

FSG Proud Host of Bulan Inovasi 2019



Prof. Dato' Dr Rahmat Mohamad, Deputy Vice Chancellor ICAEN of UiTM (Centre), Prof. Dr Farida Zuraina Mohd Yusof, Dean of FSG (Left) and Assoc. Prof. Dr Noorlaila Ahmad, the Chairman of *Bulan Inovasi* 2019 (Right), during soft launch of *Bulan Inovasi* 2019

Interesting inside

FSG-Industry Linkage
Day 2019

FSG Researcher receives
Merdeka Award Grant
for International
Attachment 2019



14 November 2019
Dewan Agung Tuanku Canselor

A glance at our New
Dean



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FSG Researcher receives Merdeka Award Grant for International Attachment 2019

Five exceptional young Malaysians received the prestigious Merdeka Award Grant for International Attachment 2019 including a young scientist from FSG UiTM, Dr Mohd Azri Ab Rani. He will be conducting research on the Sodium Batteries at University of Texas, USA for three months. Among the recipients are Juliana Ooi, Feng Ying Xing, Chrishen Gomez and Dr Yanny Marliana Baba Ismail. Sultan of Perak and Merdeka Award Royal Patron, His Royal Highness Sultan Nazrin Muizzuddin Shah Ibni Almarhum Sultan Azlan Muhibbuddin Shah Al-Maghfur-Lah presented the certificates to the recipients. In his keynote address, Sultan Nazrin said that one of the most rewarding aspects of presenting the grant each year is getting to be part of this next step in the journey of a young Malaysian, in pursuit of his or her aspiration. Congratulations once again to all the recipients!



Dr Mohd Azri Ab Rani (three from right) with His Royal Highness Sultan Nazrin Muizzuddin Shah Ibni Almarhum Sultan Azlan Muhibbuddin Shah Al-Maghfur-Lah and Merdeka Award Grant 2019 recipients.

FSG-Industry Linkage Day 2019

By: Assoc. Prof. Dr Siti Norasmah Surip
Coordinator for Industrial Linkage & Alumni



FSG-Industry Linkage Day 2019 was held on 23rd April 2019 with the theme of Academia-Industry Interactions: Bridging the Gap. The program was organised by Office of Research, Industrial Linkages & Alumni, Faculty of Applied Sciences (FSG), UiTM Shah Alam in collaboration with Research Innovation Business Unit (RIBU) and Corporation Malaysian Technology Development (MTDC). The aim of the program was to bring the industries closer to the university through research and innovation, involving the dissemination of knowledge to SMEs and industry entrepreneurs. In addition, the program also encouraged the academia to conduct demand-driven based research that benefited our community. During the program, the participants were exposed to the Public-Private Research Grant (PPRN) joint venture research project, Synergized Industry-Experimenter Research Grant Initiative (SInERGI), Commercialization Research and Development Fund (CRDF) and other Industrial Grants. A showcase of research products was conducted to attract more opportunities for commercialization and partnerships between FSG and the industries. The organizers also provided an e-book, which is a directory of FSG researchers to the industry as a reference for further engagements. A total of 29 companies participated and engaged through the FSG-Industry Linkages Day 2019 program.



FSG-Industry Linkage Day 2019: List of Companies



Industrial partnership and MoU signing between UiTM and Livecube Global Sdn Bhd:

First MoU Signed by UiTM's Newly Appointed Vice Chancellor

*By: Assoc. Prof. Dr Siti Norasmah Surip
Coordinator for Industrial Linkage & Alumni*

A signing ceremony of the Memorandum of Understanding (MoU) between Universiti Teknologi MARA (UiTM) and Livecube Global Sdn. Bhd. was held on 19th February 2019 at the Tuanku Syed Sirajuddin Chancellery Building, UiTM Shah Alam. UiTM was represented by Vice-Chancellor, Emeritus Professor Ir. Dr Mohd Azraai Kassim, while Livecube Global was represented by its Chief Executive Officer, Mrs. Hermadiana Binti Mat. The ceremony was witnessed by the Dean of the Faculty of Applied Sciences, Professor Dr Hajah Farida Zuraina Mohd Yusof and Senior Business Analyst of Malaysian Bioeconomy Development Corporation Sdn. Bhd., Mr. Emir Adzhar Yahya. Through the memorandum, both parties will work together in the development and commercialization of biodegradable bio-based plastic materials to support the efforts towards non-plastic life in 2018-20130 and Malaysia's healthier by 2030. This project was initiated by Assoc. Prof. Dr Rahmah



Mohamed as the head of Green Polymer Research Group from Faculty of Applied Sciences, UiTM Shah Alam. Both parties will also work together in key activities such as research collaboration in producing eco-friendly biodegradable plastic products. Livecube Global Sdn. Bhd. will aid in the commercialization effort of the plastic products based on natural ingredients from plants. The application of this basic material is in line with the efforts towards green technology and environmentally friendly initiatives. Additionally, this collaboration will involve industrial training programs at undergraduate and postgraduate degree levels. Through these activities, the transfer of knowledge and skills development between universities and industries will be established which greatly support the Ministry of Education Malaysia agenda.



Empowering Women in Chemistry via A Global Networking Event : IUPAC Breakfast

The School of Chemistry had organized a breakfast networking event on 12 February 2019 and connected with other groups of women chemists around the world. The event was conducted as a way of strengthening the bonds between women in chemistry. It was initiated by Prof. Datin Dr Rohaya Ahmad and Prof. Dr Nor Hadiani Ismail. The event started with a welcoming remark by the organizer and Head of School of Chemistry, followed by a sharing session. Among the speakers were Assoc. Prof. Dr Sabiha Hanim Saleh, Prof. Ts. Dr Chan Chin Han, Assoc. Prof. Dr Zainiharyati Mohd Zain, Prof. Dr Hadariah Bahron, Prof. Datin Dr Rohaya Ahmad, Prof. Dr Nor Hadiani Ismail and Prof. Dr Norashikin Saim.



Empowering Women in Chemistry A Global Networking Event : IUPAC Breakfast

Watch us **LIVE!** February 12, 2019 (Tuesday)
8.45 to 10.00 am (Local Time)

A Sharing Session Among Women Chemists @UiTM
#IUPAC100 #GlobalBreakfast #PPKP #FSG



Faculty of Applied Sciences
UiTM Shah Alam



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@ppkp_fsg

A glance at our New Dean

By: Assoc. Prof. Dr Khalilah Abdul Khalil and Assoc. Prof. Dr Nazlinda Abdullah

Professor Dr Farida Zuraina bt Mohd Yusof, a PhD graduate from the University of Ulster, Northern Ireland, was appointed as the new Dean of the Faculty of Applied Sciences (FSG), Universiti Teknologi MARA, effective from 1 January 2019 until 31 December 2021. Her appointment came about from the first voting system conducted at FSG. Prof. Dr Farida Zuraina expressed her gratitude to everyone who voted her and promised to be efficient and trustworthy in carrying out her responsibilities and duties as a dean. After 5 months into the post, she is thriving well and getting full, undivided support from all the faculty members.

Currently, she is a Professor in Molecular Biology who is actively involved in academic research, publications and activities in the area of human genetics and biochemistry. She has won many awards and grants which gained her local and international recognitions. Among her numerous accolades, Prof. Dr Farida Zuraina was the recipient of the Yayasan Penyelidikan Antartika Sultan Mizan (YPASM) Research Grant under the YPASM Smart Partnership Initiative (2017-2019). She has authored and co-authored many academic books, academic chapters,

papers and workbooks, and the list goes on. In addition, her academic supervision duties have produced 2 PhD and 25 MSc graduates.

Previously, Prof. Dr Farida Zuraina was attached to Universiti Kebangsaan Malaysia (UKM) from November 1995 to August 2004. She joined FSG, UiTM in September 2004 where her academic involvements include posts as coordinator, chairman, fellow, committee member and others. She became the coordinator of the School of Biology in 2011 until 2013. In 2016, she was appointed as the Deputy Dean (Academic Affairs) right until 2018, before becoming the Dean of FSG.

At home, she is a loving wife, a doting mother of 5 and a grandmother of a cute baby. She keeps herself busy in managing the household while keeping abreast of the latest research in her field.



As the new dean, her aim is to lead and guide FSG as one of the best faculties in UiTM through the display of excellence by the faculty staff members and students. Among her biggest challenges as a dean are to inculcate happiness, to provide support and to promote the sense of belonging among the faculty staff. Hence, she had initiated a few innovative methods such as the mentoring program between the professors and young academics staff and an improved management system to achieve her aspirations in increasing the happiness index among the faculty members. She feels very strongly that these initiatives will help her resolve the challenges in order to lead FSG to greater heights.

On a concluding note, the team of FSG e-bulletin would like to wish her all the best in her duty as the Dean of FSG and pledge our full support and loyalty to Prof. Dr Farida Zuraina. May Allah SWT guide her in becoming one of the best deans ever, Insha Allah.



Assoc. Prof. Dr Khalilah Abdul Khalil (standing left) and Assoc. Prof. Dr Nazlinda Abdullah (standing right) with Professor Dr Farida Zuraina bt Mohd Yusof.

TIMELINE

Work History of Prof. Dr Farida

**Nov 1995-
Aug 2004**

Lecturer at UKM

Sept 2004

Join FSG, UiTM

2011-2013

Coordinator of the
School of Biology

2016-2018

Deputy Dean
(Academic Affairs)

2019

Dean of FSG

FSG OUTBOUND MOBILITY PROGRAMME – MAE FAH LUANG UNIVERSITY, THAILAND

By: Dr Asmida Ismail,
FSG Mobility Committee

Three FSG students; Muhamad Noor Ikmal Bin Zailan Affendi, Athirah Abdullah and Siti Nor Adlika Arzemi had been selected to enroll in ASEAN International Mobility for Students (AIMS) Programme at Mae Fah Luang University, Thailand. The students are from Food Science & Technology Programme (AS246). They arrived in Chiang Rai on 7 Feb 2019 and stayed in Thailand for one semester which ended on 15 June 2019. They seized every opportunity to gain knowledge and experiences together with students from 11 other countries through lectures, lab sessions and visits.



FSG OUTBOUND MOBILITY PROGRAMME – UNIVERSITAS INDONESIA, INDONESIA

By: Dr Asmida Ismail,
FSG Mobility Committee

Two FSG students from Applied Chemistry Programme (AS245) are currently in Indonesia for their industrial attachment. Nadia Athirah Binti Yunus and Saffa Izzati Binti Kaderi are attached to Department of Chemical



Engineering, Universitas Indonesia, INDONESIA since 31st Jan 2019. They were introduced to research topics related to their research work which also involved collecting raw materials for the study in mud propolis. The materials were collected in Tangerang, about 2 hours away from the university.

Both students were given separate projects to work on. Nadia's project is on Purification of Coumabiroin and Propolis Stingless Bee (*Tetragonula biroi*) as an Active Substance for Uric Acid Medicine Using Centrifugal Partition Chromatography while Saffa Izzati is working on Scale Up Production Simulation and Economic Evaluation of Encapsulated Propolis with Arabic Gum and Maltodextrin Using Spray Drying Method. Laboratory works were conducted at Integrated Learning Research Centre (ILRC), Universitas Indonesia.



National Intervarsity Industrial Hygiene Quiz 2019

Dewan Mawar Bestari
24th April 2019

The very first edition of National Intervarsity Industrial Hygiene Quiz was successfully hosted by the School of Chemistry and Environment, Faculty of Applied Sciences, UiTM Shah Alam and co-organized by Malaysian Industrial Hygiene Association (MIHA) on 24th April 2019. 'Unlocking Knowledge at the Speed of Thought' was chosen as the theme of the quiz. A total of 21 groups consisted of 63 participants from various institutions such as UKM, UPM, UNISEL, MSU, CUCMS, UNIMAP and UiTM took up the challenge and competed.

Puan Hajah Norhazlina Mydin, President MIHA, Assoc. Prof. Dr Norizan Ahmat, Head of School of Chemistry and Environment and Dr Ismaniza Ismail, Chairman of National Intervarsity Industrial Hygiene Quiz were present. For preliminary round, the participants competed individually where they were seated separately from their group members. The participants were tested on their knowledge about Industrial Hygiene, ranging from history to the current practice and acts or regulations related to the field. Top 5 teams qualified for the final round which were selected based on the cumulative marks. The finalists were UKM, UiTM, UPM (2 teams) and UNISEL. During the final round, 20 multiple choice questions were given on the same area of subject matter. UPM1

won the final round followed by UiTM and UKM. UPM2 and UNISEL were placed 4th and 5th, respectively. The winners and finalists brought home certificates, trophy and cash prizes. The event was a success and concluded at 12.30 p.m.



2nd International Conference of Occupational Health and Safety 2019

Js Luwansa Hotel, Jakarta, Indonesia
24th – 26th April 2019



On 24th to 26th April 2019, Universitas Indonesia (UI) organized the 2nd International Conference of Occupational Health and Safety 2019 held at JS Luwansa Hotel, Jakarta, Indonesia. Dr Ismaniza Ismail was invited to share her research work at the conference, and her trip was sponsored by the organizer.

At the closing ceremony, Dr Ismaniza was presented the Best Presenter Award, by Prof. Akira Yakusochi, President of Japan Society of Physiological Anthropology. She brought back a certificate, plaque and IDR 700,000.



Dr Ismaniza Ismail had the pleasure of attending the Korean Industrial Hygiene Association (KIHA) Winter Conference 2019 held on 12 - 15 Feb 2019 at the Ocean Resort, Yeosu, South Korea. The trip was sponsored by two professional bodies; the Malaysian Industrial Hygiene Association (MIHA) and the Korean Industrial Hygiene Association (KIHA).

Concurrently, she also took the opportunity to bring a total of 10 university students (under the MIHA Students Chapter) to the conference. The students were from Cyberjaya University College of Medical Sciences (CUCMS),

Universiti Putra Malaysia (UPM) and Universiti Teknologi MARA (UiTM). Besides attending the conference, the delegates also visited the Korean Occupational Safety and Health Agency (KOSHA), Hyundai Motors plant (Ulsan) and the LG Chemical plant (Yeosu).

Dr Ismaniza as MIHA representative also attended the ANOH Board Meeting where the new President was introduced (Prof. Dong-uk Park), and the challenges and future directions of ANOH were discussed. Planning for the upcoming ANOH Conference in Bangkok was also presented with inputs from the board members.

KIHA Winter
Conference
&
Technical Visits
to Yeosu and
Ulsan, South Korea
12th – 15th Feb
2019



Latex and Rubber

Compounding Seminar (Module 1)

By: Dr Norazura Ibrahim,
Orchestrated Polymer Research
Group (OPoR)



Group photo of speakers and participants of Latex and Rubber Compounding Seminar (Module 1)

The Latex and Rubber Compounding Seminar (Module 1) was conducted by Polymer Technology Youth Society (PTYs) in collaboration with the Orchestrated Polymer Research Group (OPoR) on 12th April 2019 at Faculty of Applied Sciences, UiTM Shah Alam. The seminar aimed to encourage students and researchers to develop an understanding and to provide a platform to discuss current research and development on latex and rubber issues.

The first lecture was given by Mr. Khairul Muis Bin Mohamed Yusof, Chief Chemist II of the Sime Darby Research Sdn. Bhd. Mr. Khairul Muis delivered a lecture on two

topics, "Best rubber estate practices for good quality of field latex & cup lump supply" and "Latex concentrate processing, quality monitoring & quality issues". Next, a lecture on "Rubber compounding ingredients and products formulations" was given by Prof. Dr Azemi Samsuri who is the Director of ANURAZ Sdn. Bhd. and a member of the Editorial Board Committee of Journal of Rubber Research (JRR). Both speakers are alumni of Polymer Technology Programme. The seminar was attended by 60 participants which consisted of undergraduate and postgraduate students.



NR

Technology Day

By: Dr Norazura Ibrahim

PUTRAJAYA January 30, 2019 - The NR Technology Day which was held at Heriot Watt University had a line-up of highly experienced researchers and experts among the natural rubber research communities. Bearing the theme "Natural Rubber: From tree to tire", this event was a technical-focus occasion towards cooperation among Continental partners, NR producers, research institutes and academic institutions to explore the technical potential of natural rubber and add value to the chain from tree to tire. This event offered participants the starting ground to exchange ideas, discover novel opportunities, acquaint with colleagues,



Assoc. Prof. Dr. Rahmah Mohamed (second from right) as the oral presenter representing the Faculty of Applied Sciences, UiTM. Meanwhile, Dr. Norazura Ibrahim (middle) and Puan Hairani Tahir (second from left) both as the poster presenters.

meet new friends and broaden their knowledge. Among the universities which took part in the events were Heriot Watt University, University of Nottingham, Prince Songkla University, Universiti Teknologi MARA, University Putra Malaysia and Universiti Sains Malaysia.

SEMINAR ON

Innovative Approaches for Thermal Analysis and Calorimetry

By Zainathul Akhmar Salim Abdul Salim

(Polymer Technology, Faculty of Applied Sciences, UiTM Shah Alam)

The seminar on “Innovative Approaches for Thermal Analysis and Calorimetry” was held on Wednesday, 6th March 2019 at Faculty of Applied Sciences, UiTM Shah Alam. The seminar was organized by SETARAM Instrumentation (France), a leading company that provides a full range of thermal analysis and calorimetry instruments, in partnership with Interscience Sdn. Bhd and Polymer Technology Programme, Faculty of Applied Sciences, UiTM Shah Alam. The talk was given by Mr. Eddie Yu, the Product Manager from SETARAM Instrumentation. The audience which involved lecturers, laboratory staffs, postgraduates and undergraduate students were exposed to the latest

and cost-effective techniques of thermal analysis and calorimetry in characterizing materials for organic, inorganic, energy, environmental, life sciences, as well as efficiency and safety of all kinds of chemical processes. Demonstration on the application of a thermal analyser was also conducted at the end of the slot which focusing on sample preparation method, handling technique of instrument and the correct way on analysing data that have been collected from samples.



Assoc. Prof. Dr Dzaraini Kamarun, representing Polymer Technology Programme, Faculty of Applied Sciences, UiTM Shah Alam presented a token of appreciation to Mr. Eddie Yu from SETARAM Instrumentation.



Group photo of the participants with the speaker, Mr. Eddie Yu and Mr. Link Brown, Global Commercial Director, SETARAM Instrumentation, France (seating, forth from the right)

Forensic & Science-Tech Festival: CrimeFest – No Way Out

By : Dr Rossuriati Dol Hamid

Forensic and Science-Tech Festival was organized for the first time by Forensic Chemistry Society (FOR SIS) at Centre of Foundation Studies, UiTM, Dengkil on 9th March 2019. The event was officiated by Assoc. Prof. Dr Mohd Tajudin Mohd Ali, who was the Deputy Dean of Student Affairs at FSG. The main goal of this festival is to expose students to the diversity of science fields especially in forensic science. The chosen **“Crimefest: No Way Out”** theme coincides with the basic principle of forensic science introduced by Dr. Edmond Locard that every touch by a criminal will leave a trace behind. This is the basis for the scene investigation in identifying a suspect. There were demonstrations of the latest scientific methods and technology used in resolving criminal investigations by the Royal Malaysia Police (PDRM) and forensic societies from UiTM, UKM, USM and Smart College during the festival. Visitors also experienced various science and technology experiments by FSG bachelor degree students. In addition, foundation students had the

opportunity to learn various undergraduate science programs offered at the FSG, UiTM. This is a good platform for the students to determine their direction in the future.

Several innovative products from FSG lecturers who had won national competitions were also exhibited at the festival. There was also a sharing session from forensic expert, Amidon Anan who was the former head of investigative unit, CSI, forensic lab, Bukit Aman.

He had experience in the CSI team for 30 years and had been involved in investigations of high-profile cases such as Canny Ong Lay Kian and Altantuya Shaariibuu Setev. A career-sharing session by FSG alumni was also held.

It is hoped that from this festival, more students will pursue their career in the field science and technology.



Young Scientist Project

By : Assoc. Prof. Dr Sabiha Hanim Saleh

Young Scientist project was held at Sekolah Kebangsaan Sg. Udang, Klang on 25th April 2019. The project was organised by Community Committee, Faculty of Applied Sciences in collaboration with the School of Chemistry and Environment, UiTM Shah Alam. There were 30 school students, 2 teachers, 3 UiTM students and 11 lecturers participated in this project. The project aimed to transfer the knowledge of science to the students through fun activities. The project intended to spark some interests among students in science subjects at the primary level. Five activities related to basic chemistry knowledge were innovatively conducted by lecturers to help the students understand the basic concept of science in chemistry. School students were given the opportunities to handle each activity with the guidance of the lecturers.

The following individuals were the lecturers and students involved in the Young Scientists project:

Lecturers

- Assoc. Prof. Dr Sabiha Hanim Saleh
- Assoc. Prof. Dr Khalilah Abdul Khalil
- Assoc. Prof. Dr Tengku Elida Tengku Zainal Mulok
- Dr Noraini Hamzah
- Dr Najmah P.S Hassan
- Dr Lim Ying Chin
- Dr Norazila Ibrahim
- Dr Maslinda Musa
- Dr Amirah Amalina Ahmad Tarmizi
- Dr Siti Nur Liyana Mamaud
- Mrs. Roslinda Fauzi

Students

- Erma Hafiza Ibrahim
- Nurul Asyikin Abd. Halim
- Abdul Syahid Hamdan



Measurements in Analytical Chemistry and Statistical Analysis (MACS) Workshop

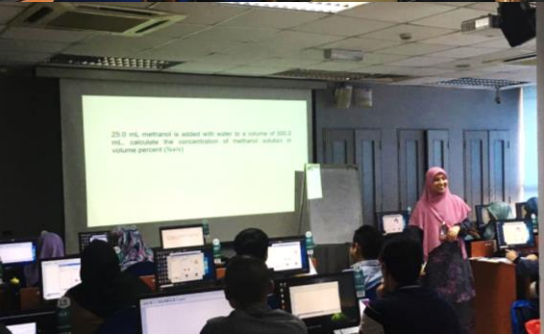
By : Assoc. Prof. Dr Sabiha Hanim Saleh

Measurements in Analytical Chemistry and Statistical Analysis (MACS) Workshop was successfully organized by the School of Chemistry and Environment, Faculty of Applied Sciences, UiTM Shah Alam on 16th April 2019 at Perpustakaan Tun Abdul Razak 1 (PTAR 1). There were 33 participants involved in this workshop. The facilitator of this workshop was Assoc. Prof. Dr. Sabiha Hanim Saleh. The main objective of the workshop was to enhance the skill on basic analytical chemistry, especially in calculating the concentration of chemical solutions in different units. Such knowledge is very important for proper and accurate sample preparation method. The use of this analytical chemistry is not only confined to the field of chemistry, but also other areas which include medicine, engineering, environmental, pharmaceutical, plantation, forensics, biology and toxicology. Statistical analysis such as accuracy, precision, error and replication were also shared to the participants. Besides that,

the participants were taught on how to analyze data using SPSS (Statistical Package for the Social Sciences) as a method of reporting scientific findings. The following are the names of the committee members of MACS workshop:

Committee Members

Assoc. Prof. Dr Sabiha Hanim Saleh
Dr Noraini Hamzah
Dr Nor Suhaila Mohamad Hanapi
Dr Hamizah Mohd Zaki
Dr Wan Razarinah Wan Abdul Razak
Dr Faeiza Buyong
Dr Rossuriati Dol Hamid
Mrs. Zarila Mohd Shariff
Dr Mohammad Noor Jalil
Naquiddin Faiz Roszaimi



FSG band together to bust medical myths on a forum

By: Reena Rashid

A forum was organized by the School of Chemistry and Environment on "Mitos Kesihatan di Media Sosial" on 28th February 2019 at Anjung Seri Budiman, UiTM Shah Alam. An overwhelmed count of 500 attendees from staff and students, including members of the public came to support the forum and was eager to seek its information to be shared on that day. Invited panels were Dr Sakinah Sulong, a medical doctor specialize in Family Medicine from the Ministry of Health Malaysia (KKM), Mr. Dziehan Mustafa, Senior Principal Assistant Director from National Pharmaceutical Regulatory Agency (NPRA) Malaysia, Dr Che Puteh Osman, a Felo from Atta-ur-Rahman Institute for Natural Product Discovery, who is also a lecturer of Faculty of Applied Sciences, Universiti Teknologi MARA.

The forum discussed the misconception of health issues and myths that has been radically shared by uncertified individual on the social media platform such as Youtube, Facebook, Twitter and blogs. The forum set as an important platform to educate the attendees which are the social media users on the importance of apprehending medical fact from a qualified medical doctors rather than from those who willingly share the half-truth of the medical myth to the public without proper reasoning. Social media users must always be critical in analyzing the information before digesting them blindly.

Part of the knowledge shared during the forum were the actual definitions of chemical-free food and

cosmetic products, using backyard herbs and plants as a substitute for treating illness, cultural restrictions and habits during after-birth confinement, product classification and labelling by the NPRA, usage of cosmetics that is not KKM-approved and busting the medical myths. Due to positive feedbacks of this event, a similar forum with more extensive contents will be planned to be conducted at Dewan Agong Tuanku Canselor (DATC), UiTM Shah Alam in year 2020. In the meantime, we would like to wish thank you to the members of the committees for organizing such event and hope to see all of you at DATC next year!



Prof. Dr Faridah Zuraina, Dean of FSG and Assoc. Prof. Dr Norizan Ahmat, Head of School of Chemistry and Environment with invited panels.



Moderator Reena Rashid with panel Dr.Sakinah Sulong

Bioprocess Technology and Food Microbiology Interactive Day



By: Assoc. Prof. Dr Khalilah Abd Khalil

Students from two programs (Biomolecular Science (AS244) & Food Science and Technology (AS246)) were successfully organized Bioprocess Technology and Food Microbiology Interactive Day. In this informative event, the students presented posters, digital presentations using QR code as well as prototype displays based on research articles given. Industry Revolution 4.0 (IR 4.0) was also featured in their presentations. The objective of this activity was to prepare the students to be more innovative and critical thinking to solve a problem for industry and community.

This half day event began with a talk by Antarctic researcher, Assoc. Prof. Dr Aqlima Ahmad from Universiti Putra Malaysia and her talk entitled "The Application of Antarctic Microorganism in Biodegradation Activity" followed by student presentations in front of judges and lecturers. This type of event can enhance soft skills among students which will equip them to meet the requirements by the industry.



MS ISO 19011:2011 (Audit Management System Procedure) Courses

By: Siti Noorsyarafana Binti Sahimi & Dr Siti Roha Ab Mutalib

MS ISO 19011:2011 (Audit Management System Procedure) course was successfully conducted for the first time on 23rd Mac 2019, Saturday at Epsilon room, Block A, Faculty of Applied Sciences, UiTM Shah Alam. The course was attended by 77 participants and 16 committee members of Persatuan Teknologi Makanan (PERTEMA). There were 6 slots of lectures and practice sessions. The course was compulsory for the 7th semester of Food Science and Technology program students. Six speakers and facilitators from AGI Resources led by Mr. Mohd Syaiful Bahtiar Bin Nan were invited by PERTEMA in which Dr Siti Roha Binti Ab Mutalib as the Club Advisor and Noorul Athiera Binti Mohd Azlie as the Program Director. The team of speakers and facilitators aided PERTEMA in creating a course module and handled the Audit Management System Procedure course.

The objectives of this course were to expose the students on the differences between external and internal audits that are practiced by the food industry as well as the documentation and report in auditing, and to enhance the students' marketability after graduation. It may be continued in the future as it provides a great opportunity for the students to broaden their knowledge, apply what they have learned in

"Quality Assurance" subject in semester 7 which includes hands-on practice, and pursue their own effort for certifications. Furthermore, by participating in this course, the students are better prepared and ready to enter the industry. The students will also gain a competitive advantage and stand out from other graduates in terms of knowledge on the proper management of the audit system.



My E-HALAL Course & Food Handlers Training

By: Nurizatul Husna Binti Mohd Yusof & Dr Siti Roha Ab Mutalib

MyE-Halal course (Kursus MyE-Halal) and Food Handlers course (Kursus Pengendali Makanan) are two compulsory courses for Food Science and Technology students which are held every semester by *Persatuan Teknologi Makanan* (PERTEMA) to final year students. These programs provide the knowledge on the food industry requirements in operating a food business. The students were also introduced about the handling of food as set by the Ministry of Health.

The program was organized in collaboration with AGI Resources, an experienced food handler training school which is recognized by the Ministry of Health. These trainings were opened to students who were currently in Semester 6. The training was held on 9 March 2019 at Faculty of Applied Sciences, UiTM Shah Alam. The objective of the programs were to introduce and strengthening science majors and food technology students in the *halal* field in Malaysia.

The course aimed to educate the students on the

techniques of proper food handling and cleanliness. The activities throughout the day were talks on the Malaysian Halal Certification Manual in accordance with the latest specifications and technology of food industry in Malaysia. In addition, students were also taught about MyE-Halal needs and mock MyE-Halal as well as they have been exposed with the challenges and realities of employment in food technology. The training had provided the students with a certification on Food Handling and E-Halal that will be of value when they work for the food industry.



Corporate Social Responsibility Program

MMC and PERTEMA at Gardenia



By: Muhammad Shafiq Bin Mustafa & Dr Siti Roha Ab Mutalib

On 9th March 2019, a corporate social responsibility (CSR) program was held by MMC Corporation Berhad in collaboration with *Persatuan Teknologi Makanan* (PERTEMA) of Faculty of Applied Sciences, UiTM Shah Alam which was held at Gardenia Bakeries Baker Maison, Seksyen 26 Shah Alam. The objectives of this program were to play a key role in the communities in enhancing the quality of education, to engage in volunteerism through projects and to enhance the social and economic well-being of the community. The activities started with an introductory session about Gardenia Company followed by a short presentation given by a Gardenia representative.

Participants also had an opportunity to visit the production line to observe the manufacturing process from its raw product until the commercialization stage. Explanations were given on the process machine and its functions with detailed explanation on the systematic scheduling for cleaning purpose. From this programme, the participants were exposed to the status of the food industry as well as able to identify the functions of the process machine in the industry and how to operate them. It creates awareness among participants about the importance of the details of a product before it is being commercialized. In conclusion, this programme had given a great opportunity and exposure for the students in deciding their future career.



A Slice of Science (ASoS), Think Food, Think Science

By: *Dahlia Binti Azzif & Dr Siti Roha Ab Mutalib*

A science innovation-themed program was held from 14 to 16 March 2019 at Sekolah Menengah Sains Tuanku Jaafar, Kuala Pilah, Negeri Sembilan. *Persatuan Teknologi Makanan* (PERTEMA) of Faculty of Applied Sciences, UiTM Shah Alam joined forces with Food Technology Society (FTS), Kelab Sahabat and Kelab PROSIS of UiTM Kuala Pilah. The programme aimed to disseminate knowledge on food science and technology to students and local communities and to encourage students to be creative and innovative in solving problems. The program was opened to schools and local communities. Several activities were conducted including "Classes for Food Wonders" by PERTEMA where knowledge on food science was related to biology, physics, chemistry and mathematics. Other activities such as "FoodRush Explorace" was also held which involved 10 groups of students. There was also "Lab Tunnel" activity which was an interesting mimic of a tunnel with food science experiments exhibition handled by facilitators of the program to demonstrate the application of food science in our daily lives through fun hands-on activities. The activities were conducted at the school's Biology Lab. "Fooditional Games" was also held which was a fusion of food and traditional Malaysian games such as "Bowling Kelapa" and "Colek Lidi". School teachers and staffs were also joined in the fun with "Swicy Saucy" and "Meatilicious" workshops presented by Dr. Siti Roha Ab Mutalib and Dr. Fadhliah Lamun Jailani whereby the production of pineapple sauce and meatballs was demonstrated.

Agencies such as Pejabat Kesihatan Daerah Kuala Pilah and Nutrition Board of Ministry of Health Malaysia were also invited to showcase exhibitions on "Anti-Dengue and Smoking" as well as healthy diet planning. The

program was also a part of an academic mission for the faculty in disseminating information about the science courses offered at Faculty of Applied Sciences to the students, parents and local communities. The event was able to give a different perspective that science is not only limited to fields like medicine and engineering, but it goes beyond that such as applications in other science fields. This program has left a lasting impact to all the attendees.



FSG OUTBOUND MOBILITY PROGRAMME – National Chiao-Tung University (NCTU), Taiwan

By: Corporate Communications Unit

The faculty is happy to award a travel fund (living expenses) to two of our postgraduate students, Mr Farish Irfal Mohd Saaïd (PhD) and Mr Akmal Arsyad Mohd Raffi (MSc). They will be undertaking a research attachment at the Department of Electronic Engineering, National Chiao-Tung University (NCTU), Taiwan for 3 months. Other stipends will be covered by NCTU and Ministry of Science and Technology -(Add On Grant for International Cooperation).

The award was presented by Professor Dr Farida Zuraina Mohd Yusof, Dean of Faculty, this morning. Also present during the ceremony, Professor Dr Ilham Adenan, Head of Postgraduate Office (PPS), Associate Professor Dr Tan Winie, the students' supervisor, Professor Dr Rozana Mohd Dahan, Deputy Dean of Research, Alumni and Industrial Linkages, Puan Umairah Koya, Deputy Registrar, and PPS staffs. We wish both students all the very best in their research project!



FSG received a visit from— Khon Kaen University, Thailand

By: Corporate Communications Unit

On Friday, 19 April 2019, Faculty of Applied Sciences UiTM Shah Alam, Malaysia received a visit from the Faculty of Science, Khon Kaen University, Thailand, headed by Assoc. Prof. Dr Nithima Khaorapong (Head of Chemistry Department). She was accompanied by Mr. Nuttapong. Kadsanit who is an internship student. The meeting was held at Meeting Room A301 from 2.45 pm until 4.30 pm. During the meeting, there was an exchange of information on research capabilities and ideas of potential research collaborations in the near future.



FSG received a visit from— Universitas Muhammadiyah Surakarta, Solo, Indonesia

By: Corporate Communications Unit

On Friday, 22 April 2019, Faculty of Applied Sciences UiTM Shah Alam, Malaysia received a delegate from Universitas Muhammadiyah Sukarta, Solo Indonesia. The delegate consists of four lecturers and 14 students. They have visited FSG laboratories and further discussed for possible research collaboration, students exchange, and double degree program in the near future.



Achievements and Awards



Fakulti
Sains Gunung

Congratulations!

Electrochemical Material
and Sensor (EMaS) Research Group
Faculty of Applied Sciences

on winning the

**Grand Prize and
CREST Special Award**

during

Tech Plan Demo Day

organised by

Leave a Nest Malaysia Sdn. Bhd

which was held on

20th July 2019

Dewan Mahkota, SME Corp.,
Platinum Sentral, Kuala Lumpur



Assoc. Prof. Dr. Zainiharyati Mohd Zain - Head (FSG), Assoc. Prof. Dr. Yusairie Mohd (FSG),
Dr. Lim Ying Chan (FSG), Dr. Sinihuabudin Mohamed Norden (Famas),
Dr. Mohammad Noor Jalli (FSG), Assoc. Prof. Dr. Wan Fazida Hanim (FKE),
Dr. Rosnani Dori Hamid (FSG), Dr. Huzinda Hussin (M.D.) (UPM),
Dr. Norazreen Zakaria (FSG), Mr. Mohammad Hutsuaden Mohd Zak (FSG),
Mr. Fariz Osman (FSG)

Massive congratulations to EMaS Research Group, led by Associate Professor Dr Zainiharyati on this huge achievement!



**CONGRATULATIONS
DR KHAIRUL ADZFA**

WINNER WORLD START-UP
FESTIVAL COMMUNITY AWARD
2019

START-UP COACHING GUIDE
WORTH
OF USD 35,000

WORLD HALAL
CONFERENCE & MIHAS




**ALGY
(ALGICIDE)**



**EZ-FERT
(FERTILIZER)**



**WAY-GY
(ALGAL CREAM CHEESE WAFER)**

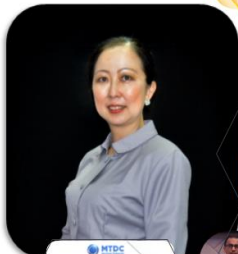
Products produced by Dr Khairul Adzfa Radzun and start up company Wisdom Creations Sdn Bhd.

Achievements and Awards



Fakulti
Sains Gunaan

Congratulations!



**Professor Ts Dr Chan Chin Han &
Ms. Suhaila Idayu Abdul Halim**

(Lecturer and PhD candidate of Faculty of Applied Sciences, UiTM Shah Alam)

on receiving the
2nd Runner UP
for Pitching Competition
during

**Business Accelerator Workshop,
Malaysian Technology Development Corporation (MTDC)
Central Region 2019**
which was held at
TM Convention Centre
(1st -2nd July 2019)



Prof. Ts. Dr Chan Chin Han and Ms. Suhaila Idayu Abdul Halim (Lecturer and PhD candidate) from Faculty of Applied Sciences, UiTM Shah Alam participated the Pitching Competition with presentation entitled A quick way to fingerprint your product!



Fakulti
Sains Gunaan

Sekalung Tahniah!

Kepada

**DR MOHAMAD FARIZ
MOHAMAD TAIB**

atas penganugerahan

ANUGERAH AHLI AKADEMIK HARAPAN
(KELOMPOK SAINS & TEKNOLOGI)
ANUGERAH AKADEMIK UNIVERSITI 2018

oleh

UNIVERSITI TEKNOLOGI MARA MALAYSIA

30 APRIL 2019



Dr Mohamad Fariz Mohamad Taib received Anugerah Ahli Akademik Harapan (for S&T cluster) during Konferensi Akademik held on 30th April 2019.

Achievements and Awards



Assoc. Prof. Dr Tan Winnie has won the Gold and Special Awards during the 18th Malaysia Technology Expo 2019. She presented her product High Performance Low Cost Electrode for Energy Storage System.



Congratulations Amierul Hakiem Azhari on winning the Best Poster Award during the 32nd International Conference of Analytical Sciences (SKAM 32) 2019.

Amierul presented his work on the Structural and Physical Properties of Chitosan Based Urea Fertiliser in Soil and Water. He received a certificate and prize money for the award.

He is supervised by Dr Mohd Muzamir Mahat and Dr Rosmamuhamadani Ramli.

Well done Amierul Hakiem!

Achievements and Awards



Mohd Hadzrul Hisham Bin Abdul Manaf, a PhD student under the supervision of Dr Fatimah Salim won the 1st runner up at UiTM Three Minutes Thesis (3MT) Competition 2019. His PhD thesis is on Reversal of Insulin Resistance by Benzimidazole-Based Compounds Through Galectin-3 Inhibition, and summarize his research into such a catchy 3MT presentation entitled '*All for One!, One for All!*'

Nur Atikah Nordin, a graduate from Food Science and Technology Program, Faculty of Applied Sciences has been awarded a '**Student of The Year Award**' from Malaysian Institute of Food Technology (MIFT). This award was presented to Nur Atikah during the International Food Innovation & Product development 2018. Congratulations to Nur Atikah for this huge achievement!



Congratulations!

NUR ATIKAH NORDIN

Graduates from Food Science and Technology Program (AS246),
Faculty of Applied Sciences

upon receiving

STUDENT OF THE YEAR AWARD

from

MIFT

Malaysian Institute of Food Technology

during the

**INTERNATIONAL FOOD INNOVATION
AND PRODUCT DEVELOPMENT 2018**

13 December 2018

#fsgpadu

UiTM

Lawatan Naib Canselor ke FSG



Soft Launch Bulan Inovasi 2019

CMT HUB UiTM Shah Alam, 14 Mei 2019



#BulanInovasi2019

Soft Launch Bulan Inovasi 2019

CMT HUB UiTM Shah Alam, 14 Mei 2019



#BulanInovasi2019

Bengkel Pemantapan dan Pemurnian Pelan Strategik FSG 2019



Misi Akademik 2019



YBhg. Prof. Emeritus Ir. Dr. Mohd Azraai with Misi Akademik team during the Ekspo Selangkah ke UiTM.



Ekspo Selangkah ke UiTM, 30 – 31 March 2019



Misi Akademik at Kolej Matrikulasi Melaka 18 – 19 Jan 2019



Misi Akademik at Kolej Matrikulasi Johor 11 – 12 Jan 2019

Program Jom Masuk IPT, MAEPS Serdang, 30 – 31 Mac 2019

Staff got Promoted to Professors: (VK6) and (VK7) Congratulations!



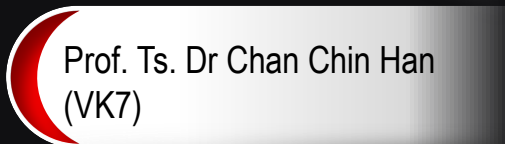
Prof. Dr Mohd Nazip
Suratman (VK6)



Prof. Dr Nor Hadiani Bt Ismail
(VK6)



Prof. Dr Ri Hanum Yahya
Subhan (VK6)



Prof. Ts. Dr Chan Chin Han
(VK7)



Staff got Promoted to Associate Professors (DM54) Congratulations!

Associate Prof. Dr Zuraida
Khusaimi



Associate Prof. Dr Noraain
Hashim



Associate Prof. Dr Nor Zaini
Ikrom Binti Zakaria



Staff got Promoted to Senior Lecturer (DM52) : Congratulations!



Puan Nurzulaifa Shaheera
Erne Bt Mohd Yasim

Puan Ernie Eileen bt Rizlan
Ross



Staff got Promoted: Congratulations!



Encik Azlan Bin Zul Aman
Shah

Puan Norahiza Bt Mohd Soheh



New Doctors in the house



Dr Khairil Anuar Bin Jantan

Imperial College London

Supervisor: Dr James Wilton-Ely

Thesis title: Multimetallic Compounds and Nanoparticles
Functionalised with Transition Metal Units for
Application in Catalysis

Dr Farah Liyana Bt Muhammad Khir

The University of Western Australia

Supervisors: Prof. B D Nener Prof. G Parish

Thesis title: Functionalisation and Optimisation of
GaN/AlGaN/GaN HEMTs for use as Chemical
Sensors in a Reference-Electrode-Free System



Dr Suzana Ratim

Universiti Kebangsaan Malaysia

Supervisors: Prof. Dr Sahrim bin Ahmad and Prof. Dr Saifollah
bin Abdullah

Thesis title: Nanokomposit Hibrid Epoksi Diperkukuh LENR
berpengisi Nanozarah Silikon Karbida dan Nanotub
Karbon



Dr Nur Nadiyah Bt Md Yusof

The University of Edinburgh

Supervisors: Prof. Cathy Dwyer and Dr Susan Jarvis

Thesis title: The Effect of Indoor Management Systems for
Pregnant Ewes on Maternal Behaviour Expressed
After Parturition



New Doctors in the house: Continue

Lyena Watty Zuraine bt Ahmad

Universiti Islam Antarabangsa Malaysia

Supervisor: Assistant Prof. Dr. Zarina bt Zainuddin

Thesis title: Induced Mutagenesis in Varietal Development of Stevia



Dr Hamizah Binti Md Rasid

Universiti Kebangsaan Malaysia

Supervisors: Assoc. Prof. Dr Siti Fairus Mohd Yusoff (SV) and Prof. Dr Khairiah Haji Badri (Co-SV)

Thesis title: Penyediaan dan Pencirian Getah Asli Cecair Termodifikasi sebagai Pengisi dalam Salutan Poliuretana



Dr Maryam Bt Husin

University of Malaya

Supervisor: Dr Zul ilham zukiflee lubes

Thesis title: Study of *Leucaena leucocephala* seed as a new source for cellulose



Dr Norfatimah Bt Mohamed Yunus

Universiti Sains Malaysia

Supervisor: Dr Khaironizam Md Zain, Prof. Dr Siti Azizah Mohd Nor and Datuk Prof. Dr Mohd Zaki Salleh

Thesis title: Elucidation of systematics of Malaysian *Tor* spp. through mitogenomic analyses and development of DNA barcoding Markers



Dr Siti Khairiyah Bt Mohd Hatta

University of Leeds

Supervisors: Dr Stephen Compton

Thesis title: *Ficus deltoidea* and its associated fig wasps in Peninsular Malaysia



Congratulations!

Anugerah Perkhidmatan Cemerlang 2018



- | | |
|--|--|
| 1. Assoc. Prof. Othman Bin Haji Ahmad | 13. Encik Mohd Nizam Bin Yusof |
| 2. Dr Ahmad Faiza Bin Mohd | 14. Dr Shahril Anuar Bin Bahari |
| 3. Dr Nor Suhaila Binti Mohamad Hanapi | 15. Dr Maslinda Binti Musa |
| 4. Dr Che Puteh Binti Othman | 16. Dr Syed Yusainee Bin Syed Yahya |
| 5. Dr Mohd Azri Bin Ab Rani | 17. Dr Suzaini Bt Abdul Ghani |
| 6. Dr Mohd Lokman Bin Ibrahim | 18. Dr Mohammad Noor Bin Jalil |
| 7. Dr Siti Roha Ab Mutalib | 19. Puan Yuslinawati Binti Mohd Yusoff |
| 8. Dr Noor Asnida Binti Asli | 20. Puan Noor Amira Binti Kasim |
| 9. Dr Nur Amalina Binti Mustaffa | 21. Encik Anuar Bin Ibrahim |
| 10. Dr Khairul Adzfa bin Radzun | 22. Puan Roslizawati Binti Ishak |
| 11. Encik Ezlan bin Elias | 23. Encik Jamal Abdul Naseer Bin Che Deraman |
| 12. Dr Suzana Ratim | 24. Puan Wan Raihan Binti Wan Mohd Roslan |

Our Journey Back to Freedom

Today I ponder why I never wonder
how it feels like to be a non-believer
We are born believers and it's our destiny
to embrace Islam without question or query

Now I hear their stories of the search of the truth
and how it liberates them from the path they once chose
but alas we... the born believers
with our predestined faith
are often lost in the world's crazy maze

Do we care to discover how
to submit ourselves fully?
or restrict ourselves further
by ignorance and stupidity?

And now I ponder why I never wonder
why Allah has chosen us to be believers

Let's pray for His guidance in continuing our journey
To show us the straight path
and be protected by his mercy
May He bestow upon us the intelligence and wisdom
to find our way home and regain our freedom

JY Mutmainnah
16/3/2019
11:58 pm
edited 13/7/2019



Brisk Walk 2019 –Taman Tasik Shah Alam



FSG Trekkers: 2019



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