

FSG TRAILBLAZING IN 2020





INNOVATIONS & AWARDS

UNIVERSITI TEKNOLOGI MARA
Pahang
Timbalan Naib Canselor
(Penyubbukan dan Inovasi)

Congratulations

to the Remarkable Inventors of UiTM:
Patents and Utility Innovations Granted for 2020

6
Utility
Innovations

10
Patents

Lead Inventor: Mohd Zafar Mohd Zaini Faculty of Information Management, UiTM Kelantan Aptamers Storage UI/2017021020 / Utility Innovation / MY-170452-A	Lead Inventor: Dr. To. Noh Anwar Faculty of Electrical Engineering, UiTM Sarawak A Wireless Controlling System for Power Switching of Air Air Conditioner PI/201900071 / Patent / MY-170453-A
Lead Inventor: Puanjie Joo Faculty of Office Management and Technology, UiTM Sarawak An Apparatus for Fastening Sheets of Materials PI/2019001028 / Patent / MY-170208-A	Lead Inventor: Prof. Dr. Ku Halim Ku Halim Faculty of Chemical Engineering, UiTM Shah Alam A Method of Regenerating Spent Bleaching Earth PI/2019002306 / Patent / MY-170208-A
Lead Inventor: Dr. Lim Ying Pui Faculty of Chemical Engineering, UiTM Shah Alam A Method for Treating Wastewater and A Composition to be Used Thereof PI/2019001185 / Patent / MY-170450-A	Lead Inventor: Assoc. Prof. Dr. Jamal Hussain Faculty of Medicine, UiTM Sungai Buloh A Polymerase Chain Reaction Kit for Detecting Sarcosine UI/2017030050 / Utility Innovation / MY-170450-A
Lead Inventor: Assoc. Prof. Dr. To. Noh Anwar Faculty of Chemical Engineering, UiTM Shah Alam A Method of Treating Wastewater and A Composition to be Used Thereof PI/2019001185 / Patent / MY-170450-A	Lead Inventor: Assoc. Prof. Dr. Mohd Samsul Faculty of Chemical Engineering, UiTM Shah Alam A Method of Treating Wastewater and A Composition to be Used Thereof PI/2019001185 / Patent / MY-170450-A
Lead Inventor: Assoc. Prof. Dr. Ruzman Mohamed Faculty of Applied Sciences, UiTM Shah Alam A Method of Producing a Thermoplastic Composite PI/2019002304 / Patent / MY-170211-A	Lead Inventor: Assoc. Prof. Dr. Mohd Yusoff Faculty of Electrical Engineering, UiTM Shah Alam A Web Based Wireless Client Server Viewing Test System for Remote Display PI/2019002306 / Patent / MY-170208-A
Lead Inventor: Dr. Salmah Mohd Nuz Faculty of Applied Sciences, UiTM Shah Alam A Process for Durable Press Finish PI/2019002304 / Patent / MY-170211-A	Lead Inventor: Assoc. Prof. Dr. Mohd Fadzil Anwar Faculty of Chemical Engineering, UiTM Shah Alam A Method of Producing a Thermoplastic Composite PI/2019002304 / Patent / MY-170211-A
Lead Inventor: Prof. Dr. Norazli Abd. Rahman Faculty of Chemical Engineering, UiTM Shah Alam A Method of Producing a Thermoplastic Composite PI/2019002304 / Patent / MY-170211-A	Lead Inventor: Assoc. Prof. Dr. Mohd Fadzil Anwar Faculty of Chemical Engineering, UiTM Shah Alam A Method of Producing a Thermoplastic Composite PI/2019002304 / Patent / MY-170211-A
Lead Inventor: Dr. Ruzman Mohamed Faculty of Applied Sciences, UiTM Shah Alam A Method of Producing a Thermoplastic Composite PI/2019002304 / Patent / MY-170211-A	Lead Inventor: Assoc. Prof. Dr. Mohd Fadzil Anwar Faculty of Chemical Engineering, UiTM Shah Alam A Method of Producing a Thermoplastic Composite PI/2019002304 / Patent / MY-170211-A

**Unleashing Potentials
Shaping the Future**

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UNIVERSITI TEKNOLOGI MARA
Fakulti Sains Gunaan

Congratulations!

SILVER

Assoc. Prof. Dr. Zainiharyati Mohd Zain & Team

Rapid Detection of COVID-19 Virus (SARS-CoV-2) in Human Nasopharyngeal Swab Specimens Using Aptamers based Impedimetric DNA Biosensor

MTE 2020 Special Edition
Malaysia Technology Expo
COVID-19 International Innovation Awards
2 Nov 2020

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Fakulti Sains Gunaan UiTM Shah Alam | FSG UiTM | Faculty of Applied Sciences (FSG)

UNIVERSITI TEKNOLOGI MARA
Fakulti Sains Gunaan

Congratulations

FSG Researchers
for winning medals
MALAYSIA TECHNOLOGY EXPO (MTE), 2020
20-22 February 2020
Putra World Trade Centre

Prof Chan Chin Han
Gold Award
Best Award Category
A Quick Way to fingerprint your Products!

Dr Mohd Muzamir Mahat
Bronze Award
Bioelectronic Smart Textiles

Dr Zakiah Mohamed
2 Silver Awards

- 1) Magnetic Nanosensor Synthesized by Azadirachta Indica
- 2) New Solid State Magnetic Sensors based Electron-Spin Perovskites Maganites

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#fsgpadu

UNIVERSITI TEKNOLOGI MARA
Fakulti Sains Gunaan

Congratulations

PROF TS DR HAJI MOHAMAD KAMAL HAJI HARUN
PROF CHM TS DR CHAN CHIN HAN

on the development of IMM Standards on fingerprinting of paints, raw materials and dried coatings based on FTIR technology for oil and gas industry

IMM
Institute of Materials, Malaysia

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Fakulti Sains Gunaan (FSG) | Fakulti Sains Gunaan UiTM Shah Alam | #fsgpadu | #fsggaya

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INNOVATIONS & AWARDS

Congratulations

Dr Kavitha Rajagopal

Best Poster Presenter
Virtual International Conference
on Science Technology Research and
Innovation

17 June 2020

UTM **Dekan & Warga
Fakulti Sains
Gunaan**

Faculty of Applied Sciences,
UTM Shah Alam
#agadu

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Congratulations

Prof Madya Dr Zety Sharizat Hamidi

Best Presenter Award
2nd International Conference on Space
Weather and Satellite Application
(ICeSSAT 2020)

7 July 2020

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Congratulations

**Mrs. Zafirah Zainal Abidin
Dr Siti Nur Liyana Mamaud
Dr Siti Salina Sarkawi**

GOLD-SPECIAL AWARD

THE 4TH WORLD INVENTION ACADEMIC CONFERENCE
(WIAC2020), SEOUL, KOREA

TITLE:
TRANSFORMING RECLAIMED RUBBER INTO SUSTAINABLE AND ENVIRONMENTAL
FRIENDLY SHOE SOLES WITH BUTYL RECLAIMED RUBBER / CARBOXYLATED
NITRILE BUTADIENE RUBBER (BRRI/NBR) BLENDS
15 NOV 2020

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Gunaan**

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Congratulations

**Mrs Roslinda binti Fauzi (Leader)
Mrs Zainathul Akhmar Salim binti Abdul Salim
Dr Siti Nurbaya binti Supardan**

GOLD-SPECIAL AWARD

THE 4TH WORLD INVENTION ACADEMIC CONFERENCE
(WIAC2020), SEOUL, KOREA

TITLE:
INNOVATIVE STUDY ON SYNTHESIS OF PALM OIL-BASED POLYOL TO REPLACE
CONVENTIONAL POLYOL IN POLYURETHANE INDUSTRY
9 NOV 2020

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Congratulations

**Mrs Zainathul Akhmar Salim binti Abdul Salim
(Leader)
Mrs Roslinda binti Fauzi
Dr Nik Noor Idayu Nik Ibrahim**

GOLD-SPECIAL AWARD

THE 4TH WORLD INVENTION ACADEMIC CONFERENCE
(WIAC2020), SEOUL, KOREA

TITLE:
PURIFIED RICE HUSK SILICA FROM SOLVENT-THERMAL TREATMENT METHOD - A
POTENTIAL FILLER FOR RUBBER COMPOSITES
11 NOV 2020

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INNOVATIONS & AWARDS

TAHNNIAH PEMENANG PINGAT KATEGORI TERBUKA

EMAS

Prof Madya Ts Dr Noor Najmi Bonnia
 Polypropylene Fabric Filled Graphene Oxide from Recycle Carbon as Virus Filter Sheet

PERAK

Prof Madya CHM Dr Sabiha Hanim Saleh
 Hemicellulose Biobased Film

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 Faculty of Applied Sciences, UTM Shah Alam FSG, UTM Faculty of Applied Sciences (FSG)

TAHNNIAH PEMENANG PINGAT YOUNG INVENTOR POSTGRADUATE

EMAS

NORSYAZLIN BINTI ABD RASHID
 FINGERPRINTING FOR QUALITY WITH MY FINGERPRINT BUDDY!

EMAS

AHMAD FIRDAUS BIN CHE OMAR
 FLEXIBLE ENERGY HARVESTER BATIO3/GRAPHENE NANOGENERATOR

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 Faculty of Applied Sciences, UTM Shah Alam FSG, UTM Faculty of Applied Sciences (FSG)

TAHNNIAH PEMENANG PINGAT YOUNG INVENTOR POSTGRADUATE

PERAK

FATHINUL HAZIQ BIN AHMAD SKAD
 REGIONAL CHLOROPHYLL-A OVER TELUK LIPAT UTILIZING LANDSAT DATASET

PERAK

IZZAIDAH BINTI RIMAN
 PREPARATION AND CHARACTERIZATION OF MOLYBDENUM OXIDE BIOCHAR CATALYST FOR EFFICIENT OXIDATIVE-EXTRACTIVE DESULFURIZATION PROCESS

PERAK

NUR MIZA ATKAH BINTI ZULKAPLI
 FABRICATION OF FLEXIBLE LEAD-FREE Bi1-xGaxFeO3/pdms NANOCOMPOSITES FOR ENERGY BASED APPLICATIONS

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TAHNNIAH PEMENANG PINGAT YOUNG INVENTOR UNDERGRADUATE

EMAS

MUHAMMAD SYADDAD BIN NORIZAL
 A FAST, SIMPLE, COST EFFECTIVE AND ECO-FRIENDLY TECHNIQUE FOR QUALITY CONTROL OF DICLOFENAC IN TABLETS

PERAK

SITI NURFARHANA BINTI MURSAHZANI
 THE SMART HEIGHT MEASUREMENT SYSTEM WITH INTERNET OF THING (IoT)

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TAHNNIAH KONTINJEN FSG
1 EMAS, 8 PERAK DAN 1 GANGSA

PERAK

Ts Dr Nor Dalila

PERAK

Dr Rosdyana

EMAS

Ts Dr Aida Firdaus

PERAK

Ts Dr Nurul Izrin

PERAK

Dr Kavitha

PERAK

Dr Farizan

PERAK

CHM Dr Hairul Amlani

PERAK

Dr Khairul Adzfa

PERAK

Dr Nur Aimi Jali

GANGSA

PM Dr Rahmah

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CONSULTANCY

Congratulations

FSG STAFF
for securing a consultancy project

TITLE:
 ADVISORY AND CONSULTANCY FOR MODIFICATION OF COAL BOTTOM ASH (CBA) AS REINFORCEMENT MATERIAL IN THE DEVELOPMENT OF GREEN POLYMER- MATRIX COMPOSITES (PMC)

Client: TNBR
Amount: RM 183757.69
Duration: 10 months

PROF MADYA DR FAMIZA ABD LATIF
DR SHARIL FADLI MOHAMAD ZAMRI
PUAN ASIAH MOHD NOR
En. MUHAMMAD ZULHAIRY RADZI
DR NABILAH AKEMAL MUHD ZAILANI (UITM Kuala Pilah)

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 dan Negeri Fakulti Sains Gunung

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