

## MOU SIGNING WITH MINISTRY OF EDUCATION



**16 July 2019 (Tuesday):** A Memorandum of Understanding (MoU) between UM and Ministry of Education Malaysia (MoE) was signed at the Institute of Teacher Education (IPG), Bandar Enstek, Negeri Sembilan.

The MoU signing ceremony was officiated by the YBhg. Dato' Kamel Mohamad, Deputy Secretary-General (Strategic Planning) representing the Secretary-General of MoE.

The collaboration between UM and IPG will be focusing in research, publication, writing,

training, think-tank, and consultation to make IPG a world class teacher training institution.

A total of 15 MoA and MoUs with various universities and agencies were signed on the same day. Ybhg. Dato' Amir Omar, Secretary-General of the Ministry of Human Resources; Ybhg. Dato' Sulaiman Wak, Deputy Director-General of Education (Teacher's Professionalism Development); YBrs. Dr. Rusmini Ku Ahmad, Rector of the Institute of Teacher Education Malaysia (IPGM) also attended at the MoU signing ceremony.

# PROMOTING STEM: FROM UM SCIENTISTS TO SCHOOL STUDENTS



6 April 2019 (Saturday): A team from Centre for Research in Biotechnology for Agriculture (CEBAR) was proud to represent University of Malaya at the 2nd National Science Week organized by the Ministry of Energy, Science, Technology, Environment & Climate Change (MESTECC).

With the theme "Science for Prosperity", CEBAR was invited to participate in the "Meet the Scientist" programme as part of the effort by MESTECC to promote Science, Technology, Engineering & Mathematics (STEM) to the school children and public. The programme was officiated by the Prime Minister, YAB Tun Dr. Mahathir Mohamad at the National Science Center, Bukit Kiara.

The team, which comprised of five Principle Investigators, two Research Officers, a Research Fellow, and a group of research students, tackled four thematic areas; i) Be Biosafe and Biosecure-"The Avengers Initiative"; ii) Nature's Medicine Cabinet-"Captain Marvel"; iii) The "Terra-Aquaman" & iv) Plant Photocopy-"New Beginning".

The young visitors were introduced to the importance of plant biosafety and biosecurity as food sources, demonstration on the use of Unmanned Aerial Systems (UAS) in biosurveillance, and the application of biotechnological methods in enhancing certain characteristics and improving the well-being of crops and aquaculture animals. Science-based interactive games were conducted to educate the young students on simple biological concepts in a fun and engaging way.

Deputy Director of CEBAR Dr. Tan Boon Chin, highlighted the importance of sharing with the public on how science is being conducted in the laboratory and the event present an amazing opportunity for the scientists in CEBAR to expose the school children to new technologies in biological research. CEBAR is very proud to be able to bridge the gap and hope the effort would spur great interest in the young participants in pursuing science in the future.





# INTERNATIONAL REFERENCE POINT FOR JOURNAL MANAGEMENT



Research Support Unit (USP) is a group of professional and management staff who embracing the support services for journal publications under Centre for Research Services (PPP), IPPP. Established for more than 10 years and formerly known as Scholarly Publications & Support Unit (SchoPus), USP provides consultation to journal editors to enhance the quality and prestige of journals publication globally by meeting the international standards of excellence (Web of Science and Scopus). USP also provides comprehensive Open Journal System (OJS) training for Journal Editors as well as seminars, workshops and talk focusing on journal publication.

And now, USP has successfully grown to become the reference place for local and international journal editorial members from institutions and agencies for training, workshop and consultation on journal management, analysis and indexing.

A workshop on Management, Indexing and Analysis hosted by USP to develop expertise in journal management and to identify the strengths and weaknesses of journal based on the SCOPUS & WOS selection criteria was held on August 14, 2019.

19 Journal Editorial Board Members from Universitas Airlangga, Indonesia have attended the one day workshop. The speakers were Associate Professor Dr. Che Zarrina Sa'ari, Editor-in-Chief for Afkar-Jurnal of Aqidah and Islamic Thought (Scopus & ESCI WoS Index Journal) on the topic "Sharing experience on journal successful index by Scopus and ESCI-Web of Science" and Mr. Mohd Salleh Sa'ari, Coordinator for USP on the topic "Journal Analysis, Management Practice and Criteria for Research Journals Publication".

# ESTABLISHMENT OF THE MALAYSIA ASSOCIATION OF RESEARCH MANAGERS AND ADMINISTRATORS (MYRMA)



## MyRMA's vision:

Excellence in research management towards realising impactful research)

## MyRMA's mission:

- To facilitate impactful research by identifying and establishing best practices in research management and administration
- To nurture excellence in the research management profession

The Association of Research Managers & Administrators (MyRMA) is a national-level association open to individuals and organizations interested in or supporting research management objectives, including organizations engaged in research such as Institutions of Higher Education (Public and Private), Institutions and research agencies, and Funders.

MyRMA aims to be a platform for research managers/administrators from the public, private, academic, and research agencies, as well as donors, to interact, exchange ideas, conduct collaborative activities (Figure 1). With that, it is expected that MyRMA will contribute towards enhancing the effectiveness of research management and the quality of the research itself, as well as the return on investment.

The formation of MyRMA on 31st July 2019 is the outcome from a National Project, the Malaysian Research Management and



Governance (MRMG) project. UM as the project implementer in collaboration with the Institutions of Higher Education Research Excellence Division (BKPI), Ministry of Education Malaysia (MoE), previously the Institutions of Higher Learning Excellence Planning Division (BPKI), Ministry of Higher Education (MoHE), have conducted the MRMG from the year 2015 till 2019. The MRMG project was funded by the Newton-Ungku Omar Fund (NUOF) under the Professional Development and Engagement, with MIGHT and British Council as the delivering partners that resulted in several visits to UK for data collection and benchmarking studies.

The MyRMA's founding members whom were also the members/participants of the MRMG project were from 6 different public universities (UM, UTM, UTHM, UNIMAS, UITM, and USIM) have shared similar views, whereby, Good research management and governance will push universities in producing excellent research.



# LAUNCHING OF MYRMA & 1ST ANNUAL GENERAL MEETING



A launching ceremony of MyRMA was held on the 22 September 2019 at the Dewan Jemaah, Library, Universiti Tun Hussein Onn Malaysia (UTHM), Batu Pahat, Johor. The Director General Higher Education, MoE, YBhg. Datuk Ir. Dr. Siti Hamisah Tapsir was invited to officiate the ceremony. The ceremony was also attended by the YBhg. Prof. Dato' Dr. Muhammad Fauzi Mohd Zain, Director, Institutions of Higher Education Research Excellence Division (BKPI), Department of Higher Education, MoE, YBrs. Prof. Dr. Ruzairi Abdul Rahim, Deputy Vice Chancellor (Research & Innovation), UTHM, YBrs. Prof. Dr. Noorsaadah Abd Rahman, Deputy Vice Chancellor (Research & Innovation), UM, Prof. Dr. Shaliza Ibrahim, President MyRMA, and Mdm. Kuek Yen Sim, Head, Newton Fund and Science, British Council.

The ceremony was held in conjunction with the 2019 Inventions by Institutions of Higher Learning (PECIPTA'19). More than 50

participants from the Malaysia Public and Private Universities attended to witness the historical moment for the Malaysia research management.

The 1st AGM of MyRMA was continued after the launching ceremony. The AGM started with the welcoming remarks from the President of the Board, Prof. Dr. Shaliza Ibrahim. The President continued with the MyRMA activities report before the host of the AGM called upon the Treasurer, Prof. Dr. Tajul Shuhaizam Said to present the MyRMA financial report.

## Contact info

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FB: <https://www.facebook.com/groups/MyRMA>



Board of MyRMA session 2019/21: (From left) Dr. Arman Shah Abdullah (Public Officer), Assoc. Prof. Dr. Mustafa bin Man (Ordinary Board member), Assoc. Prof. Dr. Aida Mustapha (Ordinary Board member), Dr. Abang Azlan Mohamad (Assistant Secretary), Assoc. Prof. Dr. Tajul Shuhaizam Bin Said (Treasurer), Prof. Dr. Shaliza Ibrahim (President), Prof. Dr. Noorsaadah Abd Rahman (Property Administrator), Assoc. Prof. Dr. Shukor Abd Razak (Vice President), Dr. Tan Hsiao Wei (Secretary), Ms. Siti Solehah Tenah (Assistant Treasurer), Dr. Mariam Aisha Fatima (Ordinary Board member), Dr. Mohd Hafizuddin Ghani (Ordinary Board member)

# UM - ALAM FLORA 3R ON WHEELS



8 August 2019 (Thursday) – UM is bound to follow the Solid Waste and Public Cleansing Management Act 2007, Act 672. Act 672 has provisions to fine households that fail to separate their waste, with the fine for the first offence at RM50 for a landed property, and RM100 for premises like shop lots, although this has never been enforced. A directive on 3R Campaign and No Single Use Plastics Policy were implemented in several phases in the campus.

As part of the long-term strategic partnership between UM (via UM Eco-Campus & UM Zero Waste Campaign) and Alam Flora Sdn. Bhd., a one-day event on '3R on Wheels' was held in the campus with the aims of promoting 3R campaign, educating public on waste separation at source (SAS), and increasing the recycling rate of UM.

This program contributes to the aspiration of Sustainable Development Goal (SDG) 11: Sustainable Cities and Communities and SDG12: Responsible Consumption and Production among staff, students and community to practice a more responsible lifestyle which leaves minimal harms and burdens to the environment while living in a healthier community.

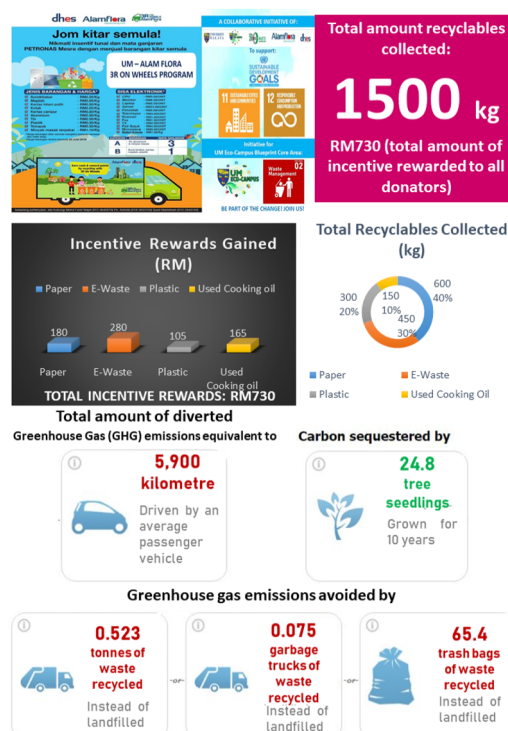
In the event, UM community managed to collect up to 1,500 kg of recyclables which

were classified into 4 main categories: paper (40%), e-waste (30%), plastic (20%) and used cooking oil (10%).

In terms of environmental contribution, the 1,500 kg of recyclables collected are equivalent to:

- 1) Average Green House Gases (GHG) emitted after driving for 5,900 km
- 2) Carbon sequestered by 24.8 tree seedlings grown for 10 years
- 3) 0.523 tonnes waste recycled instead of land-filled OR 65.4 trash bags of waste recycled instead of land-filled.

This program received good supported by UM's neighbouring community such as Bangsar South, Damansara, Taman Tun Dr Ismail, and Petaling Jaya; and further communities such as Shah Alam and Sungai Buloh. With good positive feedbacks and participation, this program will be held as part of UM's monthly event to promote 3R campaign, and reducing anthropogenic negative impacts to the environment.



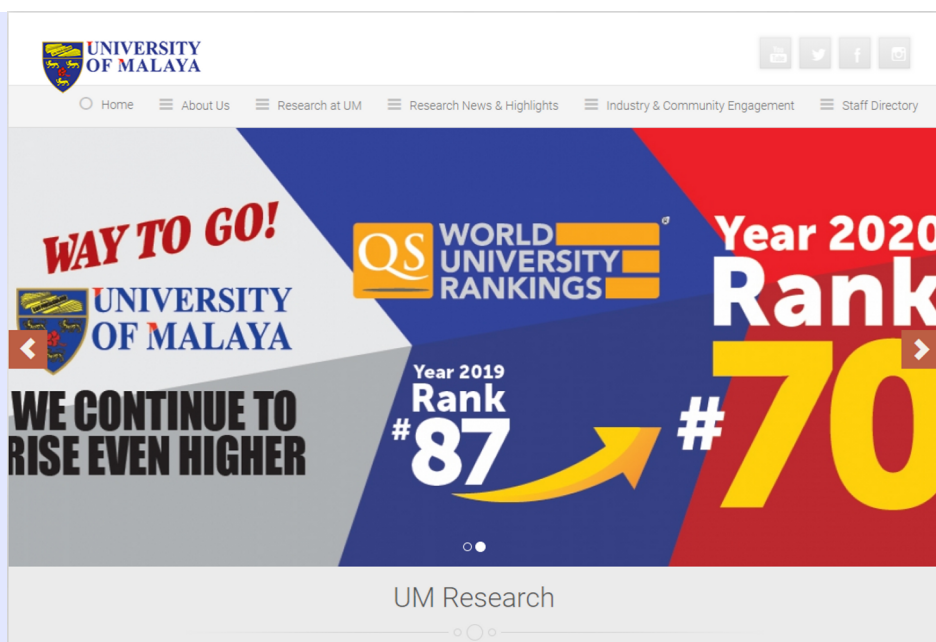




NO	NAME OF RESEARCHERS	TITLE	CATEGORY	RESULT
1.	Dr. Rosazlin Abdullah (PI), Nur Sa'adah Abdul Halim, Hud Sulaiman, Jaafar Yunus, Noor Sharina Mohd Rosli	Biorenewable Resource Biochar Kiln	Agriculture & Aquaculture (AA)	Gold
2.	Dr. Lee Hwei Voon (PI), Muhammad Ariff Hasanulbasori, Prof. Dr. Mohd Rafie Bin Johan, Prof. Dr. Chuah Cheng Hock, Puvaneswari Ramasamy	Renewable Biomass-Derived Cellulose Nanomaterial: Versatile Bio-based Emulsifier	Agriculture & Aquaculture (AA)	Gold
3.	Prof. Dr. Sumiani Yusoff (PI), Dr. Ng Chee Guan, Nur Shakirah Kamarul Zaman, Mairuz Asmarafariza Azlan	UM Zero Waste Campaign (UM ZWC) Waste to Wealth Initiative - Promoting Circular Economy	Environment & Renewable Energy (ERE)	Gold
4.	Assoc. Prof. Dr. Ubagaram Alengaram Johnson (PI), Prof. Ir. Dr. Mohd Zamin Jumaat, Dr. Yap Soon Poh, Dr. Mo Kim Hung, Iftekhaari Ibnul Bashar, M. Karthick Srinivas, Ahmed M.E. Alnahhal, K. Sudhakar Reddy	Innovative Bricks, Lightweight Zero-Cement Pavement Blocks and Blast Resistant Lightweight Concrete using Industrial Wastes	Industrial Design, Building Engineering & Architecture (IDBEE)	Gold
5.	Assoc. Prof. Ir. Dr. Bushroa Abdul Razak (PI), Prof. Ir. Dr. Mohd Hamdi Abd Shukor, Dr. Reza Mahmoodian, Prof. Dr. Kiyotaka Wasa, Nur Athirah M Sukrey	Novel Powder-based Physical Vapor Deposition (PPVD) Magnetron Sputtering	Manufacturing Technologies, Food Processing & Mechanization (MTFPM)	Gold
6.	Prof. Ir. Dr. Fatimah Ibrahim (PI), Prof. Dr. Thong Kwai Lin, Dr. Leo Bey Fen, Dr. Teh Swe Jyan, Shalini Muniandy, Aung Thiha, Ignatius Julian Dinshaw	Portable, rapid and sensitive point-of-care Salmonella detection device	Health, Medical, Pharmaceutical, Food & Supplement (HMPFS)	Gold
7.	Assoc. Prof. Dr. Wong Pooi-Fong (PI), Prof. Dr. Sazaly Abu Bakar, Dr. Sam Sing-Sin, Dr. Khor Eng-Soon	SDen-Detect for Severe Dengue Diagnosis	Health, Medical, Pharmaceutical, Food & Supplement (HMPFS)	Gold
8.	Prof. Ir. Dr. Fatimah Ibrahim (PI), Prof. Dr. Jongman Cho, Ir. Dr. Mas Sahidayana Mokhtar, Karunan Joseph, Syarifah Aisyah Syed Ibrahim, Mohd Iz'aan Paiz Zamri, Prof. Dr. Sajaratulnisa Othman	SMARTMF: Non-Invasive Cholesterol Monitoring	Health, Medical, Pharmaceutical, Food & Supplement (HMPFS)	Gold
9.	Assoc. Prof. Dr. Vengadesh Periasamy (PI), Sara Talebi, Souhad M.A. Daraghma	Solid-State Sensors for Disease Detection: Digitalizing Diagnostics and Pathology for Connected Healthcare	Health, Medical, Pharmaceutical, Food & Supplement (HMPFS)	Gold
10.	Prof. Dr. Amir Feisal Merican bin Aljunid Merican (PI), Junaidi Omar, Chang Lee Wei, Dr. Thamilaani a/p Manaharan, Mohd Shamsurie Firdaus Zulkepli, Norhidayah Abdul Latif, Nor Shafiqah Kamarudin, Fatimah Huda Mohammad Noor	meZOO: Mobile Encyclopedia of the Zoo	Education, Community Development & Social Innovation (ECDSI)	Silver
11.	Prof. Dr. Amir Feisal Merican bin Aljunid Merican (PI), Mohamad Hilman Nordin, Muhammad Zaki Kamaruddin, Syafiq Alia'm, Nur Azwa binti Mohammad Rozy, Nor Mimi Farar Hana binti Mohd Pozi	RIMBA: An Edutainment Experience in Teaching & Learning - Linking Unique Physical Locations to the Digital World	Education, Community Development & Social Innovation (ECDSI)	Silver
12.	Dr. Amirrudin bin Kamsin (PI), Atif Aiman bin Abdul Halim, Dr. Saqib Iqbal Hakak, Nurul Shamimi binti Kamaruddin	Tahqeeq: Digital Quran Authentication App	Education, Community Development & Social Innovation (ECDSI)	Silver
13.	Assoc. Prof. Ir. Dr. Ching Yern Chee (PI), Prof. Dr. Chuah Cheng Hock, Prof. Dr. Azman Hassan, Prof. Dr. Iskandar Yaacob Idris, Prof. Ir. Dr. Ramesh Singh Kuldeep Singh, Assoc. Prof. Dr. Tan Chou Yang, Dr. Mohamed Haniffa Abdul Cader, Dr. Yang Jian Lee	OneSol Bionanocomposite Lacquer for Polymer Thermic Film Application	Agriculture & Aquaculture (AA)	Silver
14.	Prof. Ir. Dr. Mohd Ali Hashim (PI), Prof. Dr. Yatimah Alias, Dr. Adeeb Hayyan, Dr. Haneef Farzana Hizaddin, Assoc. Prof. Ir. Dr. Nghoh Gek Cheng, Prof. Wan Jefery Basirun, Dr. Azila Binti Mohd Idris, Dr. Fathiah Mohamed Zuki, Dr. Mohd Usman Mohd Junaidi, Assoc. Prof. Dr. Mohamed E.S. Mirghani, Dr. Mostafa Yahya Etwadi, Maher Rageh, Dr. Maan Hayyan, Dr. Afiah Ahmed Hamid Al Khalili	Green Solvents for Malaysia's Palm Oil Industry, Catalysis Food Processing, Halal Technology and Green Energy	Environment & Renewable Energy (ERE)	Silver
15.	Prof. Dr. Ramesh T. Subramaniam (PI), Assoc. Prof. Dr. Ramesh Kasi, Dr. Vengadesvaran Balakrishnan, Dr. Fatin Saiha Omar, Nur Khuzaimah Farhana Abd Aziz, Norshahirah Mohamad Saidi, Mohd Zieauddin Kufian, Assoc. Prof. Dr. Ezra Morris Abraham Gnanamuthu, Dr. Shahid Bashir Baig, Mariyam Hina, Prof. Dr. Ramesh Singh, Dr. Ramis Rau Subramanian	Hybrid Bridging Electrochemical Energy Storage Device - An Accession to Power Sources: SUPERCAPATTERY	Environment & Renewable Energy (ERE)	Silver
16.	Assoc. Prof. Dr. Juan Joon Ching (PI), Christelle Wong Pau Ping, Izazi Azzahidah binti Amin, Lee Kuan Ching, Ir. Dr. Lai Chin Wei, Prof. Dr. Phang Siew Moi, Dr. Pan Guan Ting, Prof. Dr. Thomas Yang Chung-Kuang	Ultra-battery Based Dual-ion System	Environment & Renewable Energy (ERE)	Silver
17.	Assoc. Prof. Dr. Ubagaram Alengaram Johnson, Prof. Dr. Marios Soutsos, Dr. Daniel Kong, Dato' Ir. Dr. Khoo Ping Sen, Arreshvina Narayanan, Ooi Jieun Lin	Low Carbon Footprint Precast Concrete Products for an Energy Efficient Built Environment	Industrial Design, Building Engineering & Architecture (IDBEE)	Silver
18.	Dr. Nur Azah Hamzaid (PI), Jannatul Naeem, Assoc. Prof. Dr. Nazirah Hasnan, Muhammad Afiq Dzulkifli, Assoc. Prof. Dr. Amelia Wong Azman	Mechanomyography-based Functional Electrical Stimulation	Health, Medical, Pharmaceutical, Food & Supplement (HMPFS)	Silver
19.	Assoc. Prof. Dr. Raihanah Azahari (PI), Assoc. Prof. Dr. Asmak Ab Rahman, Dr. Mohd Zaidi Daud, Dr. Muhammad Ikhlas Rosele, Mohamad Salfiyudin Mohd Pandi	Model Pengurusan Harta Pusaka Masyarakat Islam Kontemporari	Education, Community Development & Social Innovation (ECDSI)	Bronze
20.	Assoc. Prof. Dr. Muhammad Faizal A. Ghani (PI), Assoc. Prof. Dr. Zaharah Hussin, Dr. Abd. Khalil Adnan, Edria Nita Mustaffa	Reka Bentuk Model Program Perkembangan Profesionalisme Guru Malaysia	Education, Community Development & Social Innovation (ECDSI)	Bronze
21.	Ir. Dr. Lim Kok Sing (PI), Daryl Tan, Hani Hareiza Abd Raziff, Assoc. Prof. Dr. Yeong Chai Hong, Prof. Dr. Harith Ahmad	Laser-driven Hot Needle with Dynamic Temperature Control System for Percutaneous Hyperthermia Cancer Therapy	Health, Medical, Pharmaceutical, Food & Supplement (HMPFS)	Bronze

## UM RESEARCH WEBSITE

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