

mysun 2022

1st Malaysia Sustainable
University Network
National Conference 2022

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



Proceedings of the 1st Malaysia Sustainable University Network National Conference (MYSUN) 2022



15-16 MARCH 2022



UNIVERSITI MALAYSIA SABAH

Organisers:



UMS
UNIVERSITI MALAYSIA SABAH



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

Co-Organisers:



**1st Malaysia Sustainable University
Network National Conference 2022
(MySUN 2022)**

15-16 March 2022

**Abstract Conference Proceedings of
MYSUN 2022**

**Sustainability and Energy Efficiency at
HEIs**

First Edition 2022

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Perpustakaan Negara Malaysia
Cataloguing-in-Publication Data

Shamsul Sarip, Abentin Estim, Muhammad Irfan Shahrin, Syafiqah Saufie, Nur Efah Arsin and Saleem Mustafa
1st Malaysia Sustainable University Network National Conference 2022

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Published in Malaysia by

Campus Sustainability Office
Universiti Teknologi Malaysia
81310 Johor Bahru
Johor
Malaysia

Tel: +60(0)7 5533151 / 33152 / 33155
Web page: <https://sustainable.utm.my/>

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The 1st MYSUN National Conference 2022

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WELCOMING SPEECH



**Professor Datuk ChM. Ts. Dr.
Taufiq Yap Yun Hin
Vice-Chancellor
Universiti Malaysia Sabah**

It is my pleasure to welcome all the participants of this 1st Malaysia Sustainable University Network National Conference (or MYSUN2022).

I am glad to see so much of cooperation and collaboration among the universities in Malaysia, namely, Universiti Malaysia Sabah, Universiti Teknologi Malaysia, Universiti Putra Malaysia, Universiti Teknologi MARA, Universiti Malaysia Pahang and Multimedia University Malaysia, together with our international counterparts, namely, Universitat de'Alicante, Universita Degli Studi Di Genova and FH Joanneum University of Applied Sciences.

I must thank the Ministry of Higher Education of Malaysia for supporting this remarkable partnership.

I find merits in this sort of a network approach to sustainability topics because the knowledge base of universities is always expanding and interdisciplinary expertise is widely dispersed, and organizational synergies can be a catalyst for forging R & D alliances for achieving the shared goals.

With so many institutions in the country and abroad involved in this conference, it is appropriate to organize it in a hybrid mode. I am sure, it has increased the attendance while saving time, and reducing travel and environmental costs. A conference related to sustainability should obviously consider environmental footprint of our activities.

I have no doubt the institutions of higher education should leverage their resources for a sustainable future. They can and should play a much stronger role in this endeavor. A conference such as this one provides a highly interactive platform to discuss new possibilities and to explore avenues for expanding the role of universities in sustainability. If many universities in the country and abroad are committed to strengthening the sustainability-related topics in their educational systems and inculcating the sustainability practices, one can be optimistic about the positive outcomes.

Looking at the various themes identified for deliberations in this conference, ranging from energy, climate change, natural resources, food security, engineering, green technology, and information & communications Technology, and social sciences, it will be possible to identify ways in which sustainable development can be further embedded in the ethos of higher education. This will resonate with the shared values of global institutions striving for the wellbeing of the society in a changing climate.

Universities are carrying out research in all these and other areas, and are aware of international treaties, conventions, and declarations such as UN Sustainable Development Goals, that require us to go beyond teaching and research, to influence policies and implement their evidence-based findings to actively drive sustainable development. I think it will be very inspiring to all sections of the society if the sustainability policies demonstrate the benefits accruing to the communities.

In this context, we should continue to emphasize on making full use of emerging technologies of the Fourth Industrial Revolution that have the potential of facilitating a rapid transition towards sustainable development. The rate at which the climate is changing requires us to enforce protection of natural capital, conserve biodiversity and reduce environmental impacts using these technologies.

I am glad to see university campuses are humming up with activities related to sustainability. It goes to the credit of MYSUN and the European Union's ERASMUS+ program for infusing momentum into several on-going and growing sustainable university campus initiatives.

I would like to thank all the organizing committees, keynote and plenary speakers, and oral and poster presenters for their efforts for contributing towards the success of this conference.

I must thank all the partner universities in Malaysia and Europe for their remarkable enthusiasm and cooperation in promoting the sustainability agenda in various forms.

I welcome all the participants, whether they are attending physically or virtually to this conference. I hope all the participants will gain new knowledge through insightful presentations and inspiring discussions, and they will emerge more committed to the cause of sustainability.

With these remarks, I am pleased to OPEN this conference.

Thank you.



FOREWORD



**Associate Prof. Dr. Mohd
Rahimie Abd Karim
Chairman
1st Malaysia Sustainable
University Network National
Conference (MySUN) 2022**

Assalaammu'alaikum wr. wb. and very warm greeting from Universiti Malaysia Sabah (UMS),

It gives me great pleasure to welcome all the respected participants of the "1st Malaysia Sustainable Network National Conference 2022 (MYSUN 2022)" to UMS main campus here in Kota Kinabalu, on the 15th to 16th of March 2022.

Indeed, as a university committed to sustainability initiatives, UMS feels honoured to be selected as the host of the first MYSUN national conference. Our support to sustainability is reflected from the establishment of the Ecocampus Management Centre and the introduction of sustainability-related subjects in our undergraduate academic programmes. In addition, promoting sustainability is also one of the main strategic initiatives in the UMS Strategic Plan.

Despite the COVID-19 pandemic, this conference has attracted a total of 179 participants, thus reflecting an overwhelming response to the conference and the great interest on the conference theme. Due to the COVID-19 pandemic however, the participants are offered either to present virtually or to attend the conference physically subject to the strict compliance to the standard operating procedure to contain the spread of COVID-19.

MYSUN 2022 conference is particularly significant not only because it is the first conference under the MYSUN project but also because the conference provides a platform for academics, sustainability experts and industry players to gather and exchange information that are vital in promoting sustainability efforts particularly in Malaysia. Therefore, I hope the success of this conference will pave the way for more interesting and impactful MYSUN conferences in the future.

We would like to extent our sincere appreciation especially to our Co-Organiser, Universiti Teknologi Malaysia (UTM), as well as to all MYSUN university partners in Malaysia. Our utmost gratitude also goes to ERASMUS+ Programme of the European Union as the main sponsor of the MYSUN initiatives in Malaysia.

I wish all of you a pleasant stay at Kota Kinabalu and a fruitful conference.

Best regards,

*Assoc. Prof. Dr. Mohd Rahimie Abd Karim
Chairman*



FOREWORD



**Professor Ir. Dr. Sharul Kamal
Abdul Rahim
Co-Chairman
1st Malaysia Sustainable
University Network National
Conference (MYSUN) 2022**

The honorable Vice Chancellor of Universiti Malaysia Sabah, dear distinguished guests, Keynote speakers, Plenary speakers, participants, ladies, and gentlemen, on behalf of the organizing committee, I would like to welcome you all to the 1st Malaysia Sustainable University Campus Network National Conference 2022 (MYSUN 2022).

The 1st National Conference & Workshop is hosted by Universiti Malaysia Sabah and Universiti Teknologi Malaysia. Due to the ongoing global Covid-19 pandemic, the conference is being organised in a hybrid format, with possibility for in-person and online participation. The conference consists of eight topics of interest, namely Engineering and Application, Social Sciences and Humanities, Business & Finance, Energy & Climate, Project Management, Sustainable Green Technologies, Climate Change and Meteorology and Information and Communications Technology. In addition the conference invited four renowned speakers - Prof. Emer. Helga Kromp-Kolb, Prof. Dr. Johan Lilliestam, Prof. Dr. Nor Kamariah Noordin and Prof. Ir. Ts. Dr. Zainuddin Abd Manan.

The 1st MYSUN 2022 could not become a reality without the support and assistance of many parties. On this occasion, I would like to sincerely thank the Erasmus+ Programme of the European Union for co-financing the program, Universiti Putra Malaysia as the coordinator, Universiti Malaysia Sabah (UMS), together with co-organiser Universiti Teknologi Malaysia (UTM) and other MYSUN Partners in Malaysia and EU, keynote speakers, plenary speakers and all members of the Organizing Committee. I would also like to thank the authors, reviewers, all speakers, and session chairs for their support to MYSUN 2022.

In addition to the outstanding scientific program, we hope that you will find time to explore Kota Kinabalu and the surrounding areas. Kota Kinabalu is a city with numerous cultural heritage, natural beauty, and coupled with the friendliness of its people. Lastly, I would like to welcome you to the 1st MYSUN 2022 and wish you all an enjoyable stay in Kota Kinabalu, Sabah.





PLENARY SPEAKER 1

Prof. Ir. Ts. Dr. Nor Kamariah Noordin

Faculty of Engineering
Universiti Putra Malaysia, Malaysia



Nor Kamariah Noordin received her B.Sc degree in Electrical Engineering with a major in Telecommunication from University of Alabama, Tuscaloosa USA in 1987, a Master's degree from Universiti Teknologi Malaysia and a PhD from Universiti Putra Malaysia (UPM). She has been with UPM since 1988 and was appointed associate professor in 2006 and professor in 2012. During her tenure she has been the head of department, deputy dean of academics, Director of Corporate Strategy and Communication of the university and now the Dean of Faculty of Engineering. During her more than 25 years with the university she has published more than 300 journals and conference papers. She has secured more than 30 research and consultancy projects worth USD 5mil in the area of Wireless and Communication Engineering and also Engineering Education.

For the past 5 years she has started to collaborate with European partners in Erasmus and Erasmus+ and had secured 4 capacity building projects totalling to USD 2 mil.

She is the referral person in Outcome based education both at the university and national levels. She is currently the Associate Director of Electrical Engineering branch at the Engineering Accreditation Department. She is also the Vice President of Malaysia Society of Engineering and Technology (MySET).



PLENARY SPEAKER 2

Prof. Ir. Ts. Dr. Zainuddin Abd Manan

Faculty of Engineering
Universiti Teknologi Malaysia, Malaysia



Prof Ir Ts Dr Zainuddin A Manan is a professor of chemical process and energy engineering. He was a UTM Vice President (2017-2021), the Founding Dean of the UTM Faculty of Chemical and Energy Engineering, the Founding Director of UTM Process Systems Engineering Centre (PROSPECT) and the founder of Optimal Systems Engineering Sdn Bhd (UTM Spinoff company). He began his career as a process engineer at PETRONAS and Hume Industries and has been academic leader, educator, entrepreneur, researcher/inventor, consultant and professional coach for over 25 years. He completed over R&D and industrial 100 projects, owned/filed 25 patents/copyrights and has over 500 publications that include 20 books/chapters, 230 refereed journals and 270 conference proceedings on sustainable planning and engineering of resources (focusing on energy, water and emission reductions).

Contributed as plenary/keynote/invited speaker for over 400 conferences/seminars/professional workshops globally; including his 2014 Imperial College Chemical Engineering Distinguished Lecture. Coached professionals from more than 500 organisations. A certified trainer for Malaysia and ASEAN energy managers accreditation. Winner of 2008 Prince Sultan Abdul Aziz International Prize for Water. Awarded a Fellow of Academy of Sciences Malaysia (ASM), Fellow IChemE (UK) and a Top Research Scientist Malaysia. First in UTM to be simultaneously awarded both the UTM Outstanding Researcher and UTM Outstanding Academician (2014).

A UK/EU chartered engineer, a professional engineer, a professional technologist, a certified energy manager, a registered electrical energy manager and a certified professional coach. Appointed the vice-chairman of Board of Judges for ASEAN Energy Awards program. Chairs the ASM Energy Committee and the KeTSA Energy Efficiency and Conservation Act (Thermal Energy) Drafting Committee. Served as the technical advisor for the Malaysia Economic Planning Unit Sustainable Consumption and Production Project. Founded and led the UTM sustainable energy management transformation program to achieve Certified 3 Star energy-efficient organisation, USD 7 million energy savings between 2011 and 2020, and to win the ASEAN Energy Award.

KEYNOTE SPEAKER 1

Professor Emeritus Dr Helga Kromp-Kolb

Centre for Global Change and Sustainability

University of Natural Resources and Life Sciences Vienna, Austria



Prof. Helga Kromp-Kolb was the Head of the Institute of Meteorology and of the Center for Global Change and Sustainability at the University of Natural Resources and Life Sciences, Vienna (BOKU), where she has also been a full professor since 1995.

Her expertise in environmental meteorology, air pollution, and climate change has seen her play key advisory roles in government, academia and civil society. These positions include for the Austrian government: A member of the scientific advisory board of the Austrian Federal Ministry of Defense and Sports since 2009; and an Advisor to the Experts Panel of the Climate and Energy Fund of the Austrian Government where she worked closely with IIASA Deputy Director General Professor Nakicenovic on the Austrian Panel on Climate Change. In academia, Prof Kromp-Kolb has been a scientific advisor to the Potsdam Institute for Climate Impact Research from 2008-2015 and is a founding member of the Alliance of Sustainable Universities in Austria among many other appointments in academia. While for civil society, most notably she has been a scientific advisor to the World Wide Fund for Nature.

Having gained her doctoral degree from the University of Vienna in 1971 along with a Habilitation in Meteorology eleven years later, Prof Kromp-Kolb has gone on to achieve an award-winning career. Awards include being named Austria's scientist of the year in 2005, winning the WWF Panda Award in 2006, and being awarded the Un Bosco per Kyoto award for her service toward the defense of the environment and the quality of the air in Austria.

KEYNOTE SPEAKER 2

Prof. Dr. Johan Lilliestam

Institute for Advanced Sustainability Studies
Energy Transitions and Public Policy, Germany



Prof. Dr. Johan Lilliestam leads the Energy Transitions and Public Policy group at Institute for Advanced Sustainability Studies (IASS). He holds the professorship for Energy Policy at the University of Potsdam. His research focus is policies, strategies and instruments for a transition to a completely climate-neutral, renewable energy system, including the effects of interactions between different energy policies. He currently holds a grant from the European Research Council (ERC).

Before joining IASS, he was Assistant Professor and head of the Renewable Energy Policy Group at the Institute for Environmental Decisions at ETH Zürich, Switzerland, and Senior Scientist in the Climate Policy Group, also at ETH Zürich. He obtained his PhD in Environmental Science and Policy from at the Central European University in Budapest, Hungary, in 2013. From 2007-2013, he was a researcher at the Potsdam Institute for Climate Impact Research (PIK) and from 2009-2013 at the International Institute for Applied Systems Analysis (IIASA) in Laxenburg, Austria.

CONFERENCE AGENDA

DAY 1 (15 March 2022, TUESDAY)

Time (GMT +8)	Agenda			Venue (On-site Attendees)	Link Zoom (Online Attendees)
8.00 am -8.30 am	Conference Registration			Galeri Majlis	Zoom Link:
8.30 am - 9.30 am	Opening Ceremony by UMS Vice Chancellor				https://zoom.us/j/98459007626?pwd=eVdldGVnYVNxNG45UjRneEdYSGVCQT09
9.30 am - 10.00 am	Breakfast				Passcode : 1234
10.00 am – 12.00 pm	Parallel session 1			Room 1 : Galeri Majlis	Zoom Link
	Room 1 Theme: Energy and Climate	Room 2 Theme : Business and Finance	Room 3 Theme: Information and Communications Technology		Room 1: https://zoom.us/j/93222425322?pwd=M0llcUNOQ1BoZ0lZWw45Q3lUTHo0dz09 Passcode :1234
12.00 pm -12.30 pm	Parallel session Q & A	Parallel session Q & A	Parallel session Q & A	Room 2 : Bilik Mesyuarat Pusat Pembangunan dan Kecemerlangan Akademik (BM PPKA)	Room 2: https://zoom.us/j/94107112926?pwd=RFlweG1UdGlobTkvaGRRbkN0MzlvUT09 Passcode : 1234
12.30 pm - 2.00 pm	Lunch Break			Room 3 : Bilik Mesyuarat Cemerlang (BMC)	Room 3: https://zoom.us/j/99119912652?pwd=WEV3RjUrUnlPSFloKy9pOUhDajdsQT09 Passcode : 1234
2.00 pm - 2.05 pm	MYSUN Project Introduction By Prof. Ir. Dr. Nor Kamariah (UPM) - MYSUN Project Coordinator			Galeri Majlis	Zoom Link:

Time (GMT +8)	Agenda		Venue (On-site Attendees)	Link Zoom (Online Attendees)
2.05 pm - 2.15 pm	Introductory Remark By Project Officer of MYSUN - Ms Karolina Garbaliuskaite			https://zoom.us/j/93197097074?pwd=ZUVSVjVVZ3dFc2Y1NnVLTXNaNVhWZz09 Passcode : 1234
2.15 pm - 2.45 pm	Plenary Speaker 1 : Prof. Ir. Dr. Nor Kamariah (UPM) Title: UPM Campus Sustainability through Development, Research and Teaching Implementation			
2.45 pm - 3.15 pm	Keynote Speaker 1 : Prof. Emer. Helga Kromp-Kolb (EU) Title: Living up to our own expectations. How the Alliance of Sustainable Universities in Austria tries to achieve what it knows it must			
3.15 pm – 5.05 pm	Parallel session 2		Room 1 : Galeri Majlis Room 2 : Bilik Mesyuarat Pusat Pembangunan dan Kecemerlangan Akademik (BM PPKA)	Zoom Link Room 1: https://zoom.us/j/93703447826?pwd=Qml6akNUandhMEtEZ2JyZmo5ajduQT09 Passcode : 1234 Room 2: https://zoom.us/j/99882968667?pwd=UlduZnFoR0ZlZ3E0Z2FjdFVzeFgzUT09 Passcode : 1234
	Room 1 Theme : Sustainable Green Technology 1	Room 2 Theme: Engineering and application & Project Management		
5.05 pm – 5.15 pm	Parallel session Q & A	Parallel session Q & A		
5.15 pm – 5.45 pm	Tea Break and End			

CONFERENCE AGENDA

DAY 2 (16 March 2022, WEDNESDAY)

Time (GMT +8)	Agenda	Venue (On-site Attendees)	Link Zoom (Online Attendees)
8:00 am – 8:15 am	Participant Registration	D'Sireh, Bangunan Canselori UMS	WEBEX Link: https://ums-edu-my.webex.com/ums-edu-my/j.php?MTID=m3ca56cf31d7acb4c9e4fe14aeb85dafa
8:15 am – 8:20 am	Briefing: House rules and operationalising the workshop's focus on the sustainability of the energy sector by Workshop Host by Dr Robert F. Peters, UMS		
8:20 am – 8:25 am	Welcoming Remark: by Prof. Madya. Dr Azali Saudi, EcoCampus Management Centre Director, UMS		
8:25 am – 8:35 am	Introduction: The MYSUN Initiative and the Promotion of Campus Sustainability in Malaysia by Prof. Ir. Ts. Dr. Nor Kamariah Noordin, MYSUN Project Leader, UPM		
8:35 am – 10:05 am	Module #01: Collaborative Development <ul style="list-style-type: none"> • Institutional Support for the Sustainability of Campuses by Prof Dr Mohd. Hasnain Bin Md Hussain, UNIMAS • The Energy Consumption – Conservation Nexus: a Look at Human Resources SDGs at the University – Concepts, Behaviour, Research and Education by Prof. Madya Ts. Dr. Hamzah Ahmad, UMP 		
10:05 am – 10:30 am	Session Break and Refreshment		
10:30 am – 12:00 pm	Module #02: Tapping of Institutional Strength <ul style="list-style-type: none"> • GEIs SDGs – Concept, Research and Education, and Behaviour Moulding by Dr Robert Peters, UMS • Efficient Energy Consumption through the Sharing of Information by Dr Sharifah Rafidah Bt. Wan Alwi, UTM 		

Time (GMT +8)	Agenda		Venue (On-site Attendees)	Link Zoom (Online Attendees)
12:00 pm – 12:30 pm	Workshop adjournment			
12.30 pm - 2.00 pm	Lunch Break			
2.00 pm - 2.15 pm	MYSUN Network's Introduction and Launching		Galeri Majlis	Zoom Link:
2.15 pm - 2.45 pm	Plenary Speaker 2 : Prof. Ir. Dr. Zainuddin Manan (UTM) Title: ASM Energy Consortium (EC) Road-to-Zero			https://zoom.us/j/92465146514?pwd=L09IU0MwdjVuMUFaZnN5Sy9sNndHQZ09
2.45 pm - 3.15 pm	Keynote Speaker 2 : Prof. Dr. Johan Lilliestam (EU) Title: Policies for complete decarbonisation of the energy system: lessons from Europe and past transitions			Passcode : 1234
3.15 pm - 5.05 pm	Parallel session 3		Room 1 : Galeri Majlis Room 2 : Bilik Mesyuarat Pusat Pembangunan dan Kecemerlangan Akademik (BM PPKA)	Zoom Link:
	Room 1 Theme: Social sciences and Humanities	Room 2 Theme: Sustainable Green Technology 2		Room 1: https://zoom.us/j/92274202562?pwd=MGZCTjB6T3U2eDdJWHpkTUJjbndyQT09 Passcode :1234
5.05 pm - 5.15 pm	Parallel session Q & A	Parallel session Q & A		Room 2: https://zoom.us/j/99899386734?pwd=YIFCTjIDQVIVOUhQVysrL1JzTnIEZz09 Passcode : 1234
5.15 pm - 5.45 pm	Closing ceremony by Co-Chair MYSUN2022 Conference, Prof. Ir. Dr. Sharul Kamal Bin Abdul Rahim (UTM)		Galeri Majlis	Zoom Link: https://zoom.us/j/99670643030?pwd=YmRPWk5TdHkydFdSYVFaay9HRjRaZz09 Passcode : 1234
5.45 pm	Teatime and End			

CONFERENCE AGENDA

DAY 3 (17 March 2022, THURSDAY)

****Open only for MYSUN Members**

Time (GMT +8)	Agenda	Venue (On-site Attendees)	Link Zoom (Online Attendees)
8.30 am - 9.00 am	Registration and Breakfast	TBA	
9.00 am - 9.30 am	Study Visit Briefing		
9.30 am - 11.00 am	Study Visit Part 1		
11.00 am - 11.30 am	Tea Break		
11.30 am - 1.30 pm	Study Visit Part 2		
1.30 pm - 2.30 pm	Lunch Break		

Time (GMT +8)	Agenda	Venue (On-site Attendees)	Link Zoom (Online Attendees)
2.30 pm - 4.30 pm	<p style="text-align: center;">MYSUN PMP 6 Meeting</p> <p>2.30 pm – 2.40 pm WP2: 2.3 Seminars at Institution Level</p> <p>2.40 pm – 3.15 pm WP3: 3.2 Pilot MOOC Development and Recognition</p> <p>3.15 pm – 3.30 pm WP4: 4.4 Campus Sustainability Plans</p> <p>3.30 pm– 4.00 pm WP5: 5.3 National workshops on Campus Sustainability 5.4 National Conferences on Sustainability and Energy Efficiency at HEIs</p> <p>4.00 pm – 4.10 pm WP6: 6.4 Final National Dissemination Event 6.5 MYSUN Sustainability Plan</p> <p>4.10 pm – 4.20 pm WP7: 7.2 Regular Internal Quality Monitoring</p> <p>4.20 pm – 4.30 pm WP8: 8.3 Ongoing Project Management 8.4 Reporting</p>		<p>Zoom Link:</p> <p>https://zoom.us/j/93435628790?pwd=TEh3SFpROXpteHVqcDQyQkRIYzRQZz09</p> <p>Passcode : 1234</p>
4.30 pm	End		

PRESENTERS PARALLEL SESSION SCHEDULE AND DETAILS

Room		Room 1: Galeri Majlis	Room 2: Bilik Mesyuarat Pusat Pembangunan dan Kecemerlangan Akademik (BM PPKA)	Room 3: Bilik Mesyuarat Cemerlang (BMC)
Theme		Energy and Climate	Business and Finance	Information and Communications Technology
Parallel Session 1 15 March 2022 (10.00 am -12.00 pm)	10.00am -10.10am	MySUN_ID34	MySUN_ID37	MySUN_ID06
	10.10am -10.20am	MySUN_ID59	MySUN_ID66	MySUN_ID11
	10.20am -10.30am	MySUN_ID62	MySUN_ID02	MySUN_ID15
	10.30am -10.40am	MySUN_ID36	MySUN_ID03	MySUN_ID22
	10.40am -10.50am	MySUN_ID51	MySUN_ID16	MySUN_ID23
	10.50am -11.00am	MySUN_ID58	MySUN_ID18	MySUN_ID25
	11.00am -11.10am	MySUN_ID10	MySUN_ID21	MySUN_ID19
	11.10am -11.20am	MySUN_ID28	MySUN_ID52	MySUN_ID57
	11.20am -11.30am	MySUN_ID30		
	11.30am -11.40am	MySUN_ID63		
	11.40am -11.50am	MySUN_ID49		
	11.50am -12.00pm	MySUN_ID65		

Room		Room 1: Galeri Majlis	Room 2: Bilik Mesyuarat Pusat Pembangunan dan Kecemerlangan Akademik (BM PPKA)
Theme		Sustainable Green Technology 1	Engineering and application & Project Management
Parallel Session 2 15 March 2022 (3.15pm - 5.05 pm)	3.15pm -3.25pm	MySUN_ID43	MySUN_ID08
	3.25pm -3.35pm	MySUN_ID47	MySUN_ID44
	3.35pm -3.45pm	MySUN_ID64	MySUN_ID50
	3.45pm -3.55pm	MySUN_ID24	MySUN_ID54
	3.55pm -4.05pm	MySUN_ID26	MySUN_ID41
	4.05pm -4.15pm	MySUN_ID31	MySUN_ID39
	4.15pm -4.25pm	MySUN_ID32	MySUN_ID09
	4.25pm -4.35pm	MySUN_ID48	MySUN_ID27
	4.35pm -4.45pm	MySUN_ID56	MySUN_ID29
	4.45pm -4.55pm	MySUN_ID61	
	4.55pm- 5.05pm	MySUN_ID68	

Room		Room 1: Galeri Majlis	Room 2: Bilik Mesyuarat Pusat Pembangunan dan Kecemerlangan Akademik (BM PPKA)
Theme		Social sciences and Humanities	Sustainable Green Technology 2
Parallel Session 3 16 March 2022 (3.15pm - 5.05 pm)	3.15pm -3.25pm	MySUN_ID38	MySUN_ID60
	3.25pm -3.35pm	MySUN_ID40	MySUN_ID53
	3.35pm -3.45pm	MySUN_ID35	MySUN_ID01
	3.45pm -3.55pm	MySUN_ID42	MySUN_ID07
	3.55pm -4.05pm	MySUN_ID55	MySUN_ID12
	4.05pm -4.15pm	MySUN_ID04	MySUN_ID13
	4.15pm -4.25pm	MySUN_ID05	MySUN_ID14
	4.25pm -4.35pm	MySUN_ID17	MySUN_ID20
	4.35pm -4.45pm	MySUN_ID45	MySUN_ID67
	4.45pm -4.55pm	MySUN_ID46	

VENUE DETAILS (FOR ON-SITE ATTENDEES)

Room 1:

Room Name	: Galeri Majlis
Address	: Aras 3, Bangunan Canselori, Universiti Malaysia Sabah.
Coordinate	: 6.036576197196219, 116.11554917095903

Room 2:

Room Name	: Bilik Mesyuarat Pusat Pembangunan dan Kecemerlangan Akademik (BM PPKA)
Address	: Aras 6, Blok Utara, Bangunan Canselori, Universiti Malaysia Sabah.
Coordinate	: 6.03656430270801, 116.11585365309081

Room 3:

Room Name	: Bilik Mesyuarat Cemerlang (BMC)
Address	: Jabatan Bendahari, Aras 3, Blok Utara, Bangunan Canselori, Universiti Malaysia Sabah
Coordinate	: 6.03656430270801, 116.11585365309081

Workshop Room:

Room Name	: D'Sireh
Address	: Aras 4, Bangunan Canselori, Blok Utara, Bangunan Canselori, Universiti Malaysia Sabah
Coordinate	: 6.033958, 116.11472

LIST OF ABSTRACTS

Topics of interest for submission include, but are not limited to:

1. Engineering and Application
2. Social Sciences and Humanities
3. Business & Finance
4. Energy & Climate
5. Project Management
6. Sustainable Green Technologies
7. Climate Change and Meteorology
8. Information and Communications Technology

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MYSUN_ID38

University Students' Attitudes & Perspectives on Sustainability in Sarawak

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Abstract: Within the recent decades, there is an emerging trend in higher education as curriculum and administration seek to incorporate the goals of sustainability and development. In Malaysia, a lot of campus-based initiatives that seek to forward the goals of sustainable development also took off. The purpose of this paper is to explore the extent of a public or private university student's knowledge on sustainable development and the United Nation (UN) Sustainable Development Goals (SDGs). The objective of the study is to analyze the outcome of the perceived knowledge on student behavior. It also tries to examine the manners in which students can contribute towards sustainable development efforts given the challenges and obstacles they currently face. In this research, a qualitative method was employed to evaluate students' attitudes and perspectives on sustainability in a public and private university in Kuching. An in-depth interview was held with students from both universities. The selected interviewees consist of students who possessed the authority to speak on the issue and on behalf of their peers. Students' knowledge and the ability to transform the knowledge into practice are the focal concern of the in-depth interview. The result of the interview shown that students are generally aware of the concept of sustainable development and the contemporary issues related to it. They were also able to articulate the inclusion of the UN SDGs in their campus life such as in their curricular or extracurricular activities. However, there were a few differing opinions on the adequacy of sustainable behaviors and the ongoing efforts done to address sustainability issues.

Keywords: Sustainable aquaculture, Green Aquaculture, Fish Nutrition, Sustainable Aquafeeds

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