



**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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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.



1

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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2

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:

Core Area 01 Landscape & Biodiversity Management	Core Area 02 Waste Management	Core Area 03 Water Management
Core Area 04 Energy Management	Core Area 05 Transportation Management	Core Area 06 Green Procurement
Core Area 07 Education Management Environment & Climate Change	Core Area 08 Change Management Governance, Participation & Communication	

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
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UM Campus Sustainability Journey



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 IGEM 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 (JKEKOUUM) – 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



SUSTAINABILITY SCIENCE RESEARCH CLUSTER (SUSC) - 2009



UM ENVIRONMENTAL SECRETARIAT (UMCARES) - 2008

2

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



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



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

UNIVERSITI MALAYA Green Metric World University Ranking

UN COMMITTED TO:

SUSTAINABLE GOALS (17 Goals to Transform our world)

UM Eco-Campus Core Areas:

34th World's Most Sustainable University
*out of 780 Institutions worldwide

79% Overall Score
*increment of 4% compared to 2018

ACHIEVEMENTS:

- 100% Water Management Initiatives
- 95.8% Education & Research Initiatives (Sustainability)
- 83.3% Waste Management Initiatives
- 81.9% Transportation Management Initiatives
- 73.3% Setting & Infrastructure Initiatives
- 52.4% Energy & Climate Change Initiatives

RECOGNIZED AMONG THE:

- Best Water Management in Malaysia
- Best Education & Research (Sustainability) in Malaysia
- Best Waste Management in Malaysia

36 (2018) → 34 (2019)

University of Malaysia |
 unimalaya |
 unimalaya |
 www.um.edu.my

QS WORLD UNIVERSITY RANKINGS 59

QS UNIVERSITY RANKINGS ASIA 13

WORLD UNIVERSITY RANKINGS ASIA 2019 38

Green Metric World University Ranking 34

THE UNIVERSITY IMPACT RANKINGS 80

Other notable achievements:

- 11th World's Best Water Management
- 12th World's Best Education & Research (Sustainability)

1st
Best Water Management Initiative in Malaysia

1st
Best Waste Management Initiative in Malaysia

1st
Best Education & Research (Sustainability) in Malaysia

3

UM Living Labs Grant Programme (UMLLGP)

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

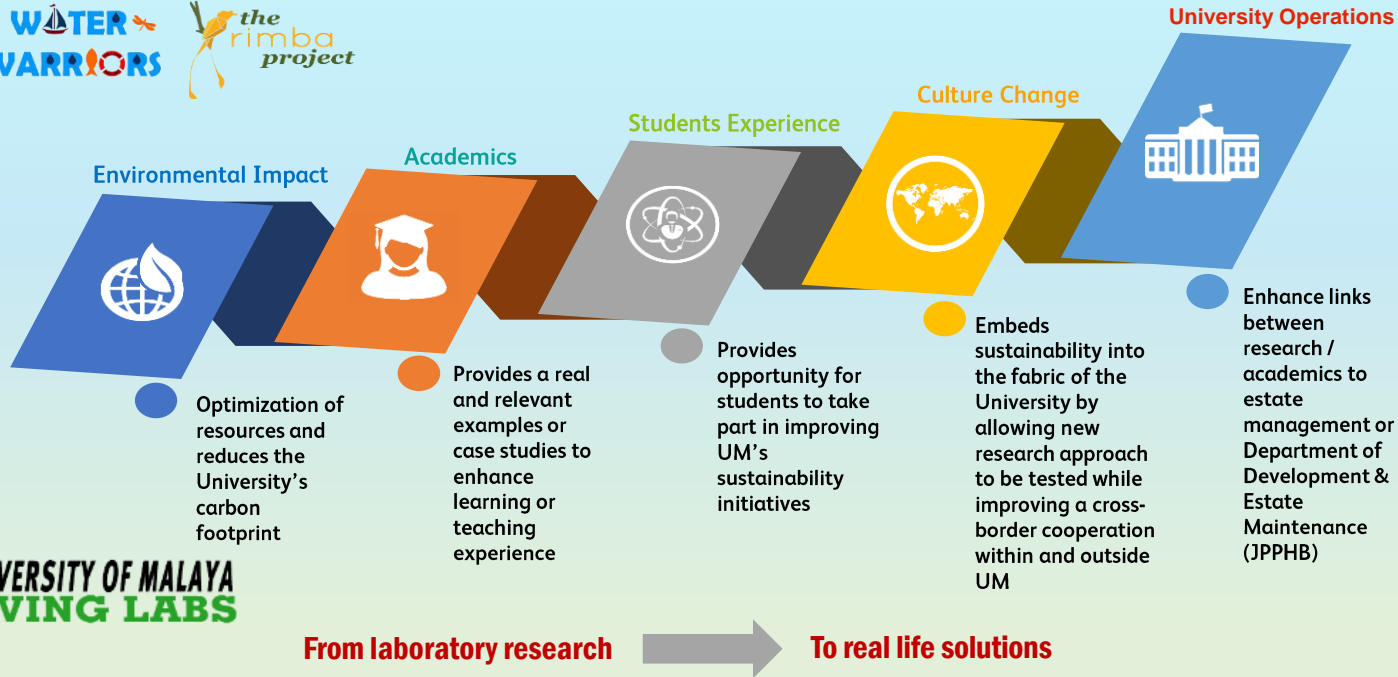


UM Living Lab

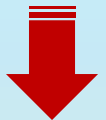
Grant Programme

ACTION-ORIENTED & TRANSLATIONAL RESEARCH

to provide **sustainable solutions** to the campus



From laboratory research



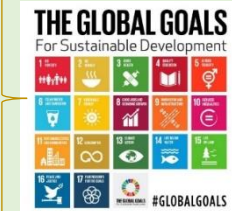
To real life solutions



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**





the rimba project

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



Landscape & Biodiversity Management



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**



- 5. **Safe Disposal of Unused Medications - The Way Forward**
- 6. **Smart Waste Management System using Internet-of-Things (IOT)**

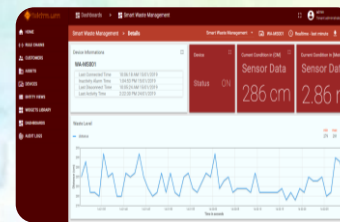
Waste Management ^{Core Area} 02

- 3. **UM Zero Food Waste Campaign**
- 4. **Agro-hero: Promoting Green Practices to Communities for Sustainable Agriculture**

- 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



Water Management 03

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



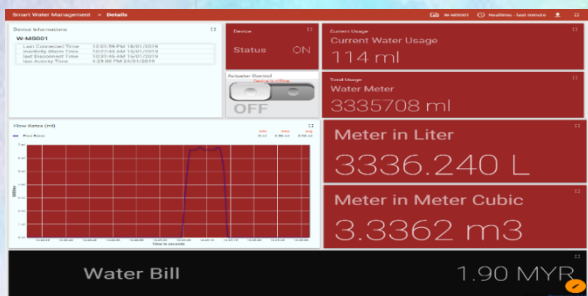
UM Living Lab's new initiative to control water consumption efficiently



6 CLEAN WATER AND SANITATION

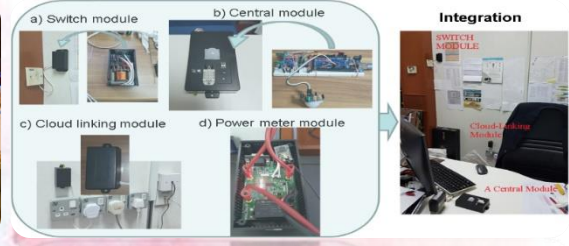


Water sensors at FSKTM (Research prototype)





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



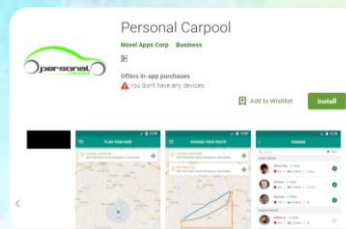
Core Area
05
Transportation Management



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

Core Area 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)



Women clothes at Lestari Shop Front view of the shop Lestari Shop is OPEN!

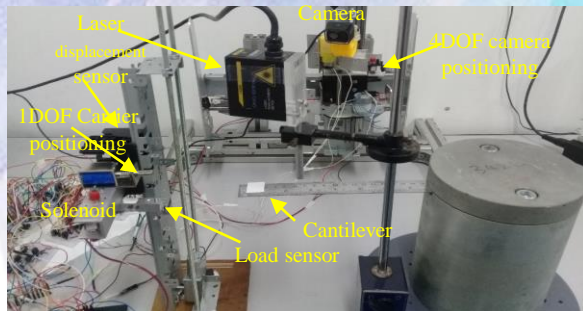


Children Clothes Men clothes at Lestari Shop Necktie

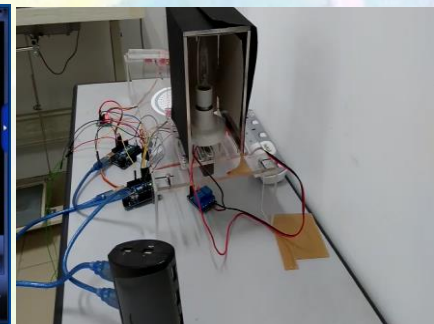


1. Transforming the Role of Surau APIUM for Campus Sustainability Through 'Imarah Green Project

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

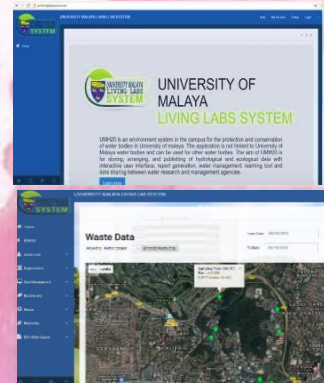


Increase learning efficiency by developing remote experimental facility





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
 Governance, Participation & Communication
 Core Area 08

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



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

Additional Theme: Health and Well-being

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

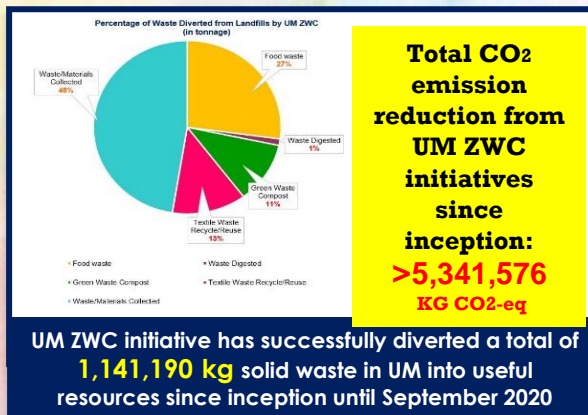
Addressing the Three Pillars of Sustainable Development: Environmental Sustainability, Societal Well-being & Economic Performance



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

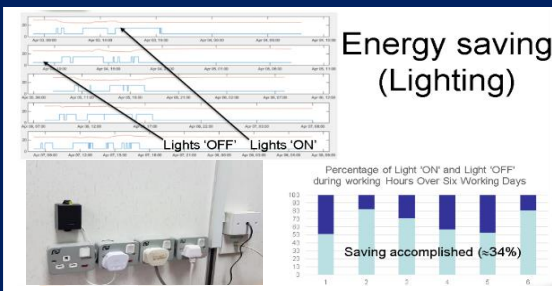
3,193.15 kg of unused medicines returned were reused/ safely disposed



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

ECONOMIC PERFORMANCE (2015-present)



APIUM Recycling Centre
 Total Recyclable Materials : **1,128.17 kg** equivalent to **RM395.35**



APIUM Lestari Shop
 Total green sale : **RM 1,578** items sold



UM ZWC has collected a total of **RM100,958** from UM ZWC Organic Compost sale & training session

As part of UM ZWC income generation initiative, this project has earned **RM384.50** from the selling of organic vegetables planted at UM ZWC mini garden since early 2020.



Example of vegetables: chilli, spinach, kale, bitter gourd and pumpkin

As part of The RIMBA Project income generation initiative, this project has collected **RM35,984.76** from guided walk, crowd funding, book & merchandise sales



Water saving initiatives has collectively saved water bills of **RM123,821.32** while **Faculty of Engineering** has saved **RM2,751** through Smart Modular Energy Monitoring system



Smart Modular Initiatives

UM Water Warriors in collaboration with Faculty of Engineering has collected **RM1340** through 'Precious Plastic Project'



UM Water Warriors has collected **RM4112.83** through the operation of Air BnB Project since December 2019 and received Superhost Recognition for their outstanding hospitality.



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**



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 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

UM LIVING LABS MEDIA APPEARANCES



Tasek Varsiti as the Heart of UM

Water polo is a sport that is popular in the world of aquatic sports. It is a team sport that involves a ball and a goal. The game is played in a pool and is a very competitive sport. The University of Malaya has a strong water polo team that has won many national and international titles. The team is known for its skill and teamwork. The water polo pool at the University of Malaya is a very important facility for the team. It is a large pool that is well-maintained and has a good view of the surrounding area. The pool is a great place for the team to practice and compete. It is also a great place for students to enjoy a sport and have fun. The water polo pool at the University of Malaya is a true heart of the university.



MISI SI PENCINTA SUNGAI

The Misi Si Pencinta Sungai (MSPS) is a student organization at the University of Malaya that is dedicated to environmental conservation and water quality monitoring. The organization was founded in 1998 and has since then been actively involved in various environmental projects. One of the main activities of the MSPS is to monitor the water quality of the Sungai Laban, a river that flows through the campus. The organization has set up several monitoring stations along the river and has been collecting water samples regularly. The data collected is used to assess the health of the river and to identify any potential threats to the water quality. The MSPS also organizes various environmental activities, such as tree planting, recycling drives, and awareness campaigns. The organization is committed to making a positive impact on the environment and to promoting a sustainable lifestyle among the students and staff of the University of Malaya.

SCHOOL TIMES

NATURE IN OUR MIDST

The School Times is a student-run newspaper at the University of Malaya. It covers a wide range of topics, including news, sports, and environmental issues. The newspaper is published weekly and is a popular read among students. One of the main focuses of the School Times is on environmental issues. The newspaper has several dedicated pages for environmental news and features. It covers local and international environmental news, as well as reports on environmental activities and projects. The School Times also features interviews with environmental experts and activists. The newspaper is a great resource for students who are interested in environmental issues. It provides up-to-date information and insights into the world of environmental conservation. The School Times is committed to providing high-quality journalism and to promoting a better understanding of environmental issues among the student body.



Ecowatch

Help protect our urban biodiversity

Urban biodiversity is an important part of our environment. It helps to maintain the ecological balance and provides many benefits to humans. However, urban development often leads to a loss of biodiversity. This is because natural habitats are destroyed and replaced by buildings and roads. This can lead to a decline in the number of species and a loss of genetic diversity. It is important to take steps to protect urban biodiversity. One way to do this is by creating green spaces and parks. These spaces can provide habitats for many different species and help to improve the quality of the environment. Another way to protect urban biodiversity is by using sustainable building practices. This can include using local materials and energy-efficient designs. By taking these steps, we can help to protect our urban biodiversity and create a more sustainable and livable environment.



Whither nature conservation in rapid development?

Nature conservation is a complex issue that is becoming increasingly important in our rapidly developing world. As we build more cities and infrastructure, we are losing natural habitats and biodiversity. This is a major threat to the environment and to the well-being of future generations. It is important to find ways to balance development with nature conservation. One way to do this is by integrating nature conservation into the planning and design of new developments. This can include creating green spaces, protecting natural areas, and using sustainable building practices. Another way to balance development with nature conservation is by promoting a culture of environmental awareness. This can be done through education and public participation. By taking these steps, we can help to ensure that our development is sustainable and that we are able to enjoy a healthy and vibrant environment for generations to come.

Into the wild in the city

Urban nature is becoming an increasingly important part of our lives. It provides many benefits, such as improving air quality, reducing noise, and providing a place for recreation. However, urban nature is often threatened by development and pollution. It is important to take steps to protect and enhance urban nature. One way to do this is by creating green spaces and parks. These spaces can provide habitats for many different species and help to improve the quality of the environment. Another way to protect and enhance urban nature is by using sustainable building practices. This can include using local materials and energy-efficient designs. By taking these steps, we can help to ensure that our urban nature is protected and that we are able to enjoy a healthy and vibrant environment for generations to come.



ANALISIS

Manfaat Sungai, 'Mekar' Baku Deras?

The article discusses the impact of the Sungai Laban on the surrounding area. It highlights the benefits of the river, such as providing water for irrigation and recreation. However, it also points out the challenges posed by the river, such as flooding and pollution. The article suggests that there are several ways to address these challenges. One way is to improve the river's infrastructure, such as building dams and bridges. Another way is to implement better water management practices, such as controlling deforestation and reducing pollution. The article concludes that the Sungai Laban is a valuable resource and that it is important to take steps to protect and enhance it for the benefit of the community.



FAKTA MENGENAI ZWC UM

The ZWC (Zero Waste Campus) at the University of Malaya is a project aimed at reducing waste and promoting sustainability. The project involves a variety of activities, such as recycling, composting, and reducing energy consumption. The ZWC has been successful in reducing the amount of waste generated on campus and in promoting a culture of sustainability among students and staff. The project is a great example of how a university can take steps to reduce its environmental impact and promote a more sustainable future. The ZWC is committed to continuing its efforts and to finding new ways to reduce waste and promote sustainability.

KEMPER SIFAR SISA UNIVERSITI MALAYA

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Peranti mudah alih ukur karbon dioksida

A new mobile app has been developed to help users track their carbon footprint. The app is easy to use and provides real-time feedback on the user's carbon footprint. It allows users to track their carbon footprint from various sources, such as driving, flying, and shopping. The app also provides tips and suggestions on how to reduce the user's carbon footprint. This is a great tool for anyone who is interested in reducing their carbon footprint and promoting sustainability. The app is available for download on both Android and iOS devices.



UM Eco Freemarket sntuni komuniti PPR Kerinchi

The University of Malaya Eco Freemarket is a community initiative aimed at promoting sustainability and supporting local businesses. The market is held regularly and features a variety of eco-friendly products and services. It is a great place for students and staff to buy eco-friendly products and to support local businesses. The market is also a great place for students and staff to learn more about sustainability and to get involved in environmental activities. The Eco Freemarket is a great example of how a university can take steps to promote sustainability and support the local community.

26 infografik

The infographic provides a comprehensive overview of the University of Malaya's environmental initiatives. It covers a wide range of topics, including water quality monitoring, waste management, and energy conservation. The infographic is a great resource for anyone who is interested in the University of Malaya's environmental efforts. It provides clear and concise information and is easy to understand. The infographic is available for download on the University of Malaya's website.

12 setempat

SAMPAN MAHAL 'Tarikan' Industri RM30b

The article discusses the impact of the 'Sampah Mahal' (Waste is Expensive) initiative. The initiative is aimed at reducing waste and promoting sustainability. It involves a variety of activities, such as recycling, composting, and reducing energy consumption. The initiative has been successful in reducing the amount of waste generated and in promoting a culture of sustainability among students and staff. The initiative is a great example of how a university can take steps to reduce its environmental impact and promote a more sustainable future. The initiative is committed to continuing its efforts and to finding new ways to reduce waste and promote sustainability.

SAMPAN MAHAL

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INFINITI

INOVASI • SAINS • GAJET

Peranti Pemantau Alam Sekitar

The Infiniti Environmental Monitoring Device is a new technology that allows users to monitor their environment in real-time. The device is easy to use and provides accurate data on a variety of environmental factors, such as air quality, noise, and temperature. The device is a great tool for anyone who is interested in monitoring their environment and promoting sustainability. The device is available for purchase on the Infiniti website.

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

Tuan Haji Ismail Mokhtar
Ketua Pengarah Jabatan Pengurusan Sisa Pepejal Negara

YB Fahmi Fadzil
Ahi Parlimen Lembah Pantai

Prof. Madya Dr. Sumiani Binti Yusoff
Dekan Kluster Penyelidikan Sustainability Science, Universiti Malaya

tv1

Thailand

Public Broadcasting Services
28 February 2020

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

Waste-to-energy
 The idea of turning waste into energy is not new. In fact, it has been around since the 19th century. However, it is only in the last few decades that the technology has advanced enough to make it a viable option for many countries.

Waste-to-materials
 Another way to turn waste into profit is by recycling it into materials. This is done by breaking down waste into its constituent parts and then using those parts to create new products.

Waste-to-fuel
 Waste can also be converted into fuel. This is done by burning waste in a power plant, which produces electricity and heat. The heat can be used to generate steam, which can then be used to drive a turbine.

Zeroing in on zero food waste

Businesses' waste management and technology solutions to the global problem

SWCorp's study on food waste

Category	Percentage
Food waste	14.4%
Plastic	12.1%
Paper	11.1%
Textiles	8.3%
Metals	6.6%
Others	40.5%

Activists want stricter zoning laws near water bodies

Thursday, 17 Sep 2020
By: BAWANI M

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 of buildings near water bodies.

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 cleaner 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.

Waste management starts with us

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

Tips for effective waste management beyond 2020

- Prevention reduction** - A long-term reduction in waste generation is the most effective way to manage waste.
- Recycled producer responsibility (RPR)** - Recycled producers should be held responsible for the waste they generate.
- Incentive in innovative, alternative delivery systems** - Incentives should be provided to encourage the use of alternative delivery systems.
- Waste-to-energy** - Waste-to-energy is a viable option for managing waste, but it should be used as a last resort.
- Economic incentives** - Economic incentives should be provided to encourage the use of sustainable waste management practices.
- Temporary labelling issues** - Temporary labelling issues should be addressed to ensure that waste management practices are sustainable.

Ramadan: 20,000 tan makanan dibazir

oleh IZZAT NASURUDIN pengarang@utusan.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 Seri Saifuddin Naisi, berkata, jumlah itu merangkumi makanan yang tidak habis terjual di bazsar Ramadan dan beberapa tempat yang lain di seluruh negara.

"Kesemua makanan ini dijijak, terbuang begitu sahaja dan kita semua maklum mengenai perkara ini. Antara inisiatif

When the tide goes out: Challenges of the water industry

Thursday, 10 Oct 2020

The water industry is facing a number of challenges, including the need to invest in infrastructure, the need to improve water quality, and the need to manage water resources more effectively.

Urgent need to deal with food packaging waste

Thursday, 10 Oct 2020

Food packaging waste is a major problem for the environment. It is made up of a variety of materials, including plastic, paper, and metal. These materials can take a long time to decompose and can pollute the environment.

HIGHER ED

THE ANTHEM 'NEGARAKU' NATIONAL SYMBOL AND ICON

SEEKING DIGITAL TALENT

Greening the campus

Universiti Malaya has launched a new initiative to green the campus. This involves planting trees and creating green spaces on campus.

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

Thursday, 10 Oct 2020

Universiti Malaya has converted a discommissioned bus into a room for rental. This room is available for students who need a place to stay during their studies.

From disused campus bus to cozy lodging

Published on: Wednesday, August 16, 2020
By: Bernama

PETALING JAYA: A fancy in a completely refurbished vintage campus bus? It comes complete with a snug living room with vinyl flooring that resembles hardwood, kitchenette and bathroom for two.

The joys and benefits of observing nature

Thursday, 10 Oct 2020

Observing nature can be a fun and rewarding experience. It allows us to see the beauty of the natural world and learn about the different species that live on our planet.

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



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

328
NETWORKING
& LINGKAGES
(Local & International)



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



66
MEDIA
APPEARANCE
(Radio, Newspaper, Television)



**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

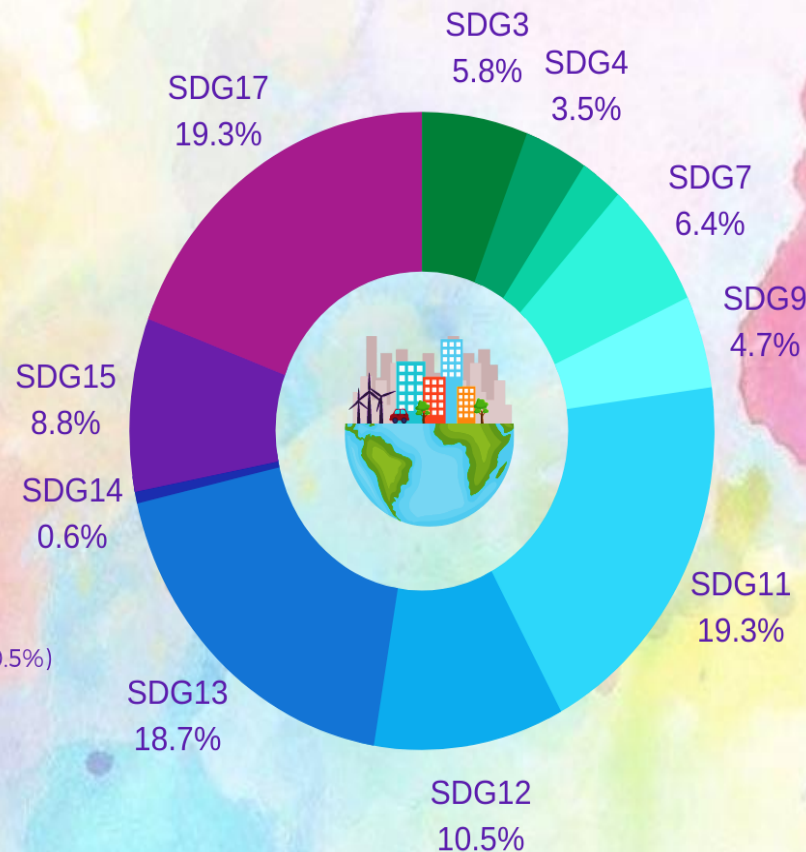




SDGs & UM Living Labs Contribution (2015 - 2020)

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 Tmarah 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:**

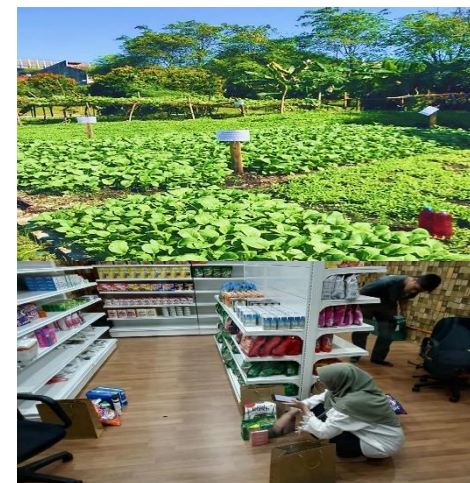
- *UM Zero Waste Campaign:
Integrated and Sustainable
Management Model
Development in University
of Malaya Campus*



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

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).



Networking and Linkages with National & International Stakeholders



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





>1,500

Participation of volunteers, etc



50

Capacity Building & Community Engagement Programmes



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



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

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



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.

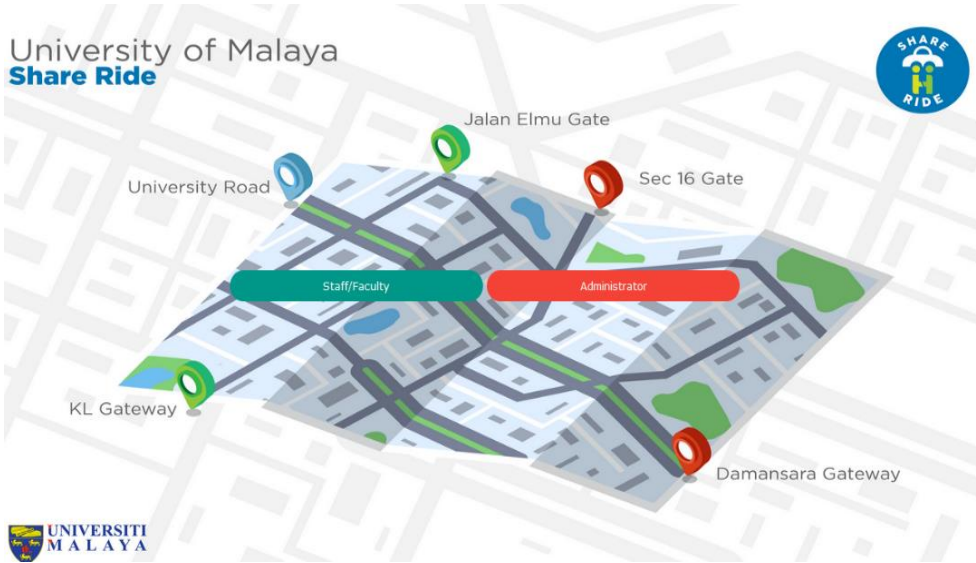


Unique Space: UM Bus (Airbnb) at Rumah No.2, Universiti Malaya

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.



University of Malaya
Share Ride



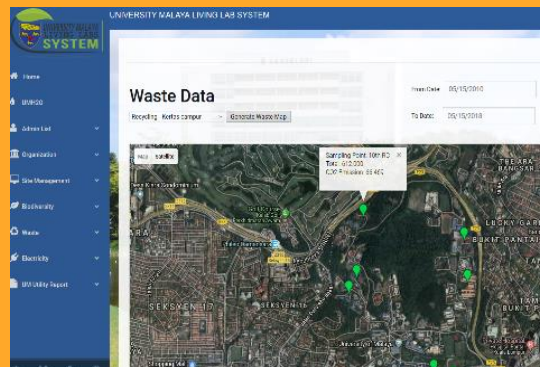
List of UM Living Labs projects that support SDG11:

- 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





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'*

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.



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.



Ensure sustainable consumption and production patterns

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



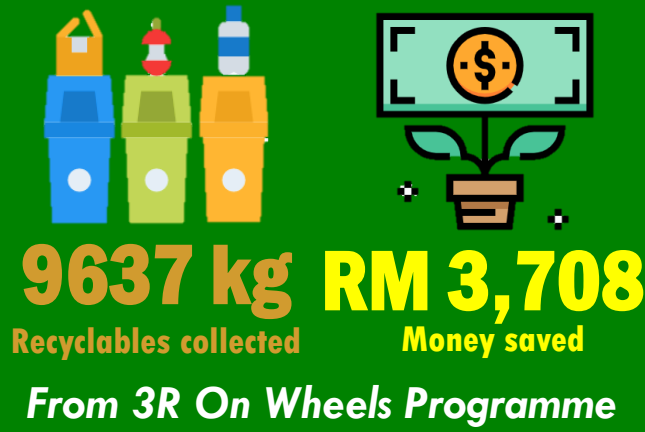
>1000 ton
Total waste diverted



> 4,917,493
KG CO₂-eq



Take urgent action to combat climate change and its impacts



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.





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).



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





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.

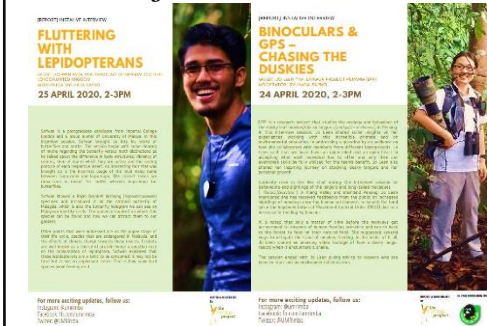
Capacity building for citizen science and conservation

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



>731



Networking/Linkages/
MoA, MoU, LoA, Lol signing
with local and
international stakeholders

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.



The background features a series of colorful, semi-transparent geometric shapes, primarily triangles and trapezoids, arranged in a circular pattern around the center. The colors include shades of orange, pink, light blue, grey, and green.

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

 **UTM** Ocean Thermal Energy Centre (OTEC)
UNIVERSITI TEKNOLOGI MALAYSIA

Ocean Thermal Energy Centre (OTEC)
Ground Floor, Block Q,
Universiti Teknologi Malaysia
Jalan Sultan Yahya Petra,
54100 Kuala Lumpur, Malaysia

Tel: +(603)-2615 4882 / 4684 / 4268 / 4518 Fax: +(603)-2615 4283 <http://otec.utm.my> Email: utmotec@utm.my

OUR REF: UTM.K.09.08.02/20.13/9 26 December 2019

DISTRIBUTION LIST AS ATTACHED

Assalamualaikum and Greetings

Professor/Associate Professor/Dr./Mr./Mrs.

INVITATION TO THE 1ST SATREPS-OTEC PROGRAMME MEETING AND JOINT MEETING FOR SOCIAL IMPLEMENTATION OF MALAYSIA MODEL

SATREPS-OTEC Secretariat is honored to invite you to the 1st SATREPS-OTEC Programme Meeting and Joint Meeting for Social Implementation of Malaysia Model. Details of the event are as follows:


Date	:	10 January 2020 (Friday)
Time	:	9:00 am – 4:30 pm
Venue	:	Bilik Ilmuan 1, 1 st Floor, Anjung Menara Razak Universiti Teknologi Malaysia Jalan Sultan Yahya Petra 54100 Kuala Lumpur

2. The main objective of the programme meeting is to provide an update for the first six months of each Project under SATREPS-OTEC with the physical and financial progress as well as the challenges and way forward for the next six months.


3. Attached, herewith, please find a copy of the program for your reference and kind perusal. Your presence is highly appreciated.

Thank you in advance for your support.

Sincerely,



PROF. DATO' IR. DR. A BAKAR JAAFAR
SATREPS-OTEC
Project Director



1st Monthly Coordination Meeting of UM Sustainability & Living Labs Secretariat 2020

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

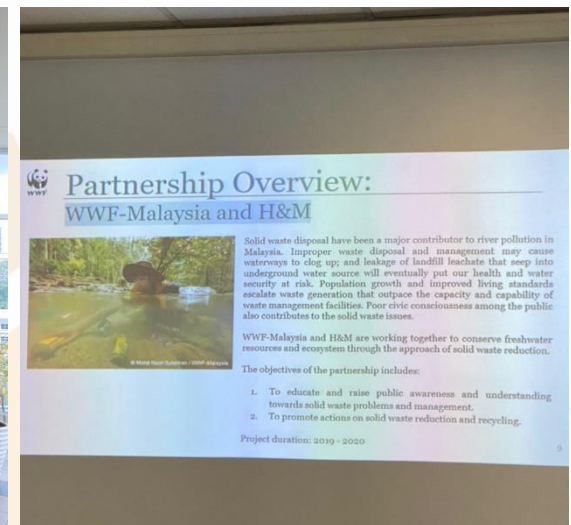


Meeting: UM Eco-Campus (Water Warriors & UM ZWC) & WWF-Malaysia WWF-Malaysia

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

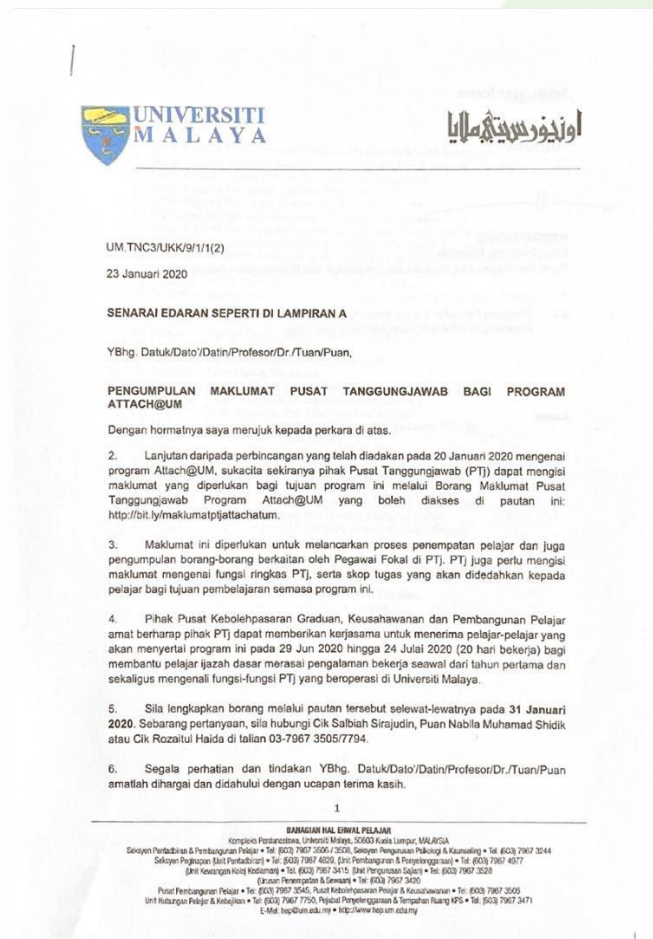


Attach@UM Program 2020 hosted by DVC (Student Affairs)

Date : 20 Jan 2020 (Monday)

Time: 3:30 pm - 4:30 pm

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



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

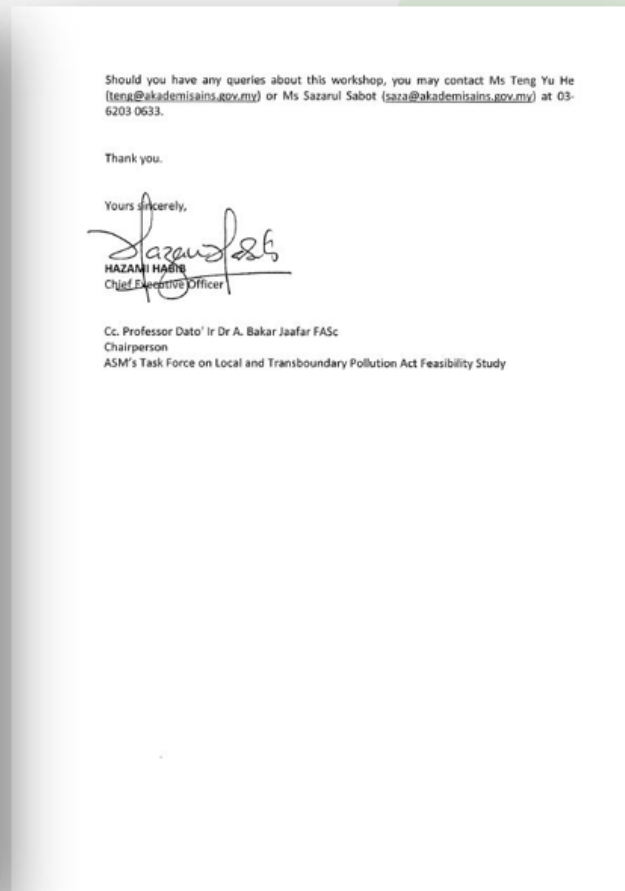
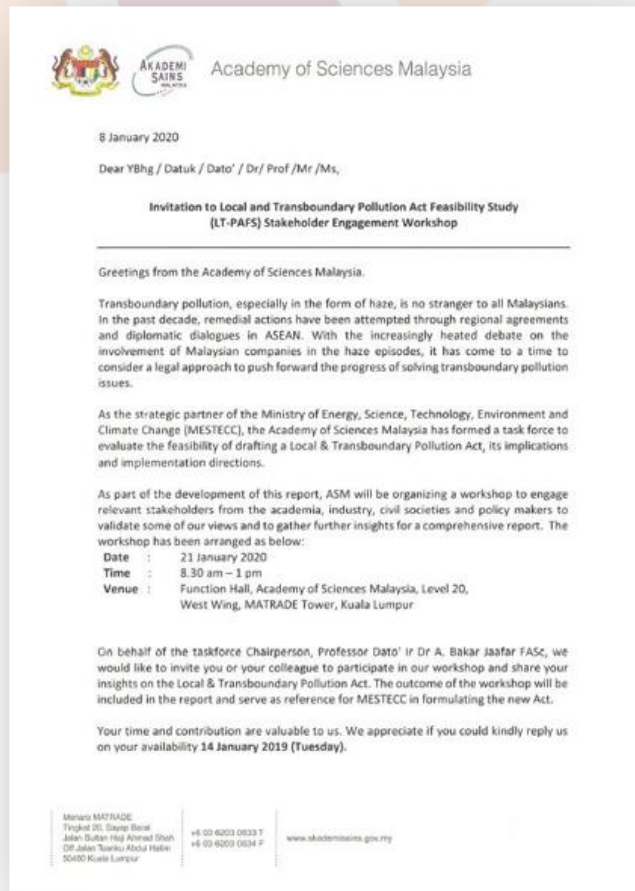


Academy of Sciences Malaysia (ASM)'s Stakeholders Engagement Workshop on Local and Transboundary Pollution Act 2020

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



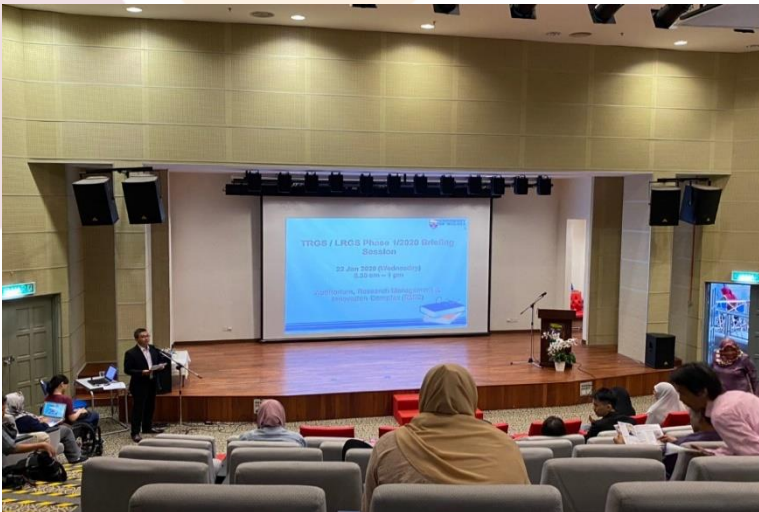
Professor Sumiani presenting academia perspective and proposed solution on local and transboundary pollution at the ASM's Stakeholder Engagement Workshop 2020

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 Malaysia



YBhg. Datuk Ir. (Dr.) Abdul Rahim Hj. Hashim
23 Januari 2020 (Khamis) • 9.30 pagi • Dewan Tuanku Canselor, Universiti Malaysia



UM Profile

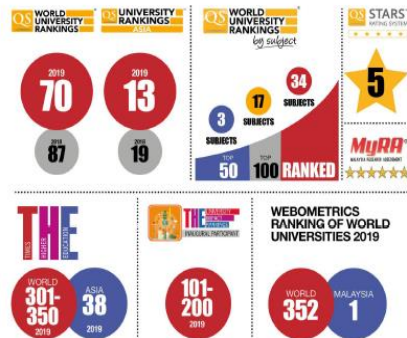


Note: Figures as of 31 December 2019



UM Achievements

Rankings & Ratings



Notable Awards



Opportunities

FRAMEWORK OF SHARED PROSPERITY VISION 2030



Universiti Malaysia 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

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
 Area 9, Blok 2, Menara 2
 Jalan PHS, Presint 5
 62500 PUTRAJAYA
 MALAYSIA
 Tel: 603-8970647
 Faks/Fax: 603-8970842
 Portal Raimi: nsp3jpt.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 Hishar
 Naib Canselor, Universiti Malaysia

YBhg. Tan Sri/ Dato'/ 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 menanak perhatian YBhg. Tan Sri/ Dato'/ Dato'/ Datin Paduka/ Prof. mengenai perkara di atas.

2. Untuk makluman pihak YBhg. Tan Sri/ Dato'/ 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/ Dato'/ Dato'/ Datin Paduka/ Prof. Dapat mempertimbangkan inisiatif ini agar dapat dilaksanakan di semua universiti awam (UA).

Menyurat di fon
 1) Iqbal
 2) Hap
 3) Pinta I/mu
 4) Eco campus
 5) wakil pelajar

PROFESOR DR. ANNE-ANNE ABDEL SAMAN
 Naib Canselor (Pembangunan)
 21/1/2020

4. Segala kerjasama dan perhatian daripada YBhg. Tan Sri/ Dato'/ 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 MESTECK
 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

The background features a collection of colorful, semi-transparent geometric shapes, primarily triangles and trapezoids, arranged in a circular pattern around the center. The colors include shades of orange, pink, light blue, teal, and grey.

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

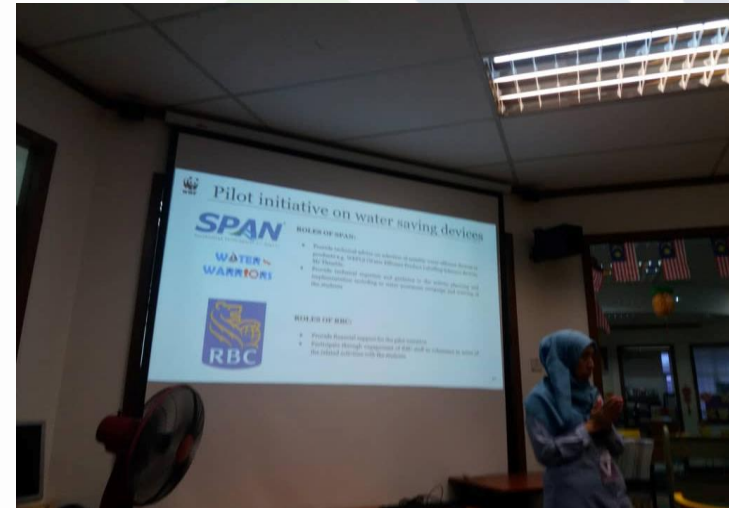


UM Living Lab - Water Warriors UM on Water Saving Device Project: Educational Program Training of Trainers (ToT) with Sri KDU (Primary)

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

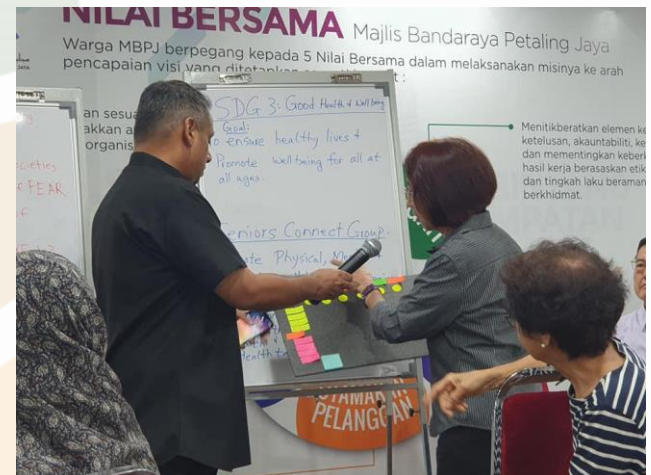


Sustainable Development Goals (SDGs) Champions 'Baseline Data Formulation & Acquisition Workshop

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. NurulAfiqah 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 (JKEKOUUM) 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

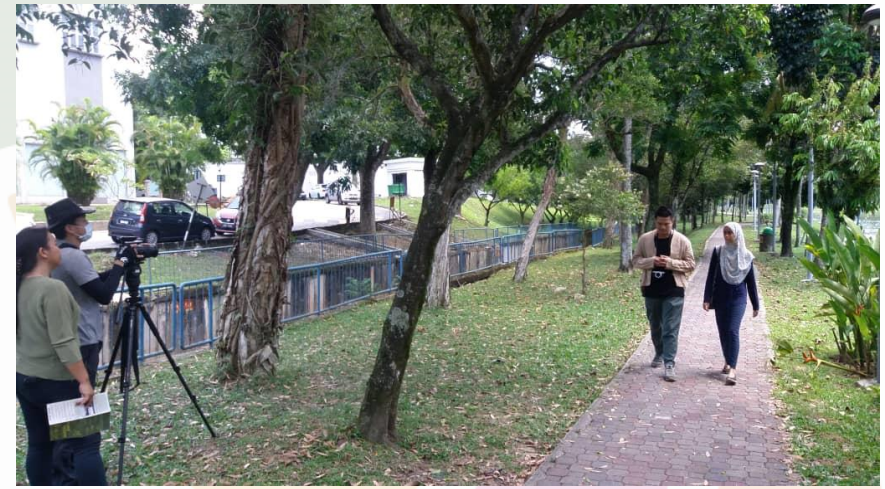


UM Sustainability & Living Labs Secretariat's TV Interview Session with Thai Public Broadcasting Service (Thai PBS)

Date : 28 Feb 2020 (Friday)

Time : 10:00 am – 1:30 pm

Venue : Tasek Varsity and Samali Tree



The background features a series of colorful, semi-transparent geometric shapes, primarily triangles and trapezoids, arranged in a circular pattern around the center. The colors include shades of orange, pink, light blue, grey, and green.

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

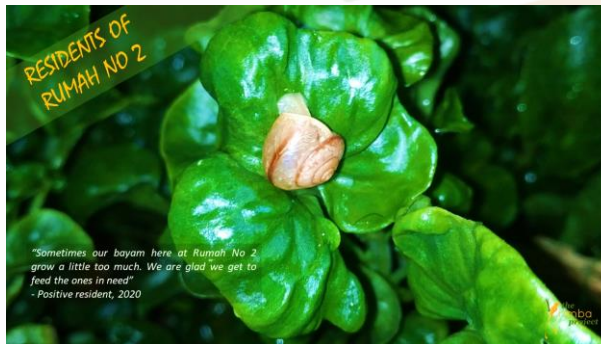
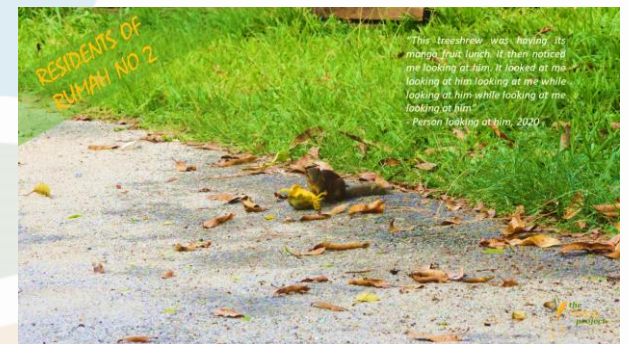
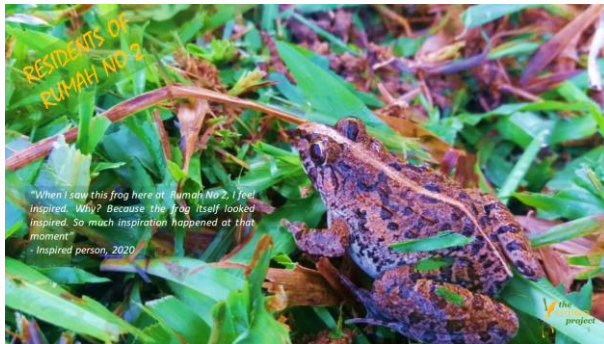
Venue : UM Sustainability & Living Labs Secretariat



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 features a series of colorful, semi-transparent geometric shapes, primarily triangles and trapezoids, arranged in a circular pattern around the center. The colors include shades of orange, pink, light blue, grey, and green.

UMSLLS Events 2020

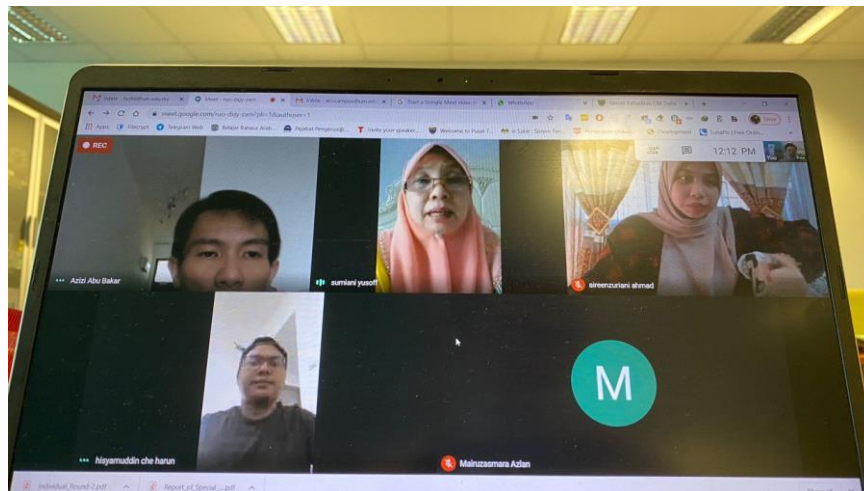
April

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

The screenshot displays a Google Meet interface. At the top left, a status bar indicates "Anuar senin is presenting". The main window shows a PowerPoint presentation titled "SLIDE MEETING PERTANDINGAN UMCARES 21 APRIL.pptx - PowerPoint". The presentation slide features the text "UMCares Squad Community Award" on the left and a list of requirements on the right:

- 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

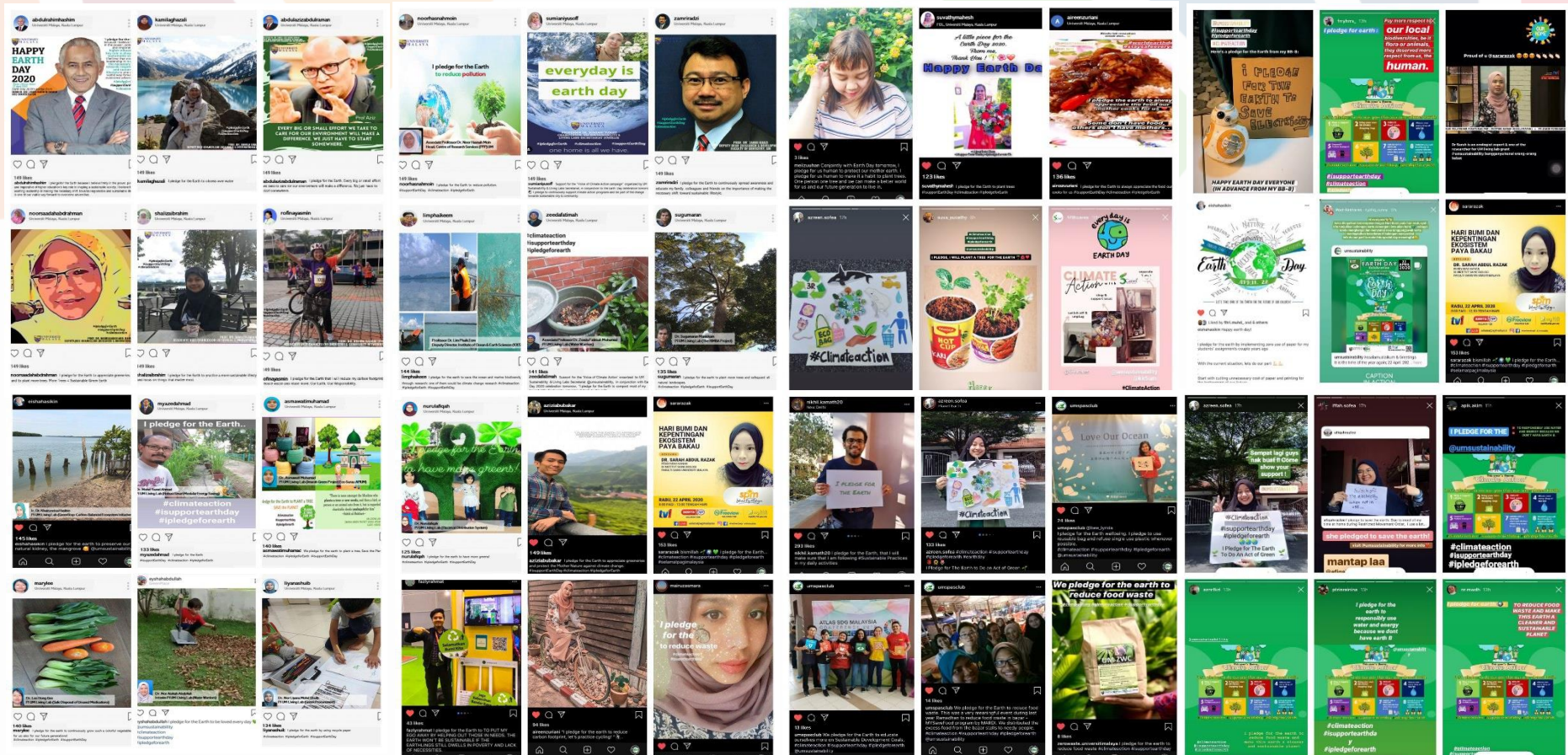
On the right side of the screen, there are three video feeds of participants: Anuar senin (top), NOR AZLIN BINTI MAT RADI (middle), and MOHD FADHLI BIN RAHMAT FAKRI (bottom). The top right corner shows a user count of 5 and a chat icon.

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

Date : 22 April 2020 (Wednesday)

Time : 12:00 pm

Platform : UMinfo



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's 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 (*Trachypithecus 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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IN COLLABORATION
WITH

SUNPRINT
STUDIO



The background features a collection of colorful, semi-transparent geometric shapes, primarily triangles and trapezoids, arranged in a circular pattern around the center. The colors include shades of orange, pink, light blue, grey, and green.

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 alumna 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.



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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The background features a series of colorful, semi-transparent geometric shapes (triangles and trapezoids) arranged in a semi-circular pattern, resembling a stylized sun or a decorative border. The colors include shades of orange, pink, light blue, and grey.

UMSLLS Events 2020

June

UM Eco-Challenge Virtual Assessment

Date : 3rd June 2020 (Wednesday)

Time : 10:00 am – 12:00 pm

Platform : Google Meet

Khairina 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) Overflow 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

Hayyan Zarawi is presenting

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

Apply QR Code and reuse recycled paper for campaign.

Amazing Race

Hayyan Zarawi is presenting

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

Bring Your Bekal campaign.

Bring Your Bekal
@ Cole K17 / Cole Cheery

Atiq 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

NORSYAHMINANI BINTI ZAMANI is presenting

POSTER

Zero Waste

ZABA 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 discarded recyclables, such as plastic, aluminium cans, and cardboard.

TARIKH : 1 DESEMBER 2017
TEMPAT : KOLEJ KEDAHAN KEMBALU
MASA : 11 HARI - 12 TENGAHARI
"GLORY IN GIVING"
@POTONGAN @POTONGAN

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 EDMAT Participants
- Any activity that involved more than 200 people
- Collect plastic bottles from K112 residential college
- Use collected plastic bottles as materials for boat making
- Hold a bonding competition at Task Variety
- All plastic bottles will be recycled

Allyyah 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

FRIDAY | JUNE | 10:30AM 2020

Google Meet

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 Malaya

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 Malaya

24th World's Most Sustainable University (2018)
Universiti Malaya (UMSLLS) / All copyright reserved © 2020

10th in THE UIR SDGs Rankings (2020)

Diamond Rating Best Practice 1 in Low Carbon Cities Framework (2017)

Participants: ZEEDA FATMAH... and 69 more, SUMIANI YUSOFF, hanali ghazali, puzze taha, TAN SIU CHING, Chan, Soo Chin Woon, EOCAMPUS ADMIN..., Nagammal Dhanapal, m, mumta tan



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.unenvironment.org/global-action/world-environment-day>

Participants: Poojai Lee and 80 more, SUMIANI YUSOFF, hanali ghazali, puzze taha, TAN SIU CHING, Soo Chin Woon, EOCAMPUS ADMIN., Mirza Sadiq, Anni Mitin, Joe Harry



REC

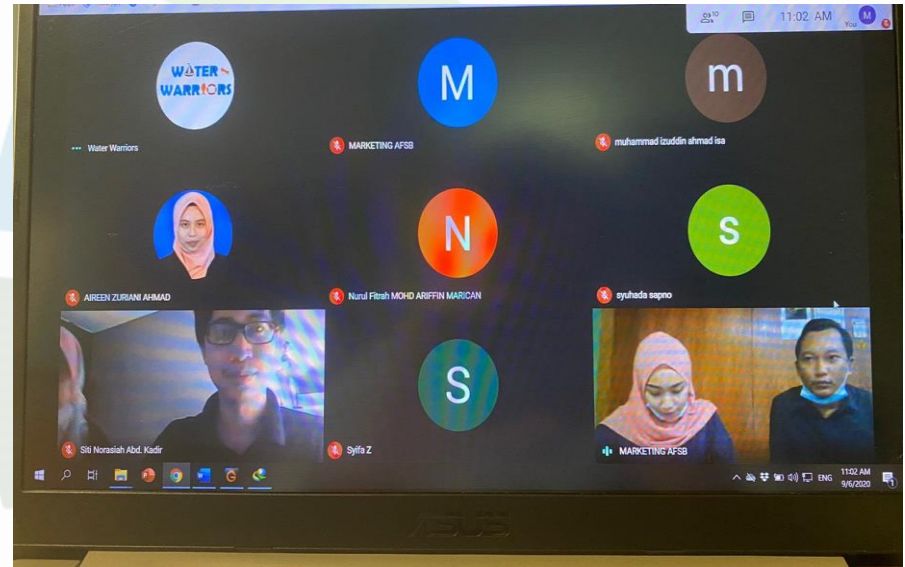
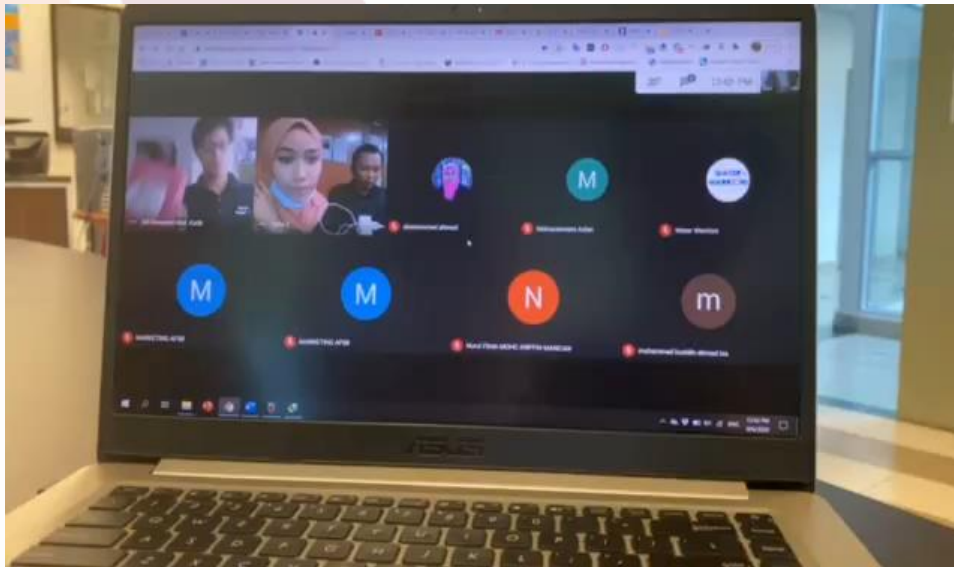
Participants: mumta tan and 59 more, hanali ghazali, EOCAMPUS ADMINISTRATOR, TAX Yap Leong, SITI KHADIJAH ZAABA, ZUL KHAM BIN ZULKIFLEE LUBES, Dr Farha Halizah H Siraj, TAN SIU CHING (sorry! had no camera in office)

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
الأكاديمية الوطنية للتعليم العالي
National Higher Education Leadership Academy
Center of Knowledge and Innovation

Join us Register here: <https://forms.gle/d9KwVmc7w7fng26>
Webinar platform: Zoom
Live Streaming: You Tube
- IUM Streaming <http://www.youtube.com/channel/UC55au2ZerD3vLamrmaZNg>

"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)

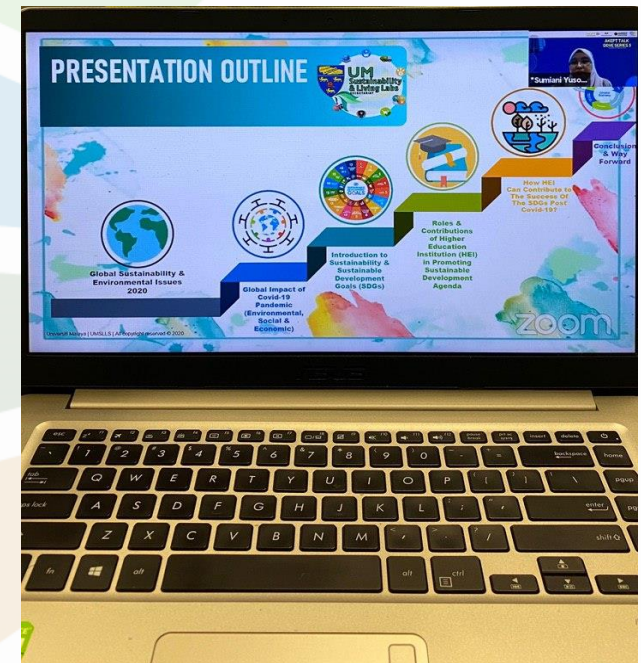
Moderator
Assoc. Prof. Dr. Mukhzeer Mohamad Shahimin
Deputy Director, Centre Leadership Development (AKEPT)

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

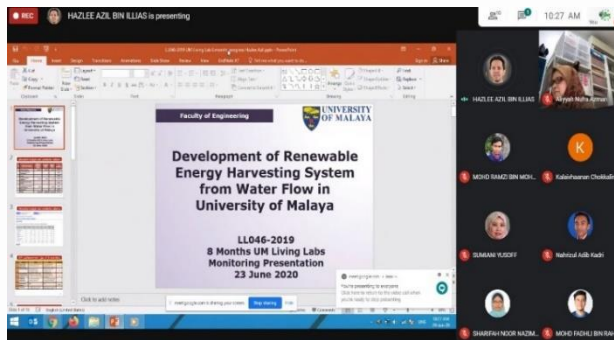
Time: 9:30 am – 10:00 am



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

Principle Investigator: Dr. Sugumaran A/L Manickam

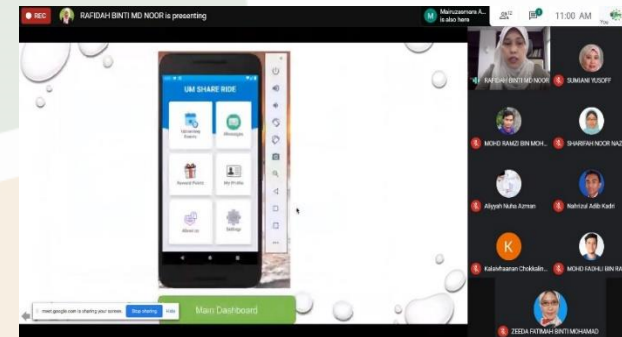
Time: 10:00 am – 10:30 am



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

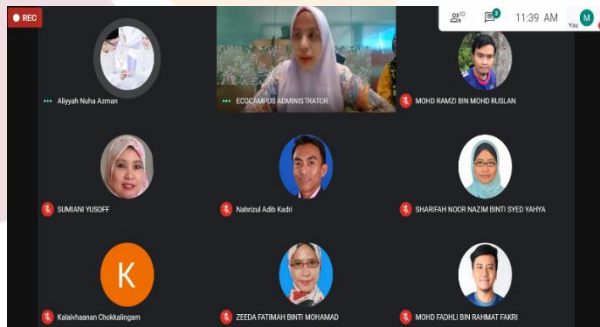
Time: 11:00 am – 11:30 am

UMLL 8-Months Virtual Monitoring Workshop – Group A

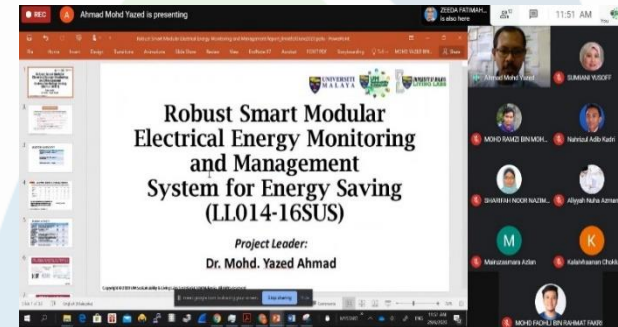
Date : 29th June 2020 (Monday)

Time : 9:30 am – 1:00 pm

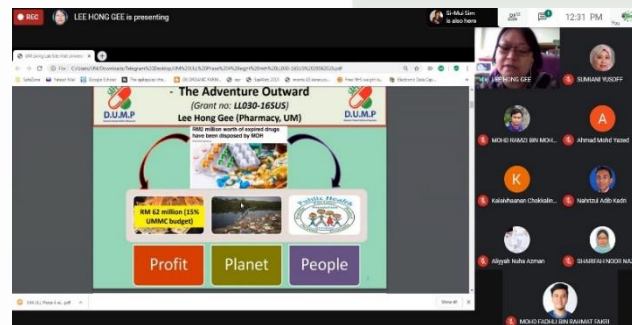
Platform : Google Meet



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



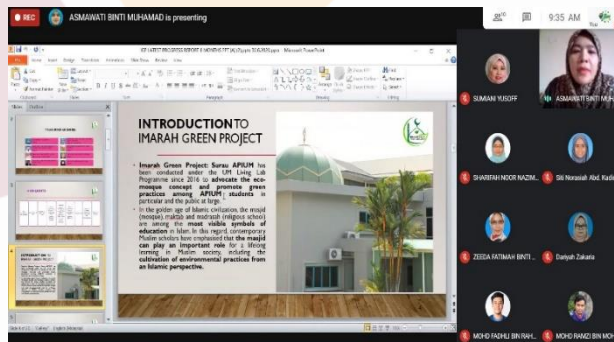
LL030-16SUS: Safe Disposal of Unused Medications - The Adventure Outward (Phase 4)
Principle Investigator: Dr. Lee Hong Gee
Time: 12:30 pm – 1:00 pm

UMLL 8-Months Virtual Monitoring Workshop – Group B

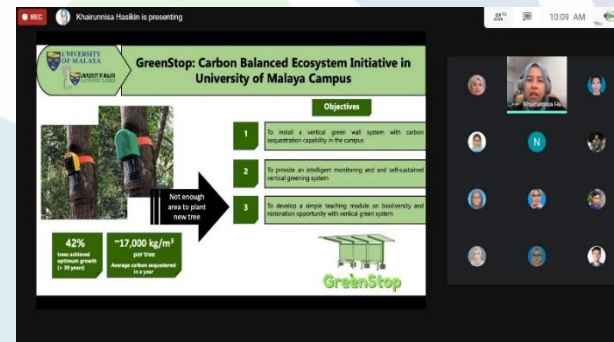
Date : 30th June 2020 (Tuesday)

Time : 9:30 am – 12:30 pm

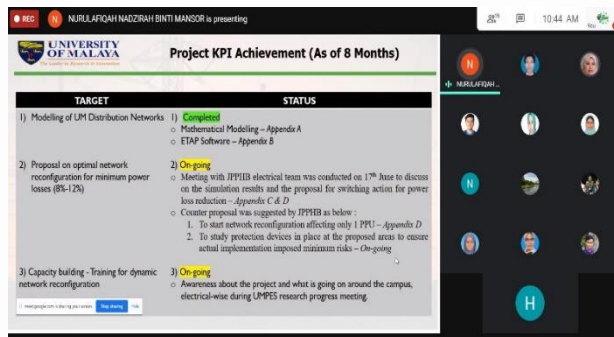
Platform : Google Meet



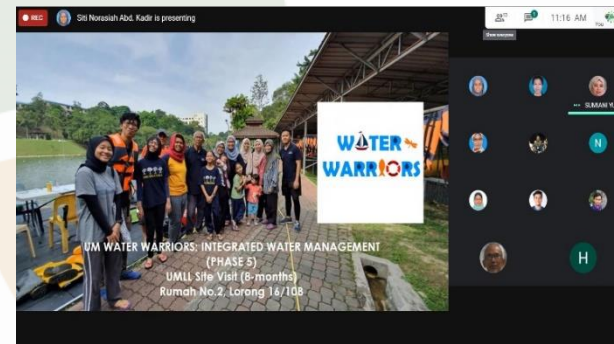
LL031-16SUS: Transforming the Role of Surau APIUM for Campus Sustainability through Ijarah Green Project (Phase 4)
Principle Investigator: Dr. Asmawati Muhamad
Time: 9:30 am – 10:00 am



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



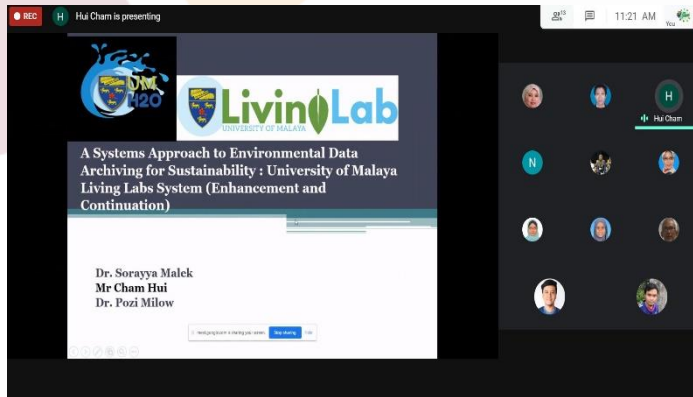
LL002-15SUS: UM Water Warriors: Integrated Water Management (Phase 5)
Principle Investigator: Dr. Nor Aishah Abdullah
Time: 11:00 am – 11:30 am

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.

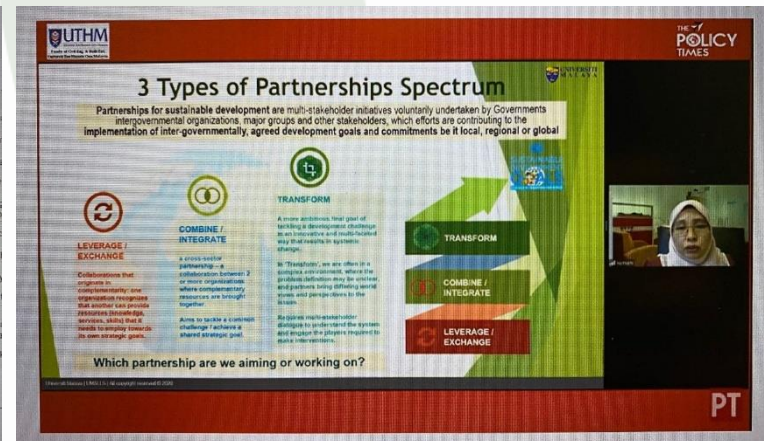


AP Dr. Mohd Remy Rozainy Mohd Arif Zainol, Deputy Director, River Engineering & Drainage Research Center (REDAC), USM, Malaysia.



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"



The background features a collection of colorful, semi-transparent geometric shapes, primarily triangles and trapezoids, scattered across the page. The colors include shades of orange, pink, light blue, grey, and green. The shapes are arranged in a way that they appear to be floating or overlapping, creating a dynamic and modern aesthetic.

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

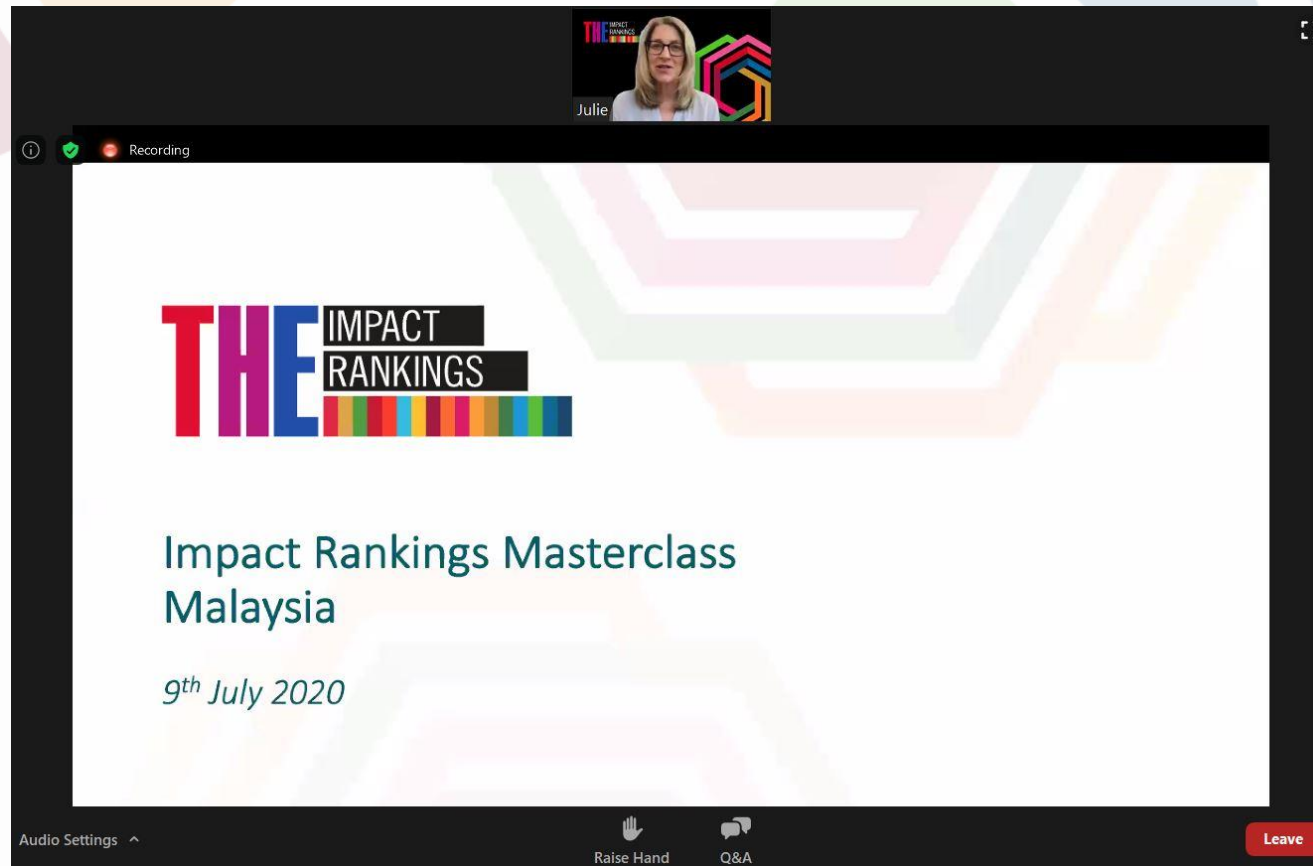


THE Impact Rankings Masterclass Malaysia Webinar

Date : 9 July 2020 (Thursday)

Time : 3:00 pm – 4:30 pm

Platform : Zoom



The screenshot shows a Zoom webinar interface. At the top, there is a video thumbnail of a woman named Julie. Below it, a 'Recording' indicator is visible. The main content area displays a presentation slide with the following text:

THE IMPACT RANKINGS

Impact Rankings Masterclass
Malaysia

9th July 2020

At the bottom of the Zoom window, there are controls for 'Audio Settings', 'Raise Hand', 'Q&A', and a 'Leave' button.

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

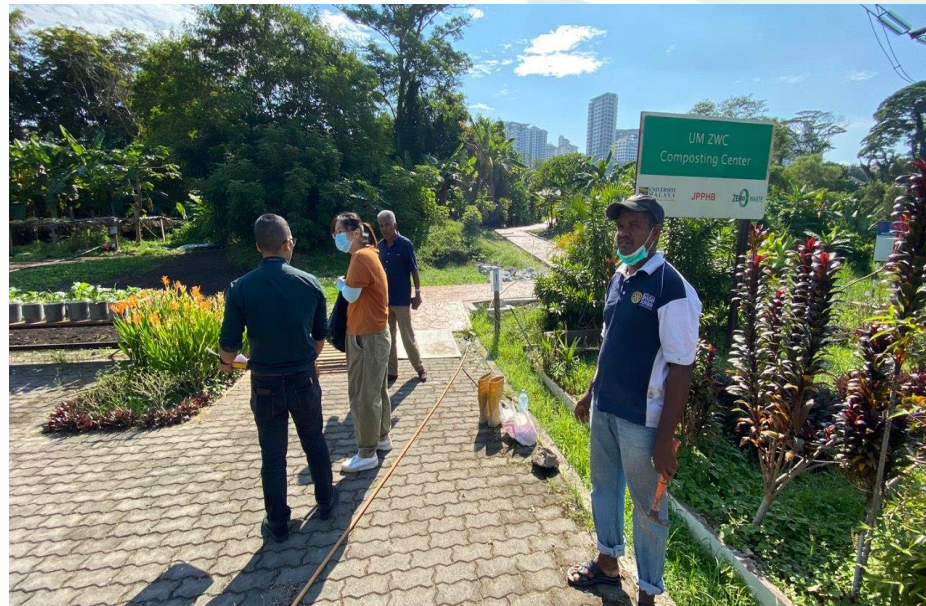


Plastic Aggregates Project (LL045-18SUS) site visit to UM ZWC

Date : 15 July 2020 (Wednesday)

Time : 10:00 am – 12:00 pm

Venue : UM ZWC

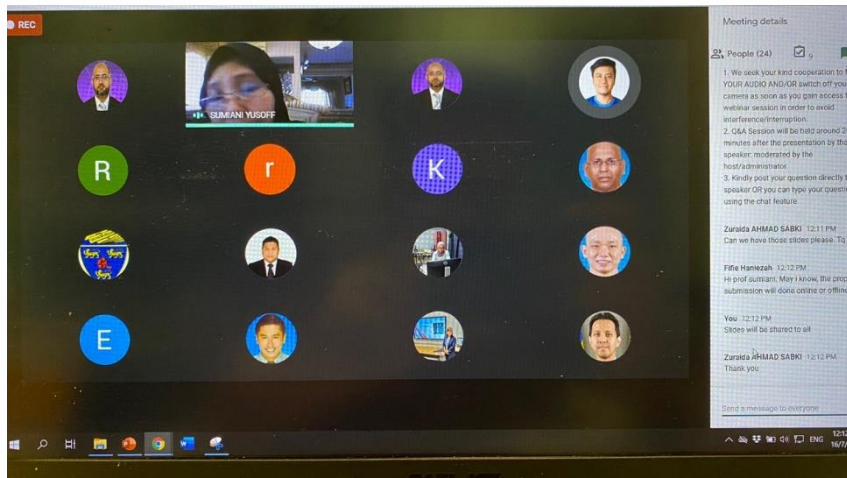


UM Living Labs Clinic 2020/2021

Date : 16 July 2020 (Thursday)

Time : 11:00 am – 12:30 pm

Platform : Google Meet

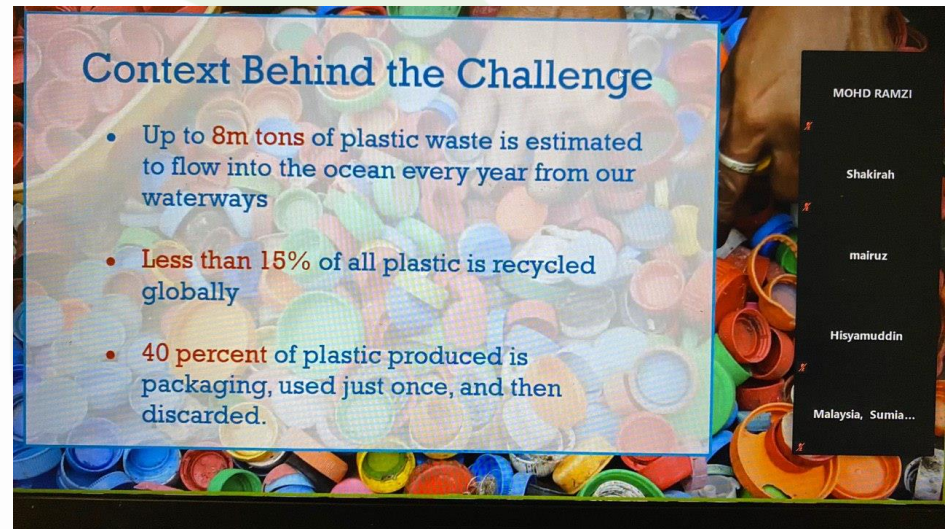
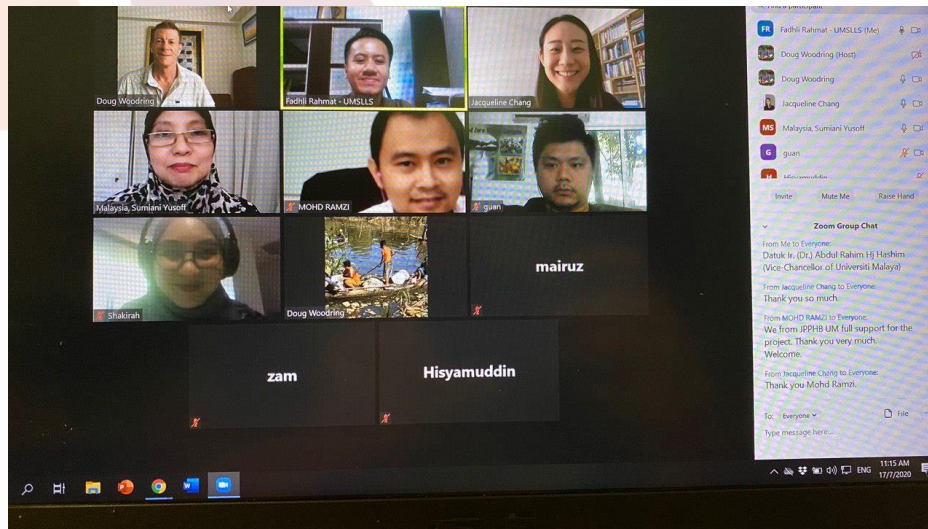


Plastic Disclosure Project (PDP): 1-2-1 Consultation between United Nations Environment Programme (UNEP), PDP (Ocean Recovery Alliance) and UM (UM ZWC)

Date : 17 July 2020 (Friday)

Time : 10:00 am – 12:00 pm

Platform: Google Meet



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 **UM Sustainability Living Lab** **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

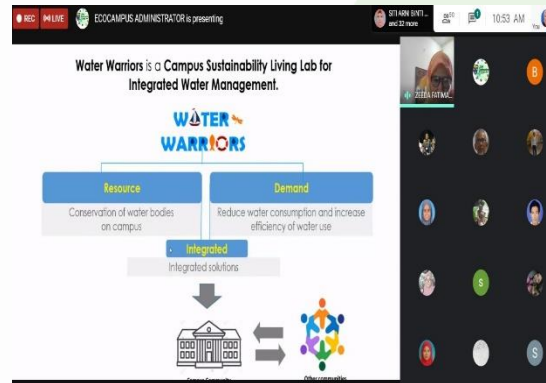
THURSDAY | 23rd JULY | 10:30AM 2020

Google Meet

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

Joining: UM Water Warriors Members - Dr. Abdul Malik Sulaiman (Lecturer & former Professor), J.P.O. Hazreena Hussaini (Faculty of Built Environment), Dr. Fatimah Mohamed Zaki (Faculty of Engineering), & Dr. Nur Anisah Abdillah (Faculty of Science)

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



Water Warriors is a Campus Sustainability Living Lab for Integrated Water Management.

Resource
Conservation of water bodies on campus

Demand
Reduce water consumption and increase efficiency of water use

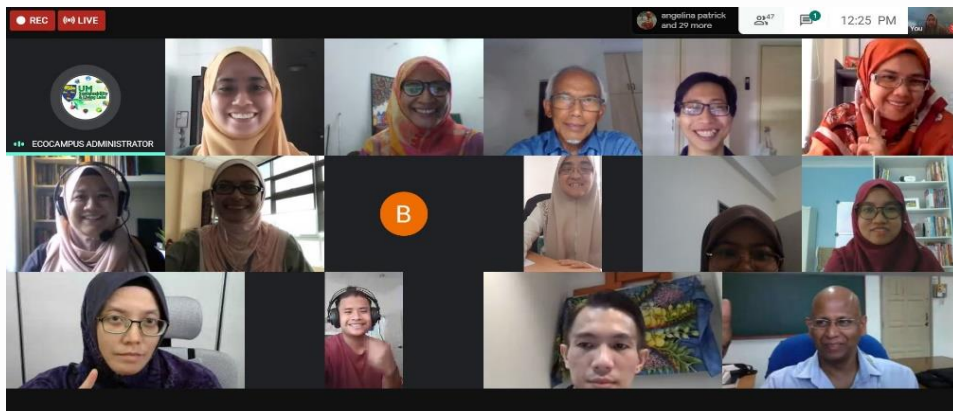
Integrated
Integrated solutions

Office & Environmental Education Space

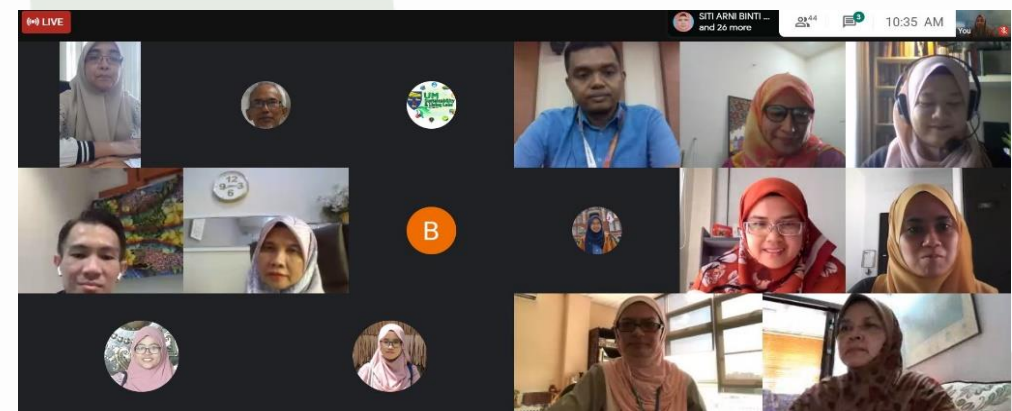


Office & Environmental Education Space

The Star
July 16 at 3:42 PM
An old University Malaya (UM) has been transformed into a chic living space by host of the university's sustainable advocacy groups, the Simba Project and Water Warriors. The refurbished has is located in the compound of Pulau No.2, Universiti Malaya and available for rental.



Webinar grid showing participants in a Google Meet session. The grid includes a host icon for 'ECCAMPUS ADMINISTRATOR' and several participant video feeds.



Webinar grid showing participants in a Google Meet session. The grid includes a host icon for 'SITI ARNI BINTI' and several participant video feeds.

The background features a collection of colorful, semi-transparent geometric shapes, primarily triangles and trapezoids, scattered across the page. The colors include shades of orange, pink, light blue, teal, and grey. The shapes are arranged in a way that they appear to be floating or overlapping, creating a vibrant and abstract pattern.

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

**Advancing Engineering
and Sustainable Development –
A way forward for Sustainable World**

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

**12 Guiding Principles of
Engineering for Sustainable Development**

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.

Source: The Royal Academy of Engineering, London

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 - Ecolnights 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)



The background features a circular arrangement of colorful, semi-transparent geometric shapes, including triangles and trapezoids, in shades of orange, pink, light blue, and grey, creating a sunburst or fan-like effect.

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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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, 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”