



ITEX'18

29TH INTERNATIONAL INVENTION, INNOVATION & TECHNOLOGY EXHIBITION, MALAYSIA

EXHIBITION DIRECTORY

CONCURRENT EXHIBITION



INCORPORATING



10-12
MAY 2018

**KUALA LUMPUR
CONVENTION CENTRE,
MALAYSIA**

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AUTOMOTIVE AND TRANSPORTATION
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

INVENTOR : PROF. MADYA. DR. NOREFFENDY TAMALDIN, IR AJAT SUDRAJAT, AHMAD KAMAL MAT YAMIN, MOHD FADZLI ABDOLLAH, HILMI AMIRUDDIN, MOHD IDAIN FAHMY ROSLEY

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INVENTION : HHO CELL FOR IMPROVED ENGINE PERFORMANCE AND EMISSION

DESCRIPTION : THE HYBRID HHO CELL COMBINE BOTH WET AND DRY CELL DESIGN TOGETHER WITH ADVANCED MATERIAL CHARACTERISATION WITH THE FUNDAMENTAL OF FLUID DYNAMICS TO EXPLOIT ITS FULL POTENTIAL. IT WAS FOUND THAT IMPROVEMENT OF FUEL ECONOMY UP TO 30% AND EMISSION REDUCTION UP TO 50% FOR INTERNAL COMBUSTION ENGINE.

AUTOMOTIVE AND TRANSPORTATION
UNIVERSITI TUN HUSSEIN ONN MALAYSIA

INVENTOR : PROF. MADYA DR. MUNZILAH BINTI MD. ROHANI, DR. BASIL DAVID DANIEL, PROF. MADYA DR. MOHAMMAD YUSRI AMAN, MOHAMAD FAUZI ZAKARIA, PROF MADYA DR NOOR YASMIN ZAINUN

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INVENTION : BUS SMART DRIVING VARIATION (SMART-DRV)

DESCRIPTION : THIS INVENTION IS USED AS AN INDICATOR FOR BUS SMART DRIVING AND IS AN INVEHICLE BASED DEVICE. THE FUNCTION OF THE DEVICE ARE TO DISPLAY INSTANTANEOUS AND REAL TIME DRIVER FEEDBACK AND TO WARN THE DRIVER IF THE DRIVER APPROACH INFRINGEMENT LIMITS. IT IS DESIGNED SPECIFICALLY FOR MALAYSIAN BUS DRIVER

AUTOMOTIVE AND TRANSPORTATION
UNIVERSITI TEKNOLOGI PETRONAS

INVENTOR : AP IR DR MASRI B BAHAROM, PROF. DR. RASHID A. AZIZ, SALAH ELDIN MOHAMMED, ASSOCIATE PROFESSOR DR. ZAINAL AMBRI BIN ABDUL KARIM, DR. WILLIAM PAO

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INVENTION : SINGLE-CYLINDER AIR-COOLED GASOLINE CRANK-ROCKER ENGINE

DESCRIPTION : THIS INVENTION RELATES TO THE INTERNAL COMBUSTION ENGINES OF THE TYPE EMPLOYING PISTON WHICH OSCILLATES BACK AND FORTH ABOUT FIXED-PIVOT. IT IS VERY SIMPLE IN DESIGN, LESS FRICTION AND EASY TO BE MANUFACTURED. THESE FEATURES ENABLE THE ENGINE TO HAVE HIGHER EFFICIENCY THAN THE CONVENTIONAL ENGINE.

AUTOMOTIVE AND TRANSPORTATION
UNIVERSITI TEKNOLOGI PETRONAS

INVENTOR : MOHD SYAIFUDDIN B MOHD, DR. MIOR AZMAN MIOR SAID, AMIRUL ASHRAF BIN MARZUKI, GARY FOO XIANG-G, LEE YEH SENG, ANDERSON CHAN KUAN HONG

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INVENTION : SOLAR POWERED SYSTEM FOR INTERIOR TEMPERATURE REGULATION OF PARKED VEHICLES

DESCRIPTION : THE PRODUCT ELIMINATE ADVERSE EFFECTS OF HIGH CABIN TEMPERATURE. HOT AIR IS DRAWN OUT FROM CABIN BY SUCTION FANS INSIDE SUPPORTING PILLARS USING ENERGY FROM SOLAR PANEL ON REAR SPOILER AND/OR ON FRONT WINDSHIELD. RESULTS SHOWS 10 DEGREES CELCIUS TEMPERATURE REDUCTION ON CABIN TEMPERATURE.

BIOTECHNOLOGY, HEALTH AND FITNESS
FACULTY OF CIVIL ENGINEERING, UITM SHAH ALAM

INVENTOR : MARFIAH AB. WAHID (DR.), DZULAIKHA KHAIRUDDIN

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INVENTION : D-TECH, PORTABLE PATHOGENIC LEPTOSPIRA DETECTION DEVICE

DESCRIPTION : THE INVENTION IS A PORTABLE DETECTION DEVICE SPECIFIC FOR PATHOGENIC LEPTOSPIRA DETECTION IN WATERFALL AREA. THIS DEVICE EMPLOYS 3 STEPS METHOD THAT ALLOWS ON-SITE DETECTION WITH MINIMAL HANDLING. THIS DEVICE IS MUCH NEEDED AS A PREVENTIVE ACTION TO REDUCE THE CASES OF LEPTOSPIROSIS IN MALAYSIA.

BIOTECHNOLOGY, HEALTH AND FITNESS
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

INVENTOR : ASST. PROF. DR. ROZLIN ABD RAHMAN, ASST. PROF. DR. MUNIRAH SHA'BAN, PROF. DR AHMAD HAFIZ ZULKIFLY

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INVENTION : BIOARTIFICIAL ARTICULAR CARTILAGE SUBSTITUTE (BACS): ADVANCING FUNCTIONAL TISSUE ENGINEERED MEDICAL PRODUCT

DESCRIPTION : THIS PROOF OF CONCEPT BIOARTIFICIAL ARTICULAR CARTILAGE SUBSTITUTE USES THE COMBINATION OF BIODEGRADABLE SYNTHETIC PLGA-NATURAL FIBRIN SCAFFOLD, CHEMICAL STIMULI AND AUTOLOGOUS BONE MARROW MESENCHYMAL STEM CELLS. THE CONSTRUCT SHOWS PROMISING NEO-CARTILAGE FORMATION IN AN ANIMAL MODEL.

BIOTECHNOLOGY, HEALTH AND FITNESS
MULTIMEDIA UNIVERSITY

INVENTOR : ASSOC PROF DR MOHAMMAD FAIZAL BIN AHMAD FAUZI, FAZLY SALLEH ABAS, SARINA MANSOR, MOHAMMAD FAREED JAMALUDDIN

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INVENTION : TUMOR DETECTION IN WHOLE-SLIDE PATHOLOGY IMAGES

DESCRIPTION : THIS INVENTION USES ADVANCED MACHINE LEARNING ALGORITHMS TO DETECT TUMOR REGIONS IN VERY HIGH RESOLUTION IMAGES OF BREAST CARCINOMA TISSUES. THE SYSTEM CAN ASSIST PATHOLOGISTS IN PROVIDING BETTER AND MORE CONSISTENT DIAGNOSIS AND PROGNOSIS COMPARED TO THE CURRENT MANUAL EXAMINATION OF GLASS SLIDES.

BIOTECHNOLOGY, HEALTH AND FITNESS
MULTIMEDIA UNIVERSITY

INVENTOR : ASSOC PROF DR MOHAMMAD FAIZAL BIN AHMAD FAUZI, METIN GURCAN

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INVENTION : FOLLICULAR LYMPHOMA GRADING SYSTEM (FLAGS)

DESCRIPTION : THE INVENTION USES MACHINE LEARNING ALGORITHMS TO ASSIST PATHOLOGIST IN GRADING FOLLICULAR LYMPHOMA CANCER. IT DETECTS POTENTIAL TISSUE REGIONS FOR EXAMINATION, AND CLASSIFIES THEM INTO DIFFERENT GRADES. THE RESULTS ARE DISPLAYED IN SUCH A WAY TO HELP PATHOLOGISTS TO DECIDE THE FINAL CANCER GRADES.

BIOTECHNOLOGY, HEALTH AND FITNESS
MULTIMEDIA UNIVERSITY

INVENTOR : IR.DR NG POH KIAT, MR JEE KIAN SIONG, DR YEOW JIAN AI, MS THONG LI WAH

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INVENTION : WALKING AND STAIR CLIMBING AID

DESCRIPTION : THIS WALKING AND STAIR CLIMBING AID: - INCLUDES A RECIPROCAL FUNCTION FOR BETTER GAIT MOVEMENT AND STABILITY - EMPLOYS DOUBLE SLIDER CRANK MECHANISM HAVING A PAIR OF DISC BEARING AND MECHANICAL LINKAGES AT THE SIDES TO ASSIST IN STAIR CLIMBING AND DESCENDING.

Certificate of Award

This is to certify that

**ASST. PROF. DR. ROZLIN ABD RAHMAN,
ASST. PROF. DR. MUNIRAH SHA'BAN,
PROF. DR AHMAD HAFIZ ZULKIFLY**

INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA, MALAYSIA

has been awarded the

ITEX 2018 SILVER MEDAL

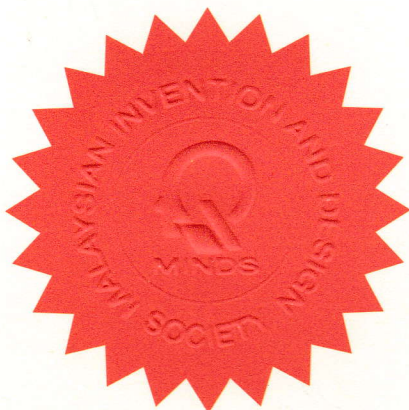
for the invention

**BIOARTIFICIAL ARTICULAR CARTILAGE SUBSTITUTE (BACS):
ADVANCING FUNCTIONAL TISSUE ENGINEERED MEDICAL PRODUCT**

at the

**29TH INTERNATIONAL INVENTION, INNOVATION & TECHNOLOGY
EXHIBITION 2018**

**KUALA LUMPUR, MALAYSIA
10 – 12 MAY 2018**



Augustine Ong

**Academician Emeritus Professor
Tan Sri Datuk Dr Augustine Ong Soon Hock**
President
Malaysian Invention and Design Society

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