that, solutions should be disposed by flushing them down the toilet as to not harm the surrounding environment. Balqis also touched on other light-sensitive dyes as she introduced the audience to anthotype, which is an eco-friendly option compared to cyanotype. However, anthotype does not possess the same archival quality.



Date : 26 April 2020 (Sunday)

Time : 2:00 pm – 3:00 pm

Platform : Instalive

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UMSLLS Events 2020

May

Monkey Business Instalive by The RIMBA Project

[REPORT] INSTALIVE INTERVIEW

MONKEY BUSINESS

GUEST: LEE KHAI XIAN, BACHELOR OF SCIENCE (ECOLOGY & BIODIVERSITY)
MODERATOR: SYUHADA SAPNO

8 MAY 2020, 2-3PM

Khai Xian is an ecology and biodiversity undergraduate from University of Malaya who is also an active volunteer for Langur Project Penang (LPP). His final year project is on the activity budget and diet composition of the long-tailed macaques (*Macaca fascicularis*) in University of Malaya, which he took interest in studying through his volunteering experience with LPP.

From his research, he managed to identify around 5 to 10 species of plants that the macaques feed on, with many more species still in the process of being identified. Some examples of these plants are simpoh air, starfruit, ketapang, jackfruit, sea apple, figs, and some palm trees (e.g. *Licuala grandis*). Interestingly, the part of the plant long-tailed macaques choose to feed on differs from one plant to another as can be seen below:

- Simpoh air (*Dillenia suffruticosa*) - flower
- Starfruit (*Averrhoa carambola*) - fruit
- Sea almond/Ketapang (*Terminalia catappa*) - fruit
- Sea apple (*Syzygium grande*) - fruit
- Figs (*Ficus* sp.) - fruit

Khai Xian's fieldwork involves him following the macaque groups movements - wherever they go, Khai Xian will be there to observe. He shared some of the challenges he went through during fieldwork, such as facing difficulty to follow the macaques when they climb high areas like rooftops and his movements being limited due to the buildings surrounding him. In cases like this, he overcomes it by going up the rooftops of other buildings which enables him to observe the macaques from a distance, though in this situation he would face challenges as well as there is limited access to most building rooftops. He mentions that at all times throughout fieldwork, he is aware to keep a safe distance from the macaques as a sign of respect for them and also for his own safety.



Date : 8 May 2020 (Friday)

Time : 2:00 pm – 3:00 pm

Platform : Instalive

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Urban Biodiversity Instalive by The RIMBA Project

[REPORT] INSTALIVE INTERVIEW

URBAN BIODIVERSITY

GUEST: TAN KAI REN, GREEN G.O., CLUB MED CHERATING
MODERATOR: CHUA SU LIN

9 MAY 2020, 2-3PM

Kai Ren is an alumnus from University of Malaya with an incredible amount of experience working in the urban biodiversity field. He is currently the Green G.O. (gentil organisateur) of Club Med Cherating in Pahang. His role as a Green G.O. is to ensure the resort runs sustainably, and he is also helping out with a CSR project on the side. He has seen a wide array of biodiversity on the daily in the forest of Cherating including monitor lizards and monkeys. By the beach, he has seen crabs and sometimes with luck, even turtles.

Moderated by Chua Su Lin, or better known as Judy, the interview kicked off with clarification on whether pests are considered as wildlife. Kai Ren explained that pests are living organisms that bring harmful effects to human-related activity whereas wildlife usually refers to undomesticated animals, which means creatures like cats and dogs are not considered wildlife. With regards to pests being considered as wildlife, Kai Ren states that all pest is wildlife but not all wildlife is pest. He gave the example of how people consider orangutans as pest as they 'steal' fruits but in broader terms, orang utans are wildlife because it is a protected species. It is difficult to concretely define pests and wildlife, though Kai Ren made it clear throughout the whole interview that it ultimately depends on each individual's definition of the words. He also lightly touched on other topics like gardening, farming, weeding, and ways to control invasive species. Answering a viewer's question on his favourite wildlife, he states that it is the dragonfly. Dragonflies are one of the top predators in urban areas and their larvae feed on the larvae of mosquitoes.

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Date : 9 May 2020 (Saturday)

Time : 2:00 pm – 3:00 pm

Platform : Instalive

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Bila Larut Malam Instalive by The RIMBA Project

[REPORT] INSTALIVE INTERVIEW

BILA LARUT MALAM

BY PRISCILLIA MIARD FROM NIGHT SPOTTING PROJECT (NSP)
MODERATED BY SYUHADA SAPNO

10 MAY 2020, 2-3PM

Priscillia Miard is a French scientist who has been carrying out research in Southeast Asia for almost 10 years. Her research project is on small nocturnal mammals in Langkawi island, looking into various aspects of the animals like their ecology, distribution, and habitat. Her main research focus is on colugos (*Galeopterus variegatus*). Her study site ranges from Penang island to Langkawi, and even to the mainland where she has been to Merapoh (Pahang), Batu Caves (Selangor) and Ulu Muda (Kedah). Priscillia started a project known as Night Spotting Project (NSP) where she recruits interns and volunteers to help her in her research. 'Bila larut malam' directly translate to 'when it is late at night', depicting her research lifestyle of studying nocturnal mammals.

The session began with Priscillia sharing some backgrounds and facts on colugos. She stated that they are not related to squirrels, and that colugos are close to primates but are not primates themselves. Colugos are an old group of gliding mammals. They represent 1 of the 15 gliding animal species in Malaysia, though more species could exist in total as they are understudied - including colugos. Priscillia mentioned that there is a huge opportunity in the research field regarding behaviours and ecology of nocturnal mammals in Malaysia as not much information can be found on it at the current moment. Addressing a question on predators, Priscillia states that colugos might have less predators on islands as compared to on lands. 80% of colugo diets are comprised of leaves, with the rest being flowers, lichens on trees and soil from old termite nest. They can glide up to a distance of 150m and they are fast creatures. For many years, they were thought to be solitary animals but Priscillia has counted a total of 25 individuals in a stretch of 300m. This finding is considered that they live in a group. It was also recorded that the home range of male colugos overlaps with few females. In terms of interaction with other animals, she previously spotted a colugo and a red giant flying squirrel (*Petaurista petaurista*) chasing each other on a golf course, though she does not know why they did so.



Date : 10 May 2020 (Sunday)

Time : 2:00 pm – 3:00 pm

Platform : Instalive

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UMSLLS Events 2020

June

UM Eco-Challenge Virtual Assessment

Date : 3rd June 2020 (Wednesday)

Time : 10:00 am – 12:00 pm

Platform : Google Meet

Khairunnisa is presenting

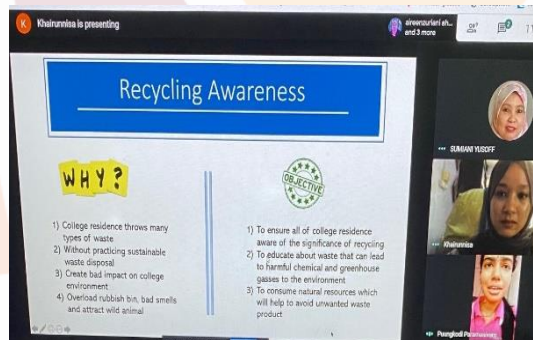
Recycling Awareness

WHY?

- 1) College residence throws many types of waste
- 2) Without practicing sustainable waste disposal
- 3) Create bad impact on college environment
- 4) Overload rubbish bin, bad smells and attract wild animal

OBJECTIVE

- 1) To ensure all of college residence aware of the significance of recycling
- 2) To educate about waste that can lead to harmful chemical and greenhouse gases to the environment
- 3) To consume natural resources which will help to avoid unwanted waste product

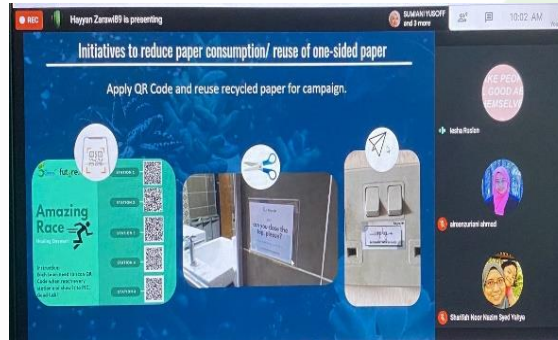


Hayzen Zarwani is presenting

Initiatives to reduce paper consumption/ reuse of one-sided paper

Apply QR Code and reuse recycled paper for campaign.

Amazing Race

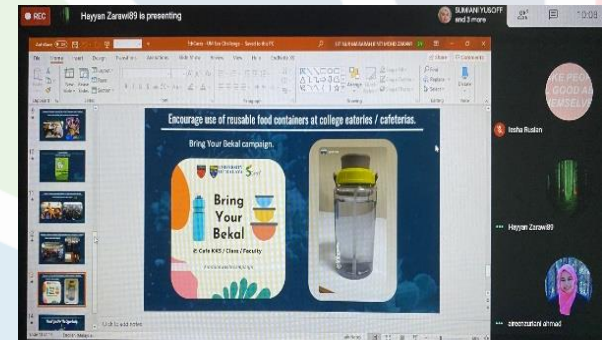


Hayzen Zarwani is presenting

Encourage use of reusable food containers at college eateries / cafeterias.

Bring Your Bekal campaign.

Bring Your Bekal

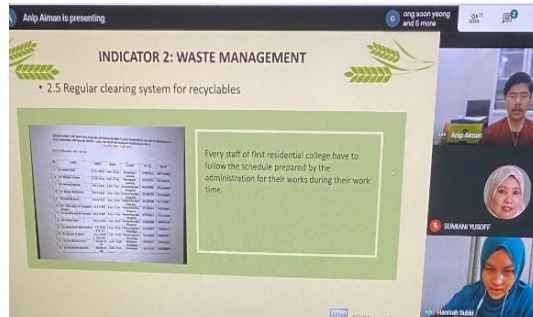


Arip Aliman is presenting

INDICATOR 2: WASTE MANAGEMENT

- 2.5 Regular clearing system for recyclables

Every staff of first residential college have to follow the schedule prepared by the administration for their works during their work time.

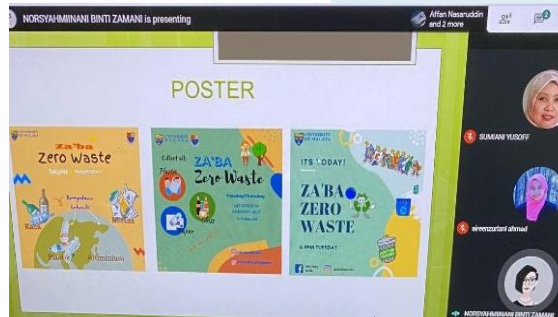


NORSYAHMINAH BINTI ZAMANI is presenting

POSTER

Zero Waste

ZABA ZERO WASTE



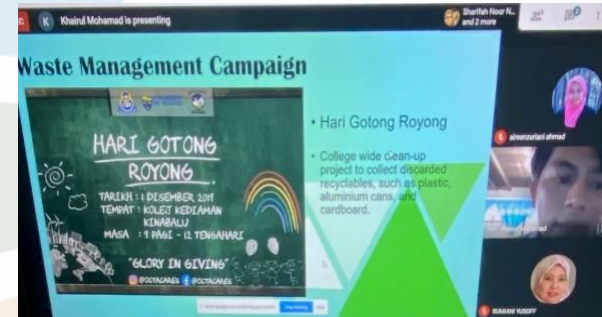
Khairul Mohamed is presenting

Waste Management Campaign

HARI GOTONG ROYONG

- Hari Gotong Royong
- College wide Clean-up project to collect organised recyclables, such as plastic, aluminium cans, and cardboard.

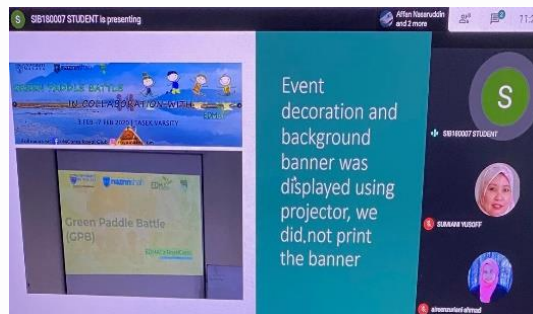
TARIKH : 1 DESEMBER 2017
TEMPAT : KOLEK KEDAHAN KEMAMU
MASA : 11 HARI - 12 TENGAHARI
"GLORY IN GIVING"



SIB18007 STUDENT is presenting

Event decoration and background banner was displayed using projector, we did not print the banner

Green Paddle Battle (GPB)

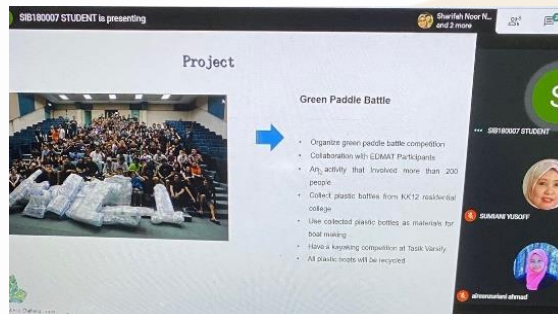


SIB18007 STUDENT is presenting

Project

Green Paddle Battle

- Organize green paddle battle competition
- Collaboration with LEMAT Participants
- Any activity that involved more than 200 people
- Collect plastic bottles from KX12 residential college
- Use collected plastic bottles as materials for boat making
- Hold a kayaking competition at Task Valley
- All plastic bottle will be recycled



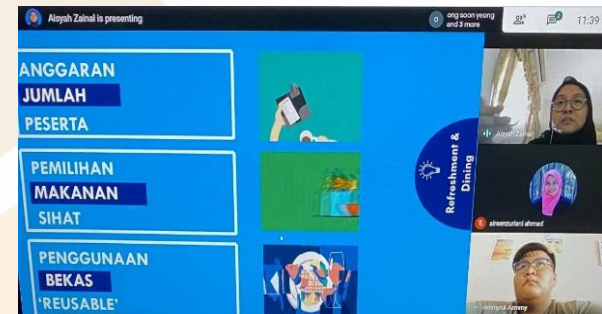
Alyshah Zainal is presenting

ANGGARAN JUMLAH PESERTA

PEMILIHAN MAKANAN SIHAT

PENGUNAAN BEKAS 'REUSABLE'

Refreshment & Dining



UMSLLS Sustainability Webinar Series 1

Date : 5th June 2020 (Friday)

Time : 10:00 am – 12:00 pm

Platform : Google Meet



LIVE

SUSTAINABILITY WEBINAR SERIES 1

Universities & Sustainable Development Goals (SDGs): Paving the Way for Innovations Post COVID-19

SPEAKER:

PROFESSOR DR. SUMIANI YUSOFF
Chairperson, UM Sustainability & Living Labs Secretariat (UMSLLS)
Principal Coordinator, UM Zero Waste Campaign (UM ZWC)
Director, Institute of Ocean & Earth Sciences (IOES)
Universiti Malaysia

5th JUNE 2020 10:30AM

Google Meet

In support of realizing the aspiration of:
UM Eco-Campus Core Areas: SUSTAINABLE DEVELOPMENT GOALS



REC SUMIANI YUSOFF is presenting

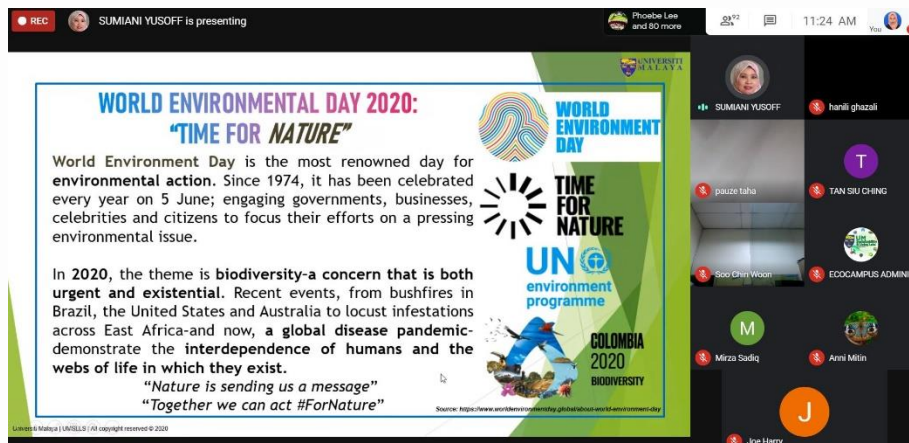
Universities & Sustainable Development Goals (SDGs): Paving the way for Innovations Post COVID-19

PROFESSOR DR. SUMIANI YUSOFF
Chairperson,
UM Sustainability & Living Labs Secretariat (UMSLLS)
Director,
Institute of Ocean & Earth Sciences (IOES)
Universiti Malaysia

4th World's Most Sustainable University (2019)
Universiti Malaysia (UMSLLS) / All copyright reserved © 2020

20th in THE UIR SDGs Rankings (2020)
Diamond Rating Best Practice 1 in Low Carbon Cities Framework (2017)

Participants: SUMIANI YUSOFF, hanifi ghazali, ZEEDA FATMAH... and 69 more, 10:48 AM



REC SUMIANI YUSOFF is presenting

WORLD ENVIRONMENTAL DAY 2020: "TIME FOR NATURE"

World Environment Day is the most renowned day for environmental action. Since 1974, it has been celebrated every year on 5 June; engaging governments, businesses, celebrities and citizens to focus their efforts on a pressing environmental issue.

In 2020, the theme is biodiversity-a concern that is both urgent and existential. Recent events, from bushfires in Brazil, the United States and Australia to locust infestations across East Africa and now, a global disease pandemic-demonstrate the interdependence of humans and the webs of life in which they exist.

"Nature is sending us a message"
"Together we can act #ForNature"

Source: <https://www.worldenvironmentday.org/about-us/world-environment-day>

Participants: SUMIANI YUSOFF, hanifi ghazali, puzze taha, TAN SIU CHING, Soo Chin Woon, ECO-CAMPUS ADMIN..., Mirza Sadiq, Anni Milin, Joe Harry



REC

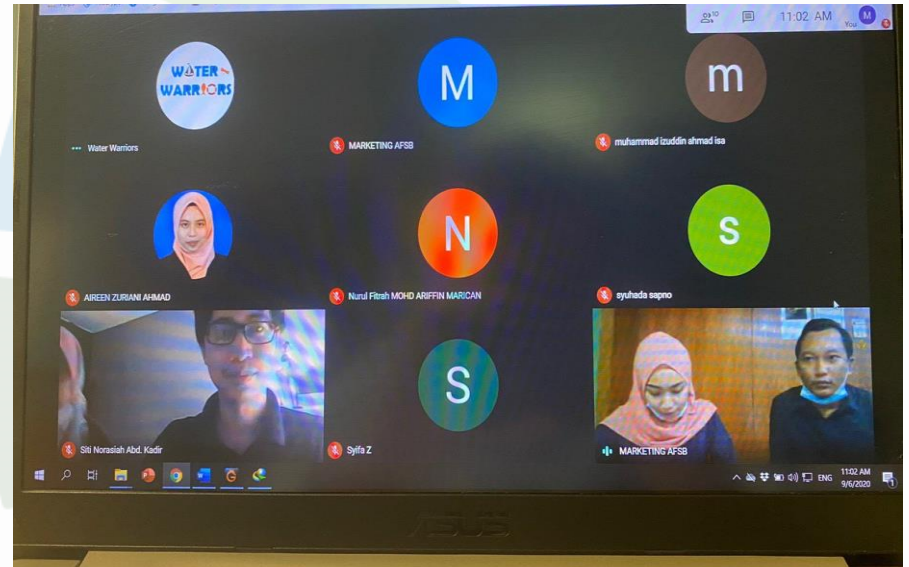
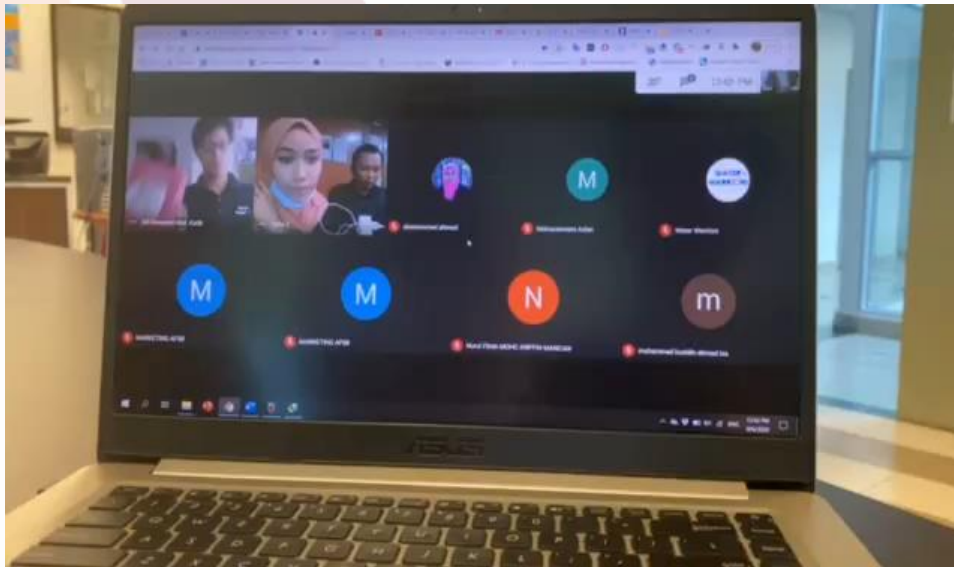
Participants: hanifi ghazali, ECO-CAMPUS ADMINISTRATOR, TAX Yap Leong, SITI KHADIJAH ZAABA, ZULHAM BIN ZULKIFLEE LUBES, Dr Farhana Halizah H. Ong, TAN SIU CHING, sorry i had no camera in office

Virtual Visit at Alam Flora's Recycling Innovation Facilities

Date : 9th June 2020 (Tuesday)

Time : 10:00 am – 12:00 pm

Platform : Google Meet



AKEPT- IIUM Dove Webinar Series 3

Date : 22nd June 2020 (Monday)

Time : 9:00 am – 11:00 am

Platform : Google Meet

AKEPT HIGHER EDUCATION LEADERSHIP ACADEMY KEMENTERIAN PENGAJIAN TINGGI

"LEADING UNIVERSITIES TOWARDS ACHIEVING SUSTAINABLE DEVELOPMENT GOALS (SDG) IN HIGHER EDUCATION: LESSONS FROM COVID-19"

AKEPT Talk: Dialogue on Values-based Education (DOVE) Series 3
22 June 2020 | 0900 - 1100 MYT (UTC+8)

0900 - 0910
Welcoming Remarks by
Prof. Dr. Nordin Yahaya
Director of Higher Education Leadership Academy (AKEPT)

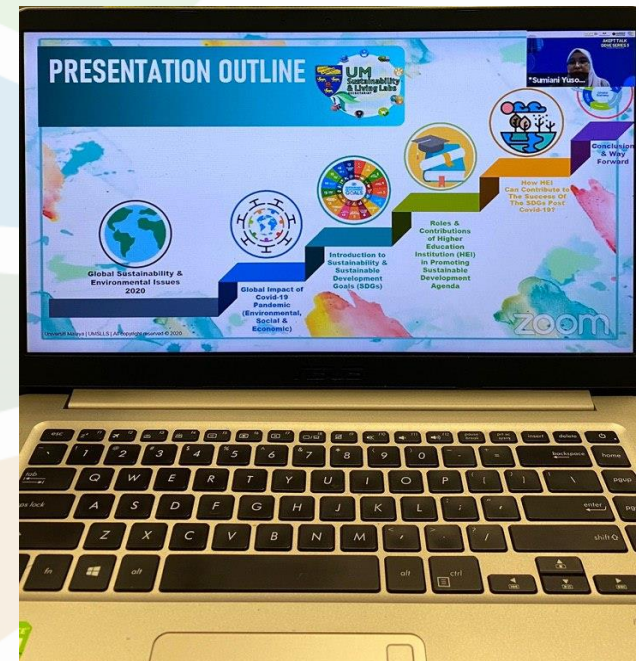
Moderator
Assoc. Prof. Dr. Mukhzeer Mohamad Shahimin
Deputy Director, Centre Leadership Development (AKEPT)

Speakers

0910 - 0940
Prof. Charles Hopkins
UNESCO Chair in Reorienting Education towards Sustainability, York University
Integrating Sustainable Development Goals (SDGs) into Higher Education

0940 - 1010
Professor Emeritus Geoff Scott
Higher Education and Sustainability of Western Sydney University, Australia
Leading Universities Towards Achieving Sustainable Development Goals (SDGs) in Higher Education: Lessons from Covid-19: Australia's Experiences

1010 - 1040
Prof. Dr. Sumiani Yusoff
Director of Institute of Ocean and Earth Sciences, University of Malaya
Leading Universities Towards Achieving Sustainable Development Goals (SDGs) in Higher Education: Lessons from Covid-19: Malaysia's Experiences



UMCares Competition Award Ceremony

Date : 23rd June 2020 (Tuesday)

Time : 10:00 am – 12:00 pm

Venue : The Cube, RMIC, UM



UMLL 8-Months Virtual Monitoring Workshop – Group A

Date : 29th June 2020 (Monday)

Time : 9:30 am – 1:00 pm

Platform : Google Meet



LL049-2019: UM Green Procurement for Food Premises

Principle Investigator: Dr. Nor Liyana Shuib

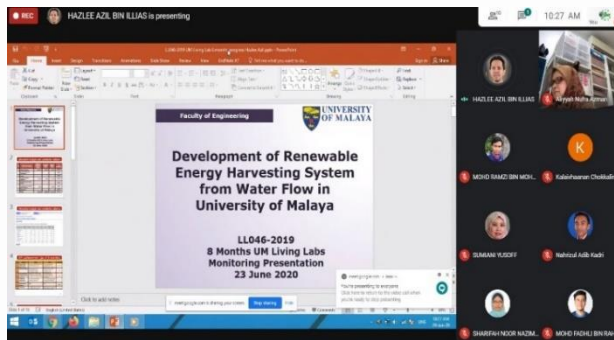
Time: 9:30 am – 10:00 am



LL005-15SUS: The RIMBA Project: Biodiversity Conservation by Reconciling Cities & Nature (Phase 5)

Principle Investigator: Dr. Sugumaran A/L Manickam

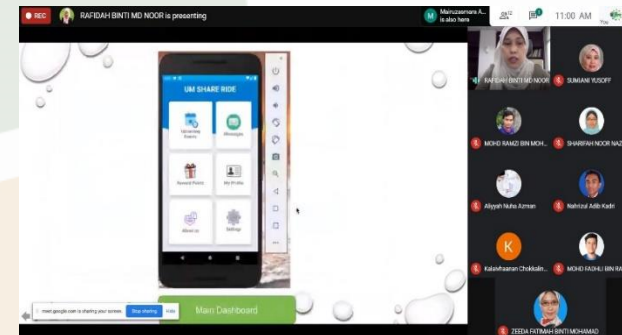
Time: 10:00 am – 10:30 am



LL046-2019: Development of Renewable Energy Harvesting System from Water Flow in University of Malaya

Principle Investigator: AP Ir. Dr. Hazlee Azil Illias

Time: 10:30 am – 11:00 am



LL048-2019: IoT Monitoring and Management System on Campus Sustainable Transportation

Principle Investigator: AP Dr. Rafidah Md. Noor

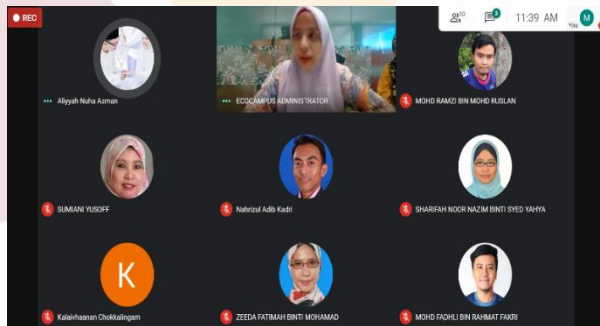
Time: 11:00 am – 11:30 am

UMLL 8-Months Virtual Monitoring Workshop – Group A

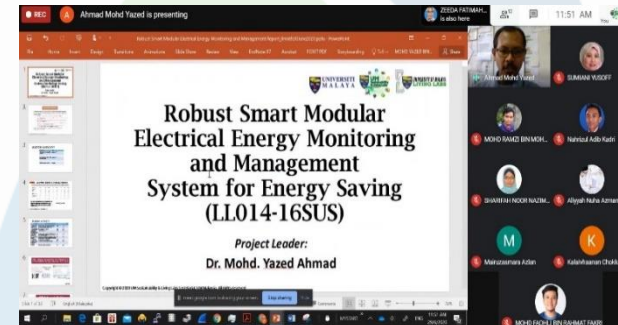
Date : 29th June 2020 (Monday)

Time : 9:30 am – 1:00 pm

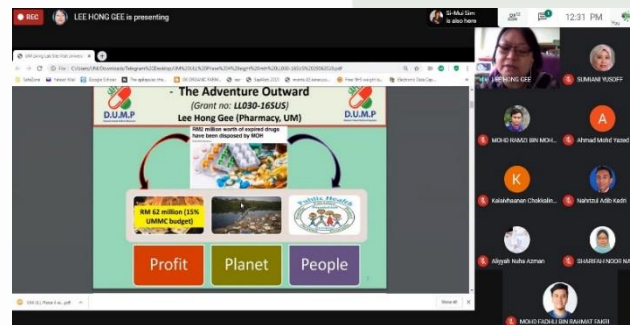
Platform : Google Meet



LL004-15SUS: UM Zero Waste Campaign: Integrated and Sustainable Management Model Development in University of Malaya Campus (Phase 5)
Principle Investigator: Professor Dr. Sumiani Yusoff
Time: 11:30 am – 12:00 pm



LL014-16SUS: Robust Smart Modular Electrical Energy Monitoring and Management System for Energy Saving (Phase 4)
Principle Investigator: Dr. Mohd Yazed Ahmad
Time: 12:00 pm – 12:30 pm



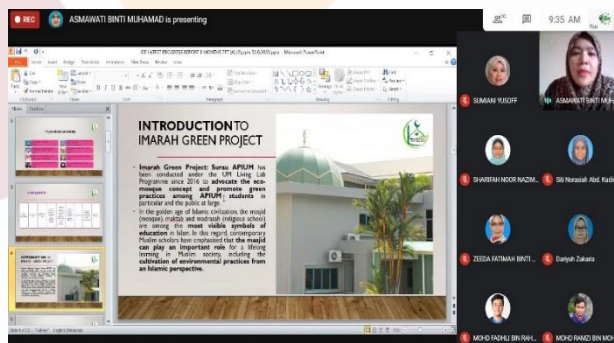
LL030-16SUS: Safe Disposal of Unused Medications - The Adventure Outward (Phase 4)
Principle Investigator: Dr. Lee Hong Gee
Time: 12:30 pm – 1:00 pm

UMLL 8-Months Virtual Monitoring Workshop – Group B

Date : 30th June 2020 (Tuesday)

Time : 9:30 am – 12:30 pm

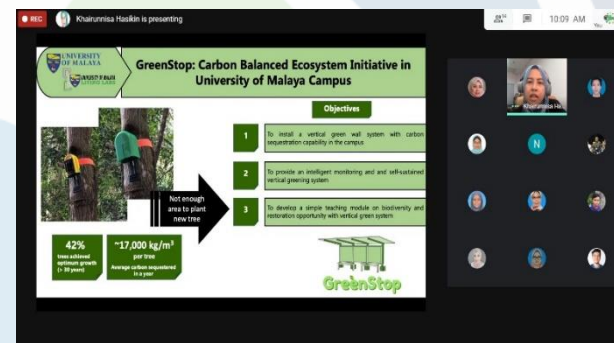
Platform : Google Meet



LL031-16SUS: Transforming the Role of Surau APIUM for Campus Sustainability through Ijarah Green Project (Phase 4)

Principle Investigator: Dr. Asmawati Muhamad

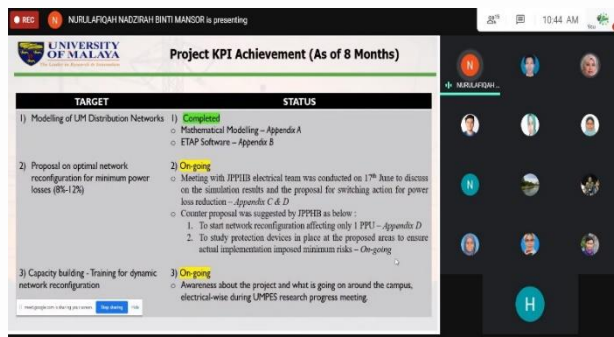
Time: 9:30 am – 10:00 am



LL037-18SUS: GreenStop: Carbon-Balanced Ecosystem Initiative in University of Malaya campus (Phase 2)

Principle Investigator: Ir. Dr. Khairunnisa Hasikin

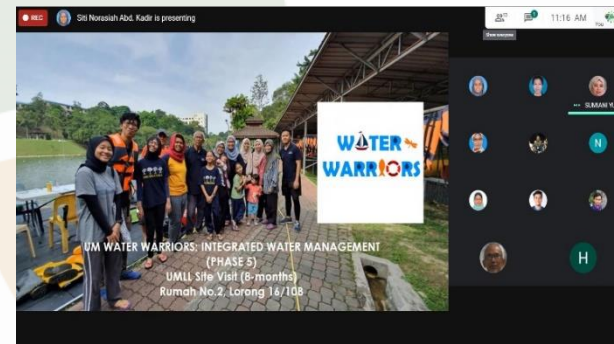
Time: 10:00 am – 10:30 am



LL047-2019: Study on Electrical Distribution System in UM for Power Loss Reduction and Potential Cost Savings

Principle Investigator: Dr. Nurulafiqah Nadzirah Mansor

Time: 10:30 am – 11:00 am



LL002-15SUS: UM Water Warriors: Integrated Water Management (Phase 5)

Principle Investigator: Dr. Nor Aishah Abdullah

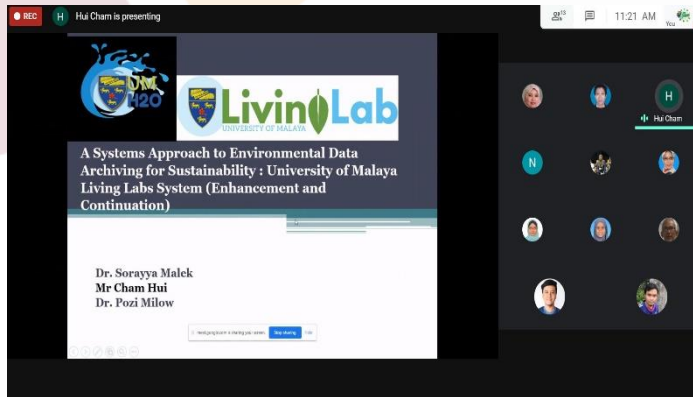
Time: 11:00 am – 11:30 am

UMLL 8-Months Virtual Monitoring Workshop – Group B

Date : 30th June 2020 (Tuesday)

Time : 9:30 am – 12:30 pm

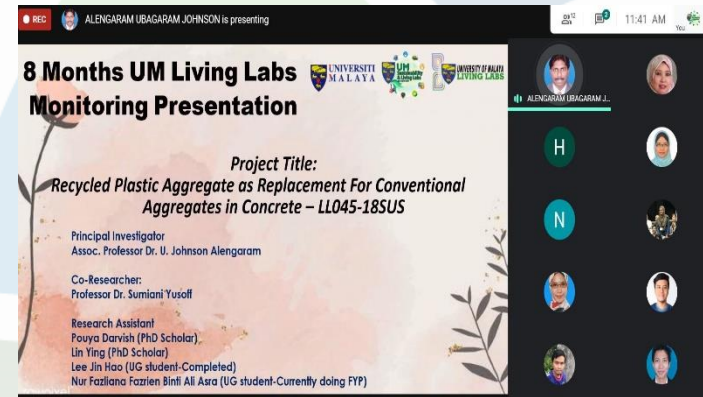
Platform : Google Meet



LL023-16SUS: A System Approach to Environmental Data Achieving for Sustainability: University of Malaya Living Lab System (Enhancement & Continuation) (Phase 4)

Principle Investigator: Dr. Sorayya Bibi Malek

Time: 11:30 am – 12:00 pm



LL045-18SUS: Enhancement of Properties of Recycled Plastic Aggregate in Cement-Free Geopolymer & Normal Concretes and Application (Phase 2)

Principle Investigator: AP Dr. Ubagaram Johnson

Time: 12:00 pm – 12:30 pm

Invited as a Keynote Speaker at ITERA's International Webinar on Regional and Global Environmental Challenges, and Collaboration for Innovative Solutions Universiti Tun Hussein Onn (UTHM)

Date : 30th June 2020 (Tuesday)

Time : 9:30 am – 12:30 pm

Platform : Google Meet



International Webinar

"Regional and Global Environmental Challenges, and Collaboration for Innovative Solutions"



AP Dr Acep Purqon,

Head, Research center of fiber optics technology and Big Data analysis, and Chief of data science department, ITERA, Indonesia.



Prof. Dr Sumiani Yusoff,

Director, Institute of Ocean and Earth Sciences (IOES), University of Malaysia.



AP Dr. Mohd Remy Rozainy

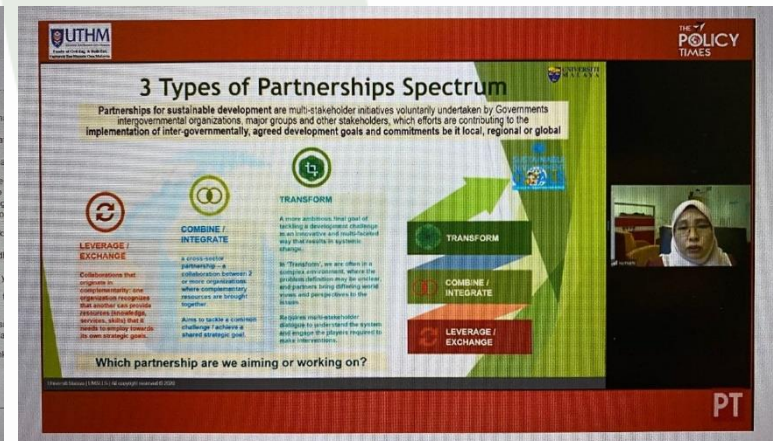
Mohd Arif Zainol, Deputy Director, Engineering & Drainage Research Center (REDAC), USM, Malaysia.



Prof. Dr. Abd Elnaby Kabeel,

Vice Dean, Postgraduate and Research, Faculty of Engineering - Tanta University, Egypt.

Tuesday, 30th June 2020, 2 pm "Malaysia Time", 1 pm "Jakarta Time" and 8 am "Cairo Time"





UMSLLS Events 2020

July

RIMBA Ilmu's Redevelopment Meeting

Date : 2 July 2020 (Thursday)

Time : 11:00 am – 1:00 pm

Venue : TNC P&I Office



DISCUSSION ON RIMBA ILMU'S REDEVELOPMENT



RIMBA ILMU FACTS

- 80-hectare botanic garden
- established in 1974,
- Transformed from an abandon rubber estate to arguably one of the main ex-situ conservation site in Malaysia
- House to living collections of around 1700 species of plants
- Opening of a new building in 1997
- Adopts a rain forest theme
- Core collections in the garden include medicinal plants, palms, citruses (plants from the orange family), ferns and bamboos.
- Has a permanent exhibition called Rain Forests and Our Environment, a conservatory named as Rare Plants and Orchid Conservatory as well as a herbarium.
- Frequent collaborator: The Malaysian Nature Society



http://rimba.um.edu.my/virtual_tour.php

CONTRIBUTION TO UI GREENMETRIC:

Category 1: Setting & Infrastructure (SI)

Related indicator: 1.9 Total area on campus covered in forest vegetation (%)

1.10 Total area on campus covered in planted vegetation (%)



CONTRIBUTION TOWARDS TIMES HIGHER EDUCATION (THE) WORLD UNIVERSITY IMPACT RANKINGS – SDGs:

1) SDG15: Life on Land

15.2.2 Does your university as a body have policies to ensure that food on campus is sustainably farmed?

12.2.3 Does your university work directly to maintain and extend existing ecosystems and their biodiversity, of both plants and anima, especially ecosystems under threat?

15.2.4 Does your university as body offer educational programmes on ecosystems (looking at wild flora and fauna) for local or national communities?

15.3.1 Does your university as a body have a policy to ensure the conservation, restoration and sustainable use of terrestrial ecosystems associated with the university, in particular forests, mountains and drylands?

15.3.2 Does your university as a body have a policy to identify, monitor and protect any IUCN Red Listed species in areas affected by the operation of your university?

15.3.3 Does your university as a body include local biodiversity into any planning and development process (e.g. construction of new buildings)?

15.3.4 Does your university as a body have a policy to reduce the impact of alien species on campus?

15.3.5 Does your university as a body collaborate with the local community, e.g. through partnerships, in efforts to maintain shared land ecosystems?

2) SDG17: Partnership for the Goals

17.2.5 Does your university as a body collaborate with NGOs to tackle the SDGs through development of educational research

UM Living Lab Plastic Aggregates project 1st site visit at UM ZWC

Date : 8 July 2020 (Wednesday)

Time : 10:00 am – 11:00 am

Venue : UM ZWC Site

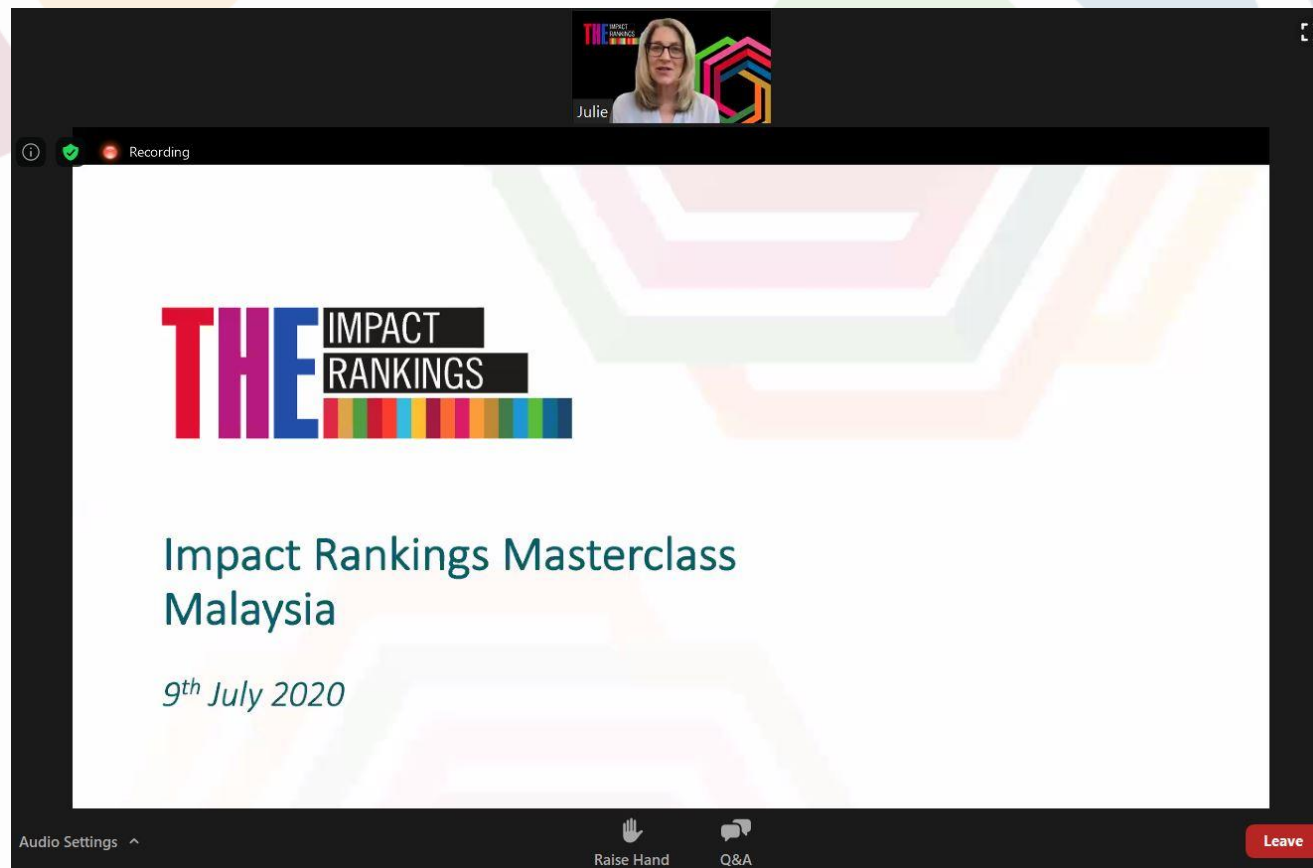


THE Impact Rankings Masterclass Malaysia Webinar

Date : 9 July 2020 (Thursday)

Time : 3:00 pm – 4:30 pm

Platform : Zoom



UMCares (UM Eco-Challenge) Award Post-Mortem Meeting

Date : 13 July 2020 (Monday)

Time : 10:30 am – 12:00 pm

Venue : UMCares Meeting Room, RMIC, UM

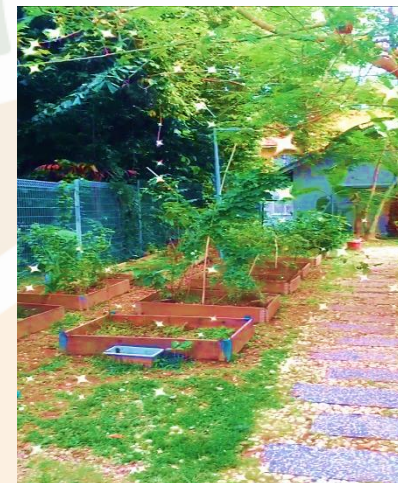


Water Warriors' media interview by The STAR

Date : 16 July 2020 (Thursday)

Time : 10:00 am – 11:30 am

Venue : Rumah No.2, Lorong 16/10B, UM

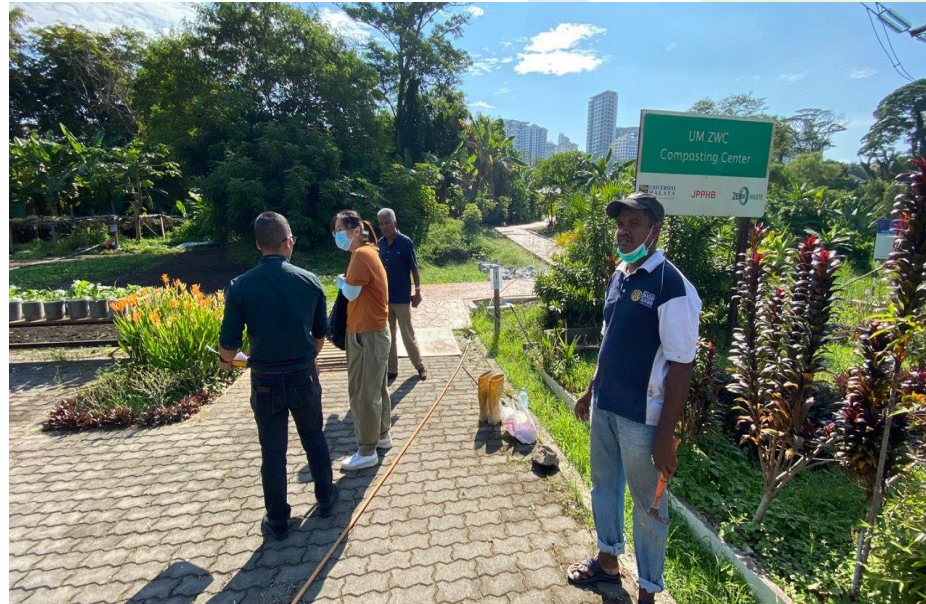


Plastic Aggregates Project (LL045-18SUS) site visit to UM ZWC

Date : 15 July 2020 (Wednesday)

Time : 10:00 am – 12:00 pm

Venue : UM ZWC

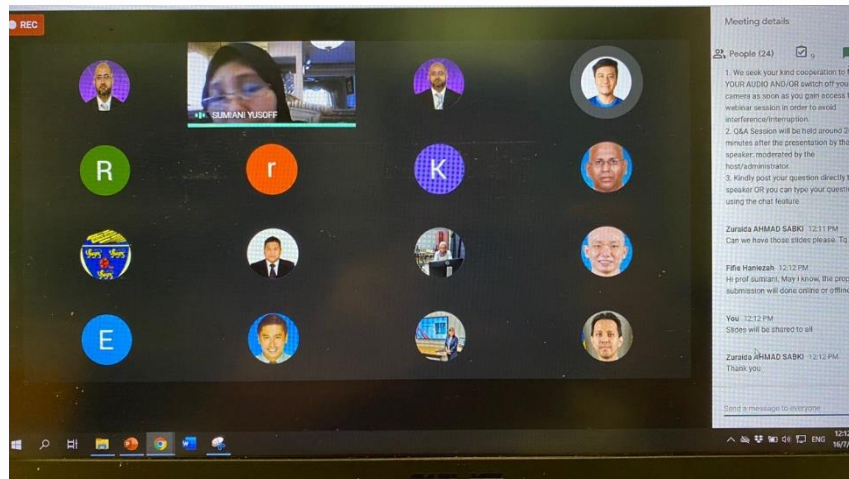


UM Living Labs Clinic 2020/2021

Date : 16 July 2020 (Thursday)

Time : 11:00 am – 12:30 pm

Platform : Google Meet



Plastic Disclosure Project (PDP): 1-2-1 Consultation between United Nations Environment Programme (UNEP), PDP (Ocean Recovery Alliance) and UM (UM ZWC)

Date : 17 July 2020 (Friday)

Time : 10:00 am – 12:00 pm

Platform: Google Meet



Context Behind the Challenge

- Up to 8m tons of plastic waste is estimated to flow into the ocean every year from our waterways
- Less than 15% of all plastic is recycled globally
- 40 percent of plastic produced is packaging, used just once, and then discarded.

MOHD RAMZI

Shakirah

mairuz

Hisyamuddin

Malaysia, Sumia...

Smart and Green IoT Vending Machine Initial Discussion with UVendTech (M) Sdn Bhd (22/7/2020 Thursday 3:30pm)

Date : 22 July 2020 (Wednesday)

Time : 3:30 pm – 4:00 pm

Venue : UMSLLS Office



UMSLLS Sustainability Webinar 2

UMSLLS Sustainability Webinar Series 2: 'University as a SDG Living Lab on Water Management: The Experience of Water Warriors UM'

Date : 23 July 2020 (Thursday)

Time : 10:30 am – 12:30 pm

Platform : Google Meet



UNIVERSITI MALAYA **WATER WARRIORS**

LIVE

SUSTAINABILITY WEBINAR SERIES 2

University as a SDG Living Lab for Water Management: The Experience of UM Water Warriors

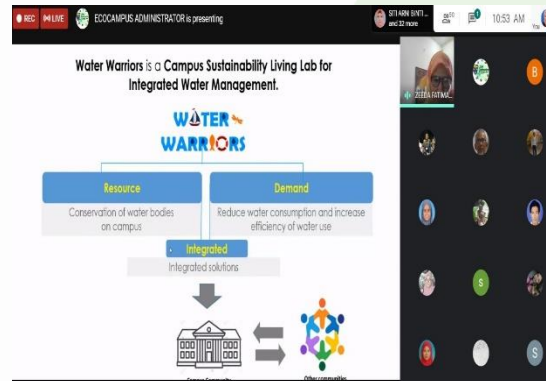
SPEAKER:
ASSOCIATE PROFESSOR DR. ZEEDA FATIMAH MOHAMAD
Principal Coordinator, UM Living Lab – UM Water Warriors
Associate Professor, Department of Science & Technology Studies, Faculty of Science, Universiti Malaysia

THURSDAY | 23rd JULY | 10:30AM 2020

Google Meet

Joining: UM Water Warriors Members - Dr. Abdul Mutalib Salim (Chair & Former Professor, JPPC), Hazreena Hussain (Faculty of Built Environment), Dr. Fatimah Mohamed Zaki (Faculty of Engineering), & Dr. Nur Shuhada Abdillah (Faculty of Science)

Q&A Session with Ms. Siti Nur Azzah Abd. Kadil & Mr. Aftan Nasarudin (Co-Founders of UM Water Warriors)



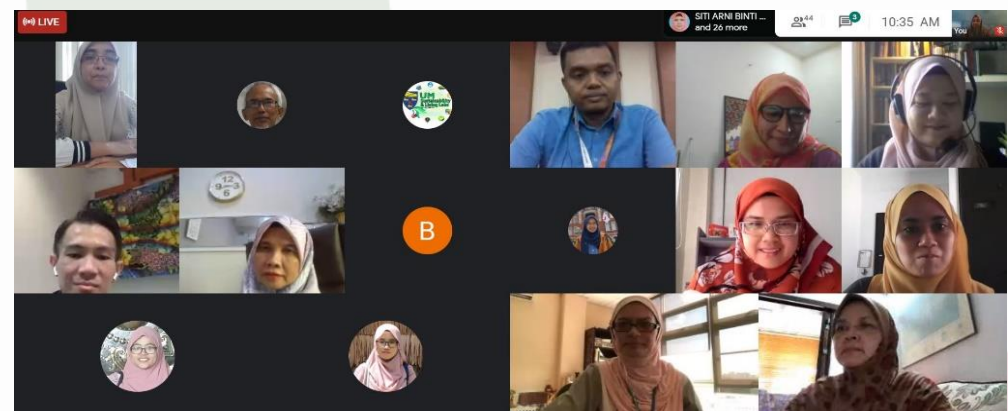
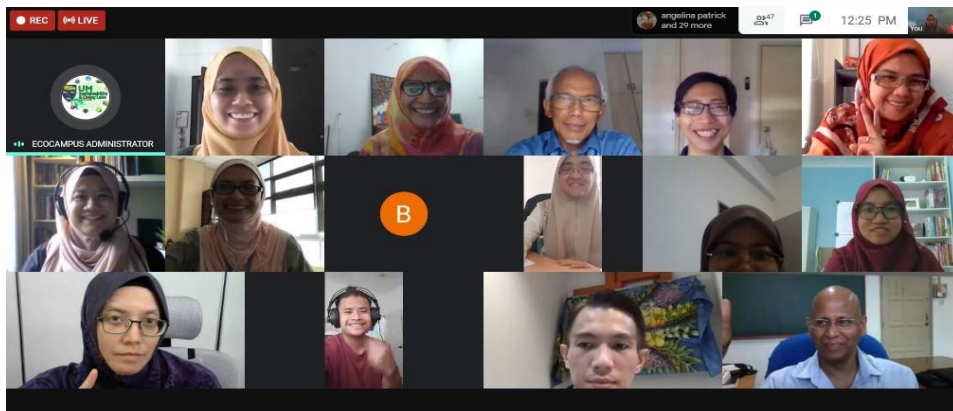
Office & Environmental Education Space

The Star

July 16 at 10:30 PM

An old University Village (UM) has been transformed into a chic living space by two of the university's sustainable advocacy groups, The Etna Project and Water Warriors.

The refurbished bus is located in the compound of Rumbek No.2, Universiti Village and available for rental.



The background of the slide is white, decorated with numerous colorful, semi-transparent geometric shapes. These shapes, which include triangles and trapezoids, are arranged in a circular pattern around the central text. The colors used are light blue, light orange, light pink, light green, and light purple.

UMSLLS Events 2020

AUGUST

The Institution of Engineers Malaysia (IEM) Webinar on Advancing Engineering and Sustainable Development: A Way Forward for Sustainable World

Date : 12 August 2020 (Tuesday)

Time : 10:00 am – 12:15 pm

Platform : GoToWebinar



WOMEN ENGINEERS presents

ADVANCING ENGINEERING AND SUSTAINABLE DEVELOPMENT – A WAY FORWARD FOR SUSTAINABLE WORLD

SPEAKER:

PROF. DR. SUMIANI YUSOFF

Director, INSTITUTE OF OCEAN & EARTH SCIENCES (IOES)
Chairperson, UM Sustainability & Living Labs Secretariat (UMLSLS)

**10 AM to 12 PM
25 AUGUST 2020**

REGISTRATION FEES

(effective 1st August 2020)

IEM Member : RM 15.00

Non - Member : RM 70.00

Register online | www.iem.org.my

The screenshot shows a GoToWebinar interface. At the top, there are two video feeds of participants: Dr. Noor Izzah Binti Harunah and Professor Dr. Sumiani Yusoff. Below the feeds is a large banner for the webinar. The banner features a colorful illustration of hands holding a globe, with a wind turbine and solar panels in the background. The text on the banner reads: 'Advancing Engineering and Sustainable Development – A way forward for Sustainable World'. It also mentions 'PROFESSOR DR. SUMIANI YUSOFF' as the Chairperson of the UM Sustainability & Living Labs Secretariat (UMLSLS) and Director of the Institute of Ocean & Earth Sciences (IOES) at Universiti Malaysia. Below the banner, there is a section titled '12 Guiding Principles of Engineering for Sustainable Development' with a list of 12 principles. The principles are: 1. Look beyond your own locality and the immediate future; 2. Innovate and be creative; 3. Seek a balanced solution; 4. Seek engagement from all stakeholders; 5. Make sure you know the needs and wants; 6. Plan and manage effectively; 7. Give sustainability the benefit of any doubt; 8. If polluters must pollute... then they must pay as well; 9. Adopt a holistic, 'cradle-to-grave' approach; 10. Do things right, having decided on the right thing to do; 11. Beware cost reductions that masquerade as value engineering; 12. Practice what you preach. The source is cited as 'The Royal Academy of Engineering, London'. At the bottom of the interface, there is a footer with the text 'Sumiani Yusoff | Universiti Malaysia | UMLSLS | All copyright reserved © 2020'.

Rainforest Kids Challenge by MushClean – Community Participation in Action Research & Citizen Science of Water Warriors UM

Date : 18,19 & 25 July 2020 (Saturday)

Time : 10:00 am – 12:00 pm

Venue : UM GreenBelt



Follow up brainstorming session on Biodiversity & Landscape Management Project in UM with Dr Sarah & Dr Shakirin of Institute of Biological Sciences, Faculty of Science UM

Date : 19 August 2020 (Thursday)

Time : 2:30 pm – 3:30 pm

Venue : UM Sustainability & Living Labs Secretariat (UMSLLS)



UM - Ecnights Follow up Discussion on Project VOCAL (Voice of Climate Action Leaders)

Date : 19 August 2020 (Wednesday)

Time : 11:00 am – 1:00 pm

Venue : UM Sustainability & Living Labs Secretariat (UMSLLS)





UMSLLS Events 2020

September

Green Cafeteria Site Visit

Date : 14 September 2020

Time : 10:30 am – 12:30 pm

Platform: Faculty of Business & Accountancy



UM Living Labs Grant Programme 2020/2021 Proposal Presentation & Evaluation

Date : 21 September 2020

Time : 9:00 am – 2:00 pm

Platform: Mars Meeting Room



UM Living Labs Grant Programme 2020/2021 Proposal Presentation & Evaluation

Date : 21 September 2020

Time : 9:00 am – 2:00 pm

Platform: Mars Meeting Room



UM Living Labs Grant Programme 2020/2021 Proposal Presentation & Evaluation

Date : 21 September 2020

Time : 9:00 am – 2:00 pm

Platform: Mars Meeting Room



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Time : 9:00 am – 2:00 pm

Platform: Mars Meeting Room



UM Living Labs Grant Programme 2020/2021 Proposal Presentation & Evaluation

Date : 21 September 2020

Time : 9:00 am – 2:00 pm

Platform: Mars Meeting Room





**UNIVERSITI
MALAYA**



“Universiti Malaya, and all members of the University, is fully committed in our journey towards a truly sustainable Public Higher Education Institution by integrating Sustainable Development Goals (SDGs) in our teaching & learning, research, operations, governance, community engagement and leadership”