



**UNIVERSITI
MALAYA**



INTERNATIONAL CONFERENCE
UMACE
UNIVERSITY OF MALAYA ACADEMIA-COMMUNITY ENGAGEMENT

UNIVERSITY OF MALAYA ACADEMIA-COMMUNITY ENGAGEMENT CONFERENCE

**IMPACTING COMMUNITIES
THROUGH RESEARCH PARTNERSHIP**

30 SEPTEMBER - 1 OCTOBER 2019

**CONNEXION
CONFERENCE & EVENT CENTRE
KUALA LUMPUR, MALAYSIA**

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2 FOREWORD

2.1 MESSAGE FROM THE UMACE CHAIRMAN

Welcome to the University of Malaya Academia- Community Engagement (UM ACE) 2019. Best regards to everyone and always be in good health. I would like to express my sincere gratitude and thanks for the trust given to me to hold the post of Director of University of Malaya Academia-Community Engagement (UM ACE) 2019. The position is an enormous trust and I pray that I can fulfill this responsibility with integrity and fulfill the expectations for the event to be successful and memorable.

University of Malaya Academia- Community Engagement (UM ACE) 2019 is an annual conference organized by the UM Sustainability and Community Center or UMCares. This conference is a platform that gathers UM researchers to present the community projects that they had implemented throughout the year. It is such an honor for me to be the director of this conference.

This conference has as a platform for the researchers to gain more knowledge as they can discuss, exchange opinions and share any effective practices in organizing community projects. The central theme of this conference is 'Impacting Communities Through Research Partnerships'. We believe that research partnerships offer an exciting opportunity to improve learning and practice, leading to innovation and deepened understanding of the world and generate broader research impact and sustainable program. This conference consisted of plenary session, forum and symposium. The symposiums consisted of different themes fall in 10 categories. We sincerely hope that the conference will become a much-used source of reference for researchers, industry players, academia, community as well as students either postgraduates and undergraduates. Additionally, there will also be opportunities for Principal Investigators and their research team to share their research and contribution towards the success of their project through oral and poster presentations.

In the early stage of preparation of this conference, I have started a discussion session with management and implementing groups and chaired several meetings to understand the wishes and expectations of all parties towards the conference. In the meantime, I have also provided detailed terms of references and guideline of preparation which aim for the successful We hope this conference will offer participants a platform to exchange ideas, discover novel opportunities, reacquaint with colleagues, meet new friends and broaden their knowledge.

We hope this conference will offer participants a platform to exchange ideas, discover novel opportunities, reacquaint with colleagues, meet new friends and broaden their knowledge. I also hope this event can be done successfully with highly valued for all stakeholders including industry, community, researchers and university students. InshaAllah, we will achieve the objectives of UM ACE 2019. On behalf of the UM ACE 2019 committee, I would like to thank the speakers, presenters and participants for their participation. Also, I would like to express our heartily gratitude to everyone who helped us to make the conference a success.

Thank you.

ASSOCIATE PROFESSOR DR. AMER SIDDIQ AMER NORDIN
CHAIRMAN UMACE



2 CONFERENCE SCHEDULE

- **Day 1 Schedule**

DATE	30 SEPTEMBER 2019 (MONDAY) – DAY 1			
VENUE	THE SUMMIT HALL 1			
TIME	ACTIVITIES			
8.00 – 8.30 am	REGISTRATION			
8.45 – 9.30 am	KEYNOTE Impacting Community Through Research Collaboration <ul style="list-style-type: none"> • Professor Chris Bullen, University of Auckland 			
9.30 – 10.15 am	PLENARY SESSION 1 The Role of Universities in Community Engagement <ul style="list-style-type: none"> • YBhg. Dato' Kamel Bin Mohamad, Deputy Secretary-General of Strategic Planning, Ministry of Education Malaysia 			
10.15 – 10.30 am	Break			
10.30 – 11.30 am	WELCOMING SPEECH AND OPENING CEREMONY <ul style="list-style-type: none"> ➤ Negaraku song ➤ Prayer recitation ➤ Montage of Lembah Pantai Program ➤ Welcoming speech by <ul style="list-style-type: none"> • Professor Dr. Rofina Yasmin Othman, Associate Vice-Chancellor (Industry and Community Networks) ➤ Officiating speech by <ul style="list-style-type: none"> • YBhg. Datuk Ir. (Dr.) Abdul Rahim Hj. Hashim, Vice-Chancellor, University of Malaya ➤ Photography session 			
11.30 – 1.00 pm	FORUM 1 University for Society (U4S) <ul style="list-style-type: none"> • YB. Mr. Ahmad Fahmi bin Mohamed Fadzil, Member of Parliament for Lembah Pantai • Professor Dr. Rofina Yasmin Othman, Associate Vice-Chancellor (Industry and Community Networks) • Y.Brs. Dr. Zaid bin Omar, Director, Student Development Division, Ministry of Education Malaysia <i>Moderator: Associate Professor Dr. Amer Siddiq Amer Nordin, Director of UMCares</i>			
1.00 – 2.00pm	Lunch and break			
VENUE	THE SUMMIT HALL 1			
2.15 – 3.00pm	PLENARY SESSION 2 How to Scale up Impactful Community Project: The Fluoride Story <ul style="list-style-type: none"> • Professor Chun-Hung Chu, University of Hong Kong. 			
3.00 – 3.15pm	Break			
VENUE	THE SUMMIT HALL 1	THE PINNACLE 3	THE PINNACLE 4	THE PINNACLE 5
3.15 – 5.00 pm	SYMPOSIUM 1 <i>(Sharing Session)</i>	SYMPOSIUM 2 <i>(Built Environment & Waste)</i>	SYMPOSIUM 3 <i>(Education)</i>	SYMPOSIUM 4 <i>(Social Enterprise)</i>

• **Day 2 Schedule**

DATE	1 OCTOBER 2019 (TUESDAY) – DAY 2			
VENUE	THE SUMMIT HALL 1			
TIME	ACTIVITIES			
8.00 – 8.45 am	REGISTRATION			
8.45 – 9.30 am	PLENARY SESSION 3 Why Giving Back is So Important <ul style="list-style-type: none"> Dato' Noorashidah Ahmad, Vice President & General Manager, Keysight Technologies. 			
9.30 – 10.30 am	FORUM 2 University-Industry Engagement <ul style="list-style-type: none"> Dato' Azlam Shah Alias, Mr. DIY Chairman. Dr. John Vincent PG Flores, Medical Director, Southeast Asia Integrated Education Programs at Johnson and Johnson. Dr. Chai Lay Ching, Senior Lecture, University of Malaya. <i>Moderator: Dr. Ram Gopal Raj, Senior Lecture, University of Malaya</i>			
10.30–10.45 am	Break			
VENUE	THE SUMMIT HALL 1	THE PINNACLE 4	THE PINNACLE 5	THE ZENITH HALL
10.45 – 12.45 pm	SYMPOSIUM 5 <i>(Measuring impact in Community Projects)</i>	SYMPOSIUM 6 <i>(Translational Research)</i>	SYMPOSIUM 7 <i>(Developing minority communities and social welfare)</i>	WORKSHOP 1 Building Community Leaders - MySihat
12.45 – 2.00 pm	Lunch break			
VENUE	THE SUMMIT HALL 1	THE PINNACLE 4	THE PINNACLE 5	THE ZENITH HALL
2.00 – 3.30 pm	SYMPOSIUM 8 <i>(Finding support for Sustainable Community Projects)</i>	SYMPOSIUM 9 <i>(International Networks for Community Engagement)</i>	SYMPOSIUM 10 <i>(Health & Wellbeing)</i>	WORKSHOP 2 Building Community Leaders - MySihat
3.30 – 3.45 pm	Break			
3.45 – 4.45 pm	FORUM 3 #LetstalkMY: Addressing youth Mental Health in Communities <ul style="list-style-type: none"> Dr. Nurashikin Ibrahim, Public Health Specialist, Head of the Mental Health Sector Prevention of Injury & Violence & Substance Abuse Disease Control Division, Ministry of Health Malaysia. YB. Mrs. Michelle Ng, State Assemblywoman of Subang. Associate Professor Dr. Amer Siddiq Amer Nordin, Director of UMCares. <i>Moderator: Dr. Nur Amani @ Natasha Bt Ahmad Tajuddin, Fellow of UMCares</i>			
4.45 – 5.00pm	CLOSING CEREMONY <ul style="list-style-type: none"> ➤ Welcoming speech by <ul style="list-style-type: none"> • YBhg. Associate Professor Amer Siddiq Amer Nordin, Director of UMCares, University of Malaya ➤ Closing speech by <ul style="list-style-type: none"> • YB. Datuk Seri Dr. Haji Dzulkefly Ahmad, Health Minister, Ministry of Health Malaysia ➤ Award giving ceremony ➤ Souvenir presentation ➤ Photography session 			

4 CONFERENCE OVERVIEWS

KEYNOTE

Impacting Communities through Research Collaboration

By **Professor Chris Bullen**, University of Auckland

The partnership approach to research that equitably involves community members, organizational representatives, researchers, and others in all aspects of the research process, with all partners in the process contributing expertise and sharing in the decision-making and ownership. The aim of “Impacting Communities through Research Collaboration” is to increase knowledge and understanding of a given phenomenon and integrate the knowledge gained with interventions for the policy or social change benefiting the community members.

PLENARY SESSION 1

The Role Of Universities In Community Engagement

By **YBhg. Dato' Kamel Bin Mohamad**, Deputy Secretary-General of Strategic Planning

University-community engagement should have two broad purposes. First, it should absolutely aim to mobilize and combine university knowledge and community experience to address social disadvantage and exclusion, to promote the idea of a fair society. Second, it should complement and collaborate with the university's service to business activities by focusing on all those areas of our daily lives that are of profound material and civic importance but which are typically seen as “non-economically productive activity”, such as caring, sustainable development, self-management of health and well-being, voluntary activity and the development of citizenship.

PLENARY SESSION 2

How to Scale up Impactful Community Project: The Fluoride Story

By **Professor Chun-Hung Chu**, University of Hong Kong.

Sharing the impactful community project that had been done by several countries. Opinion-sharing from the project director on how the program has been conducted in the first place based on the community problem and how the project can be scaled up to an international level.

PLENARY SESSION 3

Why Giving Back is So Important

By **Dato' Noorashidah Ahmad**, Vice President & General Manager, Keysight Technologies

We know at the back of our minds that there are people in our communities who are living below the poverty threshold and surviving on a day to day basis. If it has always been a thought to get around to giving, all you need is a little push in the right direction. Not only will your actions benefit those on the receiving end of your good deeds, but you'll find personal satisfaction and accomplishment through your contributions.

FORUM 1

University for Society (U4S)

PANEL:

- YB. Mr. Ahmad Fahmi bin Mohamed Fadzil, Member of Parliament for Lembah Pantai.
- Professor Dr. Rofina Yasmin Othman, Associate Vice-Chancellor (Industry and Community Networks).
- Y.Brs. Dr. Zaid bin Omar, Director, Student Development Division, Ministry of Education Malaysia.

MODERATOR:

- *Associate Professor Dr. Amer Siddiq Amer Nordin, Director of UMCares*
-

University for society knows as U4S is one of the government initiatives to help nearby or other communities utilize the expertise from Universities to solve the community-based challenges. The knowledge or technology transfer is the key factor to community project to success.

FORUM 2

University-Industry Engagement

PANEL:

- Dato' Azlam Shah Alias, Mr. DIY Chairman.
- Dr. John Vincent PG Flores, Medical Director, Southeast Asia Integrated Education Programs at Johnson and Johnson.
- Dr. Chai Lay Ching, Senior Lecture, University of Malaya

MODERATOR:

- *Dr. Ram Gopal Raj, Senior Lecture, University of Malaya*
-

University and Industry engagement is significant in the contact of the community engagement for holistic approach. This because the University can provide the expertise to decipher the problem and at the same time, the industry is the core strength to make community engagement project sustainable.

SYMPOSIUM 1: SHARING SESSION

This symposium will showcase a number of UMCares grant principal investigators who were able to bring their research into a community project. They will also highlight how they had managed to ensure their projects influenced to the communities involved.

MODERATOR: DR. DONNIE ADAMS

NAME	PROJECT TITLE	TIME
Dr. Mohd Nazri Abdul Rahman	Tuninipot Literacy-Creative Module for Sabah Native Children	3.00 – 3.15 pm
Dr. Nasrul Anuar Abdul Razak	Be Able: Empowering The Disabilities	3.20 – 3.35 pm
Dr. Rusalina Idrus	Digital Stories To Advocate For And To Improve Orang Asli Education Experience	3.40 – 3.55 pm
Professor Dr. Lydia Abdul Latif	Score- Stroke Community Rehabilitation Centre	4.00 – 4.15 pm
Dr. Tan Chia Kwang	Rural Electrification- Ensuring Long Term Sustainability Through Community-Aligned Renewables Empowerment (Care)	4.20 – 4.35 pm
Dr. Donnie Adams	Ecotherapy: Nature-Based Learning And Play For Children With Special Educational Needs	4.40 – 4.55 pm

SYMPOSIUM 2: BUILT ENVIRONMENT & WASTE

This symposium will share to all the participants about the project in cluster-built environment & waste. The built environment comprises places and spaces created or modified by people including buildings, parks, and transportation systems. Waste management is the activities and actions required to manage waste from its creation to its final disposal.

MODERATOR: DR. ROSAZLIN ABDULLAH

NAME	PROJECT TITLE	TIME
Dr. Rosazlin Abdullah	Creation of Active Carbons from Biochar Technology to Improve Farmers Community Crops	3.00 – 3.15 pm
Professor Dr. Sumiani Yusof	Earth's Saving Program: Systematic Food Wastes Management	3.20 – 3.35 pm
Dr. Umi Kalsum Zulkafli@Zulkifly	Construction's Craftmanshift Module to Homeless People	3.40 – 3.55 pm
Dr. Muhammad Abi Sofian Abdul Halim	Exploring the Entrepreneurial Mindset Among Rural Entrepreneurs in a District of Hulu Terengganu	4.00 – 4.15 pm
Associate Professor Dr. Khatijah Omar	KIEPRO: Entrepreneurial Development Programs for Female Entrepreneurs in Terengganu	4.20 – 4.35 pm
Dr. Hazman Samsudin	Community Based Ecotourism (CBE) Development and Local B40 Youth Community Empowerment	4.40 - 4.55 pm

SYMPOSIUM 3: EDUCATION

This symposium will share to all the participants about the community project cluster in education. Education is the process of facilitating learning, or gaining of knowledge, skills, values, beliefs, and habits using other approaches.

MODERATOR: DR. ADELINA ASMAWI

NAME	PROJECT TITLE	TIME
Dr. Alwani Ghazali	An Exploratory Study On The Concept Of Prophetic Inter-Faith Dialogue Among Malaysian Youth	3.00 – 3.15 pm
Associate Professor Dr. Muhammad Fiazal A.Ghani	Reduction of Illiteracy among Federal Land Development Authority (FELDA) Children Using AMUD Curriculum Module	3.15 – 3.30 pm
Associate Professor Dr. Norlidah Alias	Implementation of Pedagogy Module and 21 st Century Curriculum for Technical and Vocational Education and Training (TVET)	3.30 – 3.45 pm
Dr. Adelina Asmawi	Pearl Project: A Taste Of Milo For ELT Module Development	3.45 – 4.00 pm
Dr. Raihana Abdul Wahab	"Bringing Astronomy Community To Educate The People"	4.00 – 4.15 pm
Dr. Rafidah Aga Mohd Jaladin	Empowering Single Mother Community Using a Self-Compassion Model	4.15 – 4.30 pm
Associate Professor Dr. Husaina Banu Kenayathulla	The Implementation of Financial Literacy Module for B40 Youth	4.30 – 4.45 pm
Dr. Zuraidah Abdullah	Developing Coaching Skills of Student Teachers For Instructional Empowerment.	4.45 – 5.00 pm

SYMPOSIUM 4: SOCIAL ENTERPRISE

This symposium will introduce the concept of social enterprises and how it is related to community engagement. This symposium will also highlight a couple of social entrepreneurs. They will share their trials and tribulations in the field and it is hoped that the participants of this symposium will have a better understanding of social enterprises and entrepreneurship.

MODERATOR: DR ZALFA LAILI HAMZAH

NAME	TITLE	TIME
Mrs. Siti Aishah Redzuan Lu	Program Lead Social Entrepreneurship Development (MaGIC) Malaysian Global Innovation & Creativity Centre	3.15 – 4.45 pm

SYMPOSIUM 5: MEASURING IMPACT IN COMMUNITY PROJECTS

This symposium will introduce participants to impact reporting. Speakers will attempt to ensure that participants are aware of output, outcome, and impact and are able to document their impact strategies. A number of impact best practices will be shared and hope that it will inspire participants to create enriching projects.

MODERATOR: MR AZIZI ABU BAKAR

NAME	TITLE	TIME
Miss Yew Jian Li	Social Innovation Movement	10.45 – 11.15 am
Professor Dr. A.S. Md. Abdul Haseeb	University Malaya	11.20 – 11.50 pm
Professor Dr. Shaliza Ibrahim	Associate Vice-Chancellor (Research and Innovation) University Malaya	11.55 – 12.20 pm
Professor Chris Bullen	Auckland University	12.25 – 12.55 pm

SYMPOSIUM 6: TRANSLATIONAL RESEARCH

This symposium will instill awareness to participants on collaborative research to encourage knowledge exchange, creative and innovative technologies, and skills.

MODERATOR: DR. NASRUL ANUAR ABDUL RAZAK

NAME	PROJECT TITLE	TIME
Dr. Sayuti Abdul Karim	Overcoming The Effect Of Drug Addiction	10.45 – 11.00 am
Dr. Nasrul Anuar Abdul Razak	Empowerment Of The Disadvantaged Youth	11.05 – 11.20 am
Dr. Zuraidah Abdullah	#Kamijugaadai mpian: We Are Entitled Learning to Face the Industrial Revolution 4.0	11.25 – 11.40 am
Dr. Rosazlin Abdullah	Upcycling Revolution: From Waste To Health	11.45 – 12.00 pm
Dr. Siti Sarah binti Seri Masran	USIM POST DISASTER RELIEF MISSION IN BANTEN University Networks in Post Disaster Rehabilitation	12.05 – 12.20 pm
Dr. Nuruol Syuhadaa Mohd	Wastewater and Surface Water Issues in Rural Areas of Bario, Sarawak, Malaysia: Is there any solution to it?	12.25 – 12.40 pm

SYMPOSIUM 7: DEVELOPING MINORITY COMMUNITIES AND SOCIAL WELFARE

This symposium will share to all the participants about the community project cluster in developing minority communities and social welfare. This cluster enables project leader to share their projects on developing minority community and also in social welfare.

MODERATOR: DR. YANTI IDAYA ASPURA MOHD KHALID

NAME	PROJECT TITLE	TIME
Dr. Yanti Idaya Aspura Mohd Khalid	Development of Information Management Module for Braille Collection at the Malaysian Association of Blind Libraries (MAB)	10.45 – 11.00 am
Professor Dato' Dr. Mohd Yakub@Zulkifli Yusoff	Teaching Al-Quran A-Ba-Ha-Ta Al-Jabari Method And 'Ainul Quran Software To <i>Muallaf And Orang Asli</i>	11.00 – 11.15 am
Dr. Melati Binti Sumari	Family Intervention for Syariah Offenders: A Study at a Selangor Islamic Religious Council Women Protection Center	11.15 – 11.30 am
Miss Yuhanis Adnan	Inclusive Sport and Recreation Programme for University Student with Disabilities: Wheelchair Tennis	11.30 – 11.45 am
Associate Professor Dr. Sharifah Hayati Syed Ismail	Communicating Public Services (MPA) Through the Value of Openness & Consultation with the <i>Asnaf</i> Community (KMKA). Studies at the Federal Territory Islamic Religious Council. Kuala Lumpur	11.45 – 12.00 pm
Dr. Aishah Binti Ahmad Fauzi	ParticPate in PRACTIVE	12.00 – 12.15 pm
Dr. Phan Chia Wei	Dissemination And Implementation Research In Mushroom Poisoning: Continuing Education Through Train The Trainer (TTT) Approach	12.15 – 12.30 pm

SYMPOSIUM 8: FINDING SUPPORT FOR SUSTAINABLE COMMUNITY PROJECTS

This symposium will introduce participants to various financing agencies available for community engagement work. Do's and Don'ts will be shared and it is hoped that better projects, targeted to specific communities; hence with maximum impact outcomes.

MODERATOR: DR. NORAINI AHMAD

NAME	TITLE	TIME
Madam Anita Ahmad	Senior Vice President Head, Community Development, Yayasan Hasanah	2.00 – 3.30 pm
Mohd Ezran Baharum	Chief Executive, Artanis Cloud Sdn. Shd.	2.45 – 3.30 pm

SYMPOSIUM 9: INTERNATIONAL NETWORKS FOR COMMUNITY ENGAGEMENT

This symposium will introduce participants to international groups participated with community engagement. Speakers will introduce their groups and how they might facilitate others in ensuring local projects obtain the needed international assistance they deserve.

MODERATOR: DR. ZALFA LAILI HAMZAH

NAME	TITLE	TIME
Professor Dr. Munirah Ghazali	Regional Centers of Expertise (RCE) Penang	2.00 – 2.30 pm
Professor. Dato' Dr. Imran Ho Abdullah	ASEAN University Network (AUN)	2.30 – 3.00 pm
Professor Dr. Jusuf Irianto	World Universities Association for Community Development (WUACD)	3.00 – 3.30 pm

SYMPOSIUM 10: HEALTH & WELLBEING

This symposium will share to all the participants about the project health and wellbeing. Health and wellbeing are fundamental constituents to increase and/or maintain employee performance, productivity, job satisfaction and engagement within the work environment.

MODERATOR: ASSOCIATE PROFESSOR DR. HAZREEN ABDUL MAJID

NAME	PROJECT TITLE	TIME
Professor Dr. Sazaly Abu Bakar	Knowledge and technology transfer of Manufacturing and Utilization of Different Types of Ovitrap, Mosquito Traps to Combi Teams at Jalan Ciku, Masai City Park, Johor	2.00 – 2.15 Pm
Associate Professor Dr. Sajaratulnisah Othman	<i>#Itubukancinta: Program Tingkatkan Amalan Perhubungan Sihat Dan Tolak Perhubungan Tidak Sihat</i>	2.15 – 2.30 Pm
Dr. Wan Yusoff Wan Sulaiman	A Community Surveillance Control Of AEDES Mosquitoes In Petaling Jaya, Selangor	2.30 – 2.45 Pm
Professor Dr. Nur Aishah Mohd Taib	Developing A Breast Cancer Awareness Psychoeducational Tool In Malaysian Women To Improve Health Literacy And Early Detection	2.45 – 3.00 Pm
Dr. Sareena Hanim Hamzah	<i>Program Cabaran Kurus Dan Sihat Online</i>	3.00 – 3.15 Pm
Associate Professor Dr. Hazreen Abdul Majid	<i>Penyelidikan Diet Untuk Survivor Kanser Payudara Dan Penghasilan Maklumat Infografik Diet Untuk Pesakit Kanser Payudara</i>	3.15 – 3.30 Pm

5 SPEAKER DETAILS

KEYNOTE SPEAKER



Professor Chris Bullen is a medical graduate of the University of Auckland, New Zealand, and has postgraduate qualifications in obstetrics, child health and public health, and a PhD in Community Medicine from the University of Auckland. His research interests focus primarily on tobacco control research but he has wider interests in research in addictions (alcohol, gambling), global health, housing and health, heart disease prevention and treatment and health technologies. He has more than 200 publications in peer-reviewed journals. His research projects have typically been pragmatic in design with a strong implementation approach involving multiple collaborations. In addition to being Director of the National Institute for Health Innovation at the University of Auckland, he is Deputy head of the School of Population Health and Director of the University's postgraduate education programme in public health. Professor Bullen is a Fellow of the Faculty of Public Health Medicine, Royal Australasian College of Physicians (RACP), a Fellow of the New Zealand College of Public Health Medicine, and President-Elect of the Society for Research on Nicotine and Tobacco- Oceania. He has wide international connections and was appointed an Academic Icon at the University of Malaya in 2017 and a visiting professor at Zhejiang University, China, in 2018.

PROFESSOR. CHRIS BULLEN

UNIVERSITY OF AUCKLAND, NEW ZEALAND

PLENARY SPEAKER 1



Dato' KAMEL MOHAMAD assumed the post of Deputy Secretary General (Strategic Planning), Ministry of Education on 5 August 2016. Prior to joining the Ministry of Education, he served as the Deputy Secretary General (Management) of the Ministry of Higher Education and led, among others, the Malaysia Research and Education Network (MyREN-X) efforts to increase the speed of broadband service in public universities to a maximum 100 gigabytes per second. He served as the Senior Under Secretary (Planning) at the Ministry of Science, Technology and Innovation (MOSTI) from Jun 2010 to Aug 2016 and steered the establishment of the National Science Council (NSC); the National Institutes of Biotechnology Malaysia; and the Technologists and Technicians Act that gave birth to the Malaysia Board of Technologists. He held the post of Director General, Intellectual Property Corporation of Malaysia (MyIPO), from November 2007 to May 2010 that saw the review of the Copyright Act, 1987 and Malaysia's active engagement at the regional and global intellectual property platforms. Dato' Kamel had also served in the Ministry of Finance Malaysia from 2003-2007 as the Head of Multilateral Section, Economic and International Division, overseeing Malaysia's work programmes with the IMF, World Bank, the United Nations, Commonwealth and WTO and led the free trade agreement (FTA) negotiation of the financial services, government procurement and intellectual property chapters. Dato' Kamel joined the Administrative and Diplomatic service in 1989 and began his career at the Economic Planning Unit of the Prime Minister's Department, overseeing south-south cooperation under the Malaysian Technical Cooperation Programmes (MTCP). He was seconded to the World Bank headquarters in Washington, D.C from 2001-2003 as Advisor to the Executive Director (and later Senior Advisor) representing Brunei Darussalam, Fiji, Indonesia, Lao PDR, Malaysia, Myanmar, Nepal, Singapore, Thailand, Tonga and Vietnam. Dato' Kamel graduated with BSc (Geology) and MSc (Geochemistry) from the United States, and MBA (Banking and Finance) from the UK. In 2009, he attended the Advanced Management Program at Harvard Business School. He received *Darjah Ahli Mahkota Perlis* (A.M.P.), *Darjah Setia Mahkota Perlis* (S.M.P.), *Darjah Dato' Panglima Sirajuddin Jamalullail* (D.P.S.J.) from DYMM Raja of Perlis; and *Johan Mangku Negara* (J.M.N) from the Yang Di-pertuan Agong

DATO' KAMEL MOHAMAD

DEPUTY SECRETARY GENERAL (STRATEGIC MANAGEMENT)

MINISTRY OF EDUCATION, MALAYSIA

PLENARY SPEAKER 2



Professor Chu is a Clinical Professor and Associate Dean (External Relations) in the Faculty of Dentistry of The University of Hong Kong. He is the President of South East Asian Association of Dental Education. He is a fellow and dental examiner of the Royal College of Surgeons of Edinburgh. He is a fellow and member in the specialty board of the Royal Australasian College of Dental Surgeons. Professor Chu was conferred Bachelor of Dental Surgery, Master of Dental Surgery and Doctor of Philosophy by The University of Hong Kong. He obtained a Post-graduate Diploma in Dental Surgery. Professor Chu is a Master of the Academy of General Dentistry and received the prestigious award of the Lifelong Learning & Service Recognition. Professor Chu published more than 150 peer reviewed journal articles and 200 abstracts in international conferences. He is an associate editor of *BMC Oral Health* and a member of editorial board of *Oral Health & Preventive Dentistry* and *International Journal of Environmental Research and Public Health*. Professor Chu's research interests include caries prevention and management, clinical uses of fluorides and community dental care. As the principal investigator, he was awarded various external competitive grants including RGC General Research Fund, National Natural Science Foundation of China (NSFC), NSFC/RGC Joint Research Scheme, Health and Health Services Research Fund, Health Care and Promotion Fund - Research Grant and S.K. Yee Medical Foundation. He also received a large grant from the Hong Kong Jockey to promote oral health of kindergarten.

PROFESSOR CHU CHUN HUNG

ASSOCIATE DEAN (EXTERNAL RELATIONS)

FACULTY OF DENTISTRY, THE UNIVERSITY OF HONG KONG

PLENARY SPEAKER 3



Dato' Shidah Ahmad is the vice president & general manager of Keysight's Global Order Fulfillment & Supply Chain. She has full accountabilities for the company's worldwide Supply Chain, Manufacturing and Global Trade & Logistics operations. In this role, Dato' Shidah leads a global team of close to 3000 employees, accountable for the annual shipments of approximately US\$3B for the company. In Supply Chain, Dato' Shidah has oversight for all the activities from Order Management, Planning & Procurement, to Supplier & Contract Manufacturer Management for the company. The worldwide manufacturing operations under Dato' Shidah's purview cover the sophisticated Integrated Circuit (IC) Fabs, Optical & Digital technology Centers in the US & Europe (California, Colorado Springs & Beoblingen in Germany) and assembly & test facilities across the world (Malaysia/Japan/China/US/Spain). Dato' Shidah is accountable for the Engineering functions involved in product redesign, design for supply chain & manufacturing and quality assurance. In addition, she is responsible for Keysight's worldwide trade compliance and the regional distribution & logistics centers globally in Malaysia, Japan, Netherlands & US. Dato' Shidah has 30 years of extensive international experience in the Semiconductor, Electronics and IT industries and has held many key global positions in these fields. Her leadership has been instrumental to the transformation of the company – from the enterprise-wide IT systems implementation and business process transformation in early 2000; the company's Global Logistics and Supply Chain transformations; the 2014 separation from Agilent Technologies and establishment of Keysight Technologies; and, the recent transformation of the company from being hardware and product-centric to being a solutions and software-centered organization. Besides her business responsibilities, Shidah is also the General Manager of Keysight's Malaysia site. In this role, she is responsible for ensuring the site's smooth and efficient operations while championing the company's business values and corporate objectives in the country. She has played a key role in fostering strong collaborative ties with the Malaysian government and its agencies towards making Malaysia a knowledge driven, high income economy.

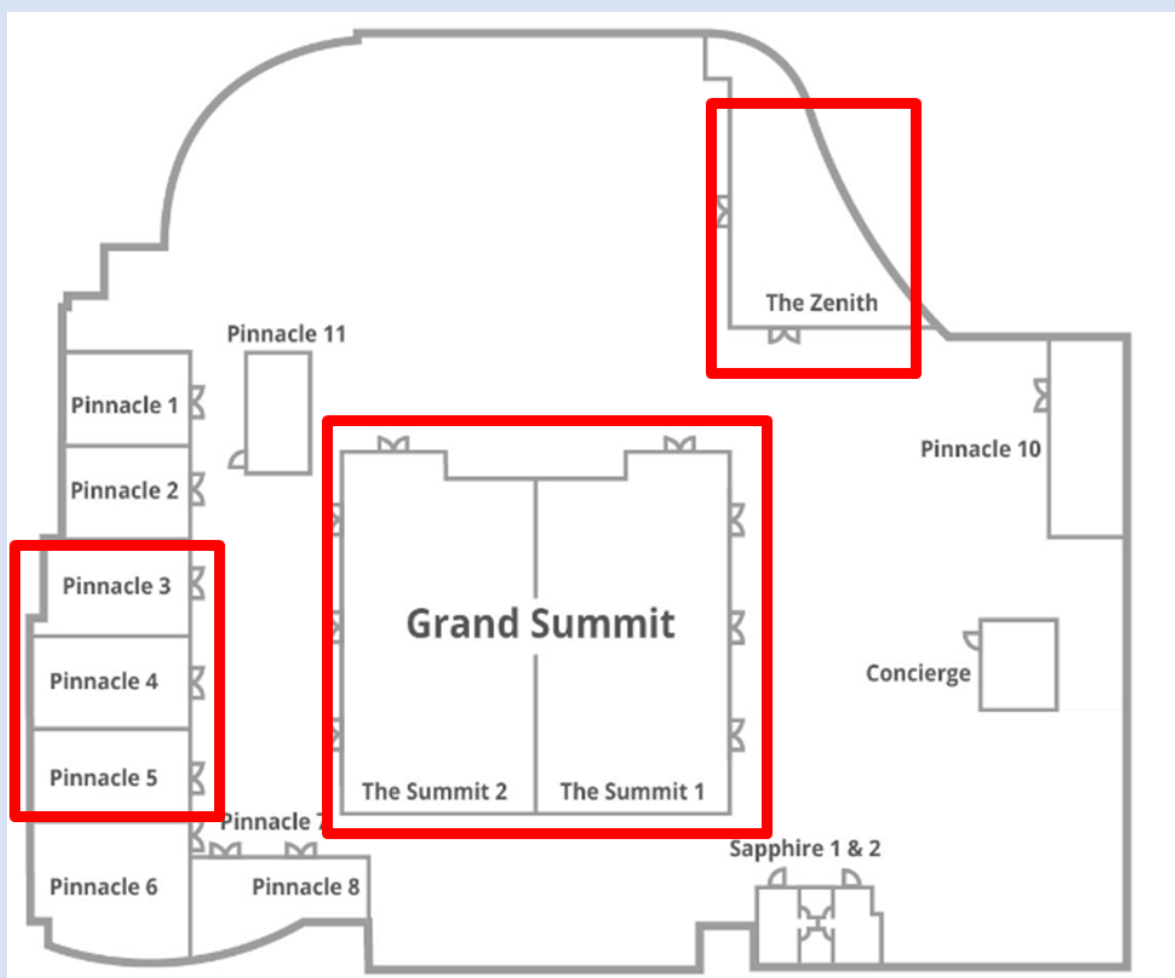
DATO' NOORASHIDAH AHMAD

VICE PRESIDENT & GENERAL MANAGER ORDER

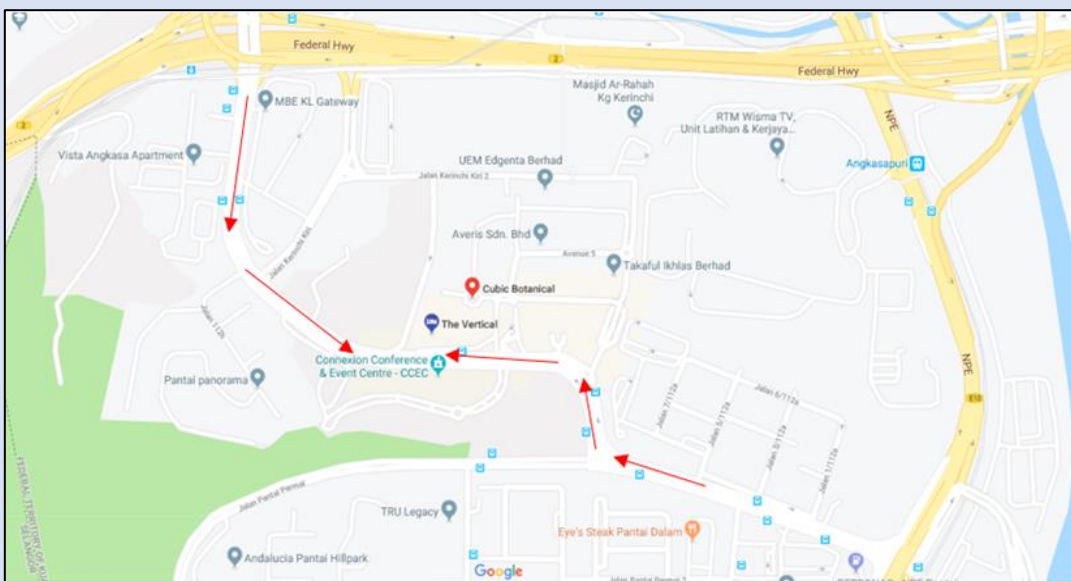
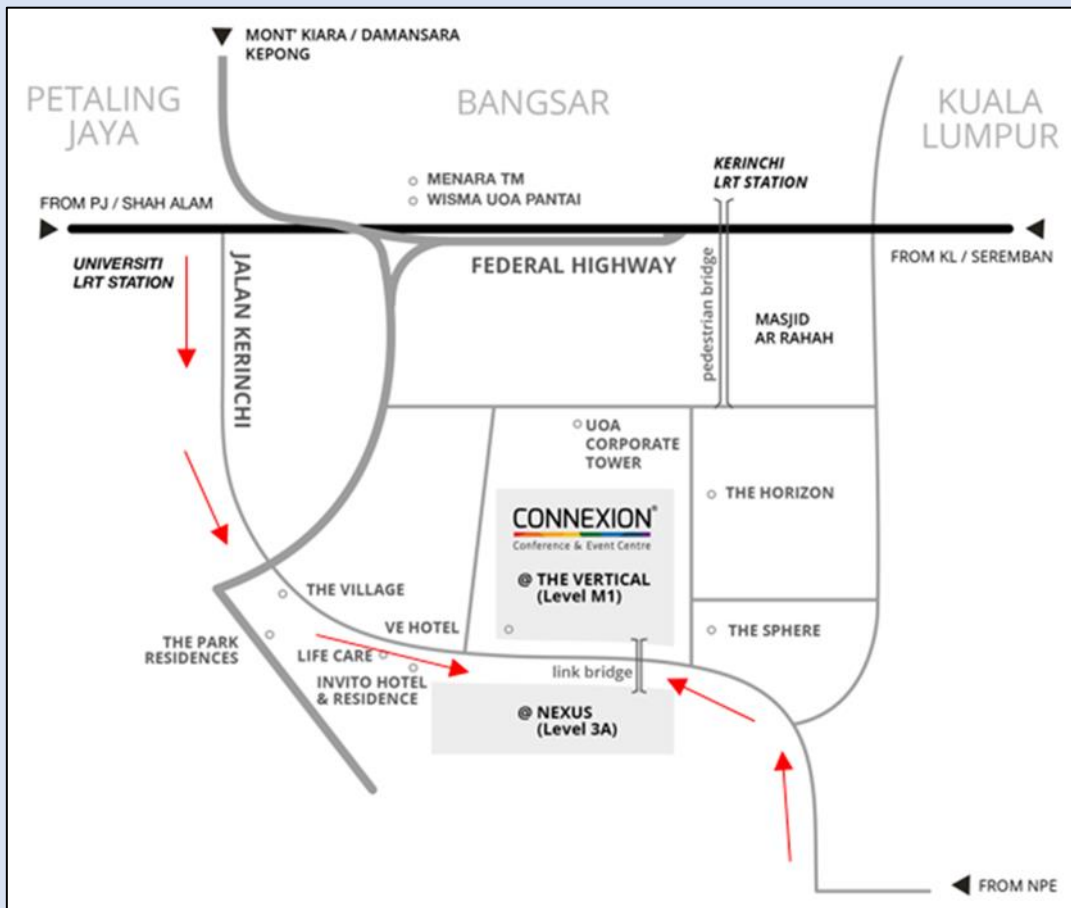
FULFILMENT & SUPPLY CHAIN, KEYSIGHT TECHNOLOGIES

6 MAPS OF CONNEXION CONFERENCE & EVENT CENTRE

PLACE	EVENT
THE SUMMIT 1	<ul style="list-style-type: none"> KEYNOTE PLENARY SESSION 1, PLENARY SESSION 2 & PLENARY SESSION 3 OPENING & CLOSING CEREMONY FORUM 1 & FORUM 2 SYMPOSIUM 1 (Sharing Session), SYMPOSIUM 5 (Measuring impact in Community Projects) & SYMPOSIUM 8 (Finding support for Sustainable Community Projects)
THE SUMMIT 2	<ul style="list-style-type: none"> LUNCH
PINNACLE 3	<ul style="list-style-type: none"> SYMPOSIUM 2 (Built Environment & Waste)
PINNACLE 4	<ul style="list-style-type: none"> SYMPOSIUM 3 (Education), SYMPOSIUM 6 (Translational Research) & SYMPOSIUM 9 (International Networks for Community Engagement)
PINNACLE 5	<ul style="list-style-type: none"> SYMPOSIUM 4 (Social Enterprise), SYMPOSIUM 7 (Developing minority communities and social welfare) & SYMPOSIUM 10 (Health & Wellbeing)
THE ZENITH	<ul style="list-style-type: none"> WORKSHOP 1 & 2 (Building Community Leaders – MySihat)



7 ROUTES TO CONNEXION CONFERENCE AND EVENT HALL



8 BRIEF DESCRIPTION ON PROJECTS

SYMPOSIUM 1: SHARING SESSION

Tuninipot Literacy-Creative Module for Sabah Native Children

by Dr. Mohd Nazri Abdul Rahman

As a continuation of Sabahan Native Folklore based on Literacy Learning Module, the TUNINIPOT (Literacy-Creative) Module for Sabah Native aims to develop children's creativity and aesthetic appreciation of creative writings, such as Sabahan Folk Tradition Song in literacy learning. Other than that, this module is also beneficial to preserve important cultural values, traditions and beliefs of the indigenous people of Sabah as well as preparing them for the changes in IR 4.0. This module was developed based the following principles:

- a) Apply the theory of Experimental Learning, which highlights i) learning through experience, ii) providing critical feedback, iii) generalizing what is learned, and iv) applying what is learned to new learning
- b) Emphasis on the "Creative Song Basics - Native Tradition" where children are actively involved in teaching and learning to recognize sounds and letters
- c) Emphasis on creative writing which is creating a simple sentence for children to conduct a children's creative story: 'Creative Stories from Kids to Kids'
- d) Apply phonics and whole-language approaches with some modifications by emphasizing various techniques using folk stories such as custom, environment, way of life, language and other resources in Indigenous communities

Be Able: Empowering the Disabilities

by Dr. Nasrul Anuar Abdul Razak

Exercise is important to maximize health benefits and improve the quality of life (QOL). Therefore, exercise is crucial either for the healthy individuals, or community with disabilities. Cycling is a popular exercise modality for both healthy individuals and the community with disabilities. However, a part of the community with disabilities experiences difficulties to exercise due to physical disability and limitations. Individuals with the neuromuscular disease; such as spinal cord injury (SCI) and stroke, leads to paralysis below the level of injury. They lost the ability to walk. In the alternative, they depend on a wheelchair as a medium of mobility for a lifetime to improve their QOL. Prolonged immobilization due to the muscle inactivity and inactive lifestyle after SCI can induce secondary medical complications; such as heart disease and osteoporosis. Therefore, it is encouraged for individuals with SCI to do regular physical activity and aerobic exercise to improve health and QOL. However, these exercises are limited to the specialized gym and restricted to the upper body exercise only. Due to the functional disability following SCI, the lower body of individuals with SCI does not get benefits from the exercise. Therefore, researchers have implemented the use of functional electrical stimulation (FES) as a therapeutic exercise in individuals with SCI. FES is applied to artificially activate paralyzed muscles to produce functional movement. FES can produce different functional tasks; such as grasping, walking, standing, transfer, cycling, and rowing. However, cycling with FES getting high attention of many researchers and clinical practitioners due to its safety. Walking and sit-to-stand with FES imposed the risk of falling in individuals with SCI who has loss motor and sensory control of trunk and limbs. Therefore, FES cycling becomes a popular exercise modality for individuals with SCI.

SCORE – Stroke Community Rehabilitation Centre

by Professor Dr. Lydia Abdul Latif

Stroke is one of the leading causes of death in Malaysia according to the 'Malaysian burden of disease and injury study' in 2000. Thus, our study aimed to find out the barriers and the needs of stroke rehabilitation in Kelantan both from patients' and healthcare providers' perspective.

This study was divided into two stages. First, a cross-sectional study was conducted among 60 stroke patients using a validated self-administered survey questionnaire. Secondly, a qualitative component i.e. focus group discussions (FGDs) and in-depth interviews (IDIs) were conducted among physicians, nurses, physiotherapist, occupational therapists, hospital support staff, stroke patients and their caregivers.

Ecotherapy: Nature-based Learning and Play for Children with Special Educational Needs

by Dr. Donnie Adams

Ecotherapy relates to the relationship one has with nature. Clinebell (2013) has extensively researched on how having a healthy interaction with nature provides a pathway for healing to take place, particularly nature's effects on one's body. Ecotherapy looks at applying nature-based activities for "physical and psychological healing" as a form of behavioral health intervention. In other words, Ecotherapy looks into strengthening one's relationship with nature and using nature-based activities to induce a change in behavior, mobility, and well-being.

Children with special needs barely experience nature-based activities, especially after school or on weekends due to parents' lack of knowledge on how to help their children in a simple and economical way. Existence therapies for children with special needs are often expensive and parents have no expertise to conduct these therapies themselves. Therefore, parents often leave their children at home.

This project aims to

- 1) Impart knowledge for every parent on techniques and activities of Ecotherapy so that it can be practiced easily,
- 2) Provide an opportunity for parents to perform the Ecotherapy activities via hands-on practice with their special child while being monitored and guided by the researchers,
- 3) Create awareness on how parents will be able to help their children in the aspect of emotions, behaviors, confidence, psychomotor and social skills, and
- 4) Publish a book titled 'Ecotherapy for your Child with Special Needs' for every parent's reference in the future.

73 parents with their special children and 25 specially trained teachers from 4 schools namely SK Sultan Alam Shah, SJK (C) Chung Hwa Damansara, SK Taman Medan, and SK Damansara Jaya have participated in a hands-on workshop series as part of the University of Malaya's Kelab Sahabat program. It is conducted using Gross and Fine Motor skills focusing on effective techniques and activities of Ecotherapy constituted of four modules namely

- 1) Balancing beam,
- 2) Guide the ball,
- 3) Nature Collage,
- 4) Nature I-Spy.

SYMPOSIUM 2: BUILT ENVIRONMENT & WASTE

Earth's Saving Program: Systematic Food Wastes Management

by Professor Dr. Sumiani Yusoff

Malaysia produces 38,000 tons of waste every day. According to Dr. Mohd Pauze, the Director of SWCorp, 44.5% of the waste collected was food waste, followed by plastic waste (13.2%) and diapers (12.1%). 2/3 of Malaysian food produced that tends to be eaten are wasted. Therefore, the highest composition in the waste composition is food waste. This has been a major concern because the disposal of food waste was found to be polluting the environment with the high production of landfill gas and leachate as the local climate of high precipitation. The release of methane gas from landfills and the hauling distance make waste management sector one of the largest carbon emitter in the country. Based on a research study conducted at Gazipur landfill by S. Mor *et. al.* (2006), leachate has significant impacts on groundwater quality near the landfill deteriorating its quality for drinking and other domestic purpose.

As the population increases, the generated amount of waste also increases. Integrated Solid Waste Management (ISWM) requires a systematic action for managing waste from its origin to its final disposal. This project aimed to transfer the knowledge on ISWM to the selected case study for the project which is at People's Housing Project (PPR) Block P20 community in Pantai Dalam as this community is close to the University of Malaya and is a typical example of high density concentrated high rise urban community dwelling without effective waste recycling and management. It is located south-west of Kuala Lumpur, densely developed comprising of high-rise urban housing including many commercial areas including restaurants and shop-lots. In Block P20, there are 1,200 people excluding the restaurant's owners. Improper waste management not only causes the community to have a more constricted area, but also the unhygienic environment.

Exploring the Entrepreneurial Mindset among Rural Entrepreneurs in a District of Hulu Terengganu

by Dr. Muhammad Abi Sofian Abdul Halim

Nowadays, the demand for products that are produced by rural community is becoming more competitive in commercial markets as well as in the sectors of; eco-tourism, herbal medicine, local food, and traditional handicrafts. Consequently, the demand of natural resources and rural livelihood are also been discussed in many perspectives of sustainable development and relate its to the market opportunity as well as to offer a variety of attractive products in commercial markets. Thus, the diversity of sustainable products that are offered by rural entrepreneurs has shifted consumer paradigm and been impacting demand for the uniqueness of sustainable products. Indeed, Hulu Terengganu is well-known as a district rich in valuable natural resources that can mobilize natural resources wisely. According to sociologists, the economic development of a rural community is closely linked to a community-based project model. This project model clearly explores that the ability of a rural entrepreneurs should reflect the strength of the local community in terms of their traditional livelihood, natural resources, and their own traditional knowledge and skills. Basically, the objective of this article is to present the first part of a report on the entire community-based project that is carried out in Hulu Terengganu. This project known as *Minda Niaga Usahawan Desa* focuses on helping community members to improve their entrepreneurial mindset in a context of eco-innovation in product development, compete with the commercial market, locus of control and engagement in social media.

Community-Based Ecotourism (CBE) Development and Local B40 Youth Community Empowerment

by Dr. Hazman Samsudin

As reported in many reputable articles and news, the Gini indicator in Malaysia is widening and will continue to do so in the coming years. In other words, the income inequalities between the rich and the poor among the Malaysian is widening. The trend is very obvious, especially between the rural and city communities. This shows that government expenditure and private investment have failed to create a spillover effect and less market penetration especially in the east coast of the peninsular region such as Kelantan and Terengganu (both states is considered as rural due to geographical location). Several studies pointed out that the cause of this situation is due to the low level of readiness of the rural communities to participate in the economy which finally excluded them and leaving the city community to take advantage of their own resources. Many studies pointed out that one of the factors contribute to the low level of readiness is lack of formal education.

This led to the first 'Nature Appreciation' program by the Institutes of Tropical Biodiversity and Sustainable Development (IBTPL), Universiti Malaysia Terengganu (UMT) in 2016. The initial aim of the program is to raise awareness and educate the rural communities surrounding the Kenyir Lake on biodiversity richness in the area which can be turned into a green economy and may raise their livelihood wellbeing. The decision to involve the Kenyir Lake community is made based on an earlier study which pointed out to alarming major youth migration out of the area seeking working opportunity. The effect of migration leaving the fertile agricultural land abandoned and led to diminished unique cultural and heritage inheritance among the youth (Mohammad et al., 2019).

Under this project, the rural communities of these three districts are studied, including their willingness to participate in the economy, the value of nature and heritage, the mind-set of the entrepreneur, community-government join management, the supply chain management, and potential ecotourism products. These studies are conducted by several researchers and postgraduate students through observations and structured data collection. The expected output of this study will be a well-trained nature guide equipped with strong management knowledge, postgraduate students, journal publications, books, IP's and module.

KIEPRO: Entrepreneurial Development Programs for Female Entrepreneurs in Terengganu

by Associate Professor Dr. Khatijah Omar

KIEPRO a series of entrepreneurial development programs aimed to improve the business performance among female entrepreneurs in Terengganu. This KIEPRO project is the joint project between Universiti Malaysia Terengganu and Yayasan Pembangunan Keluarga Terengganu (YPKT). Under KIEPRO project, there are series of scheduled development programs and each program has different emphasis and focus. For every program, different data set would be collected. This project studies the determinants of the decision to become an entrepreneur among the program participants, entrepreneurial personality, business performance, training needed, as well as business projection. Using data on 129 entrepreneurs who are the participants of KIEPRO project, several findings were tabulated. We find evidence that family and friends are the main factors that trigger the majority of the participants to be entrepreneurs (those individuals whose relatives and childhood friends are entrepreneurs are more likely to be entrepreneurs); personality also influences their business performance (individual characteristics including academic success and educational background, personal confidence, and willingness to take risks are also important determinants of entrepreneurship and business success), training is essential for them to maintain and improve their business and many of them expect that their business would grow with the help of some government and private agencies.

SYMPOSIUM 3: EDUCATION

Reduction of Illiteracy among Federal Land Development Authority (FELDA) Children Using Amud Curriculum Module

by Associate Professor Dr. Muhammad Faizal A. Ghani

The purpose of this study is to design effective teaching and learning modules to help students to master early reading skills and to assist teachers in determining appropriate strategies for effective literacy teaching. In particular, the implementation of this study is based model of Analysis-Design-Development-Implementation-Evaluation (ADDIE) by Michael Molenda (2003). The model includes three phases using the Design and Development Research (DDR) approach. The need analysis phase is to identify the current requirements for the development of the module. The design phase for developing a teaching and learning module to assist low performing students mastering early reading skills and assist teachers in determining appropriate strategies for teaching. Meanwhile, the evaluation phase is to evaluate the prototype module that was designed in the second phase.

Implementation of Pedagogy Module and 21st Century Curriculum for Technical and Vocational Education and Training (TVET)

by Associate Professor Dr. Norlidah Alias

The importance of providing technical and vocational education and training (TVET) graduates for Industrial Revolution 4.0 (I.R 4.0) in the Malaysian Educational System requires amendments in the teaching and learning methods among the teachers. The main purpose of the Pedagogy Module and the 21st Century Curriculum (Ped-KA-21) for TVET is to strengthen the pedagogy knowledge and skills through the optimization of technology usage. 74 teachers from Sungai Buloh Vocational College, Selangor have taken part in the implementation of this module which is comprised of Blended Learning in TVET, 21st Century Pedagogy, and Technical Communication through TVET's Curriculum. Implementation of each topic has used blended learning and hands-on active learning methods in each workshop. Research impacts are measured through special interviews conducted with nine participants. Results from the interviews show that the participants agreed that the implementation of this project would provide opportunities for teachers to enhance their technology skills, teaching interactively and increase students' interests. The teaching skills presented to the students are very practical with the idea of new innovations. In addition, most of the interviewees have implemented techniques in making videos, online quizzes, and interactive media in their classes. The positive impact of this project can be seen in fostering the skills of teachers to implement the 21st Century through the extension of ideas, knowledge and application of digital technological skills. In overall, implementation of Ped-KA-21 module has the potential to enhance the sustainability of TVET students in 21st Century learning in line with the national educational aspiration for TVET.

Pearl Project: A Taste of Milo for Fit Module Development

by Dr. Adelina Asmawi

Urban poor pupils function 2 levels below the average of the nation for English language proficiency. They suffer from low self-confidence, low motivation, and grapple with many urban poor issues such as bullying, drugs abuse, negligence, etc. Volunteers, if any, do not know how to address these issues without expertise from the university. Hence, the PEARL (Pedagogy of English Acquisition among Urban Poor Learners) project focuses on addressing these issues. PEARL focuses on English language competency but not in the traditional way. Pupils are exposed to language arts through various ways including the use of computer technology and other multimodal tools. The aim is to address the needs of the urban poor children and customize accordingly while ensuring quality and holistic development of English language competency, and other soft skills (much needed in 21st Century education) unlike those which focused on text or workbooks nor those focusing on examinations. Progress is when students showcase their development through performances like choral speaking and plays. These developments or lack of are recorded and detailed for the development of a PEARL module which is in progress.

Bringing Astronomy Community to Educate the People

by Dr. Raihana Abdul Wahab

The Astronomy Club plays a very important role for socializing astronomical sciences to local people through the outreach activities that are conducted. However, this role cannot be played by this club due to the main factors that are lacking in expertise and gain exposure of theoretical and practical training in a complete and orderly can be translated into activities that can be carried out with local communities. Thus, the project aims to improve the role of the astronomy club through theoretical and practical training. This project conducted for the astronomy club to convey knowledge with local communities.

This project to achieve objectives is as follows: Firstly, to provide consultancy and assist in the process of developing astronomy and repair clubs and to maintain the Community observatory and equipment. Secondly, transferring astronomy and practical knowledge to the community through the repair of the astronomy module used. Thirdly, to propose and guide hands-on astronomical projects to be implemented by the community to teachers and students of astronomy/astronomy club and local communities.

Empowering Youths with Physical Disability for Career Development

by Dr. Rafidah Aga Mohd Jaladin

Single mothers are part of the high-risk community. They are often marginalized and excluded by society due to heavy stigma and mistaken beliefs of their positions in the community. Some of them are victims of job discrimination, abuse and neglect. Hence, they often experience high anxiety, depression, and emotional stress. Additionally, they strive to care for their children without much thought of their own emotional wellbeing. They usually have low self-compassion. Moreover, given the association between self-compassion and mental health, the connection between self-compassion and resilience, a core feature of psychological wellbeing, is clear. Hence, increasing single mothers' levels of self-compassion, will increase their intrapersonal and interpersonal resilience in dealing with adversity and adapting with the community. The present study highlights the use and significance of action research in empowering single mothers based on a self-compassion model. The primary aim of the present study is to design, test and implement guidance and counselling activities based on a self-compassion model to empower single mothers by working with a core group of diverse stakeholders from women shelters and a public university.

The Implementation of Financial Literacy Module for B40 Youth

by Associate Professor Dr. Husaina Banu Kenayathulla

Financial literacy is an important but often ignored skill that is vital for the young. Lack of knowledge and understanding of financial literacy will directly affect the well-being of the individual. Research indicates that due to low financial literacy, individuals experience a variety of problems that are related to personal finances such as savings, investments, or old plans, credit and so on. In addition, a lack of financial literacy has been found to be correlated with higher debt burdens, incurring greater fees, loan defaults, and loan delinquency. Previous research indicates that socio-economic factors are important determinants of financial literacy. Most youths from lower-income groups are less likely to be exposed in terms of financial literacy. Thus, there is an urgent need to provide exposure and basic knowledge of financial literacy to the youth of B40 to avoid the persistence of this problem. If this problem is not curbed, it can cause serious problems such as having to declare bankruptcy at a young age; stress, depression and mental problems. This study involves 21 undergraduate students from a public university in Malaysia. These students are from the B40 income group and are recipients of alms from Lembaga Zakat Selangor. This project involves a series of workshops conducted to provide exposure to students on the financial literacy module. The financial literacy module which was designed previously for Fundamental Research Grant Scheme (FRGS) were modified and adjusted to fit the B40 youth.

SYMPOSIUM 6: TRANSLATIONAL RESEARCH

Automated Methadone Dispensing Machine for Methadone Maintenance Treatment Program

by Dr. Mohd Sayuti Ab Karim

In Malaysia, the drug addiction problem is regarded as a national chronic disease that still entails long term treatment and support even though the government has spent over a million ringgit to overcome it. Therefore, methadone maintenance treatment (MMT) program, a psychotropic medication method is initiated to effectively overcome the problem by using methadone syrup and only meant for the treatment of opioid dependence.

It is no doubt that the MMT program has reported success in reducing drug retention rate of the drug addicts. However, a part of the program itself has far encountered many challenges during its implementation. There were complaints on the dispensing process due to the usage of the syringe during dispensing had caused severely exhausted hands and prone to human error. This conventional manual methadone dispensed by syringe if prolonged will lead to carpal tunnel syndrome. Methadone is a synthetic opioid that is mainly used as a potent pain killer. Thus, a full force of energy is required during dispensing. Besides, each patient coming for treatment will have different doses of methadone dispensed. Consequently, this resulted in a high percentage of error such as non-accuracy dispensing and inefficient dispensing flow due to human error. In fact, inefficient time is taken and management during methadone treatment therapy due to a number of patients treated by the pharmacists per day is low.

To ensure the sustainability of the program, automated methadone dispensing machine is locally designed and fabricated for MMT program mainly to maximize pharmacist workflow productivity, reduce the occupational hazard of carpal tunnel syndrome and improve the performance procedure of methadone treatment therapy. To ensure the feasibility of the machine, the machine performances were evaluated through efficiency and accuracy tests that are thoroughly investigated to solve existing problems with the manual dispensing process.

Empowerment of The Disadvantaged Youth: IMPROVEMENT Of Heart Rate for Disabled Youth

by Dr. Nasrul Anuar Abdul Razak

As human beings, we need at least 60 minutes of physical activity per day to stay fit and healthy. However, due to some barriers such as accessibility, transportation, and social acceptance, youth with physical disabilities especially, are having problems to achieve that. This causes them to be less active and more obese compare to their non-disabled peers. Meanwhile, by getting regular exercise, it can improve cardiovascular health, prevent obesity, and even helps us sleep. Therefore, this project is meant to help disabled youth overcome the difficulties to get regular exercise and monitor the increase in their heart rate in order for them to fully benefit from the exercise.

USIM POST DISASTER RELIEF MISSION IN BANTEN University Networks in Post Disaster Rehabilitation

by Dr. Siti Sarah Seri Masran

This is a humanitarian project in response to the tsunami disaster following the earthquake that hit the Sunda Strait on 22nd December 2018 with a magnitude of 5 Richter Scale. Universiti Sains Islam Malaysia (USIM) had organized and dispatched a team for Banten tsunami relief mission with the objective to build clean water supplies in six villages for the use of the communities as well as a conducted trauma healing program for the school children in the affected area.

The 3-day delegation, from the 27th to 29th March 2019, was led by Prof Dato Dr. Musa Ahmad, the Vice-Chancellor along with 14 other members comprising university management officers, medical specialist from the Faculty of Medicine and Health Sciences, expert lecturers in faith and belief (aqidah) from the Faculty of Quran and Sunnah Studies and USIM specialised volunteer teams from non-academic staff members, The Smart Team. This was the first multidisciplinary international humanitarian community engagement led by the Centre for Community Engagement and Industrial Networking (PLiMJi). It was a collaborative effort by USIM with Mathla'ul Anwar University (UNMA) and Mathla'ul Anwar Care. USIM has long-standing networking with UNMA in various academic and teaching programs, thus it felt the need to assist UNMA and other universities affected by natural disasters to speed the rehabilitation process.

SYMPOSIUM 7: DEVELOPING MINORITY COMMUNITIES & SOCIAL WELFARE

Inclusive Sport and Recreation Programme for University Student with Disabilities: Wheelchair Tennis

by Yuhanis Adnan

As the number of students with disabilities (SWD) in higher education institution (HEI) increase, HEIs must be prepared to accommodate students with disabilities and remove barriers for their full access and participation in HEIs. In recent years, within the field of higher education, an inclusive education model has been the model to follow. The inclusive education model advocates that universities become institutions to which students can belong and in which they can participate and learn. Nevertheless, these policies and practices of university systems, which, in many cases have been futile due to inaccessible curricula, negative attitudes, and physical barriers. Furthermore, it has been suggested that instead of the medical disability model, university environments should, when it comes to disability, position themselves within the social model. This would mean changing the campus environment by eliminating the barriers created by society, making it as inclusive as possible.

An area which often overlooked by HEI, is sports and recreational participation among students with disabilities. The World Health Organization (WHO) encourages all to engage in regular physical activity to maintain lifelong health and quality of life, however, approximately 12% of adults aged 18–64 years have a disability, and nearly one half are inactive, creating a disparity in the participation rates in leisure-time physical activity for persons with disabilities. This is problematic because it contributes to lower quality of life, limits functional independence, and increases the likelihood of secondary conditions of disability.

Publicizing Public Service (PPS) through the value of openness consultative with ASNAF Community (OCAC). A Study at the Federal Territory of Islamic Religious Council, Kuala Lumpur.

By Associate Professor Sharifah Hayaati Syed Ismail Al-Qudsy

Publicizing Public Service (PPS) has been an effective way to gain customer feedback (CF) and reach customer satisfaction (CS). Customer satisfaction is one of the main indicators for quality public service (QPS). To obtain customer satisfaction efforts to localise services is a necessity. Among others, are through the inculcation of the value of openness and implementation of people consultative program as mentioned in Guidelines for Publicizing Public Service, the Public Service Circular No. 1 year 2015. Government agencies is no exceptional when it comes into QPS and CS issues. The Federal Territory of Islamic Religious Council (Maiwp) is one of them that always gained public attention especially by asnaf community (AC) on the issue of zakah application and distribution. Various issues raised such as complaints on delay and difficulty in getting zakah allocation. While issues on the part of AC involving their perception about rights to get zakah, life style and attitude, financial and life problem, lack of knowledge and information on zakah and about zakat communication channels. These are among the issues identified in relation to zakah allocation and distribution and asnaf community. Thus, this action research project focuses on four aspects; Communication channels provided by Maiwp for zakah application and distribution; AC understanding about zakah and zakah distribution; AC knowledge and information on zakah and AC life style and attitude on how to lead better life without to much depending on zakah.

PartiCPate in PRACTIVE for Parents with Cerebral Palsy Children: A Participatory Action Research

by Dr. Aishah Ahmad Fauzi

Some of the main barriers for parents of children with cerebral palsy (CP) to bring their child for regular therapy sessions at healthcare facilities are time constraint, logistic and financial. This may lead to inadequate physical activity sessions, muscular deconditioning, precipitates preexisting progressive musculoskeletal conditions such as contractures, spasticity, and degenerative arthritis, and henceforth affecting the child's physical abilities and quality of life. Home-based interventions may have some distinct advantages to overcome these barriers for children with CP to undertake exercise or physical activity programs. Implementing physical activity at home complements the standard face-to-face therapy with therapist to ensure continuity of therapy. A recent structured home-based exercise program intervention also had shown that it is a potential tool as a structured and rapid exercise home program, to achieve a short-term functional goal when added to standard care. PRACTIVE reflects a practical home program and actively can be done and supervised by parents of children with CP at home and during their convenient time. It does not replace the individualized therapy session, but it serves as a guide for parents to continue to do basic home program as well as empower them to teach other parents with CP children. In order to have a feasible home program for a tangible outcome, community engagement with action research approach in the development of PRACTIVE tool is important to have direct participation and contribution of ideas from community as well as to facilitate community empowerment. Our community partner, Alliance of Children with CP (GAPS) is a non-governmental organization (NGO) and parents support group, which one of their focuses is to empower parents with CP children in managing their child through programs with healthcare professionals.

SYMPOSIUM 10: HEALTH & WELLBEING

Program Cabaran Kurus dan Sihat Online

by Dr. Sareena Hanim Hamzah

Obesity is a major public health problem that adversely impacts morbidity, mortality, and quality of life. Obesity and aging have been associated with health problems and increased risk of chronic diseases such as cardiovascular disease, diabetes, and cancer. However, it has been shown that bodyweight loss of 5% of the initial body weight improved the risk biomarkers. This can be achieved through weight loss intervention program which emphasizes a lifestyle modification consisting of physical activity, dietary and behavioral changes. However, this approach requires time and commitment. A drastic increase in technology provides an alternative strategy. The internet-based or online weight loss intervention program is increasingly popular due to its accessibility and cost-effective as compared to the traditional face to face interventions.

The online weight loss intervention program may be convenient and accessible for the prevention and treatment of obesity. However, evidence on the efficacy of the program is limited, especially among the older population. The aim of this program was to provide knowledge and guidelines on an effective method for weight loss based on Sports Science application to the community. We also would like to determine the efficacy of the intervention program to reduce weight for health and fitness in obese women aged between 30-55 years old.

Developing A Breast Cancer Awareness Psychoeducational Tool In Malaysian Women To Improve Health Literacy and Early Detection

by Professor Nur Aishah Mohd Taib

Breast Cancer (BC) is the most common cancer in Malaysia but has the worst survival for BC in the Asia Pacific region. Among the main drivers for poor survival in Malaysia are women presenting with advanced or late-stage disease, poor adherence to treatment, poor health literacy, low socioeconomic group, and socio-cultural barriers. WHO in 2017 has focused on early diagnosis for populations without organized mammogram screening as a cost-effective measure in a low middle resource setting. A mortality reduction of 20% has been seen prior to the mammogram screening era in the USA. Although screening mammography has played a role in the early detection of breast cancer and improvement of survival by 16-40%, unfortunately, uptake of both clinical breast examination and mammography remains low at 53.5% and 7.9%, respectively in Malaysia.

Most of the factors accounted for late presentations include lack of awareness and information about basic symptoms of cancer, not attributing symptoms to cancer, fear, fatalistic view on breast cancer as well as poor access to screening and treatment. Symptom recognition remains an important public health issue in Malaysia. Educating women, their significant others and primary health and primary care providers in detecting early staging breast cancer are needed. Information about breast health can increase awareness and reduce late or advanced stage presentation. Health literacy is recognized as an integral component of high-quality health care.

Nutrition Investigation and Infographic Nutrition Information tool for Breast Cancer Survivors in UMMC

by Associate Professor Dr. Hazreen Abdul Majid

According to Global Cancer Observatory (Globocon), breast cancer is the most common cancers among Malaysian women with the highest incident and mortality. A cancer diagnosis may give an alert to the patients for undertaking health behaviour change, but the attitudes of cancer survivors towards dietary change varies. Healthy lifestyle with modifiable dietary factors are important to enhance long-term health among the cancer survivors. However, the supportive resources such as dietitians and counsellors are not usually available in clinics, causing only small percentage of the patient received dietary advice. Hence, nutrition diagnosis and nutrition intervention with infographic nutrition tool are important to improve their cancer care. A cyclical process of planning, acting, observing and reflecting is a useful model in this research. We aim to create infographic nutritional education tool for the breast cancer survivors and to evaluate the nutritional status of breast cancer survivors for a better understanding of their situations. As part of the result, two different phase of nutrition infographic information was created as the nutrition concern of during treatment and after treatment are different. The nutrition infographic information that available in English, Malay and Mandarin language were distributed and online resources were also available to the breast cancer survivors.

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