

PENYELIDIKAN & PEMBANGUNAN

Pameran ITEX 2007

Pada 18 hingga 20 Mei 2007, UniMAP telah menghantar sebanyak 28 produk penyelidikan ke International Invention, Innovation, Industrial Design & Technology Exhibition (Itex) 2007 yang telah berlangsung di Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur. Selain daripada penyertaan oleh institusi pengajian tinggi dan agensi-agensi tempatan, pameran ITEX 2007 turut disertai oleh peserta-peserta dari Korea, Taiwan, Iran, Republik Cezh, Croatia dan beberapa buah negara lagi. 93% produk penyelidikan UniMAP telah memenangi pingat di pameran ini. Daripada 28 produk tersebut, 26 produk telah dianugerahkan pingat manakala 2 produk lagi, iaitu penerima pingat emas dan perak di Ekspo MTE yang lalu terkecuali atas sebab-sebab teknikal. Sebanyak 6 produk telah dianugerahkan pingat emas, 11 produk pingat perak dan 9 produk telah menerima pingat gangsa.

Lebih membanggakan lagi, 2 hasil penyelidikan UniMAP telah menerima anugerah khas antarabangsa. Penyelidikan Silicon Nanowire oleh Prof. Madya Dr. Uda Hashim telah menerima Anugerah Genius Award dari Hungary manakala produk penyelidikan Kayan 1: A Particle Board From Rice Husk oleh Suhardy Daud telah diiktiraf sebagai produk penyelidikan terbaik dan menerima anugerah International Federation Of Inventors (IFIA). UniMAP telah menambah satu lagi koleksi pingat emas pameran ITEX 2007 apabila diumumkan sebagai pemenang booth terbaik.

Pameran PECIPTA 2007

UniMAP telah menghantar penyertaan sebanyak 27 produk penyelidikan ke pertandingan yang diadakan di Kuala Lumpur Convention Centre ini yang bermula dari 10 hingga 12 Ogos 2007. Daripada 27 penyertaan di dalam pertandingan ini UniMAP telah berjaya memenangi 1 emas, 4 perak dan 5 gangsa, dan ini boleh di anggap satu pencapaian yang baik jika dibandingkan dengan

pencapaian universiti lain. UniMAP menduduki tangga ke enam daripada 23 universiti yang bertanding.

Pameran Malaysia Technology Expo

Universiti Malaysia Perlis sekali lagi telah mencatatkan sejarah di dalam penyertaan sulungnya dalam Pameran Malaysia Technology Expo 2007 (MTE) yang telah diadakan di Pusat Dagangan Dunia Putra pada 29-31 Mac 2007. Pada penyertaan kali ini, UniMAP telah menghantar 3 produk terbaik yang telah memenangi pingat emas dan perak di Pameran Ekspo Penyelidikan UniMAP 2006 yang telah diadakan pada November tahun lalu.

Daripada 3 penyertaan berkenaan, UniMAP telah berjaya memenangi 1 emas, 1 perak dan 1 gangsa. Produk penyelidikan Compact Bio Fuel Burner oleh Mohamad Shaiful Ashrul Ishak telah memenangi pingat emas diikuti oleh produk penyelidikan Easy Fix Concrete Block - hasil penyelidikan yang diketuai oleh Mohd Mustafa Al Bakri Abdullah yang memenangi pingat Perak dan produk penyelidikan di bawah Profesor Madya Mohamad Murray Hunter, FMCG Products Manufactured With Essential Oils As Active Ingredients yang memenangi pingat gangsa.

Pertandingan seumpama ini amat berkesan serta dapat memberi impak yang menyeluruh kepada penyelidik UniMAP untuk lebih berdaya saing dalam menghasilkan produk yang lebih bermutu tinggi pada masa akan datang. Ia juga dapat memperkenalkan UniMAP di peringkat yang lebih tinggi bukan sahaja kerana universitinya, tetapi juga produk yang dihasilkan yang bertaraf antarabangsa.

RESEARCH & DEVELOPMENT

ITEX 2007 Exhibition

On 18 until 20 May 2007, UniMAP had sent a number of 28 research products to the International Invention, Innovation, Industrial Design & Technology Exhibition (Itex) 2007 which took place at Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur. Despite of entrees from higher education institutions and local agencies, ITEX exhibition 2007 was joined by participants from Korea, Taiwan, Iran, Republic Cezh, Croatia and a few other countries.. 93% of UniMAP's research products had won gold medal in this exhibition.. Out of the 28 products, 26 products were awarded medals while 2 products, which had won gold ,and silver medals at the last MTE Expo were except for technical reasons. 6 products were awarded gold medals, 11 products were awarded silver medals and 9 products received bronze medals.

To be more proud, 2 UniMAP's researched had won special international award. Researched on Silicon Nanowire by Assoc. Professor Dr. Uda Hashim had received Anugerah Genius Award from Hungary while researched product Kayan 1: A Particle Board From Rice Husk by Suhardy Daud was acknowledged as the best research product and awarded with International Federation Of Inventors (IFIA). UniMAP had increased one more gold medal collection at ITEX 2007 when it was announced as the winner for the best booth award.

PECIPTA 2007 Exhibition

UniMAP had sent a number of 27 entrees of research products to the exhibition held at Kuala Lumpur Convention Centre which started from 10 to 12 August 2007. Out of 27 entrees in the competition UniMAP had won 1 gold, 4 silvers and 5 bronzes, and this can be accepted as a good achievement as compared to other universities achievements. UniMAP ranked at the sixth place of 23 competing universities.

Malaysia Technology Expo Exhibition

Universiti Malaysia Perlis once against created history in its first entrees at Malaysia Technology Expo 2007 (MTE) exhibition that was held at the Putra World Trade Centre on 29 – 31 March 2007. In this entrees UniMAP had sent 3 best products which had won the gold and silver medal at UniMAP Research Expo Exhibition held November last year.

Out of the 3 entrees, UniMAP had won 1 gold, 1 silver and 1 bronze. Researched product **Compact Bio – Fuel Burner** by Mohamad Shaiful Ashrul Ishak had won gold medal followed by researched product **Easy Fix Concrete Block** – crop of researched headed by Mohd Mustafa Al Bakri Abdullah- which won silver medal and researched product under Assoc. Professor Mohamad Murray Hunter, **FMCG Products Manufactured With Essential Oils As Active Ingredients** which won bronze medal.

This type of competition is effective hence gives an overall impact to all UniMAP's researchers to be more competitive in creating higher quality products in the future. It will also introduces UniMAP at a higher level not for its university, but also the products its produces are internationally recognised.





PENYELIDIKAN & PEMBANGUNAN

Pencapaian / Achievements

PERINGKAT ANTARABANGSA

GENEVA 35th INTERNATIONAL EXHIBITION OF INVENTION NEW TECHNIQUES AND PRODUCTS

Pingat / Medal : **Emas / Gold**

Penyelidik / **Researcher** :

Dr. Khairul Nizar Ismail
Mohd Sobri Idris
Kol. Prof. Dato' Dr. Kamarudin Hussin
Prof. Dr. Sabarudin Mohd
Prof. Madya Dr. Khairun Azizi Mohd Azizli

Tajuk / **Title** :

The Production Of Lightweight Aggregates From Local Waste

Pingat / Medal : **Perak / Silver**

Penyelidik / **Researcher** :

Prof. Madya Zaliman Sauli
Hasnizah Aris
Razaidi Hussin
Mohd. Hafiz Ismail
Rizalafande Che Ismail

Tajuk / **Title** :

Microeletromechanical System (MEMS) Heatsator

Pingat / Medal : **Gangsa / Bronze**

Penyelidik / **Researcher** :

Prof. Madya Che Mohd Ruzaidi Ghazali
Kol. Prof. Dato' Dr. Kamarudin Hussin
Prof. Madya Dr. Shamsul Baharin Jamaludin
Mohd Mustafa Al Bakri Abdullah
Dr. Khairul Nizar Ismail

Tajuk / **Title** :

UniMAP Impreg Wood

Penyelidik / **Researcher** :

Mazlee Bin Mohd. Noor
Prof. Madya Dr. Shamsul Baharin Jamaludin
Prof. Madya Che Mohd Ruzaidi Ghazali
Chek Idrus Omar

Tajuk / **Title** :

Recycled Aluminium Composite Pulley

INVENTIONS PRESENTED BY IFIA OFFICE AT INTERNATIONAL WARSAW INVENTION SHOW - IWIS

Pingat / **Medal** : **Emas / Gold**

Penyelidik / **Researcher** :

Dr. Khairul Nizar Ismail
Mohd Sobri Idris
Kol. Prof. Dato' Dr. Kamarudin Hussin
Prof. Dr. Sabarudin Mohd
Prof. Madya Dr. Khairun Azizi Mohd Azizli

Tajuk / **Title** :

The Production Of Lightweight Aggregates From Local Waste

PAMERAN BRUSSELS INNOVA ENERGY (EUREKA)

Pingat / **Medal** : **Emas / Gold**

Penyelidik / **Researcher** :

Mohamad Shaiful Ashrul Ishak

Tajuk / **Title** :

Compact Bio-fuel Burner

INVENTION & NEW PRODUCT EXPOSITION (INPEX) USA

Pingat / **Medal** : **Perak / Silver**

Penyelidik / **Researcher** :

Prof. Dr. Ali Yeon Mohd Shakaff
Prof. Dr. Mohd Noor Ahmad
Prof. Madya Dr. Mohamed Zulkali Mohd. Daud
Prof. Madya Dr. Abdul Hamid Adom
Abu Hassan Abdullah
Farizul Hafiz Kasim

Tajuk / **Title** :

Ganobuster : Novel, Easy And Clean Basal Stem Rot Detection System Of Oil Palm Trunk

PAMERAN INTERNATIONAL TRADE FAIR – IDEAS – INVENTIONS – NEW PRODUCTS (IENA 2007)

Pingat / **Medal** : **Emas / Gold**

Penyelidik / **Researcher** :

Prof. Madya Dr. Uda Hashim
Mohammad Nuzaihan Md Nor
Nur Hamidah Abdul Halim

Tajuk / **Title** :

Silicon Nanowires

Pencapaian / Achievements

Pingat / Medal : **Perak / Silver**

Penyelidik / **Researcher** :

Ragunathan A/L Santiagoo

Prof. Madya Che Mohd Ruzaidi Ghazali

Tajuk / Title :

Palm Composite : Composite Products From Palm Ash Waste

PERINGKAT KEBANGSAAN

PAMERAN MALAYSIAN TECHNOLOGY EXPO (MTE) 2007

Pingat / Medal : **Emas / Gold**

Penyelidik / **Researcher** :

Mohamad Shaiful Ashrul Ishak

Tajuk / Title :

COMPACT BIO-FUEL BURNER

Pingat / Medal : **Perak / Silver**

Penyelidik / **Researcher** :

Mohd. Mustafa Al Bakri Abdullah

Dr. Lim Ngau

Norazian Mohamed Noor

Prof. Madya Che Mohd Ruzaidi Ghazali

Tajuk / Title :

Easy Fix Concrete Block

Pingat / Medal : **Gangsa / Bronze**

Penyelidik / **Researcher** :

Prof. Madya Mohamed Murray Hunter

Tajuk / Title :

FMCG Product Manufactured With Essential Oil As Active Ingredients

18th INTERNATIONAL INVENTION, INNOVATION, INDUSTRIAL DESIGN & TECHNOLOGY EXHIBITION (ITEX)

Pingat / Medal : **Emas / Gold**

Penyelidik / **Researcher** :

Ragunathan A/L Santiagoo

Dr. Anbu Clemensis Johnson

Dr. Ir. Salmah Hussein Syah

Prof. Madya Che Mohd Ruzaidi Ghazali

Roshasmawi Abd. Wahab

Azlinda Abdul Ghani

Tajuk / Title :

Palm Composite : Composite Products From Palm Ash Waste

Penyelidik / **Researcher** :

Prof. Madya Dr. Uda Hashim

Mohammad Nuzaihan Md Nor

Nur Hamidah Abdul Halim

Tajuk / Title :

Silicon Nanowires

Penyelidik / **Researcher** :

Prof. Madya Dr. Mohamed Zulkali Mohd. Daud

Farizul Hafiz Kasim

Norahim Ibrahim

Mohd Irfan Hatim Mohd Dzhahir

Noor Hasyierah Mohd Salleh

Hafizah Mohd Johar

Tajuk / Title :

Maltokarpus : Value Added Function Ingredient From Breadfruit Through Thermo-enzymatic Processing

Penyelidik / **Researcher** :

Prof. Madya Dr. Paulraj M.P.

Prof. Dr. Sazali Yaacob

Nor Shaifudin Abd. Hamid

Tajuk / Title :

An Intelligent Vehicle Fault Diagnosing System

Penyelidik / **Researcher** :

Ir. Mohammad Ichwan Nasution

Prof. Madya Dr. Shamsul Baharin Jamaludin

Prof. Madya Che Mohd Ruzaidi Ghazali

Faizul Che Pa

Chek Idrus Omar

Tajuk / Title :

Clay Filled Aluminium Product

Penyelidik / **Researcher** :

Suhardy Daud

Prof. Madya Dr. Shamsul Baharin Jamaludin

Prof. Madya Che Mohd Ruzaidi Ghazali

Prof. Madya Dr. Mohamed Zulkali Mohd. Daud

Mohd Nazry Salleh

Farizul Hafiz Kasim

Saiful Azhar Saad

Tengku Nadzlan Tengku Ibrahim

Wan Su Haron

Tajuk / Title :

KAYAN 1: A Particle Board From Rice Husk **





Pencapaian / Achievements

Pingat / Medal : **Perak / Silver**

Penyelidik / Researcher :

Prof. Madya Dr. Mohamed Zulkali Mohd. Daud
Noor Hasyierah Mohd Salleh
Alina Rahayu Mohamed
Ku Syahidah Ku Ismail

Tajuk / Title :

FOSjuice : Fortified Fruit Juice

Penyelidik / Researcher :

Zulkifli Husin
Mohd Najmuddin Mohd. Hassan

Tajuk / Title :

GPS Navigation Control For Autonomous Vehicle

Penyelidik / Researcher :

Prof. Madya Dr. Johari Adnan
Prof. Dr. Zul Azhar Zahid Jamal
Dr. Izzaman Suleiman Hussain
Sanna Taking
Muhammad Asri Idris
Norhayati Sabani
Nurjuliana Juhari

Tajuk / Title :

**Development Of Barium Strontium Titanate (BST)
Based Sensors/instrument**

Penyelidik / Researcher :

Naimah Ibrahim
Nazerry Rosmady Rahmat
Razi Ahmad
Masitah Hasan
Salwa Mohd Zaini Makhtar
Mahyun Ab. Wahab

Tajuk / Title :

**Palm Sorbent: Acid-impregnated Palm Fibre For
Sorption Of CR (VI) From Chrome Plating Effluent**

Penyelidik / Researcher :

Kol. Prof. Dato' Dr Kamarudin Hussin
Prof. Madya Dr. Mohamed Zulkali Mohd. Daud
Alina Rahayu Mohamed
Dr Zarina Zakaria
Khairul Farihan Kasim
Farizul Hafiz Kasim
Ku Syahidah Ku Ismail

Tajuk / Title :

**Recycling Engineering Of PCBS For Copper
Recovery**

Penyelidik / Researcher :

Saiful Azhar Saad
Salsuwanda Selamat
Che Zulzikrami Azner Abidin
Kol. Prof. Dato' Dr. Kamarudin Hussin
Dr. Khairul Nizar Ismail
Rohazita Bahari

Tajuk / Title :

**SPHOGSORB : Biodegradable Adsorbent For Oil
And Grease Trap**

Penyelidik / Researcher :

Muhammad Imran Ahmad
Mohd Nazrin Md Isa
Baharuddin Ismail

Tajuk / Title :

**Design And Implementation Of Single Phase
Inverter Using FPGA**

Penyelidik / Researcher :

Mohd Mustafa Al Bakri Abdullah
Kol. Prof. Dato' Dr. Kamarudin Hussin
Prof. Madya Che Mohd Ruzaidi Ghazali
Dr. Khairul Nizar Ismail
Norzaidi Zainol

Tajuk / Title :

PC (Polystyrene Concrete)

Penyelidik / Researcher :

Azremi Abdullah Al Hadi
Soh Ping Jack
Dayang Khadijah Hamzah
Prof. Madya Dr. R. Badlishah Ahmad

Tajuk / Title :

**Educational Antenna Training Set For Pattern
Plotting And Analysis Using Basic Antenna
Shapes**

Penyelidik / Researcher :

Prof. Madya Zaliman Sauli
Prof. Madya Dr. Johari Adnan
Prof. Madya Dr. Prabakaran a/I Poopalan
Ramzan Mat Ayub
Hasnizah Aris
Rizalafande Che Ismail
Sohiful Anuar Zainol Murad
Azuwir Md Nor
Abu Hassan Abdullah
Mohd Hatta Musa
Razaidi Hussin

Tajuk / Title :

**Development Of MEMS Manifold Absolute
Pressure Sensor (MAPS) Prototype**

RESEARCH & DEVELOPMENT



Pencapaian / Achievements





PENYELIDIKAN & PEMBANGUNAN

Pencapaian / Achievements

Penyelidik / Researcher :

Norazian Mohamed Noor
Prof. Madya Ahmad Shuki Yahaya
Mohd Mustafa Al Bakri Abdullah
Abdul Haqi Ibrahim

Tajuk / Title :

SMART-E (Smart Estimator)

Pingat / Medal : **Gangsa / Bronze**

Penyelidik / Researcher :

Zulkifli Husin

Tajuk / Title :

Prayer Time Calculation Method Using Global Positioning System (GPS)

Penyelidik / Researcher :

Prof. Madya Dr. Uda Hashim
Prof. Dr. Zul Azhar Zahid Jamal
Sutikno

Tajuk / Title :

Quantum Dot Single Electron Transistor Structure Formation Using E-beam Lithography

Penyelidik / Researcher :

Khairul Farihan Kasim
Prof. Madya Dr. Mohamed Zulkali Mohd. Daud
Noor Hasyierah Mohd Salleh
Sriyana Abdullah
Hafiza Shukor
Hafizah Mohd Johar
Rohazita Bahari
Ku Syahidah Ku Ismail

Tajuk / Title :

ZALAFEED : High Fiber And Protien Husbandry Ingredient From Salak Waste Industries

Penyelidik / Researcher :

Prof. Dr. Ali Yeon Md. Shakaff
Prof. Madya Dr. R. Badlishah Ahmad
Prof. Madya Dr. Mohd. Rizon Mohamed Juhari
Ahmad Nasir Che Rosli
Wan Muhamad Azmi Mamat

Tajuk / Title :

Face Reader Using Single Board Computer & GNU/Linux

Penyelidik / Researcher :

Nurjuliana Juhari
Prof. Madya Dr. Johari Adnan

Tajuk / Title :

Yellow-orange Color Of MEH-PPV Organic Light Emitting Diode (OLED)

Penyelidik / Researcher :

Mohd Hafiz Fazalul Rahiman
Abdul Haqi Ibrahim
Mohd Taufik Jusoh@Tajudin
Soh Ping Jack
Ahmad Firdaus Ahmad Zaidi

Tajuk / Title :

Oil Contamination Detection System (OCDS)

Penyelidik / Researcher :

Hema C.R.
Prof. Madya Dr. Paulraj M.P.
Prof. Dr. R. Nagarajan
Prof. Dr. Sazali Yaacob

Tajuk / Title :

Child Care System: Avoid Accident To Children Behind Reversing Cars

Penyelidik / Researcher :

Saiful Azhar Saad
Dr. Khairul Nizar Ismail
Prof. Madya Dr. Mohamed Zulkali Mohd. Daud
Farizul Hafiz Kasim
Suhardy Daud
Mohd Nazry Salleh
Salsuwanda Selamat
Che Zulzikrami Azner Abidin

Tajuk / Title :

Supasorb Adsorbents For Treatment Of Dyespolluted Wastewater

Penyelidik / Researcher :

Kol. Prof. Dato' Dr. Kamarudin Hussin
Prof. Dr. Mohd. Nasir B. Zainal Arif
Prof. Madya Dr. Shamsul Baharin Jamaludin
Dr. Khairul Nizar Ismail
Prof. Madya Che Mohd Ruzaidi Ghazali

Tajuk / Title :

Portable Aerohub-UniMAP Fire Fighter

PAMERAN PECIPTA

Pingat / Medal : **Emas / Gold**

Penyelidik / Researcher :

Hema C.R.
Prof. Madya Dr. Paulraj M.P.
Prof. Dr. R. Nagarajan
Prof. Dr. Sazali Yaacob

Tajuk / Title :

Intelligent Sensors For Reversing Vehicles



UNIVERSITI MALAYSIA PERLIS

RESEARCH & DEVELOPMENT



Pencapaian / Achievements

Pingat / Medal : Perak / Silver

Penyelidik / Researcher :

Mohd. Mustafa Al Bakri Abdullah
 Kol Prof Dato' Dr Kamarudin Hussin
 Che Mohd Ruzaidi Ghazali
 Dr. Khairul Nizar Ismail
 Norazian Mohamed Noor
 Alida Abdullah

Tajuk / Title :

Décor Concrete Polymer (DCP)

Penyelidik / Researcher :

Prof. Madya Dr. Johari Adnan
 Prof Dr Zul Azhar Zahid Jamal
 Irzaman Sulaiman Hussein
 Muhammad Asri Idris
 Sanna Taking
 Nurjuliana Juhari
 Norhayati Sabani
 Emylia Hamzah

Tajuk / Title :

BST Thinfilm Sensors In Piezoelectric Applications

Penyelidik / Researcher :

Prof. Madya Dr. Uda Hashim
 Mohammad Nuzaihan Md Nor
 Nur Hamidah Abdul Halim

Tajuk / Title :

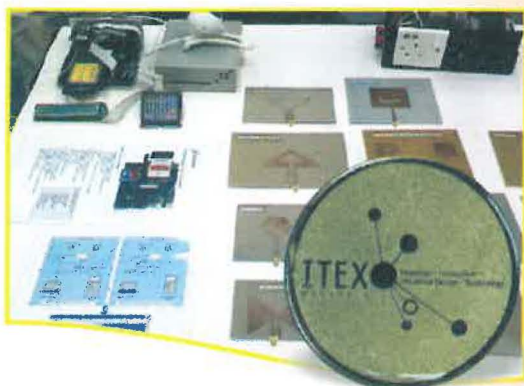
Semiconductor Nanowire

Penyelidik / Researcher :

Dr. Supri A.Ghani
 Dr Salmah
 Prof Mohd Nasir Zainal Arifin
 Prof Madya Che Mohd Ruzaidi Ghazali
 Azmi Aziz
 Ku Hasrin Ku Ariffin

Tajuk / Title :

Egg Shell As Absorbent For Waste Cooking Oil



Pingat / Medal : Gangsa / Bronze

Penyelidik / Researcher :

Zulkifli Husin
 Mohd .Najmuddin Mohd. Hassan

Tajuk / Title :

Embedded Prayer Time Using Global Positioning System (EM-PT)

Penyelidik / Researcher :

Saiful Azhar Saad
 Kol. Prof. Dato' Dr Kamarudin Hussin
 Dr Khairul Nizar Ismail
 Rohazita Bahari
 Roshasmawi Abdul Wahab
 Che Zulzikrami Azner Abidin
 Salsuwanda Selamat

Tajuk / Title :

SPOSSORB : Biodegradable Adsorbents For Oil And Grease Removal

Penyelidik / Researcher :

Muhammad Imran Ahmad
 Mohd Nazrin Md Isa
 Baharuddin Ismail
 Mohd Fisal Osman

Tajuk / Title :

Design And Implementation Of FPGA-Based Control IC For Single Phase Inverter

Penyelidik / Researcher :

Prof. Madya Dr. Paulraj M.P.
 Prof. Dr. Sazali Yaacob
 Nor Shaifudin Abd. Hamid

Tajuk / Title :

An Intelligent System For Engine Fault Detection

Penyelidik / Researcher :

Prof. Madya Che Mohd Ruzaidi Ghazali
 Kol Prof Dato' Dr Kamarudin Hussin
 Prof. Madya Dr. Shamsul Baharin Jamaludin
 Mohd Mustafa Al Bakri Abdullah
 Nurul Razliana Abd Razak

Tajuk / Title :

Grass-plastics Composite Panel (GPC Panel)



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PENYELIDIKAN & PEMBANGUNAN

Pencapaian / Achievements



RESEARCH & DEVELOPMENT



Statistik Pingat / Medal Mengikut IPT - PECIPTA 2007

Bil	Nama IPT / Higher Learning Institutes		Pingat / Medal			JUMLAH Total
			Emas / Gold	Perak / Silver	Gangsa / Bronze	
1	UM	Universiti Malaya	2	1	8	11
2	USM	Universiti Sains Malaysia	5	4	6	15
3	UKM	Universiti Kebangsaan Malaysia	3	3	12	18
4	UPM	Universiti Putra Malaysia	4	3	4	11
5	UTM	Universiti Teknologi Malaysia	3	8	10	21
6	UiTM	Universiti Teknologi MARA	-	8	11	19
7	UIAM	Universiti Islam Antarabangsa Malaysia	4	5	6	15
8	UUM	Universiti Utara Malaysia	-	-	4	4
9	UNIMAS	Universiti Malaysia Sarawak	1	1	3	5
10	UMS	Universiti Malaysia Sabah	-	1	1	2
11	UPSI	Universiti Pendidikan Sultan Idris	-	-	1	1
12	UTHM	Universiti Tun Hussein Onn Malaysia	-	1	4	5
13	UniMAP	Universiti Malaysia Perlis	1	4	5	10
14	USIM	Universiti Sains Islam Malaysia	-	-	6	6
15	UMP	Universiti Malaysia Pahang	-	3	3	6
16	UMT	Universiti Malaysia Terengganu	-	2	1	3
17	UPNM	Universiti Pertahanan Nasional Malaysia	-	-	-	0
18	UDM	Universiti Darul Iman Malaysia	-	-	-	0
19	UTeM	Universiti Teknikal Malaysia Melaka	-	1	3	4
20	MUST	Malaysia University of Science and Technology	-	-	-	0
21	UniKL	Universiti Kuala Lumpur	-	-	2	2
22	UTP	Universiti Teknologi Petronas	1	1	2	4
23	UNITEN	Universiti Tenaga Nasional	-	1	4	5
Jumlah / Total			24	47	96	167





PENYELIDIKAN & PEMBANGUNAN

Penerima Geran Sciencefund

Tajuk / Title : **Development Of Cost Effective Cement Matrix Composites**

Penyelidik / Researcher : Khairul Nizar Ismail
PPK / Schools : Alam Sekitar / Environmental
Amaun / Amount : RM154,000.00

Tajuk / Title : **Development Of Dense Hydroxyapatite From Natural Bone**

Penyelidik / Researcher : Sri Asliza Md. Amin
PPK / Schools : Bahan / Materials
Amaun / Amount : RM100,000.00

Tajuk / Title : **Studies On The Production And Properties Of Metal Filled Polymer As High Filler Loading Composites**

Penyelidik / Researcher : Che Mohd Ruzaidi Ghazali
PPK / Schools : Bahan / Materials
Amaun / Amount : RM266,000.00

Tajuk / Title : **Development Of Bio-friendly Sacrificial Anode From Magnesium Alloys For Underground Structure Corrosion Protection**

Penyelidik / Researcher : Saiful Rizam Shamsudin
PPK / Schools : Bahan / Materials
Amaun / Amount : RM200,805.00

Tajuk / Title : **Production Of Biofuel For Starch-based Compound Via Green Technology**

Penyelidik / Researcher : Ku Syahidah Ku Ismail
PPK / Schools : Bioproses / Bioprocess
Amaun / Amount : RM282,500.00

Tajuk / Title : **Process Design Study: Bioabsorption Medium Development**

Penyelidik / Researcher : Khairul Farihan Kassim
PPK / Schools : Bioproses / Bioprocess
Amaun / Amount : RM277,000.00

Tajuk / Title : **Screening Of Ultraviolet Radiation Protection Of Bioactive Compounds From Selected Plants (Pteridophyte)**

Penyelidik / Researcher : Khairul Farihan Kassim
PPK / Schools : Bioproses / Bioprocess
Amaun / Amount : RM220,000.00

Tajuk / Title : **Design And Development Of A Portable Anechoic Chamber For Nanowires Antenna Measurement**

Penyelidik / Researcher : Azremi Abdullah Al Hadi
PPK / Schools : Komputer & Perhubungan / Computer & Communication
Amaun / Amount : RM224,000.00

Tajuk / Title : **Portable Network Analyzer Using Embedded Linux Based Single Board Computer (SBC)**

Penyelidik / Researcher : Zahereel Ishwar Abd Khalib
PPK / Schools : Komputer & Perhubungan / Computer & Communication. Amaun / Amount : RM145,862.00

Tajuk / Title : **Development Of Intelligent Weevil Detection System For Harumanis Mango Using Dielectric Sensor**

Penyelidik / Researcher : Yasmin Mohd Yaacob
PPK / Schools : Komputer & Perhubungan / Computer & Communication. Amaun / Amount : RM188,200.00

Tajuk / Title : **Detecting Structural Steel Damage Using Non-destructive Vibration Testing**

Penyelidik / Researcher : Mohd Shukry Abdul Majid
PPK / Schools : Mekatronik / Mechatronic
Amaun / Amount : RM179,100.00

Tajuk / Title : **Development Of A Personal Service Robot Inherently Motivated By Learning Human Emotion**

Penyelidik / Researcher : Ramachandran Nagarajan
PPK / Schools : Mekatronik / Mechatronic
Amaun / Amount : RM171,400.00

Tajuk / Title : **Development Of Ultrasonic Tomographic Imaging Instrument For Measuring Oxygen Transfer Rate In Bioreactor**

Penyelidik / Researcher : Mohd Hafiz Fazalul Rahiman
PPK / Schools : Mekatronik / Mechatronic
Amaun / Amount : RM205,000.00

Tajuk / Title : **Development Of Robust Technique For A Real Time Human Facere cognition System**

Penyelidik / Researcher : Mohd Rizon Mohd Johari
PPK / Schools : Mekatronik / Mechatronic
Amaun / Amount : RM283,750.00

Tajuk / Title : **3-D Based Inspection For Surface Mount Components In A Printed Circuit Board Assembly (PCBA) Using Fringe Projection**

Penyelidik / Researcher : Vithyacharan A/I Retnasamy
PPK / Schools : Mekatronik / Mechatronic
Amaun / Amount : RM167,000.00

Tajuk / Title : **Design Of A Portable Continues Blood Pressure Monitoring Kit With Built-in Low & High Blood Pressure Early Warning**

Penyelidik / Researcher : Mohd Yusoff Mashor
PPK / Schools : Mekatronik / Mechatronic
Amaun / Amount : RM128,520.00





Sciencefund Receiver List

Tajuk / Title : Development Of Prototype Of Autonomous Mobile Robot For Navigation Mapping System In Hazardous Environment
Penyelidik / Researcher : Zunaidi Ibrahim
PPK / Schools : Mekatronik / Mechatronic
Amaun / Amount : RM191,000.00

Tajuk / Title : Development Of CMOS ISFET Based PH Sensor For Biomedical Application
Penyelidik / Researcher : Uda Hashim
PPK / Schools : Mikroelektronik / Microelectronic
Amaun / Amount : RM399,000.00

Tajuk / Title : Fluid Dynamics Simulatation And Optical Visualisation Correlation In Micron-sized Channels
Penyelidik / Researcher : Zaliman Sauli
PPK / Schools : Mikroelektronik / Microelectronic
Amaun / Amount : RM105,575.00

Tajuk / Title : Development Of Portable Multi Channel Bio Sensor Using Nanogap Capacitor For Biomedical (DNA Hybridisation) Detection
Penyelidik / Researcher : Uda Hashim
PPK / Schools : Mikroelektronik / Microelectronic
Amaun / Amount : RM498,000.00

Tajuk / Title : Fluid Flow Dependence On Quartz Micro Channel Processing
Penyelidik / Researcher : Prabakaran Poopalan
PPK / Schools : Mikroelektronik / Microelectronic
Amaun / Amount : RM271,000.00

Tajuk / Title : Development Of A Non-destructive Fruit Maturity Testing System Utilizing Radio Frequency, Capacity, Properties And Natural Networkalgorithm
Penyelidik / Researcher : Zulkifli Hussin
PPK / Schools : Pembuatan / Manufacturing
Amaun / Amount : RM190,200.00

Tajuk / Title : Development Of Selective Non-catalytic Reduction System To Control Nox Pollution In Bio-fuel Combustion System
Penyelidik / Researcher : Mohd Shaiful Ashrul Ishak
PPK / Schools : Pembuatan / Manufacturing
Amaun / Amount : RM176,000.00

Tajuk / Title : Development Of A New Palm Oil And Agro-filler Based Industrial Wax Product For Engineering Application
Penyelidik / Researcher : Bhuvenesh Rajamony
PPK / Schools : Pembuatan / Manufacturing
Amaun / Amount : RM226,000.00

Perincian Sciencefund Tahun 2007

BIL	PPK / Schools	FRGS		ScienceFund (SF)		STG (Short Term Grant)		Jumlah 2007	
		Bil	Amaun	Bil	Amaun	Bil	Amaun	Bil	Amaun
1	Mikroelektronik / Microelectronic	7	392.842	4	1.273.575	-	-	11	1.666.417
2	Sistem Elektrik / Electrical Systems	11	574.500	-	-	-	-	11	574.500
3	Komputer & Perhubungan / Computer & Communication	6	202.000	4	748.262	-	-	10	950.262
4	Mekatronik / Mechatronic	19	1.287.200	7	1.325.770	-	-	26	2.612.970
5	Bahan / Materials	7	478.700	3	566.805	-	-	10	1.045.505
6	Pembuatan / Manufacturing	5	273.700	2	402.000	-	-	7	675.700
7	Bioproses / Bioprocess	3	309.000	3	779.500	1	20.000	7	1.088.500
8	Alam Sekitar / Environmental	9	484.600	1	154.000	1	10.000	11	648.600
9	PKKK / CCSE	4	132.842	-	-	-	-	4	132.842
10	Inst. Mate. Kej. / Inst. of Eng. Math.	1	12.842	-	-	-	-	1	12.842
Jumlah / Total		72	4.148.226	24	5.249.912	2	30.000	98	9.428.138

